

A single copy of this document is licensed to

On

This is an uncontrolled copy. Ensure use of the most current version of the document by searching the Construction Information Service.

PSA Schedule of Rates for Electrical Services

SEVENTH EDITION 2016

London: The Stationery Office

Published by TSO (The Stationery Office), part of Williams Lea,
and available from:

Online

www.tsoshop.co.uk

Mail, Telephone, Fax & E-mail

TSO

PO Box 29, Norwich, NR3 1GN

Telephone orders/General enquiries: 0333 202 5070

Fax orders: 0333 202 5080

E-mail: customer.services@tso.co.uk

Textphone 0333 202 5077

TSO@Blackwell and other Accredited Agents

© Carillion 2016

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the permission of the publisher.

Applications for reproduction should be made in writing to the Office of Public Sector Information, Information Policy Team, Kew, Richmond, Surrey TW9 4DU.

The information contained in this publication is believed to be correct at the time of manufacture. While care has been taken to ensure that the information is accurate, the publisher can accept no responsibility for any errors or omissions or for changes to the details given. Every effort has been made to trace copyright holders and to obtain permission for the use of copyright material. The publishers will gladly receive any information enabling them to rectify any errors or omissions in subsequent editions.

First published 2016

ISBN 9780117082366

Printed in the United Kingdom by TSO
P002828874 C1 09/16

This is the Seventh Edition of The Schedule of Rates for Electrical Services and is the latest in a line of Schedules dating back to 1840, now produced by Carillion.

Carillion has many years of experience in compiling Schedules of Rates for use by construction in both the private and public sectors. This derives from origins within the Property Services Agency where a comprehensive portfolio of construction publications was developed to meet the needs of the Government Estate.

Carillion provide a range of additional Schedule of Rates related services including:

Bespoke Schedules of Rates

Schedules tailored to your requirements; sections not required can be removed and/or additional items can be included, and the rates can be easily amended to reflect particular resource costs and/or allowances.

Computerised Estimating and Term Contract Administration Systems

Advice on systems utilising The Schedules of Rates.

A Schedule of Rates computer system can enable Employers, Consultants and Contractors working on Measured Term Contracts to process Works Orders and Estimates with the minimum of input. It offers substantial savings in time, accuracy and improved presentation over manual methods.

One of the main benefits is to dramatically reduce the time spent by surveyors writing out and calculating the value of a Works Order or Estimate, including squaring dimensions, extending them by a rate and applying Contract percentages. By retaining the Order details, an Order Ledger is created and various reports on the Contract can be generated automatically.

Many Contracts can be held and new ones are added with the minimum of effort. Contract information held can include Contract number, description, year of Schedule of Rates in use, Contractor's percentage(s), etc. Besides any published Schedule of Rates, Addendum and Bespoke Schedules can also be added, including the ability to import Schedule details directly from Excel or ASCII format.

The following firm has been granted a licence to reproduce this Schedule in a computerised form:

Barcellos Holdings Limited
Unit D, Leicester Business Centre
11 Ross Walk
Leicester LE4 5HH

Telephone: 0116 268 2488
Facsimile: 0116 268 1192
www.barcellos.co.uk

SORassist LTD
141 Haypark Avenue
Belfast, Northern Ireland
BT7 3FG

Telephone: 07968 179825
E.mail: info@sorassist.co.uk
www.sorassist.co.uk

Measured Term Contract advice

Contract action, tender evaluation and post-contract administration.

Further advice is also available in "A Guide to Measured Term Contracts: Obtaining Value-For-Money in Building Maintenance and Repairs" ISBN: 0-11-702554-2, £40.00.

Training

Schedules of Rates and Term Contracting generally.

Further advice is also available in "PSA Schedules of Rates - A Training Manual: Measurement and Pricing Guidance with Worked Examples" ISBN: 948-0-11-706832-2, £95.00.

PSA Schedules of Rates

To obtain advice and information, please contact:

Carillion Schedules of Rates Group
TPS Consult Ltd
5th Floor, Interchange
81-85 Station Road
Croydon, Surrey
CR0 2RD

Telephone: 0870 128 5220
E.mail: scheduleofrates.psa@carillionplc.com
Website: www.psa-sor.com

www.carillionplc.com

MTC Updating Percentages Online

These monthly updating percentages may be used as a contractual basis for the reimbursement of costs for measured term contracts let on all PSA Schedules of Rates or other forms of maintenance contracts as well as assisting in updating estimates.

Available from:

Building Cost Information Service
12 Great George Street,
Parliament Square
London SW1P 3AD.

Telephone: +44(0)20 7695 1500
E.mail: contact@bcis.co.uk

Order online at www.bcis.co.uk/online (subscription service).

Whilst all reasonable care has been taken in the compilation of this Schedule of Rates, Carillion plc and its subsidiaries will not be under any legal liability of any kind in respect of any misstatement, error or omission contained herein, or for the reliance any person, company or authority may place thereon.

Contents

Section	Page	Section	Page
General directions		W20 Radio / TV / CCTV	
Generally	1	Aerials	63
Preliminaries	1	CCTV	64
Method of measurement	2	Co-axial cables	67
Rates	3	Aerial sockets	68
Definitions	5	W30 Data transmission	
Abbreviations	6	Co-axial cables	71
V10 Electricity generation		Optical fibre cables	73
Photovoltaic modules and panels		Structured cabling	75
Photovoltaic modules	8	Data cabling	76
Photovoltaic controllers	10	Local area network cabling	79
Support structures	11	Connectors	80
Wind turbine generators	14	Connections to equipment	84
V11 HV Supply / distribution / public utility		Cabinets	85
Switchgear	20	W40 Access Control	
Transformers	21	Entry phone access	90
Packaged sub-stations	21	Card swipe and proximity access	91
V12 LV Supply / public utility supply		Code input access	92
Fuse pillars	24	Accessories	92
Fuse pillars: Specification 039	28	W41 Security detection and alarm	
V32 Uninterruptible power supply		PIR movement detectors	94
Uninterruptible power supply	29	Intruder alarms	95
Inverters: off grid	30	Emergency call systems	96
Inverters: grid connected	33	Conventional call systems	97
V40 Emergency lighting		Disabled toilet alarm systems	98
Emergency lighting	38	W50 Fire detection and alarm	
Central battery equipment	46	Control and indicating equipment	100
Hazardous area	47	Manual call points	102
W10 Telecommunications		Heat and smoke detectors	103
Telecommunications cables	51	Automatic fire detectors	104
Connectors	53	Sounders and visible alarms	104
W12 Public address / sound amplification		Automatic release mechanisms	106
Amplifiers / mixers	56	W51 Earthing and bonding	
Microphones	57	Protective conductors	108
Loudspeakers	58	Earth clamps	109
Audio-frequency Induction loop	60	Earth electrodes	112
Cables	61	Earth bars, plates and pits	113
Connectors	62	W52 Lightning protection	
		Air terminals	116
		Earth tapes	116
		Test and junction clamps	119
		Solid rod conductors	120

Section	Page	Section	Page
Y41 Fans		Y61 HV / LV Cables and wiring	
Bathroom and toilet extract fans	122	-continued	
Kitchen extract fans	123	Standard power cables	
Kitchen canopies	125	Armoured cables	185
Ceiling sweep fans	125	Fire resistant armoured cables	189
Commercial extractor fans	126	Non-armoured power cables	191
Y53 Control components		Standard medium voltage power cables	193
Temperature detectors	129	Mineral insulated wiring and power cables	195
Air thermostats	130	Control and auxillary cables	198
Controllers	131	Instrumentation cables	
Y60 Conduit and trunking		Non-armoured cables	200
Metallic rigid conduit		Armoured cables	201
conduit	134	Paper insulated cables	202
fittings and boxes	135	Sundry cables	
Insulating materials rigid conduit		Festoon lighting	204
conduit	141	Bell wire	204
fittings and boxes	142	Airfield ground lighting cable	204
Metallic flexible conduit		Cable glands	
conduit	144	Metallic cable glands	207
metallic adaptors	145	Polymeric cable glands	209
Non-metallic flexible or pliable	146	Hazardous area cable glands	210
Steel surface trunking		Accessories	211
Standard surface trunking	148	Cable seals and glands - mineral insulated cables	
Lighting trunking	155	Terminations	213
Skirting trunking	156	Cable terminating and jointing sockets	216
Bench trunking	157	Cable joints and terminations	
Dado trunking	158	Cable jointing	
Steel underfloor trunking		600/1000 V	217
Underfloor trunking	159	11000 V	219
Junction and service outlets	161	Mineral insulated cable	221
Insulating materials surface trunking		Cable terminations	
Standard surface trunking	163	Heat shrinkable plastic	222
Skirting and dado trunking	165	11000 V	222
Architrave and bench trunking	166	Terminal blocks	223
Cornice trunking	167	Connections to equipment	223
Insulating materials underfloor trunking		Y62 Busbar trunking system	
Underfloor trunking	167	Lighting distribution	226
Junction and service outlets	168	Low power	227
Y61 HV / LV Cables and wiring		Medium power	228
Standard flexible cords and industrial cables		Y63 Support components - cables	
Flexible cords	171	Cable support systems	
Low smoke flexible cables	173	Steel cable tray	232
Non-armoured flexible cables	173	UPVC cable tray	236
Flexible industrial cables	174	Wire basket cable tray	238
Standard wiring cables		Cable ladder rack	240
Wiring cables	176	Cable cleats and hangers	243
Low smoke wiring cables	179	Cable guards	247
Fire resistant wiring cables	181	Catenary suspension	247
High temperature wiring cables	184		

Section	Page	Section	Page
Y71 LV switchgear and distribution boards		Y73 Luminares and lamps - <i>continued</i>	
Modular panelboards	250	Road and street lighting luminaires	319
Panelboards and pan assemblies	256	Floodlighting luminaires	
Moulded case circuit breakers	259	Tungsten luminaires	321
Switches, disconnectors and fuse combination units		Compact luminaires	322
Switch disconnectors	265	LED luminaires	322
Fireman's emergency switch disconnectors	268	Discharge luminaires	323
Change-over switches	269	Hazardous area luminaires	
Fuse-switches	270	Fluorescent luminaires	325
Switch-fuses	272	LED luminaries	328
Electricity meters	273	Discharge luminaires	328
Fuses, fuselinks and fuse units		Lampholders	329
Domestic fuses	274	Control gear and components	
Cartridge fuse links	274	Fluorescent lamp	331
Fuse carriers and bases	277	Compact fluorescent lamp	332
Fuse units	278	Discharge lamp	333
Fused cut-outs	279	Lamps	
Busbar chambers	281	LED lamps	336
Distribution boards	282	Fluorescent lamps	337
Consumer units	287	Compact fluorescent lamps	340
Miniature circuit breakers	289	Tungsten halogen lamps	341
Residual current devices	289	Metal halide lamps	343
Enclosures for MCBs and RCDs	291	High pressure sodium vapour	344
Y72 Miscellaneous enclosures	292	Low pressure sodium vapour	345
		Lamps for special purposes	346
Contactors and starters		Transformers for LV Luminares	346
Contactors	294	Lighting columns	348
Control circuit devices	295	Y74 Photocells	351
Push-button controls	296		
Y73 Motor starters	297	Accessories for electrical services	
		Interior lighting switches	
Luminares and lamps		General purpose switches	354
Fluorescent luminaires		Grid switches	357
Batten luminaires	300	Pull cord switches	359
Surface luminaires	302	Door switch	359
Recessed luminaires	304	Sparkless switch	360
Suspension sets	305	Exterior lighting switches	360
General lighting luminaires		Timeswitches	361
General purpose luminaires	306	Fuse connection units	362
Domestic luminaires	307	Socket outlets	
Decorative luminaires	308	13 A socket outlets	363
Downlighters	309	Industrial socket outlets	364
Striplight luminaires	310	Cooker control units	370
Bed light luminaires	311	Cord outlets	371
Task lighting	311	Low voltage isolating transformers	372
LED batten luminaires	311	Bell equipment	373
Amenity, precinct and security	312	Shaver points	374
Industrial lighting	315	Junction boxes	374
Display lighting	317	Accessory boxes	375
Track mounted luminaires	318		

Section	Page	Section	Page
Y81 Testing and commissioning of electrical services		Y89 Sundry common electrical items	
Testing		Hand dryers	387
Earth electrode resistance testing	379	Insect killers	388
Continuity testing	379	Clocks	389
Insulation resistance testing	380	Aviation ground lighting	
Earth loop impedance testing	380	Luminaires	392
Polarity testing	381	Posts, poles and masts	394
Prospective short current testing	381	Indicators and signs	395
Fault simulation testing	381	Transformers	395
Inspecting and checking		Control equipment	396
Equipment	382	Joints	397
Earthing and lightning protection installations	382	Builders work	
Fire alarm installations	382	Excavation	399
Public address installations	383	Concrete	401
Sundries	383	Markers and covers	402
Work in hazardous areas	383	Cable ducts and troughs	403
Y82 Identification - electrical		Metalwork	405
Labels and notices	385	Painting	407
Identification of services	386	Identification of services	408
		Cutting away and making good	409
		Removing and refixing	412
		Appendix 1	
		Enclosures - IP ratings	413
		Index	415

General Directions

GENERALLY

Format

Apart from this General Directions Section this document is structured in accordance with the "Common Arrangement of Work Sections For Building Works" (Second Edition) published in 1998 by the Construction Project Information Committee as part of the initiative towards Co-ordinated Project Information.

Preambles

Preambles which apply to all Sections are contained in this General Directions Section.

Preambles which apply only to specific Sections and Sub-Sections are contained within the particular Section.

Rate Categories

There are five rate categories:

- Rate A: Supplying materials.
- Rate B: Installing.
- Rate C: Supplying and installing.
- Rate D: Dismantling and removing for scrap.
- Rate E: Dismantling and removing for re-use.

Rates A, B and C are as published.

Rates D and E are derived by applying the appropriate multiplying factor to the principal items being dismantled as stated in the particular Section preambles - ancillary and related items not dismantled from such principal items are deemed to be included.

Tender Documents

The Conditions of Contract and all other tender documents shall be read in conjunction with this Schedule.

Codes and Standards

Comply with all Codes and Standards current at the time of execution of the Works (those current at the time of publication are stated in the text).

Comply with any EC Directive on Waste Electrical and Electronic Equipment (WEEE) and EC Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

PRELIMINARIES

All Inclusive Rates

The Rates in this Schedule are all inclusive and, as such, include for Preliminaries.

Value of Old Items

Unless specifically agreed otherwise, all items removed for scrap will become the sole property of the Contractor.

GENERAL DIRECTIONS

PRELIMINARIES - *continued*

Significant Preliminary Items

When assessing any adjustment to be tendered to the level of the Rates, consideration must be given to any unique preliminary items which could be encountered. The following list gives examples only and does not limit the actual requirements encountered:

- Establishment charges, overheads and profit.
- Nature and location of the Works.
- Liabilities and insurances.
- Access to the Works.
- Existing services.
- Plant, tools, vehicles and transport.
- Site organisation, security, health and safety.
- Water, lighting and power.
- Temporary works: e.g. hardstandings, accommodation, storage, telephones, fencing, footways and gantries.
- Statutory obligations.

Agreed Rates for Materials

Where the Contractor is directed to supply materials for which a Rate A is not shown or a Rate cannot be deduced therefrom in accordance with the Conditions of Contract, reimbursement of the cost of materials, unless the Conditions of Contract state otherwise, will be made on the basis of agreed current

market or invoice rates for supply, delivered to site or store (after the deduction of all discounts obtainable for cash, insofar as they exceed 2½ per cent, and all trade discounts, rebates and allowances) with the addition of 5 per cent to cover profit and all other liabilities. Such reimbursement shall not be subject to further adjustment.

Sub-Contractors and Suppliers

In the case of work ordered to be placed with a Sub-Contractor or Supplier, the Contractor, unless the Conditions of Contract state otherwise, will be reimbursed the net agreed amount of their account (after the deduction of all discounts obtainable for cash, insofar as they exceed 2½ per cent, and of all trade discounts, rebates and allowances) with the addition of 5 per cent to cover profit and all other liabilities. Such reimbursement shall not be subject to further adjustment.

Asbestos Removal

Observe all statutory requirements and Health and Safety Executive guidance. A Licensed Contractor must be appointed for removal of asbestos-based products.

METHOD OF MEASUREMENT

Measurement Rules

This Schedule stands alone. Where not self-evident from the Item descriptions, the rules of measurement are stated.

Measurement and Billing

Measure work net as fixed in position unless otherwise stated.

Take dimensions used in calculating quantities to the nearest 10 mm.

Bill all quantities to the nearest two decimal places of the billing unit for each particular item.

GENERAL DIRECTIONS

METHOD OF MEASUREMENT - *continued*

Nominal Sizes

All sizes are nominal unless otherwise stated.

Cable sizes

The cable size given is the nominal cross-sectional area of each conductor of the cable, except where otherwise stated.

Size Ranges

Size ratings and the like expressed as "..... to" are to be read as "exceeding but not exceeding", except where the grouping does not run sequentially, when it is to be read as "from to inclusive".

RATES

Base Date

The Rates in this Schedule reflect the costs of resources as at the fourth quarter 2015.

Multiplying Factors

Where two or more multiplying factors are to be applied to a rate, the factors are first to be multiplied together and not added.

Rate Categories

For a description of Rate Categories A to E see "GENERALLY".

Minimum Rates

Where work is ordered by stating a performance specification and any one of a range of items is suitable, in the absence of any written evidence to the contrary, the rates applied will be the lowest in the range notwithstanding that which has actually been incorporated.

Rates throughout exclude (except where otherwise stated)

Mechanical work:

Connections of water, steam or any other mechanical services installation.

Drawings:

Preparing drawings.

Rates throughout include (except where otherwise stated)

All Rates:

For preliminaries, labour, waste and lost time.

For carrying out work in any circumstances unless otherwise stated. It is assumed that work carried out in disadvantageous circumstances (e.g. work in occupied buildings, alterations or extensions to existing installations, etc.) will be offset by work carried out in advantageous circumstances.

For carrying out work at any height.

GENERAL DIRECTIONS

RATES - *continued*

Rates throughout include (except where otherwise stated) - *continued*

For providing scaffolding or working platforms not exceeding 4 metres from a 'firm base'.

For carrying out work exceeding 4 metres from a 'firm base', the B and C Rates will be multiplied by the following factors, the Rate A being unaffected.

4 to 7 metres - *multiply by 1.25*

7 to 10 metres - *multiply by 1.45*

exceeding 10 metres - *multiply by 1.75*

(A "firm base" is the first fixed level encountered internally or externally directly beneath the work and includes ground level, floor level, fixed gantries, etc. and any standing scaffolding platform provided by others).

The Rates so computed take account of all extra costs associated with working at height including degree of difficulty, means of access, and provision of necessary platforms, ladders, scaffolding, etc.

For protecting the works from damage.

Rate A:

For supplying, delivering, unloading, getting into store or other approved position, items including materials (except materials included under Rate B, e.g. jointing and fixing materials), component parts, equipment, associated installation and servicing tools, templates and handbooks.

For works testing and certifying.

For providing certificates of compliance.

Rate B:

For preparing items for installation, disposing of packaging or the like.

For any necessary storage.

For moving items to position of installation and returning defective items to manufacturer and surplus items to store.

For gaining access to installation position including lifting and replacing removable duct, conduit or trunking components, duct covers and the like.

For installing items in any location or position and fixing to any background by whatever means are necessary including any assembling and dismantling required for the purposes of installation.

For assembling, cutting, jointing and connecting.

For supplying fixing materials, including fixing clips or the like for which rates are not shown separately.

For supplying heat and jointing and connecting materials.

For temporarily fixing in position and taking down as many times as necessary prior to permanent installation.

For notching or boring timbers or wall board deemed necessary for fixing.

For installing new or old items previously set aside for re-use.

For preparing old work to receive new.

For marking out and/or indicating any other building work required.

For isolating and re-connecting whole or parts of existing systems as appropriate including ensuring that existing installations (where affected but not isolated) continue to function during the execution of the works.

For making good and leaving suitable for permanent reinstatement and/or decoration.

GENERAL DIRECTIONS

RATES - *continued*

Rates throughout include (except where otherwise stated) - *continued*

For carefully examining the installation to verify that all materials comply with the ordered requirements, inspection and testing of work installed and for adjusting and setting to work. (For definitions of terms and items deemed to be included, see section Y81 Testing and Commissioning).

For removing and disposing of rubbish and debris and leaving clean on completion.

Rate C:

For everything included under both Rate A and Rate B.

Rates D and E:

For carefully taking out including all cutting, disconnecting, unscrewing, unbolting and dismantling.

For providing all necessary heat.

For dismantling as directed in excess of that necessary for scrap (Rate E).

For carefully taking out all fixings from the item removed and from the background.

For isolating and re-connecting whole or parts of existing systems as appropriate including ensuring that existing installations (where affected but not isolated) continue to function during the execution of the works.

For getting out items to be scrapped (Rate D) and removing and disposing of in a designated or authorised place.

For removing to store items to be re-used (Rate E).

For cleaning and preparing items for re-use (Rate E).

For gaining access to existing installations including lifting and replacing removable duct, conduit or trunking components, duct covers and the like.

For making good and leaving suitable for permanent reinstatement and/or decoration.

For removing and disposing of rubbish and debris and leaving clean on completion.

DEFINITIONS

Project Manager (PM)

The person appointed by the Employer to act on his behalf.

Approved or Ordered

Approved or ordered by the PM.

Or equivalent

Alternative articles and materials to those described approved in writing.

Store

A permanent or temporary structure providing security and weather protection for storage purposes within or in close proximity to the site.

GENERAL DIRECTIONS

DEFINITIONS - *continued*

Certificate of compliance

Test Certificate from the manufacturer confirming that the product performance complies with the required specification and standards.

Concealed

Work that cannot be seen after finishes are complete (e.g. in false ceilings or ducts, embedded or the like).

Exposed

Work that can be seen after finishes are complete.

IP Code

Degree of protection provided by enclosures to BS EN 60529 (see Appendix 1).

ABBREVIATIONS

A	Ampere	LAN	Local Area Network
ABS	Acrylonitrile Butadiene Styrene	LCD	Liquid Crystal Display
AC	Alternating Current	LED	Light Emitting Diode
AH	Ampere Hour	LSF	Low Smoke and Fume
BC	Bayonet Cap	LV	Low Voltage
BNC	Bayonet 'N' Type Connector	m	Metre
BS	British Standard	m ³ /s	Cubic Metres per Second
BS EN	European Standard adopted as British Standard	mA	Milli Ampere
°C	Degrees Centigrade	MBFR	Mercury Vapour Fluorescent Reflector
CFL	Compact Fluorescent Lamp	MBF/U	Mercury Vapour Fluorescent Universal
CNE	Combined Neutral and Earth	MBIF	Mercury Vapour Metal Halide
dB	Decibel	MBTF	Mercury Vapour Tungsten Fluorescent
DC	Direct Current	MCB	Miniature Circuit Breaker
ELV	Extra Low Voltage	MCCB	Moulded Case Circuit Breaker
EPR	Ethylene Propylene Rubber	MICC	Mineral Insulated Copper Cable
ES	Edison Screw	mm	Millimetre
GES	Goliath Edison Screw	mm ²	Square Millimetre
GLS	General Lighting Service	PEN	Combined Protective and Neutral Conductor
GRP	Glass Reinforced Plastic	PIR	Passive Infra Red
HOFR	Heat and Oil Resistant Flame Retardent	PL	Linear Compact Single Ended Fluorescent Lamp
HRC	High Rupture Capacity	PLC	PL Cluster
HV	High Voltage	PM	Project Manager
Hz	Herz (cycles per second)	PVC	Polyvinylchloride
ICEL	Industry Committee for Emergency Lighting	RCCD	Residual Current Operating Circuit Device
IP	Ingress Protection	RCD	Residual Current Device
kA	Kilo Amperes	SBC	Small Bayonet Cap
kg	Kilogramme	SES	Small Edison Screw
kV	Kilovolt	SON	High Pressure Sodium
kVA	Kilovolt Amperes	SOX	Low Pressure Sodium
kW	Kilowatt	V	Volts
		W	Watts

V10 Electricity generation

GENERALLY

Scope

An installation containing a prime mover for the production of electrical energy.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rate D: for scrap including disposal - *multiply by 0.25.*

Rate E: for re-use - *multiply by 0.70.*

Method of Measurement

Measure the following separately:

- i. Conduit connections between equipment.
- ii. Terminations and glands for cables.
- iii. Connecting cable ends and tails into existing equipment.

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables, conduit or trunking.
- iii. Bonding links from cable armouring / sheath and / or conduit / trunking to equipment earth terminals.

Rates for the following include

Generally:

For unloading and placing in position.

For supplying (Rate A) with galvanised or zinc sprayed finish.

For site insulation tests (Rate B) on factory built assemblies.

For connecting (Rate B) all cable ends and tails.

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC MODULES AND PANELS

GENERALLY

Specification

Standard:
Comply with:
BS EN 61215: Crystalline silicon terrestrial photovoltaic (PV) modules. Design qualification and type approval.
BS EN 61194: Characteristic parameters of stand-alone photovoltaic (PV) systems.
BS EN 61727: Photovoltaic (PV) systems.
Characteristics of the utility interface.

Testing:

Carry out acceptance and performance test in accordance with BS EN 61194.

Installation:

Comply with the manufacturer's installation instructions.

Rates for the following include

Generally:

For supplying components (Rate A) for and jointing to (Rate B) equipment.

PHOTOVOLTAIC MODULES

Item			Rate A	Rate B
			1	2
V10	Each		£	£
	Photovoltaic module: crystalline silicon: mounted front or back through grommet-finished holes: output termination box			
	<i>Surface Area</i>	<i>Peak Output</i>		
001	not exceeding 0.10 m ²	not exceeding 5 W	35.36	15.19
002	0.10 to 0.15 m ²	5 to 10 W	66.73	18.22
003	0.15 to 0.225 m ²	10 to 20 W	93.56	21.26
004	0.225 to 0.30 m ²	20 to 30 W	114.39	24.30

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC MODULES - *continued*

Item			Rate A	Rate B
			1	2
V10	Each		£	£
Photovoltaic module: crystalline silicon: heavy-duty universal frame: junction box accepting cable or conduit: field-selectable dual voltage output: 6 V or 12 V				
	<i>Surface Area</i>	<i>Peak Output</i>		
005	not exceeding 0.10 m ²	not exceeding 5 W	33.48	30.37
006	0.10 to 0.15 m ²	5 to 10 W	50.10	33.41
007	0.15 to 0.225 m ²	10 to 20 W	83.34	36.45
008	0.225 to 0.30 m ²	20 to 30 W	100.37	39.48
009	0.30 to 0.40 m ²	30 to 40 W	117.40	42.52
010	0.40 to 0.50 m ²	40 to 50 W	159.84	45.56
011	0.50 to 0.75 m ²	50 to 75 W	179.38	48.59
012	0.75 to 1.00 m ²	75 to 100 W	198.93	51.63
013	1.00 to 1.25 m ²	100 to 125 W	217.10	54.67
014	1.25 to 1.50 m ²	125 to 150 W	233.66	57.71
015	1.25 to 1.50 m ²	150 to 175 W	250.21	60.74
016	1.50 to 2.00 m ²	250 to 275 W	311.19	63.78
Photovoltaic semi-flexible panel: steel reinforced edge protection: connecting cable: screwed or fixed with adhesive				
	<i>Surface Area</i>	<i>Peak Output</i>		
017	not exceeding 0.15 m ²	not exceeding 10 W	88.35	30.37
018	0.15 to 0.20 m ²	10 to 15 W	96.55	33.41
019	0.15 to 0.225 m ²	15 to 20 W	144.93	36.45
020	0.225 to 0.30 m ²	20 to 30 W	223.90	39.48
021	0.30 to 0.40 m ²	30 to 40 W	293.70	42.52
022	0.40 to 0.50 m ²	40 to 60 W	379.69	45.56
Photovoltaic flexible panel: connecting cable: screwed or fixed with adhesive				
	<i>Surface Area</i>	<i>Peak Output</i>		
023	not exceeding 0.15 m ²	not exceeding 5 W	69.73	33.41
024	0.15 to 0.30 m ²	5 to 15 W	98.23	39.48
025	0.30 to 0.60 m ²	15 to 35 W	216.10	48.59
026	Photovoltaic modular roof tile: crystalline silicon: peak output 36 W: vertical cover strips screwed to battens integral plug-in wiring system		200.45	60.74

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC CONTROLLERS

Item		Rate A			Rate B
		1	2	3	4
			including LCD display	including Lighting Control	Any Type
V10	Each	£	£	£	£
Photovoltaic charge controller:					
027	LED indication battery voltage: 12 or 24 V 6A charge 6A load	27.56	-	62.08	15.19
028	automatic low voltage disconnection: LED indication 8A charge 8A load	34.80	47.02	-	18.22
029	battery voltage and system status: 12 or 24 V 10A charge 10A load	56.71	92.45	-	21.26
030	12A charge 12A load	54.73	100.05	-	24.30
031	combination charge, load and lighting control: automatic low voltage disconnection: LED indication battery voltage and system status: 12 or 24 V 12A charge 12A load	-	-	124.89	27.33
032	automatic low voltage disconnection: manual load switch automatically resettable electronic fuse protection: LED indication battery voltage and system status: 12 or 24 V 15A charge 15A load	76.69	110.01	-	30.37
033	20A charge 20A load	84.36	128.74	-	36.45
034	30A charge 30A load	110.51	152.14	-	42.52
035	combination charge and diversion load control to dump load: LED indication battery voltage and system status, electronic protection against short-circuit, overload, over- temperature, and reverse polarity conditions: 12 or 24 V 35A charge 35A load	147.40	232.04	-	45.56
036	45A charge 45A load	152.14	286.02	-	51.63
037	60A charge 60A load	-	201.93	-	57.71
Photovoltaic programmable system controller:					
038	digital metering of voltage, current and status parameters LED indication battery voltage, system status, disconnection pre-warning 30A charge 30A load: 48V	-	316.33	-	60.74
039	maximum power point tracking: automatic low voltage disconnection: automatic equalisation: data logging facility: LCD digital display for programming and monitoring 60A charge 60A load: 12 to 60 V	-	543.55	-	75.93

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC CONTROLLERS - *continued*

Item		Rate A	Rate B
		1	2
V10	<i>Each</i>	£	£
040	Battery temperature sensor	26.27	9.11
	Digital meter: displaying volts, amps and resettable cumulative amp hours for a solar array, DC loads, or diversion loads		
041	mounted on charge controller	91.28	15.19
042	remote installation; 10.00 m communication cable	113.41	30.37

PHOTOVOLTAIC SUPPORT STRUCTURES

Specification

PV modules to be mounted onto a simple support structure and angled so that they are south-facing at an appropriate angle to the sun.

Rate A	Rate B
1	2
£	£

Each

Support bracket: single small module: pole, floor or wall mounting:
tilt angles 10 or 80°:

	<i>Surface Area</i>	<i>Peak Output</i>		
	semi-flexible module			
043	not exceeding 0.15 m ²	not exceeding 10 W	37.39	7.59
	framed module			
044	not exceeding 0.15 m ²	not exceeding 10 W	44.43	9.11
045	0.15 to 0.20 m ²	10 to 15 W	48.38	10.63
046	0.20 to 0.25 m ²	15 to 20 W	70.67	12.15

Single module mounting: roof or wall: hinged pair aluminium frames:
tilt angles 10 to 75°

	<i>Surface Area</i>	<i>Peak Output</i>		
047	0.40 to 0.50 m ²	not exceeding 50 W	44.98	10.02
048	0.50 to 1.00 m ²	50 to 100 W	59.97	10.02

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC SUPPORT STRUCTURES - *continued*

			Rate A	Rate B
Item			1	2
V10	Each		£	£
Flat roof mounting: polyethylene: integrated cable ducts and cooling slots				
	Surface Area	Peak Output		
049	0.40 to 0.50 m²	not exceeding 50 W	41.26	10.63
050	0.50 to 1.50 m²	50 to 175 W	93.55	15.19
Pole mounting: galvanised steel: clamps				
051	for 1 module		92.46	15.19
052	for 2 modules		135.95	22.78
053	for 3 modules		169.93	30.37
			Rate A	Rate B
			1	2
	Each		£	£
Ground mounting:				
low level: 50 mm galvanised tube frame: tilting 10 to 60°:				
bottom edge of modules raised 500 to 700 mm: including				
module fastners: module size not exceeding 2.00m²: for				
054	2 modules		268.17	48.59
055	3 modules		402.25	51.63
056	4 modules		433.19	54.67
057	5 modules		464.13	57.71
058	6 modules		492.03	60.74
059	7 modules		507.25	63.78
060	8 modules		522.47	66.82
high level: galvanised steel frame: tilting 10 to 80°: bottom				
edge of modules raised 400 to 1250 mm: including module				
fastners: module size not exceeding 2.00m²: for				
061	2 modules		478.57	83.52
062	4 modules		660.10	91.11
063	6 modules		711.67	98.71
064	16 modules (South UK)		943.00	136.67
065	16 modules (North UK)		1049.09	151.86

V10 ELECTRICITY GENERATION

PHOTOVOLTAIC SUPPORT STRUCTURES - *continued*

Item		Rate A	Rate B
		1	2
		£	£
V10	<i>Each</i>		
	Solar tracking support: single axis: anodised aluminium framing: mounting hardware: control electronics: drive units: pole mounting (pole measured separately): array:		
066	not exceeding 1.00 m ²	386.17	167.04
067	1.00 to 3.00 m ²	837.02	227.79
068	3.00 to 10.00 m ²	1299.56	440.39
069	10.00 to 16.00 m ²	3054.01	622.62
070	16.00 to 25.00 m ²	3803.53	895.96

		Rate A	Rate B
		1	2
		£	£
	<i>Metre</i>		
	Roof mounting support system: aluminium framework: fixed to roof structure with steel roof hooks: profiles fastened with mounting screws		
071	horizontal profile: including profile links	24.22	10.02
072	vertical profile	19.36	7.59
073	profile screen facing	6.64	3.04
074	distance bridging profile	1.85	2.28
	<i>Each</i>		
	profile end cap		
075	horizontal	2.46	6.07
076	vertical	3.55	6.07

V10 ELECTRICITY GENERATION

WIND TURBINE GENERATORS

GENERALLY

Specification

Standard:

Comply with BS EN 61400: Wind turbine generator systems.

Installation:

Install equipment in accordance with manufacturer's recommendations.

Locate regulators within 1.50 m of batteries to minimise voltage losses and ensure accuracy of battery regulation.

Notes

Concrete bases and tower anchors measured separately.

WIND MONITORING

Item		Rate A	Rate B
		1	2
V10	Each	£	£
Wind monitoring equipment:			
077	calibrated anemometer: sensor type 3-cup: sensor range 1 m/s to 96 m/s: compatible with data loggers	259.08	45.56
078	calibrated anemometer: sensor type 3-cup: sensor range 1 m/s to 96 m/s: Hall Effect version: compatible with data loggers	352.89	51.63
079	wind direction sensor for wind data loggers: corrosion-resistant 360° mechanical continuous rotation: sensitivity 1 m/s	192.08	75.93
	offset boom for mounting standard sensors: any vertical mast up to 203 mm diameter: stub clamps to tower or boom with hose clamps		
080	355 mm: straight	18.77	15.19
081	330 mm: "Z"	22.34	18.22
Speed cables			
082	10m: 2c	32.16	18.22
083	20m: 2c	51.82	25.82
084	40m: 2c	91.13	34.93
085	80m: 2c	140.39	56.19
Direction cables			
086	10m: 3c	32.16	18.22
087	20m: 3c	51.82	25.82
088	40m: 3c	91.13	34.93
089	80m: 3c	151.88	56.19

V10 ELECTRICITY GENERATION

WIND MONITORING - *continued*

Item		Rate A	Rate B
		1	2
V10	<i>Each</i>	£	£
Wind monitoring equipment - <i>continued</i>			
090	15 channel internet enabled micropower wind energy data logger: 6 counter anemometer channels, 2 analogue wind direction channels: 3 flex channels and 4 analogue channels: alkaline cells power supply: nominal voltage 1.5 volts: minimum voltage 0.9 volts; battery life one year: weatherproof polycarbonate enclosure	1514.29	197.41
091	ADD for internet enabled data transfer communication device	1331.15	75.93
092	ADD for steel vandal-proof shelter box	125.08	21.26
093	ADD for temperature sensor with shield	183.14	15.19
094	ADD for relative humidity sensor	326.09	15.19

WIND TURBINE GENERATORS

Item		Rate A	Rate B
		1	2
V10	<i>Each</i>	£	£
Wind turbine generator:			
095	fine profile maximum efficiency aerofoil blades: 29 W at 11 m/s: maximum output 60 W: cut in wind speed 3 m/s: stainless steel fasteners and marine grade materials: rotor diameter 510mm: turning radius 304mm: 12 V DC	350.63	151.86
096	ADD for voltage regulator to prevent battery overcharge	49.07	15.19
097	ADD for controller and voltage regulator: including ammeter, LED voltage level indicator, charge fuse and terminals: marine mounting kit	77.11	18.22
098	ADD for mounting kit: aluminium mast 2 m high: deck plates: guy brackets: guy ropes: back stay brace: hinged pushfit clamps . .	224.85	30.37
099	ADD for tower kit: 35 diameter stainless steel tubes: 4 m high: ground fixing spike: guy brackets: guy ropes: shackles: ground anchors . .	225.85	75.93
100	fine profile maximum efficiency aerofoil blades: automatic thermostat protection in prolonged high winds: 140 W at 11 m/s: maximum output 260 W: cut in wind speed 3.1 m/s: stainless steel fasteners and marine grade materials: rotor diameter 910mm: 12 or 24 V DC:	667.92	197.41
101	ADD for voltage regulator to prevent battery overcharge	77.11	19.74
102	ADD for controller and voltage regulator: including ammeter, LED voltage level indicator, charge fuse and terminals: marine mounting kit	153.19	23.69

V10 ELECTRICITY GENERATION

WIND TURBINE GENERATORS - *continued*

Item		Rate A	Rate B
		1	2
V10	<i>Each</i>	£	£
	Wind turbine generator - <i>continued</i>		
	fine profile maximum efficiency aerofoil blades: automatic thermostat protection in prolonged high winds: 140 W at 11 m/s: maximum output 260 W: low windspeed cut in 3.1 m/s: stainless steel fasteners and marine grade materials: rotor diameter 910mm: 12 or 24 V DC - <i>continued</i>		
103	ADD for mounting kit: stainless steel mast 2.4 m high: deck plates: guy brackets: back stay brace: stainless steel guy wires: shackles	250.38	39.48
104	ADD for tower kit: 48mm diameter galvanised steel tubes: 6.4 m high: base plates: guy brackets: steel guy wires: shackles . .	341.27	121.49
105	fine profile maximum efficiency aerofoil blades: furling tail and automatic thermostat protection in prolonged high winds: 95 W at 11m/s: maximum output 160 W: low windspeed cut in 2.6 m/s: steel components galvanised and epoxy coated: stainless steel fastners and marine grade materials: rotor diameter 910mm: 12 or 24 V DC:	667.90	227.79
106	ADD for controller and voltage regulator: including ammeter, LED voltage level indicator, charge fuse and terminals: marine mounting kit	77.11	23.69
107	ADD for tower kit: 48 mm diameter galvanised steel tubes: 6.4 m high: base plates: guy brackets: steel guy wires: shackles . .	341.27	121.49
108	downwind turbine: automatic shutdown system: 300 W at 10 m/s: maximum output 750 W: cut in wind speed protection: cut in wind speed 3.0 m/s: aluminium, stainless steel and plastic components: marine grade materials: rotor diameter 1540 mm: 12, 24 or 48V DC	978.36	455.57
109	ADD for controller and voltage regulator: including ammeter, LED voltage level indicator, charge fuse and terminals: marine mounting kit	152.09	30.37
110	ADD for 1000W dump load	147.34	30.37
111	ADD for Run/Stop switch	53.03	30.37
112	ADD for guyed tower: hinged based plate; column sections: guy wires: rope tensioner: ground anchors: 9.00m high	825.11	258.16

V10 ELECTRICITY GENERATION

WIND TURBINE GENERATORS - *continued*

Item		Rate A	Rate B
		1	2
V10	Each	£	£
	Wind turbine generator - <i>continued</i>		
	heavy duty: downwind self regulating rotor: rotor speed controlled by blade twist in response to high r.p.m: galvanised steel, stainless steel and plastic components: marine grade materials:		
113	0.60 kW at 12 m/s: cut in wind speed 2.5 m/s: rotor diameter 2550 mm	3783.69	683.36
114	ADD for tubular tower: 5.50 m high: base plate: column sections: gin pole: (anchors measured separately)	2369.55	303.72
	ADD for guyed tower: galvanised steel sections: gin pole: base plates: guy brackets: steel guy wires: shackles		
115	6.50 m high	1046.48	197.41
116	13.00 m high	2361.54	288.53
117	ADD for tower top adaptor: to existing or custom towers	287.08	45.56
	ADD for charge controller with high voltage control: including MCB isolator: without meters		
118	12V	541.23	75.93
119	24 or 48V	497.35	75.93
120	ADD for analogue volt and ammeter	241.36	30.37
121	ADD for controller suitable for telecoms applications: including meters, adjustable LV relay and system status LEDs: IP65	731.40	91.11
122	2.5 kW at 12 m/s: cut in wind speed 2.5 m/s: rotor diameter 3500 mm: ADD for tubular tower: base plate: column sections: gin pole: (anchors measured separately)	7495.60	911.15
123	6.50 m high	3684.70	197.41
124	11.00 m high	5621.39	273.34
125	ADD for guyed tower: 15.00 m high: galvanised steel sections: gin pole: base plates: guy brackets: steel guy wires: shackles	4260.03	379.64
126	ADD for tower top adaptor: to existing or custom towers	287.08	45.56
	ADD for controller		
	battery charging: 24 or 48 V DC: meters: system status indicators:		
127	2 DC and 3 AC divert load connections: DC or DC/AC	1499.37	227.79
128	3 AC divert load connections: AC	1311.95	227.79
129	direct heating: 120 or 240V heating controller: meters	962.10	151.86
	grid connect: isolation and rectification: internal or external mount		
130	without meters	414.30	121.49
131	with volt and ammeters for performance monitoring	562.26	136.67

V10 ELECTRICITY GENERATION

WIND TURBINE GENERATORS - *continued*

Item		Rate A	Rate B
		1	2
V10	<i>Each</i>	£	£
	Wind turbine generator - <i>continued</i>		
	Wind turbine generator: heavy duty: downwind self regulating rotor: rotor speed controlled by blade twist in response to high r.p.m: galvanised steel, stainless steel and plastic components: marine grade materials - <i>continued</i>		
132	6.0 kW at 12 m/s: cut in wind speed 2.5 m/s: rotor diameter 5600 mm: 48 V DC	12493.50	1366.72
	ADD for tubular tower: base plate: column sections: gin pole: (anchors measured separately)		
133	9.00 m high	4746.76	303.72
134	15.00 m high	8120.34	364.46
135	ADD for tower top adaptor: to existing or custom towers	460.88	75.93
	ADD for controller		
	battery charging: 48 V DC: meters: system status indicators:		
136	2 DC and 3 AC divert load connections: DC or DC/AC	1936.69	258.16
137	3 AC divert load connections: AC	1686.79	258.16
	direct heating: 120 or 240V heating controller: meters		
138	120V	1268.22	182.23
139	240V	1168.26	182.23
	grid connect: isolation and rectification: internal or external mount		
140	without meters	534.52	151.86
141	with volt and ammeters for performance monitoring	680.96	167.04
142	15.0 kW at 12 m/s: cut in wind speed 2.5 m/s: rotor diameter 9000 mm: 48 V DC	26237.73	1822.29
	ADD for tubular tower: base plate: column sections: gin pole: (anchors measured separately)		
143	15.00 m high	13742.98	455.57
144	25.00 m high	20615.09	607.43
	ADD for controller		
145	battery charging: 48 V DC: meters: system status indicators	6559.74	303.72
	direct heating: 120 or 240V heating controller: meters		
146	120V	1686.79	212.60
147	240V	1561.84	212.60
	grid connect: isolation and rectification: internal or external mount		
148	with volt and ammeters for performance monitoring	862.14	197.41

V11 HV Supply / distribution / public utility

GENERALLY

Scope

The distribution of high voltage electricity from the supply authority's main to the on-site transformer sub-station.

Specification

Standard:

Comply with:

HV Switchgear:

BS 159: Specification for high-voltage busbars and busbar connections.

BS EN 62271-100: High-voltage switchgear and controlgear. High-voltage alternating-current circuit-breakers.

BS EN 60265-1: Specification for high-voltage switches. Switches for rated voltages above 1 kV and less than 52 kV.

BS EN 60694: Common specifications for high-voltage switchgear and controlgear standards.

Transformers:

BS EN 60076: Power transformers.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rate D: for scrap including disposal - *multiply by 0.25.*

Rate E: for re-use - *multiply by 0.70.*

Method of Measurement

Measure the following separately:

- i. Conduit connections between equipment.
- ii. Terminations and glands for cables.
- iii. Connecting cable ends and tails into existing equipment.

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables, conduit or trunking.
- iii. Bonding links from cable armouring / sheath and / or conduit / trunking to equipment earth terminals.

Rates for the following include

Generally:

For unloading and placing in position.

For supplying (Rate A) with galvanised or zinc sprayed finish.

For site insulation tests (Rate B) on factory built assemblies.

For connecting (Rate B) all cable ends and tails.

For topping up (Rate B) with oil provided.

V11 HV SUPPLY / DISTRIBUTION / PUBLIC UTILITY SUPPLY

SWITCHGEAR

Item		Rate A	Rate B
		1	2
V11	Each	£	£
	11 kV Ring main unit and switchgear: IDMT relay: triple pole overground indoor/outdoor extensible and non-extensible free standing type:		
001	designation L: switch: 630 A single unit extensible: busbar chamber end cap: busbar cable box	4860.00	288.53
002	designation V: circuit breaker: 200 A single unit extensible: busbar chamber end cap: busbar cable box	9090.00	318.90
003	designation LV: switch: 630 A extensible: circuit breaker: 125 A single unit extensible: two busbar chamber end caps: busbar extension adaptor	14660.00	403.94
004	designation 2LV: ring main non-extensible: two switches: 630 A and 125 A circuit breaker: in a single enclosure	8620.00	406.98
005	designation 2LV: ring main unit extensible: two switches: 630 A and 200 A circuit breaker: in single enclosure: two busbar chamber end caps.	10030.00	406.98
	ADD for:		
006	remote operated trip: factory fitted	212.18	15.19
007	earth fault passage indicator: split core current transformer: flag indicator unit	400.78	15.19

V11 HV SUPPLY / DISTRIBUTION / PUBLIC UTILITY SUPPLY

TRANSFORMERS

Item		Rate A		Rate B	
		1		2	
		£		£	
V11	Each				
	Transformer: 11000/433 V: 3-phase: 50 Hz: Star/Delta: oil filled: naturally air cooled bottom entry cable boxes: indoor/outdoor: erected on base:				
008	315 kVA	9420.00		242.97	
009	500 kVA	12160.00		273.34	
010	800 kVA	14850.00		303.72	
011	1000 kVA	16280.00		334.09	

PACKAGED SUB-STATIONS (FACTORY ASSEMBLED)

Method of Measurement

Measure fuse links separately

		Rate A	Rate B
		1	2
Each		£	£
Packaged sub-station: 11 kV ring main unit: IDMT relay: two switches: circuit breaker: transformer: 11000/433 V: 3-phase: 50 Hz: Star/Delta: oil filled: naturally air cooled: LV feeder cubicle: ring main unit and LV feeder cubicle directly mounted on opposite sides of transformer tank:			
012	315 kVA transformer: four 400 A outgoing ways	21280.00	607.43
013	500 kVA transformer: four 400 A outgoing ways	24020.00	683.36
014	800 kVA transformer: four 600 A outgoing ways	29100.00	759.29
015	1000 kVA transformer: four 600 A outgoing ways	30520.00	911.15

V12: LV Supply / public utility supply

GENERALLY

Scope

The distribution of low voltage electricity from the supply intake to the building main switchgear panel.

Specification

Standard:

Comply with the requirements of BS EN 60439-5: Low-voltage switchgear and control gear assemblies. Particular requirements for assemblies for power distribution in public networks.

Installation:

Install fuse pillars in accordance with manufacturer's recommendations.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rate D: for scrap including disposal - *multiply by 0.25.*

Rate E: for re-use - *multiply by 0.70.*

Definition of Terms

Tail-less feeder pillars:

Having cable sealing chambers.

Tailed feeder pillars:

Having no cable sealing (i.e. where sealing of cable is carried out in a cable dividing box).

Method of Measurement

Measure the following separately:

- i. Conduit connections between equipment.
- ii. Terminations and glands for cables.
- iii. Connecting cable ends and tails into existing equipment.

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables, conduit or trunking.
- iii. Bonding links from cable armouring/sheath and/or conduit/trunking to equipment earth terminals.

Rates for the following include

Generally:

For unloading and placing in position.

For supplying (Rate A) with galvanised or zinc sprayed finish and final paint finish of stove gloss enamel to manufacturer's standard finish as appropriate.

For site insulation tests (Rate B) on factory built assemblies.

For connecting (Rate B) all cable ends and tails.

V12 LV SUPPLY / PUBLIC UTILITY SUPPLY

FUSE PILLARS AND CABLE DISTRIBUTION CABINETS

Specification

External fuse pillars:

Enclosure to have a degree of protection to BS EN 60529 of IP 45.

Heater:

Anti-condensation metal clad heater rated at 65 watts complete with a switch, fuse, switching thermostat, high limit cut-off thermostat and all necessary wiring.

Access doors:

Fit fuse pillar access doors with internal hinges. Secure doors with quick acting barlock and high security padlock.

Rates for the following include

Generally:

For installation of interconnecting wiring and terminations (both provided) for metering and control.

Method of Measurement

Measure fuse links separately.

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Single busbar:		Double busbar:		Single busbar:		Double busbar:	
		Tailed	Tailless	Tailed	Tailless	Tailed	Tailless	Tailed	Tailless
V12	Each	£	£	£	£	£	£	£	£
	External distribution pillar: 240 / 415 V AC fuse carriers: anti-condensation metal clad heater with control switch and fuse: door opening 180°: ways								
001	one 400A incoming: four 400A outgoing. . . .	3520.00	3650.00	3870.00	4000.00	197.43	224.77	212.62	239.96
002	one 800A incoming: four 400A outgoing. . . .	3780.00	4000.00	4100.00	4320.00	203.51	230.85	218.70	246.03
003	six 400A outgoing. . . .	4370.00	4730.00	4810.00	5160.00	218.70	246.03	233.88	261.22
004	eight 400A outgoing. . .	4760.00	5390.00	5340.00	5960.00	233.88	261.22	249.07	276.41
005	one 1200A incoming: four 600A outgoing. . . .	4290.00	4730.00	4680.00	5120.00	209.58	236.92	224.77	252.11
006	six 600A outgoing. . . .	4910.00	5620.00	5430.00	6140.00	224.77	252.11	239.96	267.29
007	eight 600A outgoing. . .	5430.00	6410.00	6110.00	7090.00	239.96	267.29	255.15	282.48
008	one 1600A incoming: four 600A outgoing. . . .	4320.00	4760.00	4750.00	5190.00	215.66	243.00	230.85	258.18
009	six 600A outgoing. . . .	4950.00	5650.00	5490.00	6200.00	230.85	258.18	246.03	273.37
010	eight 600A outgoing. . .	5570.00	6530.00	6310.00	7260.00	246.03	273.37	261.22	288.56

FUSE PILLARS AND CABLE DISTRIBUTION CABINETS - <i>continued</i>				
<i>Each</i>	Rate A		Rate B	
	1	2	3	4
	Tailed	Tailless	Tailed	Tailless
	£	£	£	£
Extra over 400 A three-phase outgoing way for 600 A . . .	82.72	94.27	2.28	2.28
Extra over 600 A three-phase outgoing way for 800 A . . .	348.15	292.38	2.28	2.28
				Rate A
<i>Each</i>				1
				£
ADD for:				
root casings: factory fitted:				
cast iron:				
four-way unit				236.60
six- or eight-way unit				248.14
steel angle:				
four-way unit				146.19
six- or eight-way unit				151.96
door stays: factory fitted:				
set of two				25.00
set of four				50.03

V12 LV SUPPLY / PUBLIC UTILITY SUPPLY

FUSE PILLARS AND CABLE DISTRIBUTION CABINETS - *continued*

Item	Each	Rate A					Rate B			
		1	2	3	4	5	6	7	8	9
		Single busbar:			Double busbar:		Single busbar:		Double busbar:	
		Tailed	Tailess	Front tailed	Tailed	Tailess	Tailed/ front tailed	Tailess	Tailed	Tailess
V12		£	£	£	£	£	£	£	£	£
Internal distribution										
pillar: 240 / 415 V										
AC fuse carriers:										
ways:										
incoming:										
one 400 A:										
outgoing:										
019	four 400 A . . .	3290.00	3430.00	3720.00	3640.00	3780.00	221.73	249.07	236.92	264.26
incoming:										
one 800 A:										
outgoing:										
020	four 400 A . . .	3540.00	3780.00	4000.00	3860.00	4100.00	227.81	255.15	243.00	270.33
021	six 400 A	4140.00	4490.00	4670.00	4570.00	4930.00	243.00	270.33	258.18	276.41
022	eight 400 A . . .	4680.00	5160.00	5290.00	5250.00	5730.00	258.18	285.52	273.37	300.71
incoming:										
one 1200 A:										
outgoing:										
023	four 600A	4020.00	4500.00	4550.00	4410.00	4890.00	233.88	261.22	249.07	276.41
024	six 600A	4550.00	5390.00	5140.00	5060.00	5910.00	249.07	276.41	264.26	291.59
025	eight 600A . . .	7020.00	6060.00	5760.00	5780.00	6740.00	264.26	291.59	279.44	306.78
incoming:										
one 1600 A:										
outgoing:										
026	four 600A	4050.00	4530.00	4580.00	4480.00	4960.00	239.96	267.29	255.15	282.48
027	six 600A	4710.00	5420.00	5320.00	5260.00	5960.00	255.15	282.48	270.33	300.71
028	eight 600A . . .	5370.00	6300.00	7650.00	6110.00	7030.00	270.33	297.67	285.52	312.86
										Rate A
										1
										£
Each										
ADD for:										
door stays: factory fitted:										
029	set of two									25.00
030	set of four									50.03
										Rate A
										1
										£
Each										
Copper link for fuse carrier:										
031	400 A								38.47	52.85
032	600 A								44.24	52.85

V12 LV SUPPLY / PUBLIC UTILITY SUPPLY

FUSE PILLARS AND CABLE DISTRIBUTION CABINETS - *continued*

Item		Rate A		Rate B
		1	2	3
		Indoor type	Outdoor type	Any type
		£	£	£
V12	<i>Each</i>			
	Load-shedding contactor pillar: 240/415 V AC: triple-pole air-break type contactor: control fuses: rotary switch: RLS/1 relay: copper connections to feeder pillar busbars: door stays			
033	160 A	2910.00	2730.00	91.12
034	250 A	3010.00	2820.00	91.12
035	400 A	3720.00	3530.00	91.12
036	600 A	4330.00	4140.00	106.31
037	800 A	4940.00	4750.00	106.31
038	1000 A	5510.00	5310.00	106.31

		Rate A	
		1	
		£	
	<i>Each</i>		
	ADD for:		
	root to pillar: factory fitted:		
039	cast iron		232.75
040	steel angle		140.42

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
	Meter panel for incoming supply to pillar:		
041	400 A	450.11	15.19
042	800 A	450.11	15.19
043	1200 A	450.11	15.19
044	1600 A	450.11	15.19
	ADD for set of three current transformers:		
045	ratio 400/5 A	217.35	12.15
046	ratio 800/5 A	263.52	12.15
047	ratio 1200/5 A	382.79	12.15
048	ratio 1600/5 A	402.03	12.15

V12 LV SUPPLY / PUBLIC UTILITY SUPPLY

FUSE PILLARS: SPECIFICATION 039

Specification

Standard:

Comply with the requirements of Defence Works Specification: SPEC 039: Fuse Pillars.

Scope of Specification:

Design, manufacture and testing of fuse pillars used in the distribution of electrical power and suitable for installation within or near buildings or substations.

Item	Each	Rate A			Rate B		
		1	2	3	4	5	6
		4-way	6-way	8-way	4-way	6-way	8-way
		£	£	£	£	£	£
External distribution pillar:							
single busbar							
049	800A	5560.00	6450.00	7340.00	227.81	258.18	288.56
050	1600A	6360.00	7340.00	8310.00	243.00	273.37	303.74
load shedding							
051	800A	10530.00	11750.00	12980.00	379.68	410.05	440.43
052	1600A	11320.00	12650.00	13950.00	394.87	425.24	455.62

		Rate A		Rate B	
		1	2	3	4
		10-way	12-way	10-way	12-way
		£	£	£	£
Each					
External distribution pillar:					
single busbar					
053	800A	8280.00	9110.00	318.93	349.31
054	1600A	9270.00	9730.00	334.12	364.49

V32: Uninterruptible power supply

GENERALLY

Specification

Standard:

BS EN 62040-1: Uninterruptible power systems (UPS). General and safety requirements for UPS.

Enclosure:

Rigid free standing floor-mounted enclosure. Comply with BS EN 60529, degree of protection IP31.

Access:

Full size lockable doors to give access to all compartments. Provide two sets of keys.

Rate D: for scrap including disposal - *multiply by 0.25.*

Rate E: for re-use - *multiply by 0.70.*

Method of Measurement

Measure the following separately:

- Conduit connections between equipment.
- Terminations and glands for cables.
- Connecting cable ends and tails into existing equipment.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rates for the following include

Generally:

For unloading and placing in position.

For site insulation tests (Rate B) on factory built assemblies.

For connecting (Rate B) all cable ends and tails.

UNINTERRUPTIBLE POWER SUPPLY

Item		Rate A	Rate B
		1	2
		£	£
V32	<i>Each</i>		
	Uninterruptible power supply: 240 V input and output: socket outlet connection: self contained battery pack: surge protection		
001	0.250 kVA	175.24	15.19
002	0.400 kVA	217.29	18.22
003	0.600 kVA	308.41	21.26
004	0.900 kVA	518.68	27.33
005	1.200 kVA	609.81	36.45
006	1.500 kVA	799.05	45.56
007	2.200 kVA	1990.63	54.67
008	3.000 kVA	2348.10	66.82

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS

GENERALLY

Definitions

Off-grid inverter: device that converts DC current into AC current.

Grid connected: device that converts DC current into AC current and feeds power back into the grid.

Sinewave inverter: device used for running sensitive electronics or audio equipment.

Modified sinewave inverter: device used for running induction motors, resistive loads and the like.

INVERTERS: OFF-GRID

Item		Rate A	Rate B
		1	2
V32	Each	£	£
Inverter: output voltage 230 V AC: modified sinewave: automatic shutdown protectionon/off switch and LED indicators:			
	portable		
009	not exceeding 0.18 kW	84.16	18.22
010	0.18 to 0.30 kW	108.72	21.26
011	0.30 to 0.70 kW	270.90	24.30
	high surge capacity:		
012	0.50 kW rating 1.00 kW surge power	323.90	27.33
013	1.00 kW rating 2.40 kW surge power	396.27	30.37
	high surge capacity: including three stage adjustable battery charger		
014	0.50 kW rating 1.00 kW surge power	418.60	33.41
015	1.00 kW rating 2.40 kW surge power	497.09	36.45
016	1.30 kW rating 3.00 kW surge power	605.81	39.48
017	1.60 kW rating 4.00 kW surge power	684.70	42.52
018	2.50 kW rating 6.00 kW surge power	1077.46	45.56
019	4.50 kW rating 10.00 kW surge power	1696.41	60.74
020	ADD for remote control panel: graphical user interface.	392.76	6.07
021	ADD for battery monitor	108.72	6.07
022	ADD for battery protect	58.75	6.07
023	ADD for link box in enclosure.	240.22	15.19

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS: OFF-GRID - *continued*

Item		Rate A			Rate B
		1	2	3	4
		Input voltage: DC			Any
		12 V	24 V	48 V	Type
V32	Each	£	£	£	£
Inverter: output voltage 230 V AC: sinewave: automatic shutdown protection: on/off switch and LED indicators:					
DC battery cables: AC output cables:					
024	not exceeding 0.20 kW	212.68	-	-	24.30
025	0.20 to 0.30 kW	270.11	270.11	260.42	27.33
026	0.30 to 0.40 kW	414.19	414.19	455.87	30.37
027	0.40 to 0.80 kW	704.35	704.35	775.96	33.41
028	0.80 to 2.00 kW	1202.33	1154.88	1272.28	42.52
029	ADD for remote control	33.67	33.67	33.67	6.07
standby mode: 300% maximum overload capability: DC battery cables: AC output connection via terminal rail					
030	not exceeding 0.60 kW	1219.10	1219.10	1219.10	42.52
031	0.60 to 0.80 kW	1449.34	1449.34	1449.34	45.56
032	0.80 to 1.20 kW	1827.77	1827.77	1827.77	48.59
033	1.20 to 2.40 kW	-	2315.87	2315.87	54.67
034	2.40 to 3.60 kW	-	-	3005.90	60.74
Inverter/charger: output voltage 230 V AC: sinewave: automatic shutdown protection: on/off switch: programmable functions and LED indicators: including three stage adjustable battery charger: standby mode: 200% maximum overload capability: DC battery cables: AC output connection via terminal rail					
maximum charge rate: not exceeding 90 A					
035	not exceeding 1.00 kW	722.40	722.40	-	45.56
036	1.00 to 1.30 kW	820.59	820.59	-	48.59
037	1.30 to 1.60 kW	1025.74	1026.62	-	51.63
038	1.60 to 2.50 kW	1268.58	1268.58	1268.58	63.78
039	2.50 to 4.50 kW	-	1825.28	1825.28	69.85
high power: maximum charge rate: exceeding 90 A					
040	not exceeding 2.50 kW	1734.11	-	-	82.00
041	2.50 to 4.50 kW	2701.11	2258.37	2258.37	91.11
042	4.50 to 7.00 kW	-	-	2850.15	109.34
043	7.00 to 9.00 kW	-	-	3121.04	127.56

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS: OFF-GRID - *continued*

Item		Rate A	Rate B
		1	2
V32	<i>Each</i>	£	£

Inverter/charger: output voltage 230 V AC: sinewave - *continued*

044	ADD for battery temperature monitor	108.72	15.19
045	ADD for battery protect.	58.75	18.22
046	ADD for remote control panel: graphical user interface	392.76	21.26
047	ADD for link box enclosure.	240.22	24.30

Rate A		Rate B
1	2	3
Input voltage: DC		Any
24 V	48 V	Type
£	£	£

Each

programmable automatic start for low battery or high load:

048	not exceeding 3.50 kW	3245.64	3245.64	106.30
049	3.50 to 4.50 kW	-	3708.43	109.34

Rate A	Rate B
1	2
£	£

Each

050	ADD for conduit box	75.72	21.26
051	ADD for remote control panel: status LEDs: 6.00 m cable	270.98	33.41
052	ADD for remote control panel: status LEDs: 15.00 m cable	276.19	39.48
053	ADD for parallel interface: link between two inverters	324.07	27.33
054	ADD for communications adaptor: facility for direct connection to computer	165.72	24.30

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS: GRID CONNECTED

Item		Rate A			Rate B
		1	2	3	4
		Grid connected inverter:			Any
		Standard	High Frequency	Transformer-less	Type
V32	Each	£	£	£	£
Inverter: string type: output voltage 230 V AC: automatic shutdown protection: on/off switch and LED indicators: operating state and fault monitoring: voltage and frequency, input current and power, operating hours, generated kWh measurement: display lid: status: voltage: output on day: output to date: IP65:					
055	not exceeding 0.80 kW	526.30	-	-	57.71
056	0.80 to 1.20 kW	-	-	574.18	60.74
057	1.20 to 1.60 kW	-	-	612.67	63.78
058	1.60 to 2.10 kW	-	701.36	701.49	69.85
059	2.10 to 2.50 kW	926.30	905.49	-	75.93
060	2.50 to 3.00 kW	1005.85	832.42	974.21	83.52
061	3.00 to 3.50 kW	-	-	996.33	91.11
062	3.50 to 4.00 kW	-	-	1046.14	106.30
063	4.00 to 5.00 kW	-	-	1195.59	121.49
064	5.00 to 6.00 kW	-	-	1336.29	136.67

		Rate A		Rate B	
		1	2	1	2
		£	£	£	£
	Each				
065	ADD for power line modem: superimposing signal transmission on to existing mains wiring		52.97		15.19
066	ADD for RS 485 interface: multiple inverters		94.96		18.22
067	ADD for RS 232 interface: single inverter		94.96		18.22
	ADD for plug-in modem: facility for direct connection to computer				
068	RS 232 interface		225.06		27.33
069	USB interface		132.43		27.33
070	ADD for RS 232/USB converter		27.04		22.78
071	ADD for RS 485/USB converter		205.42		22.78
072	ADD for RS 485/232 converter		232.25		22.78

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS: GRID CONNECTED - *continued*

Item		Rate A	Rate B
		1	2
V32	<i>Each</i>	£	£
	Controller: monitoring and data logging: multiple inverters: integrated data storage and data transmission:		
073	for use up to 75 inverters	815.81	60.74
074	ADD for power supply to controller	40.11	22.78
	Controller: system monitoring: remote diagnostics		
075	touch screen display for up to 12 inverters with blue tooth	186.96	27.33
076	web box unit; data storage; ethernet interface.	321.26	45.56
077	web box unit; data storage; ethernet interface with blue tooth.	353.75	45.56
078	RS 485 communication for web box	59.15	27.33
079	Sensor box: performance checking: solar cell: RS 485 interface	251.55	36.45
	ADD for		
080	mounting plate	13.59	22.78
081	mounting bracket	29.23	22.78
	sensor		
082	module temperature	30.59	22.78
083	ambient temperature	35.35	22.78
084	wind	98.58	22.78
085	energy meter, bi-directional or three phase	267.25	27.33
	Display unit: large format for public areas: external weatherproof: RS 232, RS 485 or ethernet connection: LED or LCD graphic display: power output kW, total energy output kWh: avoided CO2 emissions:		
086	800 x 400 mm	1301.32	91.11
087	800 x 800 mm	1862.35	100.23
088	800 x 1000 mm	1940.28	109.34

V32 UNINTERRUPTIBLE POWER SUPPLY

INVERTERS: GRID CONNECTED - *continued*

Item		Rate A	Rate B
		1	2
V32	<i>Each</i>	£	£
	Inverter/charger: bi-directional type: output voltage 230 V AC: graphic display and user interface: integrated over-load protection and short circuit performance: diagnosis of battery voltage, current, temperature, state of charge, grid voltage, current, frequency, power operating hours, status, event history: IP54:		
089	not exceeding 2.20 kW	1807.06	136.67
090	2.20 to 3.30 kW	2096.19	144.26
091	3.30 to 4.60 kW	2313.04	151.86
092	4.60 to 6.00 kW	2782.89	159.45
093	ADD for additional RS 485 interface	122.24	18.22
094	ADD for multicluster interface	122.24	18.22
095	ADD for RS485 adaptor cable - RJ45 to 3 wires	16.30	9.11
096	ADD for speedwire data module.	122.24	18.22
097	ADD for remote control.	236.32	22.78
	Load shedding contactor:		
098	25 A	33.01	22.78
099	40 A	51.87	23.08
100	65 A	100.59	23.39
101	95 A	123.77	23.69
	Measurement shunt:		
102	1 x bi-directional inverter (200A nominal current/60mV)	55.47	15.19
103	2 x bi-directional inverter (400A nominal current/60mV)	71.31	15.49
104	3 x bi-directional inverter (600A nominal current/60mV)	87.17	15.79
105	4 x bi-directional inverter (800A nominal current/60mV)	103.01	16.10
	Battery fuse disconnecter box		
106	160 A; 1 way	507.29	30.37
107	200 A; 1 way	507.29	30.37
108	125 A; 3 way	317.80	33.41
109	160 A; 3 way	936.52	37.96
110	200 A; 3 way	936.52	37.96
111	Charge controller; for 12/24/48V systems; IP65	805.92	37.96

V40: Emergency lighting

GENERALLY

Specification

Emergency lighting system:

Install, test and commission in accordance with BS 5266-1: Emergency lighting. Code of practice for the emergency lighting of premises.

BS EN 1838: Lighting applications.

Emergency lighting.

BS EN 50172, BS 5266-8: Emergency escape lighting systems.

Emergency lighting luminaires:

Comply with BS EN 60598-2-22: Luminaires. Particular requirements. Luminaires for emergency lighting.

Ensure emergency lighting luminaires are marked with ICEL certification label in accordance with ICEL 1001.

Ensure self-contained luminaires are not installed where temperatures are likely to exceed manufacturer's recommended maximum or are below that specified by manufacturer.

Installation:

Install equipment in accordance with manufacturer's recommendations.

Definition of Terms

As defined in ICEL 1006: Emergency Lighting Design Guide.

Method of Measurement

Generally:

Measure the following separately:

- i. Connecting cable ends and tails into existing lighting equipment or that fixed by others.

- ii. Lamps / tubes.

Baring conductors is included elsewhere within other items.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.40.*

Rate E: For re-use - *multiply by 0.70.*

Rates for the following include

Generally:

For connecting (Rate B) all cable ends and tails.

For supplying (Rate A) and installing (Rate B) instant start control gear for fluorescent luminaires.

Note

Ratings:

Unless otherwise stated, Items in this Section are to be appropriate for 240 V (nominal) AC, 50Hz.

SELF-CONTAINED EMERGENCY LIGHTING LUMINAIRES							
Each	Rate A						Rate B
	1	2	3	4	5	6	7
	Non-maintained		Maintained		Sust- ained	Slave	Any type
	Self check	Self check					
£	£	£	£	£	£	£	
Luminaire: self contained: three hours duration:							
rectangular: high performance: fluorescent tube: not exceeding							
8 W: including T5 tube	57.20	97.22	70.86	112.66	-	-	28.86
with infra red communication	-	112.07	-	128.20	-	-	28.86
economy bulkhead: 8 W:							
weatherproof IP65	42.73	153.70	55.73	159.81	62.97	121.34	28.86
low profile interior surface luminaire:							
8W: including T5 tube	58.64	113.53	69.66	126.23	-	67.37	28.86
with infra red communication	-	151.75	-	164.76	77.90	97.02	28.86
low profile interior surface luminaire:							
LED	-	-	77.30	138.60	-	66.04	28.86
bulkhead luminaire: vandal resistant:							
polycarbonate diffuser: 8 W:							
weatherproof IP65	69.76	144.49	78.45	156.66	117.73	82.50	28.86
bulkhead luminaire: heavy duty: vandal resistant: polycarbonate diffuser: 8 W							
weatherproof IP65	77.26	-	92.52	-	126.51	64.38	28.86
recessed luminaire: hinged lens	66.86	105.06	79.55	121.99	50.86	-	28.86
round light: 28 W 2D energy efficient lamp: vandal resistant: weatherproof							
IP65	105.49	147.98	137.99	179.29	-	89.95	28.86
circular decorative: glass with brass trim:							
16 W 2D energy efficient lamp							
white	100.74	-	121.68	-	-	96.71	28.86
brass or chrome finish	147.98	-	158.51	-	-	128.39	28.86
28 W 2D energy efficient lamp							
white	116.52	175.34	145.90	202.75	-	102.95	28.86
brass or chrome finish	153.18	-	166.88	-	-	134.91	28.86
						Rate A	Rate B
						1	2
						£	£
ADD for:							
recessing bezel						16.10	7.59
self adhesive legends: european format							
"running man" or arrow						4.01	4.56

V40 EMERGENCY LIGHTING

EMERGENCY FLUORESCENT LUMINAIRES: BATTEN

Item		Rate A			Rate B		
		1	2	3	4	5	6
		1200 mm	1500 mm	1800 mm	1200 mm	1500 mm	1800 mm
		36 W	58 W	70 W	36 W	58 W	70 W
V40	<i>Each</i>	£	£	£	£	£	£
	Batten fluorescent luminaire: three hour maintained: type T8						
	switch start						
017	single	174.47	180.34	188.39	25.82	27.94	30.37
018	twin	195.95	202.62	213.29	27.94	30.37	34.93
	high frequency						
019	single	197.57	206.11	212.59	25.82	27.94	30.37
020	twin	207.22	217.59	225.78	27.94	30.37	34.93
	digital serial interface						
021	single	324.66	333.20	-	25.82	27.94	-
022	twin	334.31	344.68	-	27.94	30.37	-
	<i>Each</i>	£	£	£	£	£	£
	maintained: type T5						
	high frequency						
023	single	311.63	442.61	279.17	410.14	25.82	27.94
024	twin	344.96	475.92	308.73	439.71	27.94	30.37
	<i>Each</i>	£	£	£	£	£	£
	Accessories						
	reflector: metal:						
025	dispersive type	22.76	24.42	28.13	4.25	4.56	4.86
026	angle type	25.50	28.55	32.28	4.25	4.56	4.86
	opal diffuser						
027	single	18.96	22.88	26.77	3.04	3.34	3.64
028	twin	25.42	29.90	35.27	3.04	3.34	3.64
	prismatic controller						
029	single	18.96	22.88	26.77	3.19	3.49	3.80
030	twin	26.14	29.90	35.27	3.19	3.49	3.80
	wire guard						
	galvanised						
031	single	51.57	67.17	73.28	4.25	4.56	4.86
032	twin	58.35	71.27	74.64	4.40	4.71	5.01
	plastic coated						
033	single	58.81	76.59	86.95	4.25	4.56	4.86
034	twin	66.52	81.25	88.56	4.40	4.71	5.01

V40 EMERGENCY LIGHTING

EMERGENCY FLUORESCENT LUMINAIRES: SURFACE

		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
<i>Each</i>		£	£	£	£	£	£	£	£
Surface fluorescent luminaire									
switch start									
single									
035	general purpose louvres	-	137.27	139.67	152.05	-	25.82	27.94	30.37
036	65° louvres	-	139.78	142.17	154.55	-	25.82	27.94	30.37
double									
037	general purpose louvres	-	143.48	150.02	167.41	-	27.94	30.37	34.93
038	65° louvres	-	147.64	154.17	171.59	-	27.94	30.37	34.93
four									
039	general purpose louvres	156.69	198.32	-	-	39.49	44.04	-	-
040	65° louvres	161.66	203.32	-	-	39.49	44.04	-	-
high frequency									
single									
041	general purpose louvres	-	157.90	160.26	172.31	-	25.82	27.94	30.37
042	65° louvres	-	160.34	162.69	174.75	-	25.82	27.94	30.37
double									
043	general purpose louvres	-	168.80	175.20	192.09	-	27.94	30.37	34.93
044	65° louvres	-	172.84	179.23	196.16	-	27.94	30.37	34.93
four									
045	general purpose louvres	181.62	222.14	-	-	39.49	44.04	-	-
046	65° louvres	186.51	226.99	-	-	39.49	44.04	-	-

V40 EMERGENCY LIGHTING

EMERGENCY FLUORESCENT LUMINAIRES: RECESSED

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 x 600 mm		1200 x 600 mm		In ceiling grid		Rod suspended	
		Lamps				600 x	1200 x	600 x	1200 x
		3 x 18W	4 x 18W	3 x 36W	4 x 36W	600 mm	600 mm	600 mm	600 mm
V40	<i>Each</i>	£	£	£	£	£	£	£	
Recessed modular fluorescent luminaire: body									
047	switch start	95.60	95.96	114.42	114.83	37.06	44.35	50.73	58.02
048	high frequency	115.68	114.46	133.04	131.82	37.06	44.35	50.73	58.02
	ADD for								
	prismatic diffuser								
049	styrene	3.09	3.09	5.93	5.93	9.42	12.45	9.42	12.45
050	flame retardant	13.83	13.83	29.05	29.05	9.42	12.45	9.42	12.45
051	general purpose louvres	16.35	16.30	28.24	29.04	9.42	12.45	9.42	12.45
052	65° louvres	17.40	18.11	36.77	37.48	9.42	12.45	9.42	12.45
									Rate A
									1
	<i>Each</i>								£
Suspension: set of four:									
053	side arms								17.56
054	threaded rods not exceeding 500 mm long								14.74

EMERGENCY LED LUMINAIRES: BATTEN STYLE

Item		Rate A			Rate B		
		1	2	3	4	5	6
		1200 mm	1500 mm	1800 mm	1200 mm	1500 mm	1800 mm
		£	£	£	£	£	£
V40	<i>Each</i>						
	Batten style LED luminaire: three hour non maintained						
	high frequency						
055	2400 - 4500 lumen	437.61	461.01	-	25.82	27.94	-
056	4500 - 7000 lumen	443.45	466.86	496.11	25.82	27.94	30.37
057	7000 - 8500 lumen	-	-	501.96	-	-	30.37
058	8500 - 10000 lumen	-	-	596.73	-	-	30.37
	digital serial interface						
059	2400 - 4500 lumen	560.46	583.86	-	25.82	27.94	-
060	4500 - 7000 lumen	566.32	589.72	618.96	25.82	27.94	30.37
061	7000 - 8500 lumen	-	-	624.82	-	-	30.37
062	8500 - 10000 lumen	-	-	842.45	-	-	30.37

V40 EMERGENCY LIGHTING

SUSPENSION SETS FOR TUBULAR LUMINAIRES

		Rate A		Rate B	
		1	2	3	4
		Suspension not exceeding 750 mm long	ADD for each additional 250 mm or part thereof	Any length: fixed to small round conduit box	fixed to any other back-ground
<i>Each</i>		£	£	£	£
Suspension set: associated components:					
063	two down-rods: two ceiling plates	43.43	10.60	13.97	22.78
064	two down-tubes: two dome or ball and socket ceiling plates	51.73	11.74	13.97	22.78
065	two down-chains: two hook ceiling plates: two luminaire hooks	44.01	1.09	13.97	22.78

EMERGENCY GENERAL PURPOSE LUMINAIRES

		Rate A		Rate B	
		1	2	3	4
		Luminaire	including photocell	Luminaire	including photocell
<i>Each</i>		£	£	£	£
Bulkhead luminaire: circular or square: opal or prismatic diffuser: vandal resistant: weatherproof to IP65: including low energy compact fluorescent lamp					
066	polycarbonate body and diffuser 28 W	186.00	222.65	21.26	23.39
067	aluminium body and polycarbonate diffuser: clear or red 28 W	225.40	262.08	27.34	30.07

V40 EMERGENCY LIGHTING

EMERGENCY DECORATIVE TYPE LUMINAIRES

					Rate A				Rate B
					1	2	3	4	5
					Switchstart		High Frequency		Any type
					Base				
					Chrome or Brass		Chrome or Brass		
					White		White		
<i>Each</i>					£	£	£	£	£
Decorative ceiling luminaire: circular: 400 mm diameter: low energy compact fluorescent lamp									
068	for 28 W				133.73	156.38	133.73	156.38	21.26
069	for 38 W				-	-	159.62	159.62	22.78

EMERGENCY DOWNLIGHTERS

					Rate A			Rate B		
					1	2	3	4	5	6
					13 W	18 W	26 W	13 W	18 W	26 W
<i>Each</i>					£	£	£	£	£	£
Downlighter: including ballast										
switch start										
070	single				94.15	100.17	106.25	21.26	22.78	25.82
071	twin				97.37	103.42	109.47	22.78	24.30	27.34
high frequency										
072	single				103.66	109.81	115.98	21.26	22.78	25.82
073	twin				107.01	113.18	119.34	22.78	24.30	27.34
								Rate A	Rate B	
								1	2	
<i>Each</i>								£	£	
074	louvre							16.46	6.07	
drop glass bezel										
075	white							18.28	6.07	
076	chrome or brass							21.70	6.07	

EMERGENCY DOWNLIGHTERS - continued

TWIN BEAM LONG RANGE EMERGENCY LIGHTING

44

V40 EMERGENCY LIGHTING

EXIT AND ESCAPE ROUTE SIGNS FOR EMERGENCY USE

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		Non-maintained		Maintained		Slave	Legend	Any type
		Self check		Self check				
V40	Each	£	£	£	£	£	£	£
	Exit sign: 8 W							
	economy							
084	metal box: wall mounted	50.01	-	56.22	-	40.39	6.92	28.86
	plastic							
085	double sided: ceiling mounted . . .	50.49	-	57.07	-	64.29	Included	28.86
086	single sided: wall mounted	51.89	101.62	57.05	104.42	47.91	6.92	28.86
087	self-contained: LED: wall mounted	-	-	71.97	-	59.31	-	19.74
088	legend assembly: white	-	-	-	-	-	66.91	10.63
089	legend assembly: chrome	-	-	-	-	-	75.87	10.63
090	large downlighter: single sided:							
	wall mounted	96.65	-	105.11	-	63.24	11.35	31.89
	edgelit: LED: wall or ceiling mounted							
091	recessed	-	-	108.06	-	-	20.32	37.97
092	semi-recessed bezel	-	-	25.06	-	-	-	6.07
	suspended: fixing plate							
093	plain finish	88.65	-	103.98	-	67.32	12.97	37.97
094	brass or chrome finish	122.51	159.66	131.75	169.96	96.38	12.97	37.97
	recessed: double sided: ceiling							
	mounted:							
095	plain finish	-	-	80.56	117.31	66.26	12.64	37.97
096	chrome or gold finish	-	-	100.90	146.10	95.09	12.64	37.97
	surface fixed: single or double							
	sided: wall or ceiling mounted:							
097	plain finish	-	-	64.47	100.61	58.41	20.32	28.86
098	chrome or gold finish	-	-	70.49	107.29	63.32	20.32	28.86
099	downlighter with threshold light:							
	single sided: wall mounted . . .	82.81	118.50	92.39	128.07	61.15	Included	28.86

V40 EMERGENCY LIGHTING

CENTRAL BATTERY EQUIPMENT

Specification

Standard:

Comply with:

BS EN 50171: Central power supply systems.

BS 6290-2, -3, -4: Lead-acid stationary cells and batteries.

BS EN 60896-11: Stationary lead-acid batteries. as appropriate, for lead-acid cells.

Note

Ensure emergency lighting central power systems are marked with ICEL certification label in accordance with ICEL 1009.

Low maintenance battery system for use in smaller installations.

Item
V40

Each

Rate A				Rate B
1	2	3	4	5
Non-maintained		Maintained		Any
1 Hour	3 Hour	1 Hour	3 Hour	type
£	£	£	£	£

Central battery system: mains on/off switch: indicating neon: charge indicating lamp: sealed lead-acid batteries

battery life not exceeding 5 years

100	not exceeding 75 W	-	319.30	-	428.40	45.56
101	75 to 100 W	-	329.30	-	432.39	48.60
102	100 to 150 W	319.30	344.32	428.40	446.41	51.64
103	150 to 250 W	354.33	447.41	442.40	538.50	54.67
104	250 to 350 W	372.34	505.46	459.42	574.53	57.71
105	350 to 450 W	447.41	577.54	568.53	679.63	60.75
106	450 to 600 W	505.46	-	588.54	-	63.79
107	600 to 750 W	593.55	-	690.63	-	66.82

battery life 5 to 10 years

108	not exceeding 250 W	-	562.51	-	607.55	54.67
109	250 to 350 W	-	595.55	-	657.60	57.71
110	350 to 450 W	562.51	697.65	646.59	714.66	60.75
111	450 to 600 W	621.57	-	714.66	-	63.79
112	600 to 750 W	720.66	-	806.74	-	66.82

Each

Rate A	Rate B
1	2
£	£

Replacement low voltage batteries

113	24 V	58.53	7.59
114	50 V	58.53	7.59
115	110 V	49.70	7.59

Slave luminaire

116	24 V	40.73	28.86
117	50 V	40.73	28.86
118	110 V	40.73	28.86

V40 EMERGENCY LIGHTING

HAZARDOUS AREA EMERGENCY LUMINAIRES

GENERALLY

Specification

Standard:

Comply with:

BS EN 60079-1: Electrical apparatus for explosive gas atmospheres. Flameproof enclosures 'd'.

BS EN 60079-7: Electrical apparatus for explosive gas atmospheres. Increased safety 'e'.

BS EN 60079-14: Explosive atmospheres. Electrical installations design, selection and erection.

BS EN 60079-15: Electrical apparatus for explosive gas atmospheres. Construction, test and marking of type of protection 'n' electrical apparatus.

EMERGENCY FLUORESCENT LUMINAIRES: SURFACE: CORROSION RESISTANT

Item		Rate A			Rate B		
		1	2	3	4	5	6
		1200 mm	1500 mm	1800 mm	1200 mm	1500 mm	1800 mm
		36 W	58 W	70 W	36 W	58 W	70 W
V40	Each	£	£	£	£	£	£

Corrosion resistant luminaire: IP65

switch start

119	single	161.29	189.01	225.36	34.32	35.54	38.27
120	twin	177.37	212.86	254.83	35.54	38.27	41.31
	high frequency						
121	single	199.83	215.50	255.83	34.32	35.54	38.27
122	twin	213.88	235.04	280.31	35.54	38.27	41.31

Corrosion resistant luminaire: Ex 'n' non-sparking: Zone 2: electronic ignition: IP65

123	single	635.71	659.28	-	34.32	35.54	-
124	twin	636.85	693.38	-	35.54	38.27	-

	Each	Rate A				Rate B			
		1	2	3	4	5	6	7	8
			600 mm	1200 mm	1500 mm		600 mm	1200 mm	1500 mm
		8 W	18 W	36 W	58 W	8 W	18 W	36 W	58 W
		£	£	£	£	£	£	£	£

Corrosion resistant luminaire: Ex 'd' flameproof: zone 1 and 2: electronic ignition: IP66/67

125	single	769.37	1435.71	1474.96	1487.16	25.82	34.32	35.54	38.27
126	twin	-	1538.80	1551.42	1561.94	-	35.54	38.27	41.31
127	wire guard: galvanised ..	76.88	86.77	119.16	130.71	5.47	6.07	6.68	7.29

W10: Telecommunications

GENERALLY - CABLES AND WIRING

Materials

Cables to be delivered to site with seals intact, labelled with manufacturer's name, size, description, BS number, classification, length, grade and date of manufacture.

Installation

Generally:

Use and install cables only as directed in the appropriate standard or as directed by the manufacturer in writing. Lay cables in one length unless otherwise indicated. Obtain permission from PM for all through joints, and where overall length requirement exceeds practical drum size.

Use cables with "harmonised" cable core colours in accordance with BS 7671.

LSF cables:

Install LSF cables in accordance with manufacturer's instructions. Ensure oversheaths are not damaged by abrasion or scuffing.

In conduit and trunking:

Install cables so that they are orderly and capable of being withdrawn. Allow for full range of movement at building construction movement joints.

On rack and tray:

Place cables side by side or as indicated. Fix using cleats or cable ties so that any cable may be individually removed.

On surface:

Dress cables flat, free from twists, kinks and strain, and align parallel to building elements. When glands and clamps are not required, take sheathing of cables into accessory boxes and equipment and protect against abrasion using grommets or similar sharp edge protection.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.30.*

Rate E: For re-use - *multiply by 0.75 .*

Definition of Terms

Laid:

In trench, open duct or trunking.

Drawn:

Into conduit, enclosed duct or trunking.

GENERALLY - CABLES AND WIRING - *continued*

Method of Measurement

Cables in conduits, ducts, trunking, trays or the like:

Measure as the net length of the conduit, duct, trunking, tray etc. Otherwise measure as laid (but without allowance for sag) between the boxes of switchgear, fittings, accessories or the like. Make the following allowances:

- i. 0.30 metre on each cable entering fittings or accessories.
- ii. 0.60 metre on each cable entering or control gear.

Cleats and hangers, cable terminations and cable jointing:

Measure separately.

Connecting cable ends and tails:

Are included elsewhere within other Items.

Rates for the following include

Rate A:

For any costs in connection with hiring cable drums and disposal.

Rate B:

For baring conductors.

For supplying components and materials for and fixing the following:

- i. capping ends.
- ii. cable identification (e.g. adhesive coloured bands, laminated plastic discs or the like).
- iii. cable core identification (e.g. plastic stretch or shrink ferrules).
- iv. trefoil bonding for single-core cables.
- v. cable saddles, clips, ties or the like.
- vi. cleats where cable is described as fixed to any background
- vii. temporary and permanent duct seals.

For providing draw wires, draw cables or the like and drawing cables / wires into ducts, conduits or trunking where cable is described as 'drawn'.

For removing and replacing covers, lids and other means of access where cable / wiring is installed in ducts, conduits, trunking or trays.

For drawing cable / wiring into new or existing conduits, ducts or trunking (including those containing existing cables) where cables are described as 'drawn'.

For installing cables in service ducts.

For site insulation and continuity testing on alarm, control, communication and monitoring cables as directed.

Rates D and E:

For cleaning, coiling, labelling cable / wiring on drums provided (Rate E).

For removing cable / wiring where concealed but accessible.

W10 TELECOMMUNICATIONS

STANDARD COMMUNICATIONS CABLES

GENERALLY

Specification

Standard:

Comply with:

BS 6701: Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance.

BS EN 50173: Information technology. Generic cabling systems.

BS EN 50174: Information technology. Cabling installation.

BS EN 50174-1: Specification and quality assurance.

BS EN 50174-2: Installation planning and practices inside buildings.

BS EN 50174-3: Installation planning and practices outside buildings.

BS EN 50310: Application of equipotential bonding and earthing in buildings with information technology equipment.

BT CW 1308: Internal telephone cable.

BT CW 1128: External telephone cable.

BT CW 1600: Limited fire hazard cable.

TELECOMMUNICATIONS CABLES

Item	Metre	Rate A		Rate B		
		1	2	3	4	5
		CW1308 PVC	CW1308B LS0H	Laid or drawn	On tray	Fixed to any back-ground
		£	£	£	£	£
Indoor telephone cable: PVC insulated: tinned copper conductor: PVC sheathed: to BT CW 1308						
001	2 pairs	0.18	-	0.76	1.14	1.82
002	3 pairs	0.25	-	1.01	1.52	2.34
003	4 pairs	0.33	-	1.52	2.28	3.34
004	6 pairs	0.47	-	2.02	3.04	4.34
005	10 pairs	0.87	1.26	2.53	3.80	5.38
006	12 pairs	0.95	1.36	3.04	4.56	6.38
007	20 pairs	1.61	1.93	3.54	5.32	7.38
008	25 pairs	1.50	1.79	4.05	6.07	8.41
009	50 pairs	3.33	3.69	4.50	6.74	9.29
010	100 pairs	4.91	6.70	4.86	7.28	10.02
Indoor undercarpet telephone cable: PVC insulated: solid copper conductor: PVC sheathed						
011		0.62	-	4.56	6.83	9.11

W10 TELECOMMUNICATIONS

TELECOMMUNICATIONS CABLES - *continued*

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
W10		£	£	£	£
Indoor telephone cable: PVC insulated: tinned copper conductor: PVC sheathed: limited fire hazard having low emission of smoke and corrosive gases when affected by fire: to BT CW 1600					
012	2 pairs	1.09	0.76	1.14	1.82
013	3 pairs	1.20	1.01	1.52	2.34
014	4 pairs	1.24	1.52	2.28	3.34
015	6 pairs	1.30	2.02	3.04	4.34
016	10 pairs	1.85	2.53	3.80	5.38
017	20 pairs	3.32	3.54	5.32	7.38
External telephone cable: cellular polyethylene insulated: multipair cable: solid conductor: petroleum jelly filled: polyethylene sheathed					
non-armoured: to BT CW 1128					
018	5 pairs	0.98	2.53	3.80	5.38
019	10 pairs	1.12	3.80	5.70	7.90
020	20 pairs	1.56	5.06	7.59	10.42
021	50 pairs	2.64	6.33	9.49	12.97
022	100 pairs	4.79	7.59	11.39	15.49
steel wire armoured: polyethylene oversheathed: to BT CW 1128/1198					
023	5 pairs	2.16	3.80	5.70	7.90
024	10 pairs	3.24	5.06	7.59	10.42
025	20 pairs	4.88	6.33	9.49	12.97
026	50 pairs	10.69	7.59	11.39	15.49
027	100 pairs	18.06	8.86	13.29	18.01
steel wire armoured: PVC sheathed					
028	5 pairs	3.88	3.80	5.70	7.90
029	10 pairs	5.64	5.06	7.59	10.42

CONNECTORS

TELEPHONE AND DATA OUTLET SOCKETS:

Specification

Standard:

Comply with:

BS 6312: Connectors for analogue telecommunication interfaces.

BS 6312-1: Plugs.

BS 6312-2: Sockets for use with plugs specified in BS 6312-1.

Item		Rate A			Rate B
		1	2	3	4
		Master		Secondary	
		PSTN	PABX		Any type
W10	Each	£	£	£	£
	Telephone line jack unit: (LJU)				
030	surface mounted: LJU 1	5.47	-	-	6.83
031	surface mounted: LJU 2	5.06	4.05	3.08	6.83
032	surface or flush mounted: LJU 3	5.22	4.05	3.08	7.59
033	surface or flush mounted: LJU 4	10.34	7.34	6.39	8.35
034	surface or flush mounted: LJU 5	8.73	7.67	6.87	9.11

W12: Public address / sound amplification

GENERALLY

Specification

Standard:

Comply with:

BS 6259: Code of practice for the design, planning, installation, testing and maintenance of sound systems.

BS 6840: Sound system equipment.

BS 7594: Code of Practice for audio-frequency induction-loop systems (AFILS).

BS 5839-8: Code of practice for the design, installation, commissioning and maintenance of voice alarm systems.

Installation:

Install the system and its elements in accordance with the manufacturer's recommendations and BS 6259, BS 6840 or BS 7594 and BS 5839-8 as applicable.

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

Definition of Terms

Gas Group:

As defined in BS EN 60079-0: Electrical for potentially explosive atmospheres: General requirements.

Method of Measurement

Measure the following separately:

- i. Cables and wiring.
- ii. Commissioning and measurement of sound pressure levels for Public Address Equipment.
- iii. Connecting cable ends into existing equipment or that fixed by others.

Cables in conduits, ducts, trunking, trays or the like:

Measure as the net length of the conduit, duct, trunking, tray etc. Otherwise measure as laid (but without allowance for sag) between the boxes of switchgear, fittings, accessories or the like. Make the following allowances:

- i. 0.30 metre on each cable entering fittings or accessories.
- ii. 0.60 metre on each cable entering or control gear.

Rates for the following include

Rate B:

For connecting cable ends and tails.

For training the personnel responsible for the operation of the public address and sound amplification systems.

W12 PUBLIC ADDRESS EQUIPMENT

PUBLIC ADDRESS AND SOUND AMPLIFICATION EQUIPMENT

Item		Rate A	Rate B
		1	2
W12	Each	£	£
Amplifier: power:			
2-way tone control: switchable low cut filter: speaker outputs: mains operation 24 V emergency power operation			
001	1 x 120 W RMS	237.47	25.82
002	1 x 240 W RMS	369.50	28.86
routing switch for parallel operation: switchable 400Hz high-pass filter: temperature controlled fan: LED display for excess temperature and output level: mains operation or 24 V emergency power operation			
003	2 x 240 W RMS	868.59	31.89
004	4 x 120 W RMS	989.34	34.93
Amplifier: mixing: stereo and mono output:			
2 microphone inputs: 1 auxiliary input: 1 phono input: input and output level controls: mains operation			
005	1 x 20 W RMS	120.67	24.91
006	1 x 35 W RMS	140.78	25.21
2 microphone inputs: 1 auxiliary input: chime, siren and foghorn: adjustable level: mains operation or 12 V battery operation			
007	1 x 45 W RMS	165.02	25.51
4 balanced microphone/line inputs: microphone 1 with priority circuit and automatic talkover: additional connection for desktop microphone: 1 auxiliary input: line output: input and output level controls: 2-way tone control for the output: mains operation or 24 V emergency power operation			
008	1 x 120 W RMS	272.90	25.82
009	1 x 120 W RMS: CD player with drawer mechanism: random play: repeat function: title programming: reproduction of audio CD/CD-R	466.10	26.12
010	1 x 240 W RMS	401.69	26.43
5-zone: individual control: chime, continuous sound and wailing sound: automatic mute: bass, treble, and master controls: LED level display: controlled fan: mains operation and 24 V emergency power operation			
011	1 x 120 W RMS	586.85	26.73
012	1 x 240 W RMS	707.60	27.03
013	1 x 480 W RMS	828.35	27.34

W12 PUBLIC ADDRESS EQUIPMENT

MICROPHONES

Specification

Standard:

Comply with:

BS 6840-4: Sound system equipment: microphones.

Item	Each	Rate	
		A	B
		1	2
		£	£
Microphone:			
014	miniature tie-clip condenser microphone: belt-clip battery power supply and on/off switch: tie-clip: foam windshield: 3.5mm plug and 4.00 m lead	20.04	3.04
015	balanced boundary microphone: uni-directional condenser microphone: battery unit fitted in-line within the lead 6.00 m lead: 3 pin XLR plug: vinyl protective case	84.44	4.25
016	gooseneck dynamic cardioid microphone: freestanding, console or stand mounting: integral switch: lead with 3 pin XLR plug: heavy square base: 200mm flexible stem	72.37	4.56
017	gooseneck condenser microphone: freestanding, console or stand mounting: fitted with 3.00 metre lead with 6.35 mm plug: heavy round base: 460 mm flexible stem	77.94	4.56
018	wireless microphone: dual receiver: handheld microphone: balanced and unbalanced output: 64 band UHF synthesizer controlled frequencies: phase locked loop circuitry	292.31	7.59
019	desktop microphone with gooseneck: dynamic, cardioid characteristic: push-to-talk switch, latching or non-latching: 1.00 m helix cable: mono plug	58.68	4.56
020	desktop microphone (push-to-talk): push-to-talk button with switching contact for activating chime at the amplifier: output for priority function . . .	132.74	6.07
021	desktop microphone (push-to-talk): automatic chime via microphone announcement button: power supply via the amplifier	160.19	9.23
022	desktop microphone: zone paging: start function/pause function for selectable announcements: adjustable line input for the connection of CD player or tape deck: LED display for transmission mode: automatic chime via microphone announcement button	280.94	15.19

W12 PUBLIC ADDRESS EQUIPMENT

LOUDSPEAKERS

Specification

Standard:

Comply with:

BS 6840-13: Sound system equipment. Listening tests on loudspeakers.

Item	Each	Rate A		Rate B
		1	2	3
		ADD for volume control		Any type
W12		£	£	£
Indoor loudspeaker: surface mounted: 70 / 100 V line:				
office type: direct radiating:				
023	not exceeding 4 W	31.50	12.52	13.82
024	4 to 8 W	42.48	12.52	15.16
corridor type: bi-directional radiating:				
025	not exceeding 4 W	52.57	12.52	13.82
026	4 to 8 W	78.13	12.52	15.16
		Rate A		Rate B
		1	2	
		£	£	
music quality:				
027	not exceeding 10 W	53.26	13.97	
028	10 to 20 W	66.58	16.61	
029	20 to 30 W	86.55	19.26	
030	30 to 60 W	111.27	21.90	
031	60 to 120 W	141.60	24.54	
column type:				
032	not exceeding 10 W	81.31	13.97	
033	10 to 20 W	99.50	16.61	
034	20 to 30 W	138.69	19.26	
035	30 to 40 W	162.81	21.90	
ceiling type:				
036	not exceeding 4 W	39.93	18.50	
037	4 to 8 W	47.03	21.14	
038	ADD for rear fire dome	13.37	2.64	

W12 PUBLIC ADDRESS EQUIPMENT

LOUDSPEAKERS - *continued*

Item		Rate A	Rate B
		1	2
W12	<i>Each</i>	£	£
Indoor / outdoor horn speaker: re-entrant type: surface mounted: 70 / 100 V line: mounting brackets:			
	circular flare:		
039	not exceeding 10 W	58.78	20.41
040	10 to 20 W	100.13	21.75
041	20 to 30 W	119.71	23.08
	rectangular flare:		
042	not exceeding 10 W	59.93	20.41
043	10 to 20 W	102.07	21.75
044	20 to 30 W	122.04	23.08
Weatherproof column loudspeaker:			
045	not exceeding 40 W	536.47	25.30
Horn speaker: re-entrant type: explosion protected: 20 W: 5 line tapplings: 100 V or 50 V line: mounting brackets: flameproof compression gland:			
046	Gas Group II B	320.27	106.31
047	Gas Group II C	369.02	115.64

W12 PUBLIC ADDRESS EQUIPMENT

AUDIO-FREQUENCY INDUCTION LOOP SYSTEMS

Specification:

Standard:

BS 7594: Code of Practice for audio-frequency induction-loop systems (AFILS).

Installation:

Install commission and set to work audio-frequency induction loop systems in accordance with BS 7594.

Rates for the following include

For providing a permanent notice giving instructions on the use of the system at the control point.

For providing signs in accordance with BS 7594 to indicate areas where an AFILS is installed and where AFILS reception is not satisfactory.

For verifying performance of AFILS by instrument measurements and providing complete record of commissioning measurements of performance.

Item		Rate A		Rate B	
		1		2	
		£		£	
W12	<i>Each</i>				
	Audio-frequency induction loop: amplifier: microphone: loop pad: mains plug: "T" sticker				
	loop listening field approximately 1.2 m ² : counter: amplifier:				
048	wall mounted	109.04		85.05	
049	free-standing	124.78		91.12	
	loop listening field approximately 50 m ² :				
050	tie/desk microphone	262.32		97.20	
051	omni-directional plated microphone	304.36		109.35	
	loop listening field approximately 120 m ² :				
052	waiting room: audio input for paging system	462.29		115.42	
053	large room: lectern or handheld microphone	617.99		121.50	
054	retail unit: lectern or handheld microphone	638.78		127.57	
055	health and fitness club: radio microphone	599.73		133.65	
056 to 100 Not used					

W12 PUBLIC ADDRESS EQUIPMENT

PUBLIC ADDRESS / SOUND AMPLIFICATION CABLES

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
W12		£	£	£	£
Audio cable: analog: polypropylene insulation: 22 AWG stranded tinned copper twisted pair conductors: drain wire: overall foil shield: PVC outer sheath:					
polypropylene insulated:					
101	1 pair: "Belden" type 8451	0.99	1.01	1.52	2.02
102	1 pair: "Belden" type 9451	0.52	1.01	1.52	2.02
PVC insulated:					
103	1 pair: "Belden" type 1503A	0.60	1.01	1.52	2.02
Audio cable: digital: cellular polyolefin insulation: stranded tinned copper twisted pair conductors: PVC outer sheath:					
104	22 AWG conductors: overall foil screen: tinned copper braid shield: 1 pair "Belden" type 1696A . . .	2.32	1.01	1.52	2.02
105	24 AWG conductors: overall foil shield: 1 pair "Belden" type 1800B	0.72	1.01	1.52	2.02
Audio snake cable: FEP insulated: 24 AWG stranded tinned copper twisted pair conductors: drain wire: individually shielded: overall shield: PVDF outer sheath:					
106	2 pair: "Belden" type 1509C	1.14	1.52	2.28	3.04
107	4 pair: "Belden" type 1510C	1.99	2.02	3.04	4.05
108	8 pair: "Belden" type 1512C	3.36	2.53	3.80	5.06
109	12 pair: "Belden" type 1513C	5.92	3.04	4.56	6.07
110	16 pair: "Belden" type 1514C	7.60	3.54	5.32	7.09
111	20 pair: "Belden" type 1515C	9.13	4.05	6.07	8.10
112	32 pair: "Belden" type 1518C	10.77	4.56	6.83	9.11

W12 PUBLIC ADDRESS EQUIPMENT

PUBLIC ADDRESS / SOUND AMPLIFICATION CABLES - *continued*

Item	Metre	Rate A		Rate B		
		1	2	3	4	5
		Un-screened conductor	Overall screened conductor	Laid or drawn	On tray	Fixed to any back-ground
		16 / 0.2mm	16 / 0.2mm			
W12		£	£	£	£	£
Audio multi-conductor cable: PVC insulated: tinned copper copper conductors: PVC outer sheath:						
113	2-core	0.43	0.89	1.27	1.90	2.53
114	3-core	0.53	0.98	1.52	2.28	3.04
115	4-core	0.62	1.17	1.77	2.66	3.54
116	6-core	0.92	1.64	2.02	3.04	4.05
117	12-core	2.27	2.40	2.28	3.42	4.56
118	18-core	3.63	3.24	2.53	3.80	5.06
119	25-core	5.37	3.96	2.78	4.18	5.57

Rate A	Rate B		
1	2	3	4
	Laid or drawn	On tray	Fixed to any back-ground
£	£	£	£

Metre

Speaker cable: figure 8 pattern: PVC insulation: stranded copper conductors

120	7/0.2 mm conductors	0.07	0.51	0.76	1.01
121	13/0.2 mm conductors	0.16	0.56	0.84	1.11
122	42/0.2 mm conductors	0.36	0.61	0.92	1.23
123	79/0.2 mm conductors	0.63	0.67	1.01	1.35

XLR TYPE CONNECTORS

Each

Rate A			Rate B
1	2	3	4
Number of ways			Any type
3	4	5	
£	£	£	£

XLR Type connector: metal shell:

124	cable mount plug	2.04	2.86	4.90	5.06
125	chassis mount plug	1.94	2.48	4.11	6.07
126	right angle plug	4.38	6.85	6.88	5.57
127	cable mount socket	2.55	4.19	5.88	5.06
128	chassis mount socket	2.93	4.09	5.99	6.07

W20: Radio / TV / CCTV

GENERALLY

Specification

Standard:

Comply with BS 6259: Code of practice for the design, planning, installation, testing and maintenance of sound systems.

Installation:

Install the system and its elements in accordance with the manufacturer's recommendations and BS 6259 where applicable.

Demonstrate that the system meets all specified requirements and provides quality of sound and vision reproduction as required.

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

Method of measurement

Measure the following separately:

- i. Cables and wiring.
- ii. Equipment testing.
- iii. Connecting cable ends into existing equipment or that fixed by others.

Cables in conduits, ducts, trunking, trays or the like:

Measure as the net length of the conduit, duct, trunking, tray etc. Otherwise measure as laid (but without allowance for sag) between the boxes of switchgear, fittings, accessories or the like. Make the following allowances:

- i. 0.30 metre on each cable entering fittings or accessories.
- ii. 0.60 metre on each cable entering or control gear.

Rates for the following include

Rate B:

For connecting cable ends and tails.

For demonstrating that the system meets all specified requirements.

AERIALS

Specification

Installation:

Install aerials in accordance with the of Aerial Industries (CIA): Code of practice for the installation of Terrestrial and Satellite TV Reception Systems.

AERIALS - continued

Item	Each	Rate A	Rate B	
		1	2	3
			Loft or wall mounted	Chimney mounted
W20		£	£	£
	High-Gain Digital television aerial: CAI approved: fixing to bracket			
001	minimum 13 dBi gain	14.38	68.34	101.75
002	minimum 16 dBi gain	35.44	68.34	101.75
	ADD for			
003	wall mounting bracket: T and K	6.99	33.41	-
004	chimney mounting bracket	7.00	-	57.71
005	double chimney lashing bracket	18.49	-	82.01
	mast			
006	not exceeding 1.00 m long	4.68	-	9.11
007	1.00 to 2.00 m long	8.79	-	12.15
008	2.00 to 3.00 m long	16.08	-	15.19
009	Satellite dish with twin LNB: 600mm Diameter: L arm type bracket	47.92	60.75	94.16

CLOSED CIRCUIT TELEVISION SYSTEMS
Specification

Standard:
BS EN 50132: Alarm systems. CCTV surveillance systems for use in security applications.

Installation:
Install CCTV systems in accordance with BS EN 50132.

Rates for the following include

For training the personnel responsible for operating the CCTV system.

	Each	Rate A	Rate B
		1	2
		£	£
	CCTV system: high resolution monitor: dedicated weatherproof IP56 camera: fitted lens: one way audio listen facility: cabling: fixing brackets		
010	140 mm monochrome monitor: 2 channel with auto sequential switching .	199.90	91.12
	ADD for		
011	additional camera indoor camera	136.90	30.37
012	additional camera: weatherproof IP56	193.51	30.37
013	300 mm monochrome monitor: 4 channel with auto sequential switching .	276.60	106.31
014	355 mm monochrome monitor: 4 channel with 4 simultaneous views	459.76	121.50
015	300 mm colour monitor: 4 channel with auto sequential switching	582.25	113.90
016	355 mm colour monitor: 4 channel with 4 simultaneous views	926.30	129.09
	ADD for		
017	additional camera: indoor camera	222.58	30.37
018	additional camera: weatherproof IP56	265.39	30.37

CLOSED CIRCUIT TELEVISION SYSTEMS - *continued*

		Rate A				Rate B
		1				2
		£				£
Item						
W20	Each					
CCTV system: 430 mm LCD TFT colour monitor: pre-installed hard drive: integral motion detectors: cabling: (cameras measured separately):						
019	4 channel	956.92				91.12
020	8 channel	1279.95				100.24
021	16 channel	1645.65				109.35
		Rate A				Rate B
		1	2	3	4	5
		Resolution: TV Lines				
		420 Lines	480 Lines	540 Lines	600 Lines	
		£	£	£	£	£
Each						
Camera: fitted lens: vandalproof and weatherproof metal case: IP67: sun/rain visor: cable management mounting bracket						
022	monochrome: 4 mm lens	30.48	-	-	-	53.16
digital colour:						
effective range: 10 m:						
023	4 mm lens	36.51	-	-	-	60.75
024	6 mm lens	34.07	-	-	-	60.75
effective range: 20 m:						
025	4 mm lens	-	46.26	-	-	60.75
026	6 mm lens	-	42.67	-	-	60.75
effective range: 30 m:						
027	auto iris 4-9 mm vari-focal lens	-	73.08	158.41	174.26	60.75
effective range: 40 m:						
028	auto iris 4-9 mm vari-focal lens	-	97.46	-	-	60.75
029	auto iris 9-22 mm vari-focal lens	-	-	182.79	-	60.75
Dome camera: fitted lens: 110 mm dome						
030	monochrome: internal	23.10	-	-	-	53.16
digital colour:						
031	internal	36.51	-	48.70	-	60.75
external: IP66: effective range:						
032	10 m: 4 mm lens	-	-	73.08	-	60.75
033	20 m: auto iris 4-9 mm vari-focal lens	-	-	97.46	-	60.75

CLOSED CIRCUIT TELEVISION SYSTEMS - *continued*

Item		Rate A	Rate B
		1	2
W20	<i>Each</i>	£	£
034	Covert camera: monochrome: PIR activated	54.86	45.56
035	Domestic camera: monochrome: SCART or RF connection to domestic TV/video: bracket: 20 m cable	28.59	37.97
	Dummy camera		
036	internal	18.77	22.78
037	external: weatherproof outdoor housing: power cable and junction box: flashing red LED: high visibility warning stickers: installation hardware . . .	40.74	33.41
	Extension cable: CCTV: including BNC connectors		
038	not exceeding 1.00 m	12.98	6.07
	<i>Metre</i>		
039	1.00 to 20.00 m	1.30	0.30
040	20.00 to 40.00 m	1.10	0.20
	<i>Each</i>		
041	coupler	5.88	4.56
042	CCTV "Warning" sign	14.48	7.59
	Monitor: TFT / LCD: digital colour:		
043	250 mm	121.84	19.74
044	300 mm	134.03	21.26
045	355 mm	146.22	22.78
046	380 mm	170.60	24.30
047	430 mm	194.98	25.82
048	480 mm	243.74	27.34
049	530 mm	292.50	28.86
	Sequence switcher		
050	2 camera input: 1 monitor output	32.07	16.71
051	4 camera input: 1 monitor output	71.65	19.74
052	4 camera input: 2 monitor output	126.44	22.78
053	8 camera input: 2 monitor output	149.21	28.86
	Time lapse recorder		
054	24 hour	228.76	37.97
055	960 hour	280.23	53.16

CLOSED CIRCUIT TELEVISION SYSTEMS - *continued*

Item		Rate A	Rate B
		1	2
W20	<i>Each</i>	£	£
	Digital video recorder: motion detection record function: USB for video backup:		
056	4-channel	103.44	37.97
	remote access via mobile phone: USB flash drive and network backup:		
057	4-channel	160.94	45.56
058	8-channel: remote control: extended playing time	287.50	53.16
059	16-channel: remote control: extended playing time	327.75	91.12
060	16-channel: DVD-RW: remote control: extended playing time	488.75	98.72

STANDARD CO-AXIAL CABLES

GENERALLY

Specification*Standard:*

Comply with:

BS EN 50117: Co-axial cables.

BS EN 60728-11: Cable networks for television
signals and interactive services.

BS EN 61196-2: Radio-frequency cables.

TELEVISION AERIAL DOWNLEADS / VIDEO CABLES

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
		£	£	£	£
Co-axial television download: cellular polyethylene insulated: stranded copper conductor: copper braid: PVC outer sheath:					
061	URM 202	0.29	1.01	1.52	2.02
062	URM 203	0.48	1.27	1.90	2.53
Double screened co-axial video cable: solid polyethylene insulated: copper conductor: double copper braid screen: PVC outer sheath					
063	Type 1: 7.5 mm nominal diameter	1.92	1.52	2.28	3.04
064	Type 2: 6.5 mm nominal diameter	1.21	1.27	1.90	2.53
065	Type 3: 8.0 mm nominal diameter	1.73	1.77	2.66	3.54
Double screened co-axial satellite TV cable: air spaced polyethylene dielectric: copper conductor: double screen copper tape and braid: PVC outer sheath					
066	Type CT100: drop/subscriber feeder cable	0.66	1.27	1.90	2.53
067	Type CT125: riser/backbone cable	0.81	1.52	2.28	3.04
068	Type CT125RBS: riser/backbone: direct burial	0.98	1.77	2.66	3.54
069	Type CT167: trunk/distribution cable	1.27	2.02	3.04	4.05
070	Type CT167: trunk/distribution cable: direct burial ...	1.67	2.28	3.42	4.56

TELEVISION AERIAL SOCKETS

Specification

Standard:

Comply with BS 3041 Radio frequency

	Each	Rate A		Rate B
		1	2	3
		Direct connected	Isolated: network systems	Any type
		£	£	£
Co-axial television socket outlet:				
071	single	6.74	11.65	7.29
072	double	9.44	16.36	9.11

W30: Data transmission

GENERALLY - CABLES AND WIRING

Specification

Standard

Comply with:

BS EN 50173: Information technology generic cabling systems.

BS EN 50561-1: Power line communication apparatus used in low voltage installations.

Radio disturbance characteristics.

BS EN 60603-7: Connectors for electronic equipment.

Materials

Cables to be delivered to site with seals intact, labelled with manufacturer's name, size, description, BS number, classification, length, grade and date of manufacture.

Installation

Generally:

Use and install cables only as directed in the appropriate standard or as directed by the manufacturer in writing. Lay cables in one length unless otherwise indicated. Obtain permission from PM for all through joints, and where overall length requirement exceeds practical drum size.

Use cables with "harmonised" cable core colours in accordance with BS 7671.

LSF cables:

Install LSF cables in accordance with manufacturer's instructions. Ensure oversheaths are not damaged by abrasion or scuffing.

In conduit and trunking:

Install cables so that they are orderly and capable of being withdrawn. Allow for full range of movement at building construction movement joints.

On rack and tray:

Place cables side by side or as indicated. Fix using cleats or cable ties so that any cable may be individually removed.

On surface:

Dress cables flat, free from twists, kinks and strain, and align parallel to building elements. When glands and clamps are not required, take sheathing of cables into accessory boxes and equipment and protect against abrasion using grommets or similar sharp edge protection.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.30.*

Rate E: For re-use - *multiply by 0.75.*

Definition of Terms

Laid:

In trench, open duct or trunking.

Drawn:

Into conduit, enclosed duct or trunking.

GENERALLY - CABLES AND WIRING - *continued*

Method of Measurement

Cables in conduits, ducts, trunking, trays or the like:

Measure as the net length of the conduit, duct, trunking, tray etc. Otherwise measure as laid (but without allowance for sag) between the boxes of switchgear, fittings, accessories or the like. Make the following allowances:

- i. 0.30 metre on each cable entering fittings or accessories.
- ii. 0.60 metre on each cable entering or control gear.

Cleats and hangers, cable terminations and cable jointing:

Measure separately.

Connecting cable ends and tails:

Are included elsewhere within other Items.

Rates for the following include

Rate A:

For any costs in connection with hiring cable drums and disposal.

Rate B:

For baring conductors.

For supplying components and materials for and fixing the following:

- i. capping ends.
- ii. cable identification (e.g. adhesive coloured bands, laminated plastic discs or the like).
- iii. cable core identification (e.g. plastic stretch or shrink ferrules).
- iv. trefoil bonding for single-core cables.
- v. cable saddles, clips, ties or the like.
- vi. cleats where cable is described as fixed to any background.
- vii. temporary and permanent duct seals.

For providing draw wires, draw cables or the like and drawing cables / wires into ducts, conduits or trunking where cable is described as 'drawn'.

For removing and replacing covers, lids and other means of access where cable / wiring is installed in ducts, conduits, trunking or trays.

For drawing cable / wiring into new or existing conduits, ducts or trunking (including those containing existing cables) where cables are described as 'drawn'.

For installing cables in service ducts.

For site insulation and continuity testing on alarm, control, communication and monitoring cables as directed.

Rates D and E:

For cleaning, coiling, labelling cable / wiring on drums provided (Rate E).

For removing cable / wiring where concealed but accessible.

W30 DATA TRANSMISSION

STANDARD CO-AXIAL CABLES

GENERALLY

Specification

Standard:

Comply with:

BS EN 50117: Co-axial cables.

BS EN 61196-2: Radio-frequency cables.

CO-AXIAL AND TWIN AXIAL CABLES

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
W30		£	£	£	£
	50 Ohm co-axial cable: solid polyethylene insulation braided shield:				
001	RG58C/U: PVC sheath	0.53	1.52	2.28	3.34
002	RG58C/U: flame retardant halogen free sheath	0.93	1.77	2.66	3.86
	75 Ohm co-axial cable: solid polyethylene insulation braided shield:				
003	RG11A/U: PVC sheath	1.67	2.02	3.04	4.34
004	RG6A/U: PVC sheath	2.57	2.02	3.04	4.34
005	RG59B/U: PVC sheath	0.52	1.52	2.28	3.34
006	RG59B/U: flame retardant halogen free sheath	0.58	1.77	2.66	3.86
007	RG59B/U: twin: PVC sheath	1.79	3.04	5.32	7.90
008	RG59: miniature: PVC sheath	0.53	1.27	1.90	2.82
	93 Ohm co-axial cable: braided shield: PVC outer sheath:				
009	RG62A/U: PVC sheath	0.59	1.77	2.66	3.86
010	RG62A/U: flame retardant halogen free sheath	0.63	2.02	3.04	4.34
011	RG62A/U: PVC sheath: direct burial	2.26	2.53	3.80	5.38
012	RG62: miniature: PVC sheath	0.68	1.27	1.90	2.82

W30 DATA TRANSMISSION

CO-AXIAL AND TWIN AXIAL CABLES - *continued*

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
W30		£	£	£	£
78 Ohm twin-axial cable: braided shield: PVC outer sheath:					
013	"Belden" type 9272: 20 AWG conductor	1.33	2.53	3.80	5.38
014	"Belden" type 9463: 20 AWG conductor	1.56	2.53	3.80	5.38
015	"Belden LocalTalk" type 9999: 22 AWG conductor	1.23	2.02	3.04	4.34
100 Ohm twin-axial cable: braided shield: PVC outer sheath:					
016	"Belden" type 9207: 20 AWG conductor	2.78	3.04	4.56	6.38
017	"Belden" type 9815: 20 AWG conductor: direct burial	2.27	3.54	5.32	7.38

CO-AXIAL CABLES: ETHERNET

	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
		£	£	£	£
Ethernet cable: cellular polyethylene insulation: stranded tinned copper conductors: overall foil screen: tinned copper braid shield: PVC outer sheath					
018	trunk co-axial cable: "Belden" type 9880	3.94	3.54	5.32	7.38
019	thin co-axial cable: "Belden" type 9907	1.65	1.52	2.28	3.34
020	dual thin co-axial cable: "Belden" type 080-1020	1.05	2.02	3.04	4.34

W30 DATA TRANSMISSION

OPTICAL FIBRE CABLES

GENERALLY

Specification

Standard:

Comply with:

BS EN 60794: Optical fibre cables;

FIBRE OPTIC CABLE

Item	Metre	Rate A				Rate B		
		1	2	3	4	5	6	7
		Designation:				Laid or	On	Fixed to
		OM1	OM2	OM3	OS1	drawn	tray	any back-ground
W30		62.5/125	50/125	50/125	9/125			
		£	£	£	£	£	£	£
Fibre optic cable: internal / external: loose tube: gel filled: crush resistant coating: low smoke zero halogen sheath								
021	4 fibres	1.30	1.01	1.69	0.92	4.30	6.45	8.90
022	8 fibres	1.93	1.45	2.56	1.11	4.81	7.21	9.93
023	12 fibres	2.27	1.93	3.57	1.35	5.32	7.97	10.93
024	16 fibres	3.57	2.56	4.73	2.17	5.82	8.73	11.94
025	24 fibres	5.02	3.28	6.71	2.42	6.35	9.52	13.30
026	48 fibres	10.34	8.26	-	-	7.87	11.03	14.52
Fibre optic cable: armoured: loose tube: gel filled: crush resistant coating: low smoke zero halogen sheath								
027	4 fibres	5.12	-	5.07	4.11	4.30	6.45	8.90
028	8 fibres	-	-	2.56	1.11	4.81	7.21	9.93
029	12 fibres	-	-	3.57	1.35	5.32	7.97	10.93
030	16 fibres	-	5.36	4.73	2.17	5.82	8.73	11.94
031	24 fibres	-	-	6.71	2.42	6.35	9.52	13.30
Fibre optic cable: internal / external: tight buffered: crush resistant coating: low smoke zero halogen sheath								
032	4 fibres	1.01	1.11	2.13	1.06	4.56	6.83	9.42
033	8 fibres	2.17	1.74	2.75	1.40	5.06	7.59	10.42
034	12 fibres	2.51	2.46	3.57	2.13	5.57	8.35	11.45
035	16 fibres	5.70	3.09	5.55	2.90	6.07	9.10	12.48
036	24 fibres	4.69	4.30	7.92	3.09	6.56	9.83	13.52

W30 DATA TRANSMISSION

FIBRE OPTIC CABLE - *continued*

Item		Rate A						Rate B		
		1	2	3	4	5	6	7	8	9
		Type						Laid or drawn	On tray	Fixed to any back- ground
		ST-ST	ST-SC	SC-SC	LC-LC	LC-ST	LC-SC			
W30	<i>Each</i>	£	£	£	£	£	£	£	£	£
	Patch lead: fibre optic cable: multimode: duplex low smoke zero halogen sheath									
	OM1 or OM2									
037	1.00 m	4.25	4.25	4.25	7.00	5.59	5.95	1.52	2.28	3.34
038	2.00 m	4.66	4.66	4.66	7.43	6.01	6.36	1.82	2.73	3.95
039	3.00 m	5.04	5.06	5.06	7.84	6.45	6.65	2.13	3.19	4.56
040	5.00 m	5.89	5.89	5.89	8.31	6.48	7.39	2.73	4.10	5.77
041	10.00 m	7.98	7.98	7.98	10.73	9.35	9.35	4.25	6.38	8.81
042	15.00 m	10.07	10.07	10.07	12.80	11.42	11.42	5.77	8.66	11.85
043	20.00 m	12.15	12.15	12.15	14.27	13.49	13.49	7.29	10.93	14.88
	OM3									
044	1.00 m	5.33	5.63	5.63	8.60	8.14	8.14	1.52	2.28	3.34
045	2.00 m	5.99	6.30	6.30	9.25	8.62	8.62	1.82	2.73	3.95
046	3.00 m	6.65	6.97	6.97	9.93	9.30	9.30	2.13	3.19	4.56
047	5.00 m	7.98	8.30	8.30	11.27	10.90	10.90	2.73	4.10	5.77
048	10.00 m	11.31	11.62	11.62	14.59	12.03	12.03	4.25	6.38	8.81
049	15.00 m	14.65	14.95	14.95	17.92	15.29	15.29	5.77	8.66	11.85
050	20.00 m	17.33	17.51	17.51	21.25	18.61	18.61	7.29	10.93	14.88
	OS1									
051	1.00 m	6.06	6.06	6.06	6.73	8.16	8.15	1.52	2.28	3.34
052	2.00 m	6.51	6.51	6.51	7.06	6.36	8.60	1.82	2.73	3.95
053	3.00 m	6.94	6.94	6.94	7.40	6.68	9.04	2.13	3.19	4.56
054	5.00 m	7.81	7.81	7.81	8.09	7.39	9.91	2.73	4.10	5.77
055	10.00 m	10.02	10.02	10.02	14.31	12.12	12.14	4.25	6.38	8.81
056	15.00 m	12.26	12.26	12.26	16.58	14.32	14.36	5.77	8.66	11.85
057	20.00 m	14.48	14.48	14.48	18.80	16.63	16.60	7.29	10.93	14.88

Rate A					Rate B
1	2	3	4		5
Type					Any type
ST	SC	SC duplex	LC duplex		
£	£	£	£		£

Each

Patch panel: fibre optic: loaded: 19" wide: suitable
for standard cabinet

058	4 way	30.19	44.92	36.23	47.09	61.26
059	8 way	37.73	51.69	43.47	52.53	109.85
060	12 way	42.26	55.04	47.09	57.96	158.45
061	16 way	45.28	65.18	50.72	78.25	207.05
062	24 way	52.83	78.67	63.39	83.32	304.25

W30 DATA TRANSMISSION

INFORMATION TECHNOLOGY CABLES

STRUCTURED CABLING: CATEGORY 5 AND 6

Item		Rate A				Rate B		
		1	2	3	4	5	6	7
		Unshielded (UTP)		Foil shielded (FTP)		Laid or drawn	On tray	Fixed to any back-ground
		PVC	LS0H	PVC	LS0H			
W30	Metre	£	£	£	£	£	£	
Network cable: twisted pair: polyolefin insulated: 24 AWG conductors: PVC outer sheath:								
Category 5e								
063	stranded conductors	0.57	0.64	0.86	0.93	1.52	2.28	3.34
064	solid conductors	0.36	0.42	0.64	0.71	1.52	2.28	3.34
065	solid conductors: external	0.57	-	-	-	1.52	2.28	3.34
Category 6								
066	stranded conductors	0.71	0.78	1.00	1.07	1.52	2.28	3.34
067	solid conductors	0.50	0.57	0.78	0.86	1.52	2.28	3.34
068	solid conductors: external	1.28	-	-	-	1.52	2.28	3.34
Category 6A								
069	stranded conductors	0.78	0.86	1.10	1.17	1.52	2.28	3.34
070	solid conductors	0.54	0.63	0.86	0.94	1.52	2.28	3.34
071	solid conductors: external	-	-	1.28	1.96	1.52	2.28	3.34
	Each	Rate A			Rate B			
		1	2	3	4	5	6	
		Type	Type		Laid or drawn	On tray	Fixed to any back-ground	
		Cat 5e	Cat 6	Cat 6A				
		£	£	£	£	£	£	
Patch lead: twisted pair: polyolefin insulated:								
24 AWG conductors: PVC outer sheath: RJ45:								
072	0.50 m	0.57	1.22	3.79	1.37	2.05	3.04	
073	1.00 m	0.72	1.40	4.65	1.52	2.28	3.34	
074	2.00 m	0.91	1.78	5.64	1.82	2.73	3.95	
075	3.00 m	1.09	2.14	6.63	2.13	3.19	4.56	
076	5.00 m	1.45	2.86	8.61	2.73	4.10	5.77	
077	10.00 m	2.35	4.67	13.56	4.25	6.38	8.81	
078	15.00 m	3.26	6.48	18.51	5.77	8.66	11.85	
079	20.00 m	4.17	8.30	23.46	7.29	10.93	14.88	

W30 DATA TRANSMISSION

STRUCTURED CABLING: CATEGORY 5 AND 6 - *continued*

Item		Rate A			Rate B
		1	2	3	4
		Type	Type		Any
		Cat 5e	Cat 6	Cat 6A	type
W30	Each	£	£	£	£
	Patch panel: 19" wide: suitable for standard cabinet				
080	16 way	30.19	42.26	46.49	93.65
081	24 way	45.28	63.39	69.73	134.15
082	32 way	60.38	84.53	92.98	174.65
083	48 way	90.56	126.79	139.47	255.65

DATA CABLING: PAIRED CABLES

		Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
		£	£	£	£
	<i>Metre</i>				
	RS-232 cable: low capacitance: cellular polyolefin insulation: 24 AWG stranded tinned copper conductors: overall foil screen: tinned copper braid shield: PVC outer sheath				
084	2 pairs: "Belden" type 8102	3.24	2.27	3.42	4.86
085	3 pairs: "Belden" type 8103	3.27	2.53	3.80	5.38
086	4 pairs: "Belden" type 8104	4.72	2.78	4.18	5.86
087	5 pairs: "Belden" type 8105	4.70	3.04	4.56	6.38
088	6 pairs: "Belden" type 8106	4.97	3.54	5.32	7.38
089	12 pairs: "Belden" type 8112	10.17	4.56	6.83	9.42
	RS-232 cable: high temperature: heat resistant insulation: 20 AWG stranded tinned copper conductors: overall foil shield: heat resistant outer sheath				
090	1 pairs: "Belden" type 9501	0.86	2.01	3.04	4.37
091	2 pairs: "Belden" type 9502	1.30	2.27	3.42	4.86
092	3 pairs: "Belden" type 9503	1.57	2.53	3.80	5.38
093	4 pairs: "Belden" type 9504	1.94	2.78	4.18	5.86
094	5 pairs: "Belden" type 9505	2.26	3.04	4.56	6.38
095	6 pairs: "Belden" type 9506	2.40	3.30	4.94	6.89
096	7 pairs: "Belden" type 9507	2.80	3.55	5.32	7.41
097	8 pairs: "Belden" type 9508	2.85	3.81	5.70	7.90
098	9 pairs: "Belden" type 9509	3.90	4.07	6.07	8.41
099	15 pairs: "Belden" type 9515	6.68	4.33	6.45	8.93
100	19 pairs: "Belden" type 9519	5.51	4.59	6.83	9.45

W30 DATA TRANSMISSION

DATA CABLING: PAIRED CABLES - continued

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
W30		£	£	£	£
RS-485 cable: low capacitance: cellular polyolefin insulation: 28 AWG stranded tinned copper conductors: overall foil screen: tinned copper braid shield: PVC outer sheath					
101	2 pairs: "Belden" type 8132	3.18	2.27	3.42	4.86
102	3 pairs: "Belden" type 8133	3.48	2.53	3.80	5.38
103	4 pairs: "Belden" type 8134	4.77	2.78	4.18	5.86
104	8 pairs: "Belden" type 8138	8.11	3.04	4.56	6.38
RS-485 cable: low capacitance: polyethylene insulation: 24 AWG stranded tinned copper conductors: overall foil screen: tinned copper braid shield: PVC outer sheath					
105	1 pairs: "Belden" type 9841	2.90	2.01	3.04	4.37
106	2 pairs: "Belden" type 9842	3.92	2.27	3.42	4.86
RS-422 cable: low capacitance: cellular polyolefin insulation: 24 AWG stranded tinned copper conductors: pairs individually foil shielded: overall foil screen: PVC outer sheath					
107	2 pairs: "Belden" type 8162	4.13	2.27	3.42	4.86
108	3 pairs: "Belden" type 8163	6.01	2.53	3.80	5.38
109	4 pairs: "Belden" type 8164	7.78	2.78	4.18	5.86
RS-422 cable: low capacitance: cellular polyolefin insulation: 24 AWG stranded tinned copper conductors: pairs individually foil shielded: PVC outer sheath					
110	2 pairs: "Belden" type 9729	3.53	2.27	3.42	4.86
Audio, control and instrumentation cable: PVC insulation: 20 or 22 AWG stranded tinned copper conductors: unshielded: PVC outer sheath					
111	1 pairs: "Belden" type 8205	0.72	2.01	3.04	4.37
112	2 pairs: "Belden" type 8442	0.64	2.27	3.42	4.86
113	4 pairs: "Belden" type 8444	1.21	2.78	4.18	5.86

W30 DATA TRANSMISSION

DATA CABLING: PAIRED CABLES - continued

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
W30		£	£	£	£
	Computer cable: polyethylene insulation: 22 AWG stranded copper conductors: overall foil screen: tinned copper braid shield: PVC outer sheath				
114	2 pairs: bare copper conductors: "Belden" type 9696	3.92	2.27	3.42	4.86
115	2 pairs: tinned copper conductors: "Belden" type 9855 . . .	3.13	2.27	3.42	4.86
	Audio, control and instrumentation cable: polypropylene insulation: 22 AWG stranded tinned copper conductors: pairs individually foil shielded: PVC outer sheath				
116	2 pairs: "Belden" type 8723	1.35	1.52	2.28	3.34
117	3 pairs: "Belden" type 8777	2.17	2.27	3.42	4.86
118	6 pairs: "Belden" type 8778	3.66	2.53	3.80	5.38
119	9 pairs: "Belden" type 8774	13.34	2.78	4.18	5.86
120	11 pairs: "Belden" type 8775	15.12	3.04	4.56	6.38

W30 DATA TRANSMISSION

DATA CABLING: MULTI-CONDUCTOR CABLES

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
W30		£	£	£	£
RS-232 cable: semi-rigid PVC insulation: 24 AWG stranded tinned copper conductors: overall foil screen: PVC outer sheath					
121	3 cores: "Belden" type 9533	0.77	2.53	3.80	5.38
122	4 cores: "Belden" type 9534	0.93	2.78	4.18	5.86
123	5 cores: "Belden" type 9535	1.03	3.04	4.56	6.38
124	6 cores: "Belden" type 9536	1.07	3.30	4.94	6.89
125	7 cores: "Belden" type 9537	1.41	3.55	5.32	7.41
126	8 cores: "Belden" type 9538	2.14	3.81	5.70	7.90
127	9 cores: "Belden" type 9539	1.70	4.07	6.07	8.41
128	10 cores: "Belden" type 9540	1.84	4.33	6.45	8.93
129	15 cores: "Belden" type 9541	1.93	4.59	6.83	9.45
Audio, control and instrumentation cable: polyethylene insulation: 22 AWG stranded tinned copper conductors: overall foil shielded: PVC outer sheath					
130	3 cores: "Belden" type 8771	2.03	2.53	3.80	5.38

LOCAL AREA NETWORK CABLES

	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
		£	£	£	£
Ethernet transceiver cable: polypropylene insulation: stranded tinned conductors: twisted pairs: overall polyester isolation tape: tinned copper braid shield: PVC outer sheath					
131	low loss: "Belden" type 9901: 3 data pairs: 1 power pair . . .	9.89	4.05	6.07	8.41
132	thin: "Belden" type 9903: 3 data pairs: 1 power pair	4.81	2.53	3.80	5.38
IBM type cable: cellular polyethylene insulation: 22 AWG solid bare copper conductors: pairs individually foil shielded: overall tinned copper braid: PVC outer sheath					
133	Type 1 cable: "Belden" type 1634A	1.52	1.27	1.90	2.82
134	Type 1A cable: "Belden" type 9688	1.86	1.27	1.90	2.82
135	Type 2A cable: "Belden" type 9689 polyolefin insulation:	2.73	1.27	1.90	2.82
IBM type cable: cellular polyolefin insulation: 26 AWG stranded bare copper conductors: foil shielded twisted pairs: overall tinned copper braid: PVC outer sheath					
136	Type 6A cable: "Belden" type 1215A	3.26	1.14	1.71	2.58

W30 DATA TRANSMISSION

CONNECTORS

D TYPE MULTIPIN CONNECTORS:

Item		Rate A					Rate B
		1	2	3	4	5	6
		Number of ways					Any
		9	15	25	37	50	type
W30	Each	£	£	£	£	£	£
	"D" Type connector: metal shell: solid turned contacts:						
201	solder plug	1.56	2.31	2.44	3.33	3.37	9.11
202	solder socket	1.44	2.16	2.50	4.05	4.53	9.11
203	crimp plug	1.58	1.87	3.76	4.30	3.44	4.56
204	crimp socket	1.88	1.30	4.69	5.26	5.58	4.56
	ADD for						
205	plug contacts	0.08	0.08	0.08	0.08	0.08	0.61
206	socket contacts	0.12	0.12	0.12	0.12	0.12	0.61
207	thermoplastic cover: screwed assembly: metal cable clamp: screw locks	2.63	2.69	2.75	2.90	3.09	1.52

UNIVERSAL DATA CONNECTORS

	Each	Rate A	Rate B
		1	2
		£	£
	Token ring system:		
208	standard: strain relief: locking bar	10.08	3.04
209	quick assembly	7.37	2.28
210	enhanced	9.82	4.56

BNC TYPE CO-AXIAL CONNECTORS

	Each	Rate A		Rate B
		1	2	3
		50 Ohm	75 Ohm	Any type
		£	£	£
	"BNC" Type co-axial connector: metal shell:			
	crimp plug:			
211	straight	1.73	1.99	2.02
212	insulated straight	2.20	-	2.53
213	right angle	4.06	4.72	3.04
	crimp socket:			
214	in-line	2.31	2.89	2.02
215	panel mounting	2.70	3.36	2.53
216	insulated	3.95	3.94	2.53
217	right angle	5.68	4.72	3.04

W30 DATA TRANSMISSION

BNC TYPE CO-AXIAL CONNECTORS - *continued*

		Rate A		Rate B
		1	2	3
Item		50 Ohm	75 Ohm	Any type
W30	Each	£	£	£
"BNC" Type co-axial connector: metal shell - <i>continued</i>				
	solder plug:			
218	straight	1.88	-	5.06
219	straight RG59/62	-	2.20	5.06
220	straight RG6/U	-	6.04	5.06
221	right angle	4.89	-	6.07
	solder socket:			
222	insulated	2.29	1.84	5.06
	adaptor:			
223	line connector	3.88	4.14	1.52
224	panel mounting	5.81	5.88	1.52
225	insulated	5.66	6.19	1.52
226	"T" female/male/female	5.35	5.68	2.02
227	"Y" female/male/female	11.48	-	2.02
	terminator:			
228	standard	3.21	3.38	1.52
229	insulating	4.36	-	1.52
230	through	12.87	-	1.52

TWIN-AXIAL CONNECTORS

		Rate A	Rate B
		1	2
<i>Each</i>		£	£
Twin-axial connector: metal shell:			
231	crimp plug	9.42	5.06
232	solder plug	9.84	7.59
233	solder plug: insulating	9.84	8.10
234	solder socket: panel mounting	7.49	8.61
adaptor:			
235	line connector	10.03	1.52
236	bulkhead mounting	10.81	1.52
237	"T" female/female/female	12.99	2.02
238	"T" insulated female/female/female	12.99	2.02
239	"T" insulated female/male/female	13.44	2.02

W30 DATA TRANSMISSION

N-SERIES ETHERNET CONNECTORS

Item		Rate A		Rate B	
		1		2	
		£		£	
W30	<i>Each</i>				
	N-series connector: metal shell:				
240	crimp plug	4.19		3.54	
241	crimp plug: elbow	12.32		4.05	
242	crimp socket	3.88		3.54	
243	solder plug	4.66		6.33	
244	adaptor	7.50		1.52	
245	adaptor: BNC	7.55		1.52	
246	adaptor: "T"	12.12		2.02	
247	terminator	8.51		2.02	

INFORMATION TECHNOLOGY WALLPLATE CONNECTION SYSTEMS

		Rate A			Rate B	
		1	2	3	4	
		Number of ways			Any	
		9	15	25	type	
		£	£	£	£	
	<i>Each</i>					
	Wallplate: "D" type:					
	fitted connectors:					
248	single: solder	6.47	7.06	8.17	8.10	
249	double: solder	9.38	10.58	12.82	10.12	
250	single: IDC	-	-	12.41	9.11	
251	double: IDC	-	-	22.95	11.14	

		Rate A		Rate B	
		1	2	3	
		50 Ohm	75 Ohm	Any type	
		£	£	£	
	<i>Each</i>				
	Wallplate: "BNC" type co-axial:				
	fitted connectors:				
252	single	6.58	5.39	6.07	
253	double	7.98	7.22	7.59	

		Rate A			Rate B	
		1	2	3	4	
		Type "D" or "BNC"			Any	
		Single	Double	Blank	type	
		£	£	£	£	
	<i>Each</i>					
254	Wallplate: hole cut outs: without connectors	2.55	2.70	1.62	2.53	

W30 DATA TRANSMISSION

INFORMATION TECHNOLOGY WALLPLATE CONNECTION SYSTEMS - continued

Item		Rate A		Rate B
		1	2	3
		Type		Any type
		Euro	LJ6C	
W30	Each	£	£	£
Modular wallplate: to receive modules:				
255	one gang: for one or two modules	1.75	2.15	2.53
256	two gang: for four modules	3.38	4.14	2.53
257	three gang: for six modules	4.23	-	2.53
datacom modules: IDC connection:				
258	RJ11/12	9.44	9.44	4.86
259	RJ45 Category 5E	9.10	9.10	5.57
260	RJ45 Category 6	10.16	10.57	6.07
261	RJ45 Category 6A.	11.01	11.45	6.58
datacom modules: BNC connection:				
262	50 Ohm crimp RG58	5.74	-	3.87
263	75 Ohm crimp RG59/62	6.03	-	4.05
socket modules: blank:				
264	quarter size	0.51	0.50	2.02
265	half size	0.65	0.59	2.28
266	full size	0.77	0.75	2.53

		Rate A				Rate B
		1	2	3	4	5
		Fibre connectors/adaptors				Any type
		ST	SC	LC	FC	
	Each	£	£	£	£	£
Fibre connector						
267	singlemode	1.67	1.67	4.99	1.97	10.12
268	multimode	1.21	1.26	1.70	-	10.12
Fibre adaptor						
269	singlemode	1.21	-	-	1.21	1.52
270	singlemode: simplex	-	1.21	-	-	1.52
271	singlemode: duplex	-	1.98	3.10	-	1.52
272	singlemode: quad	-	-	2.42	-	1.52
273	multimode	-	-	-	1.21	1.52
274	multimode: simplex	0.95	0.95	-	-	1.52
275	multimode: duplex	-	1.61	2.79	-	1.52
276	multimode: quad	-	-	2.42	-	1.52

W30 DATA TRANSMISSION

CONNECTIONS TO EQUIPMENT (EXISTING OR FIXED BY OTHERS)

Method of Measurement

Measure where connections are made to existing equipment or to equipment fixed by others. Do not measure where re-fixing equipment (Rate B) following removal for re-use (Rate E).

		Rate B
		1
		£
<i>Each</i>		
Connection of cable: per way: type:		
277	co-axial.	3.95
278	stranded conductor.	0.61
279	5E.	5.57
280	6.	6.07
281	6A.	6.58
282	Fibre.	10.12

283 to 300 Not used

W30 DATA TRANSMISSION

CABINETS

DATA CABINETS

Item		Rate A				Rate B
		1	2	3	4	5
		Cabinet: size				Any type
		600 x 600 mm	600 x 800 mm	800 x 600 mm	800 x 800 mm	
W30	Each	£	£	£	£	£
	Cabinet: data: floor standing: enclosed glass front door: lockable rear metal door: 19" adjustable mounting profiles: cable access holes with gland plates: earth bonding kit:					
301	12U	304.39	353.85	-	-	98.41
302	18U	336.76	397.61	-	-	102.06
303	27U	384.27	397.61	445.17	466.08	107.53
304	33U	-	-	-	535.41	111.17
305	39U	450.87	-	544.09	561.21	114.82
306	42U	450.87	469.89	544.09	561.21	116.64
307	45U	469.90	488.92	566.92	584.04	118.46
308	47U	469.90	488.92	566.92	584.04	119.68
309	ADD for mesh front door upgrade	36.23	36.23	36.23	36.23	-

		Rate A		Rate B
		1	2	3
		Shelf: width		Any type
		450 mm	600 mm	
	Each	£	£	£
	Shelf			
310	fixed: vented: 50 kg		21.02	16.80
311	fixed: vented: 100 kg		98.82	99.57
312	telescopic		41.07	91.77

SERVER CABINETS

		Rate A		Rate B
		1	2	3
		Cabinet: size		Any type
		600 x 1000 mm	800 x 1000 mm	
	Each	£	£	£
	Cabinet: server: floor standing: enclosed glass front door: lockable rear metal door: 19" adjustable mounting profiles: cable access holes with gland plates: earth bonding kit:			
313	27U	538.58	596.29	122.71
314	39U	570.65	723.29	130.00
315	42U	596.29	730.94	131.82
316	45U	644.39	740.56	133.65
317	47U	644.39	740.56	134.86
318	ADD for mesh front door upgrade	36.23	36.23	-

W30 DATA TRANSMISSION

SERVER CABINETS - continued

Item		Rate A		Rate B
		1	2	3
		Cabinet: size		Any type
		600 x 1000 mm	800 x 1000 mm	
W30	Each	£	£	£
	Cabinet: server - <i>continued</i>			
	shelf			
319	fixed: vented: 50 kg	16.80	41.07	10.63
320	fixed: vented: 100 kg	99.57	91.77	11.39
321	telescopic	91.77	129.07	12.15
	plinth			
322	with opening stabilising arm	168.01	191.80	15.19
323	with fixed stabilising plate	126.79	138.86	18.22

WALL MOUNTED CABINETS

		Rate A		Rate B
		1	2	3
		Cabinet: depth		Any type
		450 mm	600 mm	
	Each	£	£	£
	Cabinet: wall mounted: lockable perspex front door in steel surround: 19" adjustable mounting profiles: cable access holes with gland plates: earth bonding kit:			
324	6U	93.15	-	94.77
325	9U	101.78	138.86	96.59
326	12U	128.96	156.98	98.41
327	15U	119.54	181.13	100.24
328	18U	134.03	199.24	102.06

W30 DATA TRANSMISSION

CABINETS: ACCESSORIES

Item		Rate A			Rate B
		1	2	3	4
		Fan tray:			Any type
		2-way	3-way	4-way	
W30	Each	£	£	£	£

Fan tray: roof or rack mounted: suitable for floor standing or wall cabinets: 3 m mains lead:

329	standard fan	70.40	83.20	89.60	12.15
330	high speed fan	-	-	138.23	12.76

		Rate A				Rate B
		1	2	3	4	5
		Power distribution units:				Any type
		2 to 6-way	8-way	10-way	12-way	
	Each	£	£	£	£	£
	Power distribution unit: 3m input lead: terminated with BS1363 plug fused at 13A					
331	horizontal	32.37	-	-	-	10.63
332	horizontal: with surge protection	42.26	-	-	-	10.93
333	vertical	35.22	49.13	39.47	41.80	11.24
334	vertical: with surge protection	-	49.13	51.09	58.06	11.54

		Rate A			Rate B
		1	2	3	4
		Fan tray:			Any type
		1U 200 mm	1U 300 mm	2U 400 mm	
	Each	£	£	£	£
335	Cantilever shelf	20.70	22.28	23.41	9.11

W40: Access control

GENERALLY

Specification

Standard:

Comply with:

BS EN 60730-2-12: Automatic electrical controls for household and similar use. Particular requirements for electrically operated door locks.

BS EN 60839-11-1: Alarm and electronic security systems. Electronic access control systems. System and component requirements.

BS EN 62638-1: Audio/video, information and communication equipment. Safety requirements.

Installation:

Install, commission and set to work equipment in accordance with manufacturer's recommendations.

Method of measurement

Measure connecting cable ends into existing equipment or that fixed by others separately.

Rates for the following include

Rate A:

For supplying in kit form including all wiring.

Rate B:

For connecting cable ends and tails.

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

W40 ACCESS CONTROL

ENTRY PHONE ACCESS SYSTEM

Item		Rate A			Rate B	
		1	2	3	4	5
		Audio	Video Mono	Video Colour	Surface Mounted	Flush Mounted
		£	£	£	£	£
W40	<i>Each</i>					
	Door entry system: surface or flush mounted entrance panel: illuminated name plate: power supply handset:					
001	1 way	106.45	202.05	348.34	70.87	86.06
002	2 way	131.04	365.09	640.28	81.00	96.19
003	3 way	166.32	528.12	932.21	91.12	106.31
004	4 way	201.60	691.16	1224.15	101.25	116.44
005	5 way	219.27	824.37	1479.85	111.37	126.56
006	6 way	236.94	951.03	1723.83	121.50	136.68
007	7 way	275.00	1084.24	1980.59	131.62	146.81
008	8 way	292.09	1210.89	2224.57	141.75	156.93
009	9 way	309.77	-	-	151.87	167.06
010	10 way	327.45	-	-	162.00	177.18
011	ADD for memory, pan, tilt and zoom facility .	-	-	302.14	-	-
012	ADD for door entry control access control digital coded entry keypad	-	369.25	487.67	-	-

Rate A	Rate B	
1	2	3
	Surface Mounted	Flush Mounted
£	£	£

	<i>Each</i>			
	coded lock: handset keypad	205.46	60.75	75.94
014	Keypad: audio	249.98	70.87	86.06

Rate A	Rate B	
1	2	3
Fail locked	Fail unlocked	Any type
£	£	£

	<i>Each</i>			
	Electric lock release: 12 V AC: 700 mA			
015	mortice latch	22.37	29.06	15.19
016	rim latch	22.37	29.06	15.19
	Electro-magnetic lock release			
017	unmonitored	-	64.26	22.78
018	monitored	-	75.96	22.78
019	bracket: outward opening	-	11.69	22.78
020	bracket: inward opening	-	27.66	22.78

W40 ACCESS CONTROL

CARD SWIPE AND PROXIMITY ACCESS SYSTEM

Specification

Standard:

Comply with:

BS 4737-3.13: Intruder alarm systems.

Specifications for components. Capacitive proximity detectors.

Item		Rate A	Rate B
		1	2
		£	£
W40	<i>Each</i>		
	Card swipe and proximity access control system		
	card swipe door entry: single door: suitable for external use:		
	magnetic stripe cards:		
021	reader: satin chrome finish	155.22	60.75
022	reader: plastic	84.67	60.75
023	electronic control and reader: combined unit	360.55	106.31
024	swipe card	2.83	1.52
	proximity access control		
025	reader: plastic	139.71	60.75
026	reader: vandal-proof: IP67	190.51	75.94
027	reader: panel mounted: for door entry panel: IP67	190.51	75.94
028	reader: for standard electrical backbox	190.51	75.94
029	reader: cast metal housing: satin chrome finish: IP67	211.67	75.94
030	reader/keypad: bezel: IP67	169.34	83.53
031	compact reader: plastic: IP67	183.44	54.67
032	compact reader: vandal-proof: IP67	239.89	63.79
033	exit button: bezel: LED	35.28	30.37
034	token	7.62	3.04
035	control unit	112.89	15.19
036	including housing	134.06	18.22
	electric lock release: 12 V DC		
037	fail open	83.26	24.30
038	fail locked	41.63	21.26
	Proximity access control system: surface or flush: including control unit and tokens		
039	stand-alone	222.55	91.12
040	with audio	286.66	106.31
041	with audio/video	952.52	121.50

W40 ACCESS CONTROL

CODE INPUT ACCESS CONTROL SYSTEM

Item		Rate A	Rate B
		1	2
		£	£
W40	<i>Each</i>		
	Code input access control system: single door: incorrect code lock-out: anti-tamper device: key override facility digital coded lock door entry system		
042	mechanical: satin chrome or polished brass	80.50	60.75
043	electronic: satin chrome or polished brass: remote release	268.52	75.94
	keypad stand-alone electronic door entry system		
044	polycarbonate	111.94	54.67
045	stainless steel	165.71	60.75
046	vandal resistant: IP65	165.23	75.94
047	compact: IP65	119.95	51.64
048	compact: stainless steel: IP65	148.17	57.71
	electric lock release: 12 V AC: 700 mA		
049	mortice latch	143.68	15.19
050	rim latch	77.53	15.19

ACCESS CONTROL: ACCESSORIES

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
051	Solenoid bolt: 12 V DC: fail unlocked: monitored: for single or double action timber and aluminium doors	96.15	75.94
052	Emergency exit "break glass" point: cover labelled 'EMERGENCY DOOR RELEASE': surface mounted	34.11	15.19
053	Door release button: vandal resistant: marked 'PRESS TO EXIT': flush mounted	15.19	22.78
054	Door release button: DDA compliant: marked with wheelchair symbol and "PUSH TO OPEN"	27.29	22.78
055	Door closer: light duty: for timber or aluminium doors	36.58	45.56
056	Power supply unit: 12 V DC	42.44	22.78

W41: Security detection and alarm

GENERALLY

Specification

Standard:

BS 4737: Intruder alarm systems in buildings.
BS EN 50131-1: Alarm systems. Intrusion systems. General requirements.
HTM 2015: Bedhead Services: NHS Estates.

Installation:

Install, commission and set to work equipment in accordance with manufacturer's recommendations and:
BS 4737-4.3: Code of Practice for exterior alarm systems.

Documentation:

Provide full documentation to comply with BS 4737-4.3.

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

Method of measurement

Measure connecting cable ends into existing equipment or that fixed by others separately.

Rates for the following include

Rate A:

For supplying in kit form including all wiring.

Rate B:

For connecting cable ends and tails.

W41: SECURITY DETECTION AND ALARM

SOUNDERS AND VISIBLE ALARMS:

Note

See Section W50

PASSIVE INFRA-RED MOVEMENT DETECTORS

Specification

Standard:
Comply with:
BS 4737: Intruder alarm systems in buildings.

BS 4737-3.5: Ultrasonic movement detectors.
BS 4737-4.3: Code of Practice for exterior alarm systems.

Item		Wall	Ceiling	IP44	IP55	
W41	Each	£	£	£	£	£
PIR lighting detector: detection angle						
001	not exceeding 90°	19.25	-	-	-	15.19
002	90 to 110°	20.19	-	-	-	15.19
003	110 to 140°	22.51	-	32.30	32.30	15.19
004	140 to 180°	24.39	-	45.09	75.48	15.19
005	180 to 200°	29.56	-	-	-	15.19
006	200 to 250°	-	-	54.00	78.49	15.19
007	250 to 270°	-	-	71.40	86.28	15.19
008	exceeding 270°	-	32.59	46.28	93.22	22.78
Wireless PIR						
009	PIR: 35 m adjustable range: battery operated . .	-	-	-	51.69	22.78
010	receiver: 150 m line of site: 3 channel output: 12 V DC	-	-	-	65.66	22.78
					Rate A	Rate B
					1	2
Each					£	£
PIR lighting controller: variable 'on' time: switching capacity not exceeding 1500 W: walk test facility: integral sounder: manual override: not exceeding 10 detectors per zone						
011	1 zone : not exceeding 8 detectors.				38.48	25.82
012	2 zone : not exceeding 12 detectors.				48.67	28.85

INTRUDER ALARM SYSTEMS: DOMESTIC

systems. General requirements.

	<i>Each</i>	£	£
021	ADD for additional rechargeable battery	15.85	7.59
	Control panel		
022	not exceeding 3 zones	55.70	12.15
023	4 to 6 zones	64.95	16.70
024	7 to 8 zones	75.90	19.74
025	Speech dialler	79.90	24.30
026	Bell box: dummy	15.53	15.19
027	Bell box: with strobe light	35.73	21.26
	Wireguard: white plastic coated or galvanised		
028	PIR: not exceeding 125 mm in any dimension	27.27	19.74
029	PIR: 125 to 200 mm in any dimension	33.62	19.74
030	bell box	44.50	19.74

W41: SECURITY DETECTION AND ALARM

EMERGENCY CALL SYSTEMS

Item		Rate A	Rate B
		1	2
W41	<i>Each</i>	£	£
	Emergency call system: 2-wire addressable: linkable to programming PC: location naming facility: day/night settings: multiple call settings:		
031	network controller: up to 256 addressable units	623.37	227.79
032	flush bezel	60.98	18.22
033	corridor display unit: with or without controls	274.10	60.74
034	network splitter: <i>per 15 call stations</i>	45.28	13.67
	Call point: button reset		
035	point	67.62	25.82
036	point: with sounder	76.68	25.82
037	point: with infra red receiver	85.73	25.82
038	point: with sounder and infra red receiver	95.39	25.82
039	ceiling pullcord unit	29.58	27.33
040	Monitoring point: button reset	68.22	25.82
	Over door indicators		
041	light	34.41	25.82
042	light: addressable	77.58	25.82
043	sounder: addressable	89.36	25.82
	Ceiling receiver: infra red		
044	master	110.18	27.33
045	slave	78.79	27.33
046	test	87.83	27.33
	Radio receiver		
047	receiver	371.00	33.41
048	extension aerial	407.83	24.30
049	Transmitter: infra red	147.32	27.33

CONVENTIONAL CALL SYSTEMS

Rate A	Rate B
1	2
£	£

97

W41: SECURITY DETECTION AND ALARM

DISABLED TOILET ALARM SYSTEMS

Specification

Standard:

Comply with:

BS 8300: Design of buildings and their approaches to meet the needs of disabled people. Code of practice.

Item		Rate A		Rate B
		1	2	3
		Type		Any type
		Standard	Stainless steel	
		£	£	£
W41	<i>Each</i>			
075	Disabled toilet alarm system: pull cord: reset: power supply unit: overdoor lamp and sounder: 1-way	149.73	261.42	121.49
	power supply unit: overdoor lamp and sounder:			
076	2-way	76.68	144.30	30.37
077	3-way	73.05	124.19	33.41
078	4-way	96.00	157.08	36.45
079	5-way	119.54	189.28	39.48
080	6-way	144.30	222.00	42.52
081	7-way	167.84	251.76	45.56
082	8-way	191.39	280.71	48.59
083	9-way	214.94	308.98	51.63
084	10-way	228.37	322.40	54.67
085	11-way	241.80	335.84	57.71
086	12-way	255.24	349.27	60.74
087	power supply unit with indicator/sounder.	48.00	63.09	45.56
088	pullcord: with lamp	41.66	63.09	27.33
089	push button: with lamp	72.45	66.52	25.82
090	overdoor lamp and sounder	48.08	66.52	25.82
091	reset unit	35.62	55.55	24.30
092	remote sounder	21.17	35.98	21.26
093	disabled WC sticker	2.42	2.42	6.07

W50: Fire detection and alarm

GENERALLY

Specification

Standard:

Comply with:

BS EN 54: Fire detection and fire alarm systems.

BS 5839: Fire detection and alarm systems in buildings.

Installation:

Handle, store and install components of the fire detection and alarm system in accordance with BS 5839 and the manufacturer's recommendations.

Record all commissioning tests and provide the certification required by BS 5839-1.

Documentation:

Provide instructions on use of installation to person responsible for use of premises. Supply the user with certificates for design, installation and commissioning of the system, operation and maintenance manual, as fitted drawings and logbook in accordance with BS 5839-1.

Definition of Terms

Gas Group:

As defined in BS EN 60079-0: Electrical for explosive gas atmospheres: General requirements.

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

Method of Measurement

Measure the following separately:

- i. Cables and wiring.
- ii. Equipment testing.
- iii. Connecting cable ends into existing equipment or that fixed by others.

The following is included elsewhere within other Items:

Baring conductors.

Rates for the following include

Rate B:

For connecting cable ends and tails.

For providing all documentation.

W50 FIRE DETECTION AND ALARM

FIRE ALARM CONTROL AND INDICATING EQUIPMENT

Specification

Standard:

Comply with:

BS 5839: Fire detection and alarm systems in buildings.

BS 5839-1: Code of practice for system design, installation, commissioning and maintenance.

BS EN 54: Fire detection and fire alarm systems.

BS EN 54-2: Control and indicating equipment.

BS EN 54-4: Power supply equipment.

		Rate A	Rate B
Item		1	2
W50	Each	£	£
Fire alarm indicator and control panel: battery back-up: end of line monitoring devices: one man walk test facility			
small installations:			
001	single-zone: 24 hours mains failure	175.21	75.93
002	two-zone: 24 hours mains failure	229.00	121.49
003	four-zone: 24 hours mains failure	292.22	151.86
004	four-zone: 72 hours mains failure	362.23	182.23
005	eight-zone: 24 hours mains failure	298.25	212.60
006	fire and fault relay board	40.91	15.19
two-wire system:			
007	single-zone	155.55	136.67
008	two-zone	258.83	167.04
009	four-zone	328.60	197.41
010	eight-zone	480.74	227.79
011	single-zone: including surface mounted call point and two detectors	286.44	242.97

Rate A				Rate B
1	2	3	4	5
Panel type				Any type
Mains failure	Configured Repeater			
24 hours	72 hours	for Repeater	Panel	
£	£	£	£	£

Each

Fire alarm indicator and control panel: conventional:
battery back-up: up to 32 detectors per zone: end of
line monitoring devices: one man walk test facility

012	single-zone	-	204.92	-	-	53.15
013	two-zone	-	265.11	397.86	308.14	66.82
014	four-zone	-	383.02	532.85	211.31	94.15
015	eight-zone	461.94	565.39	-	338.04	145.78
016	sixteen-zone	810.04	893.73	-	511.99	212.60
017	back box for recessing or semi-recessing	86.35	86.35	86.35	86.35	30.37

W50 FIRE DETECTION AND ALARM

FIRE ALARM CONTROL AND INDICATING EQUIPMENT - *continued*

Item		Rate A		Rate B	
		1	2	1	2
W50	Each	£	£	£	£
	Fire alarm indicator and control panel: single loop analogue addressable: up to 120 devices per loop: complete integral fire alarm system				
018	sixteen-zone	754.39	145.78		
019	ADD for repeater panel	662.62	121.49		
020	thirty two-zone	1289.31	182.23		
021	ADD for repeater panel	638.77	157.93		
	Battery charging unit: housed in sheet steel case: output Volts meter: mains indicating neon light: load and mains fuses: input Voltage 200/240 V AC: output Voltage 24 V DC: wall or shelf mounting (battery cells measured separately):				
022	1.5 A	242.54	78.97		
023	3 A	493.78	78.97		
024	5 A	639.02	78.97		

Rate A			Rate B	
1	2	3	4	5
Enclosure and battery	Replacement battery only 12 V	24 V	Enclosure and battery	Battery only
£	£	£	£	£

Each

Set of batteries: in manufacturer's standard stoved
enamelled, corrosion resistant, ventilated steel
enclosure: lockable door:

sealed lead-acid cells: capacity:

025	1.2 AH	196.97	20.27	-	24.30	15.19
026	2.1 AH	202.59	20.96	37.41	27.33	18.22
027	2.8 AH	219.39	22.77	42.54	30.37	21.26
028	6 AH	238.75	36.29	69.88	33.41	24.30
029	7 AH	267.01	47.26	76.94	36.45	27.33
030	12 AH	279.85	60.10	126.99	39.48	30.37
031	17 AH	283.83	98.82	133.56	42.52	33.41
032	24 AH	322.56	162.02	179.54	45.56	36.45
033	38 AH	387.26	226.71	245.53	48.59	39.48
034	65 AH	447.93	287.40	388.40	51.63	42.52
035	78 AH	606.39	445.85	494.07	54.67	45.56
036	100 AH	648.89	488.35	528.89	57.71	48.59

MANUAL CALL POINTS

Standard:

Rate A		Rate B
1	2	3
Surface mounted	Flush mounted	Any type
£	£	£

102

W50 FIRE DETECTION AND ALARM

HEAT AND SMOKE DETECTORS

Specification

Standard:

Comply with:

BS EN 54: Fire detection and fire alarm systems.

BS EN 54-5: Heat detectors. Point detectors.

BS EN 54-7: Smoke detectors. Point detectors using scattered light, transmitted light or ionization.

BS EN 54-10: Flame detectors. Point detectors.

BS EN 54-12: Smoke detectors. Line detectors using an optical light beam.

Item		Rate A			Rate B	
		1	2	3	4	5
		Conventional	Analogue		Conventional	Analogue
		Standard	Two wire	Addressable	Addressable	
		£	£	£	£	£
W50	<i>Each</i>					
	Heat sensitive detector					
059	medium fixed temperature	22.66	30.62	42.67	21.26	24.30
060	rate of rise temperature	22.66	30.62	42.67	21.26	24.30
061	high fixed temperature	22.65	30.62	42.67	21.26	24.30
062	ADD for remote LED indicator unit	11.44	11.44	11.44	21.26	24.30
	Smoke detector					
063	optical beam	35.39	45.56	51.67	21.26	24.30
064	ionisation	78.74	86.11	91.49	21.26	24.30
065	photo thermal	45.56	49.08	61.03	21.26	24.30
066	ADD for remote LED indicator unit	11.44	11.44	11.44	21.26	24.30
	Detector mounting base: for use with heat or smoke detectors: locking device					
067	common base	6.36	7.11	8.52	12.15	15.19
068	relay base	24.61	-	-	18.22	-
069	2-wire base sounder	-	-	-	21.26	-
070	blanking cover for base sounder	-	-	-	3.04	-

W50 FIRE DETECTION AND ALARM

AUTOMATIC DETECTORS

Specification

Standard:

Comply with BS EN 14604: Smoke alarm devices.

Item
W50 *Each*

Self-contained mains powered residential detector alarm:
surface mounting kit: monitored back-up supply: operating
voltage 220/240 V: alarm output 85 dB at 3 metres:

071	optical type	32.89	34.37	44.86	21.26
072	ionisation type	13.38	16.45	37.37	21.26
073	heat detector	35.90	37.37	52.35	21.26
074	surface mounting kit: relay	31.79	31.79	31.79	21.26
075	carbon monoxide detector	41.98	32.13	59.84	21.26

Rate A			Rate B
1	2	3	4
Detector			Any type
mains only	disposable battery back-up	re-charge- able battery back-up	
£	£	£	

SOUNDERS AND VISIBLE ALARMS

Specification

BS EN 54: Fire detection and fire alarm systems.
BS EN 54-3: Fire alarm devices. Sounders.

Definitions:

Medium noise:

Commercial premises, hotels, retail outlets
where the average sound level is between
50 dB and 115 dB.

High noise:

Factories, marine and external use generally
where the average sound level is between
106 dB and 115 dB.

Rates for the following include

Colour:

Standard fire red or grey.

Each

Bell

150 mm diameter

076	6/12 V DC	26.78	55.06	13.67	25.82
077	24 V DC	21.12	43.42	13.67	25.82
078	240 V AC	37.18	73.66	13.67	25.82

Rate A		Rate B	
1	2	3	4
Internal	IP55	Internal	IP55
£	£	£	£

W50 FIRE DETECTION AND ALARM

SOUNDERS AND VISIBLE ALARMS - *continued*

Item	Each	Rate A		Rate B	
		1	2	3	4
		Internal	IP55	Internal	IP55
		£	£	£	£
W50	<i>Each</i>				
	Bell - <i>continued</i>				
	200 mm diameter				
079	24 V DC	32.32	71.51	15.19	27.33
080	240 V AC	54.45	112.71	15.19	27.33

	Each	Rate A			Rate B	
		1	2	3	4	5
		Internal	IP55	IP67	Internal or IP55	IP67
		£	£	£	£	£
	Electronic sounder					
	medium noise					
081	24 V DC	38.10	45.45	91.15	13.67	25.82
082	240 V AC	50.94	62.66	104.35	13.67	25.82
	high noise					
083	24 V DC	87.69	158.57	255.48	13.67	25.82
084	240 V AC	-	215.90	350.25	13.67	25.82

	Each	Rate A		Rate B	
		1	2	1	2
		£	£	£	£
	Discreet personnel alert unit: audible buzzer and LED indicator				
085	compact unit: for mounting onto single gang back box			59.87	25.82
086	larger unit: twin high intensity LED's: for mounting onto double gang back box			48.38	25.82
	Speech sounder: alarm tone and vocal message: repeat facility				
087	one message			102.81	25.82
088	two messages			113.09	25.82

	Each	Rate A		Rate B	
		1	2	3	4
		IP55	IP67	IP55	IP67
		£	£	£	£
	Combined electronic sounder and strobe light				
	medium noise				
089	24 V DC	108.26	217.16	13.67	25.82
090	240 V AC	149.27	248.59	13.67	25.82
	high noise				
091	24 V DC	166.01	267.47	13.67	25.82
092	240 V AC	226.03	366.67	13.67	25.82

W50 FIRE DETECTION AND ALARM

SOUNDERS AND VISIBLE ALARMS - *continued*

Item		Rate A	Rate B
		1	2
W50	<i>Each</i>	£	£
093	Bell: explosion protected: Gas Group II A: 150 mm diameter: 200/250 V AC .	483.52	42.52
	Siren:		
094	24/48 V DC	93.29	21.26
095	24 V DC polarised	32.78	21.26
096	120/240 V AC	93.29	21.26
097	110/250 V AC	36.51	21.26
098	230 V AC: IP65	118.54	25.82
	Combined sounder and manual call-point: IP40		
099	mains rechargeable	176.39	21.26
100	battery operated	101.60	21.26
101	ADD for battery	3.94	7.59
	Flashing beacon: white ABS engineering plastics: red dome: weatherproof		
102	24 V DC polarised	44.75	21.26
103	200/250 V AC	55.70	21.26

AUTOMATIC RELEASE MECHANISM

Specification

Standard:

BS 5839-3: Fire detection and alarm systems for buildings. Specification for automatic release mechanisms for certain fire protection equipment.

		Rate A	Rate B
		1	2
	<i>Each</i>	£	£
	Electro-magnetic door control device		
	door release		
104	24 V DC	56.55	28.85
105	240 V AC	63.97	28.85
106	floor mounting bracket	19.42	7.59
107	heavy duty relay: interfacing door release units with fire alarm panel . . .	68.95	45.56
	automatic fire door closer		
108	dual function: "hold open" or "swing free": 24 V DC	336.99	28.85
109	power supply unit: input 240 V AC: output 24 V DC	157.12	28.85

W51: Earthing and bonding

GENERALLY

Scope

Systems for the transfer of electrical current to earth, to protect personnel, buildings, structure, plant and equipment in the case of an electrical fault within the supply system and from interference from electro-magnetic fields and electrostatic forces.

Specification

Standard:

Comply with:

BS 7430: Code of practice for earthing.

BS 7671: IEE wiring regulations.

Electricity Supply Regulations; and Local Electricity Supply Authority Requirements.

Installation:

Handle, store and install all components of the earthing and bonding system in accordance with the manufacturer's recommendations and BS 7430 and BS 7671.

Testing:

Check earth continuity conductors and loop impedance values of existing installation. Report defects and elements not in accordance with BS 7671 (IEE Regulations) before connecting new or modified installations to existing supply.

Test and commission the system in accordance with BS 7430 and BS7671 and as specified. Record all test measurements.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70 .*

Method of measurement

Measure the following separately: Insulated cables / wiring used as protective conductor.

Rates for the following include

Conductors, links and tape:

For supplying (Rate A) and jointing, connecting and fixing (Rate B) saddles, cleats, clips, holdfasts, bolts, nuts, washers, and clamps.

For supplying (Rate B) small fixing items (e.g. rivets, screws) and consumable items for jointing, connecting etc.

For supplying (Rate A) and fixing (Rate B) safety labels.

For supplying and applying (Rate B) protective coatings.

For driving (Rate B) earthing rods (any depth: any number: any combination).

For caulking in (Rate B).

For measuring (Rate B) impedance/resistance before and / or after installation and reporting.

For earth electrode resistance testing (Rate B).

For cleaning, coiling and labelling (Rate E) conductor, tape etc on drums supplied.

For made bends (Rate B) unless otherwise stated.

W51 EARTHING AND BONDING

PROTECTIVE CONDUCTORS

Specification

Standard:

Comply with:

BS EN 60228: Conductors of insulated cables.

BS 6004: Electric cables. PVC-insulated cables and PVC sheathed cables for voltages up to and including 300/500V, for electric power and lighting

BS EN 50525: Electric cables. Low voltage energy cables of rated voltages up to and including 450/750V

Item

W51

Metre

Bare copper: stranded conductor:

		Rate A 1	Rate B 2	Rate B 3
			Laid or drawn	Fixed to any back- ground
		£	£	£
001	6 mm ²	0.97	2.13	8.20
002	16 mm ²	2.61	2.73	9.42
003	25 mm ²	4.29	3.04	12.15
004	35 mm ²	5.93	3.64	13.06
005	50 mm ²	6.15	4.25	14.27
006	70 mm ²	9.38	4.86	15.79
007	95 mm ²	14.43	5.47	17.31

Each

Bonding link:

flexible braided copper: solid ends: not exceeding 300 mm long:

		Rate A 1	Rate B 2	Rate B 3
		Bare	PVC covered	Any type
		£	£	£
008	16 mm ²	9.53	17.75	13.67
009	25 mm ²	12.28	23.27	14.88
010	35 mm ²	14.54	24.02	16.10

W51 EARTHING AND BONDING

PROTECTIVE CONDUCTORS - *continued*

Item		Rate A		Rate B	
		1	2	3	4
		With	Without	With	Without
		conn- ectors	conn- ectors	conn- ectors	conn- ectors
W51	<i>Each</i>	£	£	£	£
Bonding link:					
single core 450 / 750 V PVC insulated cable:					
not exceeding 500 mm long: earthing clamp: label					
011	not exceeding 2.5 mm ²	1.29	1.16	6.99	12.15
012	4 mm ²	1.41	1.28	8.20	13.06
013	6 mm ²	1.96	1.45	9.72	14.58
014	10 mm ²	2.95	2.56	10.93	14.88
015	16 mm ²	5.14	4.76	12.15	15.79
016	25 mm ²	7.62	7.21	13.67	17.31
017	35 mm ²	10.60	10.13	15.19	18.22
018	50 mm ²	13.42	12.79	16.70	19.74
019	70 mm ²	17.56	16.77	18.22	20.96

EARTH CLAMPS

Specification

Standard:

Comply with:

BS 951: Electrical earthing. Clamps for earthing and bonding. Specification.

Each

Earth rod clamp: copper alloy
rod to tape

Maximum conductor size

		Rate A		Rate B	
		1	2	3	
		Clamp		Any	
		Standard	"U" bolt	type	
		£	£	£	
020	not exceeding 26 mm x not exceeding 12 mm	5.74	10.34	3.95	
021	not exceeding 26 mm x 12 to 20 mm	14.44	10.34	4.25	
022	26 to 40 mm x not exceeding 12 mm	13.46	12.00	4.56	
023	40 to 50 mm x not exceeding 12 mm	18.37	14.43	4.86	
024	40 to 50 mm x 12 to 20 mm	19.31	14.43	5.16	

W51 EARTHING AND BONDING

EARTH CLAMPS - *continued*

Item		Rate A			Rate B
		1	2	3	4
		Clamp			Any type
		Standard	"U" bolt	Lug	
		£	£	£	£
W51	<i>Each</i>				
	Earth rod clamp: copper alloy rod to cable				
	<i>Maximum conductor size</i>				
025	not exceeding 10 mm diameter	2.86	-	5.05	3.95
026	10 to 13 mm diameter	3.34	-	-	4.25
027	13 to 16 mm diameter	2.86	7.22	26.21	4.56
028	16 to 20 mm diameter	3.22	8.21	26.57	4.86
029	20 to 25 mm diameter	9.52	10.07	-	5.16

		Rate A		Rate B
		1	2	3
		Clamp		Any type
		Copper	Aluminium	
		£	£	£
	<i>Each</i>			
	Earth bond clamp: copper alloy tape: to			
030	structural steel work	3.43	3.31	18.22
031	rainwater pipe, handrail or the like	6.70	5.95	19.74
032	watermain	9.41	-	21.26
	 cable: to structural steelwork: maximum conductor size			
033	not exceeding 50 mm ²	9.18	9.18	13.67
034	50 to 100 mm ²	13.93	-	15.19
035	100 to 150 mm ²	15.31	-	16.70
	 Earth bond: flexible copper braid: hole centres			
036	not exceeding 200 mm	12.75	-	9.11
037	200 to 400 mm	18.38	-	12.15

W51 EARTHING AND BONDING

EARTH CLAMPS - *continued*

Item		Rate A		Rate B	
		1	2	3	
			Straight through joint	Tee joint	
W51	Each	£	£	£	
	Square tape clamp tape to tape				
	Maximum conductor size				
038	not exceeding 26 mm x not exceeding 3 mm	6.05	27.33	33.41	
039	not exceeding 26 mm x 3 to 6 mm	26.52	27.94	36.45	
040	26 to 50 mm x 3 to 6 mm	27.08	28.55	42.52	

	Each	Rate A		Rate B	
		1	2	3	4
		£	£	£	£
	Eyebolt: gunmetal: screwed to earth rod				
041	16 mm diameter		26.72	22.78	
042	19 mm diameter		31.29	22.78	
043	Static earth discharge receptacle: gunmetal: set into road, runway or the like (breaking out measured separately)		108.86	75.93	
044	Earth boss: mild steel: welded to steel: connections wrapped in waterproof tape: including phosphor bronze stud and nuts		13.84	15.19	

	Each	Rate A			Rate B
		1	2	3	4
		Earth point	2 hole	2 hole with front plate	4 hole
		£	£	£	£
045	Earth point: to reinforcing bars:	18.47	20.72	29.35	30.37
046	ADD for pre-welded tail of 70 mm ² PVC covered cable 500 mm long	-	14.14	15.83	22.78

EARTH ELECTRODES

Earth rod: extensible:

copper bonded steel

hard drawn copper

stainless steel

driving stud

copper bonded steel . . .

coupling

spike

Each

Rate A	Rate B
1	2
£	£

W51 EARTHING AND BONDING

EARTH TAPES

Note

See Section W52

EARTH BARS, PLATES AND PITS

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Standard	Disconnecting link		Standard	Disconnecting link	
			single	double		single	double
W51	<i>Each</i>	£	£	£	£	£	£
	Earth bar: copper						
064	6-way	108.12	127.00	142.12	91.11	106.30	113.89
065	8-way	120.59	140.42	156.95	98.71	110.10	125.28
066	10-way	138.69	155.72	173.74	106.30	117.69	132.88
067	12-way	153.06	171.68	191.46	113.89	125.28	140.47
068	16-way	185.99	208.10	231.82	121.49	132.88	148.06
069	20-way	225.74	252.26	280.77	129.08	140.47	155.65

		Rate A	Rate B
		1	2
	<i>Each</i>	£	£
070	Swan-neck link: copper	16.17	22.78
071	Insulator	6.16	7.59
072	ADD for studs and nuts	2.23	3.04
	Earth plate: copper:		
	600 x 600 x 3 mm:		
073	lattice	80.76	66.82
074	solid	158.24	66.82
	900 x 900 x 3 mm:		
075	lattice	144.90	78.97
076	solid	306.93	78.97
	Inspection pit:		
077	concrete: 325 x 325 x 225 mm	43.76	27.33
078	galvanised lid: 250 x 250 x 200 mm moulded plastic enclosure: for bedding in concrete	44.33	42.52
	Earth electrode seal: waterproof		
079	standard	285.05	75.93
080	double flange	479.66	91.11

W52: Lightning protection

GENERALLY

Scope

Systems for the protection of buildings, structures, towers, exposed metal work and any projection above the general roof level from lightning.

Specification

Standard:

Comply with:

BS EN 62305: Protection against lightning.

BS EN 62561: Lightning protection system components (LPSC)

BS 7430: Code of practice for earthing.

Class:

Components are to be Class H - components likely to be exposed to full lightning currents.

Installation:

Handle, store and install all components of the lightning protection system in accordance with the manufacturer's recommendations and BS EN 62305 and BS 7430.

Testing:

Test and commission the system in accordance with BS EN 62305 and BS EN 50164. Record all test measurements.

Labelling:

Provide and fix system labels as required by BS EN 62305 and BS 7430.

Documentation:

Prepare system records to BS EN 62305. Hand over system records to PM.

Notes

For earth clamps, earth electrodes and earth pits, see section W51 - Earthing and bonding.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Rates for the following include

Conductors

For supplying (Rate A) and jointing, connecting and fixing (Rate B) saddles, cleats, clips, holdfasts, bolts, nuts, washers, and clamps.

For supplying (Rate B) small fixing items (e.g. rivets, screws) and consumable items for jointing, connecting, etc.

For supplying (Rate A) and fixing (Rate B) safety labels.

For supplying and applying (Rate B) protective coatings.

For caulking in (Rate B).

For measuring (Rate B) impedance/resistance before and / or after installation and reporting.

For earth electrode resistance testing (Rate B).

For cleaning and labelling (Rate E) conductor.

For made bends (Rate B) unless otherwise stated.

AIR TERMINALS				
Each	Rate A			Rate B
	1	2	3	4
	Length in mm:			Any length
	500	1000	2000	
	£	£	£	£
Air terminal				
15 mm diameter: heavy duty: base: for tape conductor				
copper	40.38	56.78	86.71	41.00
aluminium	20.64	26.73	40.44	41.00
ADD for:				
multiple point	33.33	33.33	33.33	22.78
wall mounted base: rod brackets	31.01	31.01	31.01	13.67
rod to tape coupling	10.75	10.75	10.75	13.67
heavy duty ridge saddle base	34.39	34.39	34.39	13.67
10 mm diameter: light duty: base: for rod conductor				
copper	36.16	52.56	-	41.00
aluminium	17.67	-	-	41.00
Extra over for wall mounting base	-	-	-	7.59
Each	Rate A		Rate B	
	1	2		
	£	£		
Strike pad: including set screw				
copper			16.59	13.67
ADD for stem			5.35	7.59
aluminium			11.42	13.67
Puddle flange				
copper			75.18	18.22
aluminium			38.06	18.22
EARTH TAPES				

Joint:

116

W52 LIGHTNING PROTECTION

EARTH TAPES - *continued*

Item	Metre	Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Conductor:				Laid or drawn	Fixed to any background:		
		Copper:		Aluminium:					
		Bare	PVC covered	Bare	PVC covered	Any type	Bare copper	Bare aluminium	PVC covered
W52		£	£	£	£	£	£	£	
Tape size:									
015	12.5 x 1.5 mm	3.12	3.61	0.97	1.79	2.73	12.15	12.15	13.67
016	12.5 x 3 mm	6.25	-	-	-	2.82	12.45	-	-
017	20 x 1.5 mm	5.10	-	-	-	2.95	13.36	-	-
018	20 x 3 mm	10.01	-	2.67	4.64	3.04	13.67	13.67	15.19
019	25 x 1.5 mm	6.25	-	-	-	3.25	13.97	-	-
020	25 x 3 mm	10.30	11.93	2.87	4.67	3.34	15.19	15.19	16.70
021	25 x 4 mm	13.77	-	-	-	3.80	18.98	-	-
022	25 x 6 mm	20.48	22.40	3.69	-	4.25	22.78	24.30	26.42
023	32 x 3 mm	12.86	-	-	-	3.95	18.83	-	-
024	32 x 4 mm	17.45	-	-	-	4.56	22.63	-	-
025	32 x 6 mm	25.74	-	-	-	5.16	26.42	-	-
026	38 x 3 mm	15.78	-	-	-	4.56	22.78	-	-
027	38 x 5 mm	26.31	-	-	-	5.32	26.58	-	-
028	38 x 6 mm	33.29	-	-	-	6.07	30.37	-	-
029	40 x 4 mm	22.13	-	-	-	5.77	28.85	-	-
030	40 x 6 mm	34.90	-	9.08	-	6.68	33.86	36.29	-
031	50 x 3 mm	20.48	-	-	-	5.16	26.42	-	-
032	50 x 4 mm	27.66	-	-	-	6.07	30.22	-	-
033	50 x 6 mm	40.91	46.07	11.48	-	6.99	34.02	36.45	39.48

Rate A				Rate B			
1	2	3	4	5	6	7	8
Conductor:				Laid or drawn		Fixed to any background	
Copper:							
LSF covered	PVC insulated	Tinned	Lead covered	LSF, PVC or Tinned	Lead covered	LSF, PVC or tinned	Lead covered
£	£	£	£	£	£	£	£

Tape size:

034	12.5 x 1.5 mm	-	-	4.78	-	2.73	-	13.67	-
035	25 x 3 mm	13.84	-	12.98	26.29	3.34	5.01	16.70	25.06
036	25 x 6 mm	-	-	25.91	-	4.25	-	26.42	-

W52 LIGHTNING PROTECTION

EARTH TAPES - *continued*

Item		Rate B									
		1	2	3	4	5	6	7	8	9	10
		Tape size in mm:									
W52	Each	12.5 x 1.5	20 x 3	25 x 3	25 x 6	32 x 3	32 x 6	38 x 3	38 x 6	50 x 3	50 x 6
		£	£	£	£	£	£	£	£	£	£

ADD for:

037	radius bend	7.29	7.59	7.90	8.81	8.50	10.02	9.11	11.24	10.33	13.06
038	joint	27.33	27.94	28.55	29.46	29.76	30.98	31.59	33.41	34.02	36.45
	bond to pipe: girth:										
039	not exceeding										
	32 mm	12.15	13.36	14.58							
040	32 to 65 mm	13.36	14.58	15.79							
041	65 to 125 mm . . .	14.58	15.79	17.01							
042	125 to 200 mm . .	15.79	17.01	18.22							
043	200 to 320 mm . .	17.01	18.22	19.44							

Rate A	Rate B	
1	2	3
Bare or PVC covered	Bare	PVC covered
£	£	£

Each

Thermic welded joint: copper conductor: tape size / stranded
conductor size:

044	not exceeding 20 x 3 mm / not exceeding 50 mm ²	3.82	12.15	15.19
045	25 x 3 mm / 70 mm ²	4.49	13.67	16.70
046	25 x 6 mm / 95 mm ²	5.45	14.58	17.31
047	32 x 3 mm	4.49	14.58	17.31
048	32 x 6 mm	6.39	17.31	19.74
049	38 x 3 mm	5.45	17.31	19.74
050	38 x 6 mm	9.74	18.22	20.65
051	50 x 3 mm	8.74	18.22	20.65
052	50 x 6 mm	12.11	19.44	21.87

053 For welded joints on aluminium tape multiply the above "A" rates by 2.00 ("B" rates unaltered)

Rate A	Rate B	
1	2	3
Copper tape:	Any type	
Bare	PVC	
	covered	
£	£	£

Each

ADD for two-piece metallic down conductor clip

054	25 x 3 mm	2.56	7.50	6.07
055	25 x 6 mm	3.50	8.19	6.83
056	50 x 6 mm	7.05	16.14	7.26

W52 LIGHTNING PROTECTION

EARTH TAPES - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		Copper or aluminium tape:						Any type
		Screw fixed		Solvent weldable		Adhesive		
		Bare	PVC covered	Bare	PVC covered	Bare	PVC covered	
W52	Each	£	£	£	£	£	£	£
	ADD for two-piece non-metallic down conductor clip							
057	20 x 3 mm	0.94	-	-	-	-	-	2.43
058	25 x 3 mm	0.94	1.14	4.40	4.58	5.20	5.20	3.04
059	50 x 6 mm	2.55	-	-	-	-	-	3.64

	<i>Each</i>	Rate A			Rate B		
		1	2	3	4	5	6
		Glazing bar	Slate	Backplate stem	Glazing bar	Slate	Backplate stem
		£	£	£	£	£	£
060	ADD for holdfast	7.92	1.45	7.70	7.59	3.04	6.07

TEST AND JUNCTION CLAMPS

	<i>Each</i>	Rate A		Rate B
		1	2	3
		Copper	Aluminium	Any type
		£	£	£
	Test and junction clamp			
	square clamp			
061	25 x 3 mm	7.92	5.92	7.59
062	25 x 6 mm	45.21	-	7.59
063	50 x 6 mm	48.16	-	7.59
064	oblong clamp	10.78	11.15	7.59
065	plate clamp	28.34	-	7.59
066	screwdown clamp	25.47	-	7.59

W52 LIGHTNING PROTECTION

TEST AND JUNCTION CLAMPS - *continued*

Item		Rate A		Rate B
		1	2	3
		Copper	Aluminium	Any type
W52	<i>Each</i>	£	£	£
	Test and junction clamp - <i>continued</i>			
	solid circular			
067	square clamp	8.15	6.69	7.59
068	tee clamp	7.56	6.06	7.59
069	jointing clamp	10.02	8.97	7.59
070	test clamp	9.18	8.50	7.59
071	Bi-metallic connector	46.85	-	10.63
	Clamp: solid circular: to			
	reinforcing bar			
072	not exceeding 18 mm	4.08	-	10.63
073	18 mm to 35 mm	5.19	-	10.63
074	structural steel work	17.33	15.99	10.63
	Bond: solid circular: to			
075	rainwater pipe, handrail or the like	34.11	31.17	10.63
076	structural steelwork	10.53	10.53	10.63

SOLID ROD CONDUCTORS

		Rate A				Rate B	
		1	2	3	4	5	6
		Copper:		Aluminium:		Any type:	
		Bare	PVC covered	Bare	PVC covered	Laid or drawn	Fixed to any back-ground
	<i>Metre</i>	£	£	£	£	£	£
077	8 mm solid conductor	6.50	7.34	2.02	3.25	3.04	15.19

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
	ADD for		
078	heavy duty cast saddle clip	7.39	3.04
079	weldable push-in plastic clip	3.66	3.04
080	adhesive push-in plastic clip	4.60	3.04

Y41: Fans

GENERALLY

Specification

Standard:

Comply with:

BS EN 60335: Safety of household and similar electrical appliances.

BS EN 60335-2: Particular requirements.

BS EN 60335-2-80: Fans.

Performance:

Provide test evidence in accordance with:

BS EN ISO 5801, BS 848-1: Industrial fans.

Performance testing using standardized airways.

BS ISO 13347: Industrial fans.

Determination of fan sound power levels under standardized laboratory conditions.

BS EN ISO 5802: Fans for general purpose. Performance testing in situ.

BS EN ISO 13351: Fans - Dimensions.

BS EN ISO 12499, BS 848-5: Industrial fans. Mechanical safety of fans. Guarding.

BS ISO 14695, BS 848-6: Industrial fans. Method of measurement of fan vibration.

BS 848-7, ISO 14694: Fans for general Specifications for balancing and vibration.

BS EN ISO 13349: Fans for general purposes. Vocabulary and definition of categories.

BS 848-9, ISO 13348: Fans for general Tolerances, methods of conversion and technical data presentation.

Guards:

Comply with:

PD 5304: Guidance on safe use of machinery.

Installation:

Install fans in accordance with manufacturer's instructions and recommendations in the HEVAC Fan Application Guide.

Dismantling and removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.75.*

Rate E: For re-use - *multiply by 0.90.*

Rates for the following include

Generally:

For supplying mounting components (Rate A) and fixing (Rate B) fans to floor or in duct. Feet and anti-vibration mountings measured separately.

For access doors and panels (Rate A).

Y41 FANS

DOMESTIC FANS

BATHROOM AND TOILET EXTRACT FANS

Item		Rate A				Rate B
		1	2	3	4	5
		Type				Any type
		Standard		Energy saving		
		Mains	Low voltage	Mains	Low voltage	
Y41	Each	£	£	£	£	£
	Axial extract fan: domestic: bathroom/toilet: moulded plastic housing: 100 mm diameter outlet: suitable for window, panel or wall mounting:					
001	neon light	36.09	101.43	56.17	119.47	45.18
002	adjustable electronic overrun timer: neon light: override only	50.81	109.17	69.40	127.80	46.13
003	thermo-electric shutter: pullcord: neon light . . .	60.16	113.84	77.38	131.76	47.08
004	adjustable electronic overrun timer: thermo-electric shutter: neon light: override only	84.11	140.75	102.36	156.55	48.06
005	integral auto humidity control: neon running light manual override only: pullcord	114.74	186.32	178.25	205.60	49.01
006	integral auto humidity control: thermo-electric shutter: neon running light: manual override onl pullcord	147.32	198.71	190.02	218.68	49.96
007	integral auto humidity control and adjustable electronic overrun timer: thermo-electric shutter neon light	151.38	-	210.72	-	50.94
	Centrifugal extract fan: domestic: high performance: bathroom/toilet: moulded plastic housing: 100 mm diameter outlet: built-in back draught shutter:					
	window, panel, wall or ceiling mounting:					
008	single speed: pullcord or remote switch or sensor.	98.62	142.03	97.66	-	58.73
009	two speed: pullcord or remote switch or sensor.	124.30	200.01	137.53	145.88	60.17
010	single speed: control by remote switch: over-run timer	129.63	175.02	157.58	166.71	61.61
011	delayed timer: adjustable electronic over-run timer	133.51	-	-	-	63.06
012	integral PIR detector: over-run timer	150.51	345.42	312.57	319.52	64.50
013	humidity sensor: pullcord over-ride	192.29	240.94	-	-	65.94
014	humidity sensor: pullcord over-ride: over-run timer	199.78	212.65	222.25	229.23	67.38

Y41 FANS

BATHROOM AND TOILET EXTRACT FANS - *continued*

Item	Each	Rate A				Rate B
		1	2	3	4	5
		Type				Any type
		Standard		Energy saving		
		Mains	Low voltage	Mains	Low voltage	
		Y41		£	£	£

Centrifugal extract fan: domestic - *continued*

wall and ducted mounting:

015	single speed: pullcord	85.77	-	-	-	58.73
016	two speed: adjustable over-run timer	112.71	-	-	-	60.17
017	integral PIR detector: two speed	173.66	-	-	-	64.50
018	humidity controlled: two speed: adjustable over-run timer: adjustable humidity sensor. .	199.30	-	-	-	67.38

		Rate A		Rate B	
		1	2	1	2
		£	£	£	£
019	Window/wall vent kit: lining sleeve: outer wall grille			10.42	14.91

KITCHEN EXTRACT FANS

		Rate A		Rate B	
		1	2	1	2
		£	£	£	£
<i>Each</i>					
Single axial fan: kitchen extract: moulded plastic housing: 150 mm diameter outlet: suitable for window or through-wall mounting: built-in draught shutter: single speed:					
panel mounted					
020	remote switch or sensor			71.29	49.50
021	integral pullcord			86.06	50.94
022	integral pullcord: over-run timer			89.89	52.39
023	integral adjustable over-run timer			105.63	53.83
024	variable speed: adjustable speed controller			116.79	55.27
025	integral automatic humidistat			171.22	56.71
026	integral automatic humidistat: integral over-run timer			187.75	31.71
027	two speeds and humidistat or manual control			205.36	31.71
window mounted					
028	integral pullcord			120.61	49.50
029	remote switch			192.43	50.94
030	Wall vent kit: lining sleeve: outer wall grille			20.83	23.85

Y41 FANS

KITCHEN EXTRACT FANS - *continued*

Item		Rate A	Rate B
		1	2
Y41	<i>Each</i>	£	£
	Single centrifugal fan: kitchen extract: moulded plastic housing: 170 mm dia outlet: suitable for window or wall mounting: built-in back draught shutte: wa grease filter		
031	single speed	163.87	52.39
032	dual speed: pull cord switch	165.24	53.83
033	single speed: adjustable electronic over-run timer	199.67	55.27
034	integral automatic humidity control: pull cord switch: high speed override .	250.17	56.71
	Single centrifugal fan: kitchen extract: moulded plastic housing: 250 mm diameter outlet: suitable for window, wall or duct mounting: built-in back draught shutter: washable grease filter: neon light		
035	single speed	172.78	55.27
036	dual speed: pull cord switch	182.69	56.71
037	single speed: adjustable electronic over-run timer	222.69	58.15
038	integral automatic humidity control: pull cord switch: high speed override .	257.07	59.59
	Run and standby fan: kitchens and utility room: 100 mm diameter outlet: high performance double inlet forward curve fan motor impellers: integrated over-run timer: power on, fan run and fan fail neon indicator:		
039	surface mounted	375.57	86.49
040	recessed mounted	423.53	92.26
041	duct mounted	407.00	98.02
042	remote indicator unit for bathroom/toilet	59.41	14.42

Y41 FANS**KITCHEN CANOPIES****Specification***Materials:*

Materials other than metal are to be fire tested in accordance with BS 476.

Framework:

Supply framework incorporating condensation channels and plugged drain holes.

		Rate A	Rate B
Item		1	2
Y41	Each	£	£
	Kitchen hood: three speed extractor		
043	adjustable glass visor: wall or under cupboard fixing	110.35	43.25
044	canopy: wall or island fixing	113.05	46.13
045	integrated extractor: 600 mm wide: wall cupboard fixing	214.81	60.54
	stainless steel chimney: wall or island fixing		
046	square shape: 500 mm wide	307.01	79.28
047	curved shape: 600 mm wide	317.85	86.49
048	square shape: 600 mm wide	538.87	86.49
049	curved shape: 900 mm wide	581.06	115.32
050	square shape: 900 mm wide	583.15	115.32
051	flat shape: 900 mm wide	794.33	115.32
052	corner fixing: 1025 mm wide	1936.91	144.15

CEILING SWEEP FANS

		Rate A	Rate B
		1	2
<i>Each</i>		£	£
Ceiling sweep fan:			
053	plastic or coated metal: white: modern: any sweep	97.86	8.65
054	stainless steel: 1066 mm	120.86	9.51
055	polished brass: 1066 mm	135.47	10.38
056	polished brass: 1320 mm	137.97	11.24
057	solid brass: 1066 mm	140.47	12.11
058	cherry wood: 1066 mm	149.17	12.97

Y41 FANS

COMMERCIAL FANS

EXTRACTOR FANS

Item	Each	Rate A				Rate B
		1	2	3	4	5
		Window mounted	Panel mounted	Wall mounted	Roof mounted	Any type
		£	£	£	£	£

Extractor fan: standard: traditional style:

Impeller diameter

059	150 mm	252.31	283.88	337.25	281.14	43.25
060	190 mm	329.08	359.24	457.38	399.84	46.13
061	230 mm	431.46	462.19	577.64	492.50	50.45
062	300 mm	606.52	635.05	757.91	697.74	57.66

Rate A	Rate B
1	2
£	£

Each

shutter: airflow operated for extract use: cord operated lock for intake use:

Impeller diameter

063	150 mm	61.24	4.32
064	190 mm	76.08	4.61
065	230 mm	98.21	5.05
066	300 mm	131.52	5.77

Y41 FANS

EXTRACTOR FANS - *continued*

Item	Y41	Each	Rate A				Rate B	
			1	2	3	4	5	
			Without shutter	Integral shutter	Low energy		Any type	
					with shutter	wireless with shutter		
			£	£	£	£	£	
Extractor fan: high performance: low noise:								
		Impeller diameter	Air delivery/extract					
		window mounted						
067		150 mm	315 m³/hr	197.09	250.87	-	-	43.25
068		190 mm	395 m³/hr	262.97	329.91	-	-	46.13
069		230 mm	685 m³/hr	342.56	428.99	428.99	485.26	50.45
070		300 mm	1415 m³/hr	484.22	598.68	598.68	677.19	57.66
		panel mounted						
071		150 mm	380 m³/hr	217.88	274.84	-	-	43.25
072		190 mm	480 m³/hr	281.30	353.25	-	-	46.13
073		230 mm	830 m³/hr	360.60	453.24	453.24	512.64	50.45
074		300 mm	1640 m³/hr	520.52	624.40	624.40	706.25	57.66
		wall mounted: telescopic liner						
075		150 mm	350 m³/hr	260.34	317.23	-	-	49.01
076		190 mm	435 m³/hr	358.70	449.44	-	-	51.89
077		230 mm	755 m³/hr	450.41	543.24	543.24	614.46	56.22
078		300 mm	1530 m³/hr	593.96	718.97	718.97	813.24	63.43
		roof mounted						
079		150 mm	250 m³/hr	219.92	276.89	-	-	49.01
080		190 mm	395 m³/hr	313.43	385.19	-	-	51.89
081		230 mm	685 m³/hr	393.08	484.98	484.98	548.58	56.22
082		300 mm	1305 m³/hr	548.56	673.04	673.04	761.32	63.43

Rate A		Rate B	
1	2	3	4
Cladding type		Any type	
Insulated		Mounting	
Mounting			
Surface	Flush	Surface	Flush
£	£	£	£

Each

Controller: 240 V: on/off with neon indicator

083	adjustable automatic timer	97.22	106.98	9.51	7.21
084	single unit: 3-speed: reversible	89.49	99.26	9.51	7.21
085	electronic: variable speed: reversible	122.67	132.44	9.51	7.21
	low energy				
086	wired	86.48	96.25	9.51	7.21
087	wireless	103.75	113.52	9.51	7.21

EXTRACTOR FANS - *continued*128

Y53: Control Components

GENERALLY

Dismantling and removal

Rate E: For re-use - multiply by 0.75.

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - multiply by 0.50.

Rates for the following include

Rates A and B:

For supplying components (Rate A) for, and jointing to (Rate B), pipework or equipment.

TEMPERATURE DETECTORS

Item		Rate A	Rate B
		1	2
Y53	<i>Each</i>	£	£
Temperature detector: extra low voltage:			
001	room type	59.40	14.80
002	building space type	67.86	14.80
003	outside type	81.11	14.80
004	duct type	130.23	13.39
	strap-on type		
005	not exceeding 40°C	78.70	13.39
006	40 to 100°C	86.82	13.39
	liquid immersion type		
007	not exceeding 40°C	89.10	11.25
008	40 to 100°C	121.09	11.25
009	liquid surface type	76.82	7.03
Humidity detector: extra low voltage: gold grid electrodes coated with film or polyvinyl alcohol and lithium chloride			
010	room type	93.56	14.80
011	outside type	176.20	14.80
012	duct type	176.20	12.66
	combined humidity/temperature type		
013	room type	110.72	14.80
014	duct type	176.20	12.66

Y53 CONTROL COMPONENTS

AIR THERMOSTATS: DOMESTIC

Item		Rate A	Rate B
		1	2
Y53	<i>Each</i>	£	£
	Room thermostat: 230 V AC		
015	standard: 10 to 30°C	17.12	14.80
016	frost: 3 to 10°C	19.54	14.80
017	volt-free	20.30	14.80
018	volt-free: optimum start	42.66	14.80
	ADD for		
019	set-back facility	56.49	-
020	lamp	2.40	-
021	tamperproof case	30.56	1.88
022	weather resistant case	39.16	1.88
	Room thermostat: digital: 230 V AC		
023	basic	42.38	14.80
024	24 hour	60.56	14.80
025	7 day	69.64	14.80
	Room thermostat: digital: wireless: 230 V AC		
026	basic	124.00	14.80
027	24 hour	143.12	14.80
028	7 day	152.35	14.80
029	Cylinder thermostat: 240 V.	16.52	7.03
030	Pipe thermostat: 240 V.	22.70	7.03
031	Wiring centre with relay.	25.62	14.06

AIR THERMOSTATS: COMMERCIAL

		Rate A	Rate B
		1	2
	<i>Each</i>	£	£
	Thermostat: 230 V AC		
	immersion		
032	single	59.40	11.25
033	twin	95.96	12.66
	capillary		
034	IP43	65.11	14.06
035	IP65	70.93	15.47
	rod		
036	175 mm long	61.69	14.06
037	275 mm long	146.96	14.06
038	450 mm long	76.43	15.47
039	strap-on	29.70	16.88

Y53 CONTROL COMPONENTS

CONTROLLERS

Item		Rate A	Rate B
		1	2
Y53	<i>Each</i>	£	£
	Controller: wall mounted: 230V 50/60Hz: protection class IP30		
040	multi range: modulating control: set point adjustment: limit function selector: limit set point adjustment	406.34	21.10
041	air handling unit room reset: night set back, set-up, summer and night sensor selection switched inputs: up to 4 room sensors	685.41	35.16
	Compensator: wall or panel mounted: 230V 50/60Hz: protection class IP30		
	residential or commercial radiator systems: for three port mixing valve or boiler: outside temperature sensing: night set back and set-up/boost inputs: user configurable day/night plant operation		
042	mains or 24V output without clock	599.74	35.16
043	mains or 24V output with clock	628.30	35.16
	Optimiser: 7-day: 230V 50/60Hz: protection class IP41		
	fuel-saving controller: variable start time dependent on fall of room temperature: including sensor: programme override switch: day control by separate compensator or built-in on/off day control		
044	analogue clock	570.04	30.94
045	digital clock	627.15	30.94
	Optimiser/compensator: 230V 50/60Hz: protection class IP40		
	self configuring: for smaller commercial or larger domestic property: one or two boiler control: optimum start- and stop- self learning: valve and boiler compensated flow: hot water timed channel: remote input (auto/summer/on/holiday): day economy: alarms on low temperatures		
046	new installation	856.77	42.19
047	replacement	1370.83	70.32
048	remote switch unit	94.81	21.10
049	interface relay unit	73.11	21.10
	Controller: building energy management: 230V 50/60Hz: protection class IP40		
	small to medium commercial property: built-in keypad and liquid crystal display: optimum start/stop self-adaptive self-learning: day economy: boiler flow temperature control: boiler sequencing and rotation: lead boiler in or out of sequence: valve and boiler compensation: set-back compensation: hot water control (time and/or temperature):		
050	controller	2570.30	84.39
051	communications link upgrade	341.57	14.06

Y53 CONTROL COMPONENTS

CONTROLLERS - *continued*

Item		Rate A	Rate B
		1	2
Y53	<i>Each</i>	£	£
	Modular boiler step control: wall mounted: reverse sequence switch: immersion flow or return detector		
052	not exceeding 24 steps	151.19	21.12
053	full proportional temperature control: not exceeding 24 steps	302.39	21.12
054	0-10 V DC: not exceeding 12 steps	389.01	21.12
055	0-10 V DC: not exceeding 12 steps: variable span	437.83	21.12
	Timeswitch/programmer: domestic		
056	24 hour: timeswitch	55.07	14.06
057	7 day: timeswitch	63.76	14.06
058	24 hour: programmer: common timings	60.99	14.06
059	24 hour: programmer: independent timings	69.59	14.06
060	5 day/2 day: programmer: independent timings	71.88	14.06
061	7 day: programmer: independent timings	81.54	14.06
	Timeswitch/programmer: commercial		
	24 hour		
062	digital: one channel	85.62	14.06
063	analogue	67.62	14.06
064	analogue: 100 hour battery reserve	96.09	14.06
	7 day		
065	digital: one channel	93.50	14.06
066	digital: two channel	105.62	14.06
067	analogue	73.84	14.06
068	analogue: 100 hour battery reserve	104.12	14.06
	Hour meter		
	cyclometer type		
069	non-resettable	49.51	16.88
070	non-resettable: miniature	67.11	16.88
071	resettable	63.06	16.88
	Remote setting unit for use with controller		
072	panel mounted	26.77	12.66
073	wall mounted.	26.77	14.80

Y60: Conduit and trunking

GENERALLY

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Method of Measurement

Conduits:

Measure over all conduit boxes, conduit fittings, short running lengths and branches.

Trunking :

Measure along the centre line and over all fittings, short running lengths and branches.

Supports and brackets:

Measure trunking supports and brackets separately.

Rates for the following include

Conduits:

For supplying components (Rate A) for and jointing (Rate B) all joints in the running length.

For supplying all fittings (eg tees, elbows, bends, cover plates, couplers, bushes, locknuts, stop ends, reducers) (Rate A) and all associated jointing (Rate B). Conduit boxes are measured separately.

For supplying all clips, saddles, crampets or the like (Rate A) for and fixing (Rate B) to any background.

For supplying components (Rate A) for and jointing (Rate B) all expansion joints.

For supplying components (Rate A) for all terminations (eg bushes, locknuts, couplers) and jointing (Rate B) to fittings, trunking, equipment or the like including forming (Rate B) entries to equipment.

For made bends (Rate B).

Trunking :

For supplying components (Rate A) for and jointing (Rate B) all joints in the running length.

For supplying components (Rate A) for and jointing (Rate B) all expansion joints.

For supplying all components (Rate A) for terminations and jointing (Rate B) to fittings, equipment or the like including forming (Rate B) entries in equipment.

For supplying cable retaining straps, covers, suspensions, 20 mm steel spacing components or stools (Rate A) and installing (Rate B).

For supplying components (Rate A) for and fixing (Rate B) all bonding links.

Measured fittings:

For supplying components (Rate A) for and fixing (Rate B) all associated joints.

Rates D and E:

For removing conduit and trunking where concealed but accessible.

CONDUIT SYSTEMS

Specification

Standard:

Comply with:

BS EN 61386: Conduit systems for cable management.

BS EN 61386-1: General requirements.

BS EN 61386-2: Particular requirements.

BS EN 61386-21: Rigid conduit systems.

BS EN 61386-22: Pliable conduit systems.

BS EN 61386-23: Flexible conduit systems.

BS EN 61386-25: Conduit fixing devices

Use conduit of each type from one manufacturer.

Definition of terms

*Conduit and fittings:**Class 2:* Medium protection both internal and external: stoved enamelled.*Class 4:* Heavy protection both internal and external: hot dip galvanised or sheradised.

RIGID CONDUIT: METALLIC

Specification

Standard:

Comply with:

BS EN 61386: Conduit systems for cable management.

BS EN 61386-21: Rigid conduit systems.

Item
Y60

Metre

Conduit: threaded: heavy gauge: diameter:

		Rate A		Rate B	
		1	2	3	4
		Class 2 black enamel	Class 4 galvan- ised	Any type	
		£	£	Surface £	Flush £
001	16 mm	3.45	4.75	13.67	12.15
002	20 mm	3.65	5.03	14.58	13.06
003	25 mm	5.27	7.04	15.79	13.97
004	32 mm	8.03	10.37	18.22	16.40
005	1.5 inches	13.35	16.56	20.35	18.53
006	2.0 inches	21.68	25.61	23.39	21.56
007	2.5 inches	33.81	45.84	27.33	25.21

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: FITTINGS AND BOXES

Specification

Conduit fittings and boxes:

Do not use factory made bends, inspection bends or inspection couplers unless approved. Ensure fittings are same class and finish as associated conduit system.

Covers:

Covers for circular or adaptable boxes to be in the same material and finish as boxes. Secure covers with dome or cheese headed screws:

Class 2 finish: steel screws.

Class 4 finish: brass screws.

Item
Y60

Each

Small circular box: malleable iron: flush or surface mounted: 60.3mm internal diameter (lids measured separately)

standard pattern:

008	terminal	2.40	2.58	3.33	3.59	4.56
009	through	2.87	3.08	3.98	4.27	4.56
010	angle	2.87	3.08	3.98	4.27	4.56
011	tee	3.15	3.37	4.21	4.71	4.56
012	intersection	4.01	4.15	5.88	5.97	4.56
013	back outlet	4.94	5.20	7.38	7.57	4.56
014	terminal and back outlet	6.25	6.51	9.03	9.14	5.16
015	through and back outlet	7.35	7.47	10.13	10.11	5.16
016	angle and back outlet	7.38	7.47	10.13	10.47	5.16
017	tee and back outlet	7.84	7.96	10.49	10.82	5.16
018	intersection and back outlet	8.24	8.50	11.04	11.37	5.16

tangent pattern:

019	through	5.88	6.63	8.67	9.03	4.56
020	angle	6.06	6.39	8.73	8.96	4.56
021	tee	6.92	7.00	9.20	9.44	4.56
022	branch - two way "U"	4.08	4.38	8.81	8.95	4.56
023	branch - three way "Y"	5.93	6.38	9.84	9.99	4.56
024	twin through way "H"	8.39	8.50	11.47	11.59	4.56

deep pattern:

025	terminal	7.92	7.92	10.52	10.52	4.56
026	through	8.80	8.80	-	-	4.56
027	angle	8.80	8.80	11.58	11.52	4.56
028	tee	9.85	9.85	13.00	12.78	4.56
029	intersection	11.04	10.78	14.57	12.82	4.56

Rate A				Rate B
1	2	3	4	5
Conduit diameter				Any type
20mm		25mm		
Class 2	Class 4	Class 2	Class 4	
£	£	£	£	£

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: FITTINGS AND BOXES - *continued*

Item		Rate A		Rate B
		1	2	3
		Class 2	Class 4	Any type
		£	£	£
Y60	<i>Each</i>			
	Small circular box: malleable iron: flush or surface mounted: 60.3mm internal diameter (lids measured separately) - <i>continued</i>			
	looping in box 1 to 4 holes or knockouts:			
030	25mm deep	2.42	3.07	3.64
031	32mm deep	3.44	3.91	3.64
	rings for small circular conduit boxes:			
032	extension ring not exceeding 25mm deep	1.87	2.32	1.82
033	extension ring 25mm to 50mm deep	2.38	2.95	1.82
034	adaptor ring	2.93	3.71	1.82
035	Pressed steel junction boxes and extension rings: pay for at the foregoing A rates <i>multiplied by 0.75</i> .			

Rate A						Rate B
1	2	3	4	5	6	7
Conduit diameter						Any type
20mm		25mm		32mm		
Class 2	Class 4	Class 2	Class 4	Class 2	Class 4	
£	£	£	£	£	£	£

<i>Each</i>		£	£	£	£	£	£	£
Large circular box: malleable iron: flush or surface mounted: (lids measured separately)								
standard pattern:								
036	terminal	11.01	12.24	11.01	12.24	11.01	12.41	4.56
037	through	12.59	13.98	12.59	13.98	12.59	14.20	4.56
038	angle	12.65	14.07	12.65	14.07	12.65	14.27	4.56
039	tee	17.24	19.18	17.24	19.18	17.24	19.45	4.56
040	intersection	17.75	19.72	-	-	17.75	19.72	4.56
041	back outlet	12.35	16.07	-	-	-	-	4.56
042	terminal and back outlet	14.84	16.88	-	-	-	-	5.16
043	through and back outlet	15.76	17.64	-	-	-	-	5.16
044	angle and back outlet	15.76	17.64	-	-	-	-	5.16
045	tee and back outlet	16.42	18.43	-	-	-	-	5.16
046	intersection and back outlet	17.98	20.25	-	-	-	-	5.16
tangent pattern:								
047	angle	14.80	16.58	-	-	14.80	16.58	4.56
048	tee	-	-	20.19	22.57	20.19	22.57	4.56

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: FITTINGS AND BOXES - *continued*

Item		Rate A				Rate B
		1	2	3	4	5
		Conduit diameter				Any type
		1½"		2"		
		Class 2	Class 4	Class 2	Class 4	
Y60	<i>Each</i>	£	£	£	£	£
Large circular box: malleable iron: flush or surface mounted: (lids measured separately) - <i>continued</i>						
standard pattern:						
049	terminal	14.24	15.81	33.69	36.59	4.56
050	through	14.65	19.30	33.38	45.31	4.56
051	angle	20.32	23.45	42.52	49.85	4.56
052	tee	24.96	27.65	50.68	59.48	4.56
053	intersection	29.68	35.36	62.57	69.18	4.56

Rate A						Rate B
1	2	3	4	5	6	7
Conduit diameter						Any type
20mm		25mm		32mm		
Class 2	Class 4	Class 2	Class 4	Class 2	Class 4	
£	£	£	£	£	£	£

Each

Rectangular box: malleable iron: flush or surface mounted: steel or malleable iron lid

054	through	9.26	10.28	11.05	12.56	22.85	25.90	9.11
055	angle	11.40	11.40	13.80	13.80	22.85	25.90	9.11
056	tee	10.22	11.28	13.44	15.14	24.89	28.01	9.11
057	intersection	11.71	12.96	14.97	16.54	26.59	29.41	9.11

Rate A				Rate B
1	2	3	4	5
Conduit diameter				Any type
1½"		2"		
Class 2	Class 4	Class 2	Class 4	
£	£	£	£	£

Each

058	through	31.31	35.42	101.99	115.38	9.11
059	angle	31.31	35.42	102.19	115.38	9.11
060	tee	34.66	38.92	118.90	120.82	9.11
061	intersection	39.52	43.57	-	129.26	9.11

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: FITTINGS AND BOXES - *continued*

Item	Y60	Each	Rate A				Rate B
			1	2	3	4	5
			Box size				Any type
			Small		Large		
			Class 2	Class 4	Class 2	Class 4	
			£	£	£	£	£
Covers for circular conduit boxes: rubber gasket: fixing screws:							
		light					
062		steel	0.77	0.72	1.83	2.02	1.52
063		steel: overlapping	0.99	1.20	-	-	1.52
		heavy					
064		steel	0.84	1.01	3.25	4.16	1.52
065		malleable iron	2.27	2.43	4.26	5.11	1.52
		dome					
066		combined hook: steel	2.12	2.55	-	-	2.13
		combined socket: female					
067		20mm: steel	2.86	3.14	-	9.29	2.13
068		25mm: steel	3.89	4.04	-	-	2.13
069		20mm: malleable iron	2.69	3.01	7.58	8.91	2.13
070		25mm: malleable iron	3.66	3.85	-	-	2.13
		ball and socket: earthed					
071		20mm: steel	5.43	6.30	-	-	2.43
072		25mm: steel	6.68	7.77	-	-	2.43
073		20mm: malleable iron	8.08	8.36	12.19	14.46	2.43
074		25mm: malleable iron	9.87	10.43	15.01	17.83	2.43

Rate A		Rate B
1	2	3
Class 2		Any type
Class 4	Class 4	
£	£	£

Each

Hooks and loops: malleable iron:

075	loop male: 20mm	1.98	2.13	1.21
076	loop male: 25mm	2.85	3.10	1.21
077	loop female: 20mm	4.59	5.29	1.21
078	loop female: 25mm	5.52	6.52	1.21
079	hook male: 20mm	1.98	2.13	1.21
080	hook male: 25mm	2.85	3.10	1.21
081	hook female: 20mm	2.16	2.50	1.21
082	hook female: 25mm	2.60	3.08	1.21

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: ADAPTABLE BOXES

Item

Y60

Each

Adaptable box: flat lid: fixing screws: plain or knock-out sides:

square pattern:

		Rate A				Rate B	
		1	2	3	4	5	6
		Standard gauge		Heavy gauge		Standard gauge	Heavy gauge
		Class 2	Class 4	Class 2	Class 4	Any class	
		£	£	£	£	£	£
083	75 x 75 x 37.5 mm	2.83	4.64	8.28	10.82	10.63	13.67
084	75 x 75 x 50 mm	2.96	4.84	9.30	11.69	10.63	13.67
085	75 x 75 x 75 mm	3.47	5.64	-	-	10.63	-
086	100 x 100 x 37.5 mm	2.72	4.53	15.58	12.43	10.63	13.67
087	100 x 100 x 50 mm	3.09	5.17	13.31	17.28	10.63	13.67
088	100 x 100 x 75 mm	3.88	6.45	16.72	20.55	10.63	13.67
089	100 x 100 x 100 mm	7.18	11.88	-	-	10.63	-
090	150 x 150 x 37.5 mm	3.88	6.56	-	-	10.63	-
091	150 x 150 x 50 mm	4.43	7.35	20.59	26.92	10.63	13.67
092	150 x 150 x 75 mm	5.41	8.97	25.78	31.04	10.63	13.67
093	150 x 150 x 100 mm	8.03	13.37	31.88	41.24	10.63	13.67
094	225 x 225 x 50 mm	8.54	14.12	-	-	15.19	-
095	225 x 225 x 75 mm	9.58	15.78	50.68	65.12	15.19	18.22
096	225 x 225 x 100 mm	10.88	18.10	-	-	15.19	-
097	225 x 225 x 150 mm	13.87	21.76	-	-	15.19	-
098	300 x 300 x 50 mm	13.08	21.67	-	-	15.19	-
099	300 x 300 x 75 mm	13.22	22.00	-	-	15.19	-
100	300 x 300 x 100 mm	25.88	35.23	95.78	105.60	15.19	18.22
101	300 x 300 x 150 mm	28.82	42.29	-	-	15.19	-
102	450 x 450 x 150 mm	67.57	99.16	-	-	19.74	-

Each

Rubber gasket for adaptable box:

		Rate A	Rate B
		1	2
		£	£
103	75 x 75 mm	0.97	1.52
104	100 x 100 mm	1.32	1.52
105	150 x 150 mm	2.38	1.52
106	225 x 225 mm	3.48	1.52
107	300 x 300 mm	3.56	1.52
108	450 x 450 mm	5.16	1.52

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: ADAPTABLE BOXES - *continued*

Item	Each	Rate A				Rate B	
		1	2	3	4	5	6
		Standard gauge		Heavy gauge		Standard gauge	Heavy gauge
		Class 2	Class 4	Class 2	Class 4	Any class	
		£	£	£	£	£	£
Adaptable box: flat lid: fixing screws: plain or knock-out sides - <i>continued</i>							
rectangular pattern:							
109	100 x 75 x 37.5 mm	2.68	4.46	-	-	10.63	-
110	100 x 75 x 50 mm	2.74	4.58	-	-	10.63	-
111	150 x 75 x 37.5 mm	2.75	4.72	-	-	10.63	-
112	150 x 75 x 50 mm	3.16	5.24	13.60	17.28	10.63	13.67
113	150 x 75 x 75 mm	3.88	6.45	-	-	10.63	-
114	150 x 100 x 37.5 mm	3.54	5.88	-	-	10.63	-
115	150 x 100 x 50 mm	3.62	5.82	21.02	27.22	10.63	13.67
116	150 x 100 x 75 mm	4.65	7.58	22.79	28.18	10.63	13.67
117	225 x 75 x 37.5 mm	4.14	6.86	-	-	10.63	-
118	225 x 75 x 50 mm	4.40	7.31	-	-	10.63	-
119	225 x 75 x 75 mm	5.35	8.74	-	-	10.63	-
120	225 x 150 x 37.5 mm	5.07	10.30	-	-	15.19	-
121	225 x 150 x 50 mm	6.69	11.13	-	-	15.19	-
122	225 x 150 x 75 mm	7.64	12.68	39.71	51.64	15.19	18.22
123	300 x 150 x 50 mm	8.48	14.19	-	-	15.19	-
124	300 x 150 x 75 mm	9.70	16.17	73.80	89.40	15.19	18.22
125	300 x 150 x 100 mm	12.21	20.30	-	-	15.19	-
126	300 x 225 x 50 mm	11.82	15.93	-	-	15.19	-
127	300 x 225 x 75 mm	12.65	21.16	-	-	15.19	-
128	300 x 225 x 100 mm	13.87	23.15	-	-	15.19	-

Each

Rate A	Rate B
1	2
£	£

Rubber gasket for adaptable box:

129	100 x 75 mm	1.32	1.52
130	150 x 75 mm	2.05	1.52
131	225 x 75 mm	2.58	1.52
132	225 x 150 mm	2.58	1.52
133	300 x 150 mm	1.81	1.52
134	300 x 225 mm	2.68	1.52

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: METALLIC: ADAPTABLE BOXES - *continued*

		Rate A	Rate B
Item		1	2
Y60	Each	£	£
	Adaptable box: dust-tight: cover: cast iron class 4: machined surfaced between box and cover: neoprene gasket:		
135	100 x 100 x 50 mm	49.10	15.19
136	125 x 125 x 50 mm	59.00	18.22
137	300 x 150 x 75 mm	144.68	21.26

138 to 200 Not used

RIGID CONDUIT: INSULATING MATERIALS

Specification

Standard:

Comply with:

BS EN 61386: Conduit systems for cable management.

BS EN 61386-21: Rigid conduit systems.

BS 4607: Non metallic conduits and fittings.

Metre

Rate A		Rate B
1	2	3
Gauge		Any
Light	Heavy	gauge
£	£	£

Conduit:

circular: diameter:

201	16 mm	1.14	1.77	12.15
202	20 mm	1.43	1.98	13.67
203	25 mm	2.32	2.68	15.19
204	32 mm	3.45	4.43	16.70
205	38 mm	4.85	6.39	18.22
206	50 mm	7.36	10.34	19.74

Metre

oval: nominal size:

207	13 mm	0.79	10.33
208	16 mm	0.92	11.54
209	20 mm	1.20	12.45
210	25 mm	1.68	14.58
211	32 mm	1.90	16.70

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: INSULATING MATERIALS: FITTINGS AND BOXES

Specification

Conduit fittings and boxes:

Do not use factory made bends, inspection bends or inspection couplers unless approved.

Conduit fittings to be heavy gauge, high impact impact rigid PVC.

Boxes for supporting luminaires or other heavy devices to have metal brackets or insert clips to provide a support independent of the box.

Provide boxes for flexible conduit, accessories and luminaire connection with a brass earthing terminal.

Item
Y60

Each

Small circular box: flat lid: rubber gasket:

standard pattern:

212	terminal	2.47	3.47	4.25
213	through	2.68	3.70	4.25
214	angle	2.68	3.70	4.25
215	tee	2.82	4.03	4.25
216	intersection	3.21	4.45	4.25
217	back outlet	3.47	3.65	4.25
218	terminal and back outlet	3.96	5.60	4.86
219	through and back outlet	3.83	5.60	4.86
220	angle and back outlet	3.83	5.74	4.86
221	tee and back outlet	4.16	5.85	4.86
222	intersection and back outlet	4.17	6.15	4.86
223	looping in box 1 to 4 holes or knockouts	2.19	2.37	4.86

tangent pattern:

224	through	3.11	4.26	4.25
225	angle	3.11	4.26	4.25
226	tee	3.77	4.85	4.25
227	branch - two way "U"	4.15	5.77	4.25
228	branch - three way "Y"	5.27	6.37	4.25
229	twin through way "H"	5.54	6.76	4.25

Each

ADD for:

230	overlapping lid	1.43
231	pendant dome cover	2.13

Rate A		Rate B
1	2	3
Conduit diameter:		Any type
20mm	25mm	
£	£	£

Rate A
1
£

Y60 CONDUIT AND CABLE TRUNKING

RIGID CONDUIT: INSULATING MATERIALS: FITTINGS AND BOXES - *continued*

Item		Rate A	Rate B
		1	2
Y60	<i>Each</i>	£	£

Extension rings for small circular conduit boxes:

232	not exceeding 25mm deep	1.82	1.52
233	25mm to 50mm deep	2.35	1.52

Rate A			Rate B
1	2	3	4
Conduit diameter:			Any
32mm	38mm	50mm	type
£	£	£	£

Each

Square box: flat lid: rubber gasket:

234	terminal	11.71	12.22	25.43	6.07
235	through	14.65	15.69	29.88	6.07
236	angle	14.65	15.69	29.88	6.07
237	tee	17.57	19.08	36.88	6.07
238	intersection	20.52	22.59	44.88	6.07

Rate A	Rate B
1	2
£	£

Each

Adaptable box: flat lid:

239	75 x 75 x 41 mm	2.17	9.11
240	75 x 75 x 53 mm	2.85	9.11
241	100 x 100 x 50 mm	3.55	9.11
242	100 x 100 x 75 mm	3.75	9.11
243	150 x 75 x 50 mm	5.18	9.11
244	150 x 100 x 50 mm	6.29	10.63
245	150 x 150 x 75 mm	6.80	10.63
246	225 x 225 x 75 mm	11.60	12.15

247 to 300 Not used

Y60 CONDUIT AND CABLE TRUNKING

FLEXIBLE CONDUIT: METALLIC

Specification

Standard:

Comply with:

BS EN 61386: Conduit systems for cable management.

BS EN 61386-23: Flexible conduit systems.

Connections:

- brass male adaptors to connect flexible conduit to trunking and equipment not having a threaded entry.
- brass swivel male adaptors to connect flexible conduit to motors and any other equipment having a threaded entry.
- brass female adaptors to connect flexible conduit to trunking and equipment having an external thread.

Item
Y60

Metre

Flexible metallic conduit:

301	10 mm	1.64	2.04	-	5.76	18.22
302	12 mm	1.81	2.36	-	5.26	19.74
303	16 mm	2.12	2.86	5.34	5.78	21.26
304	20 mm	2.71	3.44	5.69	6.84	22.78
305	25 mm	3.23	4.70	8.21	9.04	24.30
306	32 mm	4.76	7.31	12.29	13.24	25.82
307	40 mm	6.04	12.22	20.92	17.41	27.33
308	50 mm	8.74	15.74	27.06	25.25	28.85
309	63 mm	12.70	23.06	48.30	28.76	30.37
310	75 mm	26.01	32.89	-	-	31.89

Rate A				Rate B
1	2	3	4	5
Steel				Any type
covered				
water resistant IP54			water	
general purpose	low fire hazard	tight IP67		
£	£	£	£	

Y60 CONDUIT AND CABLE TRUNKING

FLEXIBLE CONDUIT: METALLIC: ADAPTORS

Item	Each	Rate A			Rate B
		1	2	3	4
		Brass			Any type
		General purpose IP40	Water resistant IP54	Water tight IP67	
		£	£	£	£
Adaptor:					
male: insertion into knockout: locknut					
311	10 mm	2.42	2.10	4.00	3.95
312	12 mm	2.43	2.16	3.63	3.95
313	16 mm	2.93	2.93	4.66	3.95
314	20 mm	3.09	3.15	3.88	4.25
315	25 mm	4.54	4.63	6.26	5.47
316	32 mm	8.40	8.57	8.94	5.47
317	40 mm	13.33	13.33	23.00	6.68
318	50 mm	29.45	29.45	36.01	7.90
319	63 mm	37.72	37.25	45.54	7.90
320	75 mm	67.63	66.79	-	7.90
swivel male: insertion into threaded entry					
321	10 mm	3.74	2.38	4.99	3.95
322	12 mm	2.81	2.77	4.78	3.95
323	16 mm	3.13	3.19	4.91	3.95
324	20 mm	3.66	3.74	4.39	4.25
325	25 mm	5.72	5.83	7.18	5.47
326	32 mm	8.44	8.13	9.32	5.47
327	40 mm	14.33	14.33	21.47	6.68
328	50 mm	30.00	30.00	33.02	7.90
female: to external thread					
329	10 mm	4.35	4.42	9.27	3.95
330	12 mm	2.86	4.70	8.13	3.95
331	16 mm	2.93	3.96	6.10	3.95
332	20 mm	2.79	3.96	4.63	4.25
333	25 mm	4.65	7.31	9.03	5.47
334	32 mm	8.06	10.09	11.58	5.47
335	40 mm	13.13	16.43	24.63	6.68
336	50 mm	27.50	34.41	37.88	7.90

337 to 400 Not used

Y60 CONDUIT AND CABLE TRUNKING

FLEXIBLE OR PLIABLE CONDUIT: NON - METALLIC

Specification

Standard:

Comply with:

BS EN 61386: Conduit systems for cable management.

BS EN 61386-22: Pliable conduit systems.

BS EN 61386-23: Flexible conduit systems.

Item

Y60

Metre

Flexible non-metallic conduit: diameter:

401	13 mm	1.24	1.38	2.59	19.74
402	16 mm	1.82	2.12	3.90	21.26
403	20 mm	2.13	2.46	5.05	22.78
404	25 mm	3.07	3.02	7.54	24.30
405	32 mm	3.78	4.40	9.46	25.82
406	40 mm	6.93	7.38	13.04	27.33
407	50 mm	10.57	11.25	18.06	28.85

Rate A			Rate B
1	2	3	4
Duty:			Any
Light	Medium	Heavy	type
£	£	£	£

Each

Connector:

408	13 mm	1.21	1.48	1.21
409	16 mm	1.21	1.48	1.52
410	20 mm	1.36	1.68	2.13
411	25 mm	2.01	1.97	3.04
412	32 mm	2.53	3.11	4.56
413	40 mm	3.81	4.03	6.07
414	50 mm	6.56	6.75	7.59

Rate A		Rate B
1	2	3
General purpose IP40	Water tight IP67	Any type
£	£	£

Y60 CONDUIT AND CABLE TRUNKING

FLEXIBLE OR PLIABLE CONDUIT: NON - METALLIC - *continued*

Item	Metre	Rate A			Rate B
		1	2	3	4
		Light	Standard	Medium	Any type
		£	£	£	£
Pliable non-metallic conduit: diameter:					
415	13 mm	0.53	0.58	0.66	8.20
416	16 mm	0.61	0.67	0.77	9.72
417	20 mm	0.76	0.85	1.15	11.24
418	25 mm	1.31	1.25	1.55	12.76
419	32 mm	1.97	-	2.28	14.27
420	40 mm	2.81	-	3.09	15.79
421	50 mm	4.03	-	4.73	17.31

Rate A		Rate B
1	2	3
General purpose IP40	Water tight IP67	Any type
£	£	£

Each

Connector:

422	13 mm	1.21	1.48	1.21
423	16 mm	1.21	1.48	1.52
424	20 mm	1.38	1.70	2.13
425	25 mm	2.01	2.51	3.04
426	32 mm	2.53	2.48	4.56
427	40 mm	3.98	4.88	6.07
428	50 mm	6.65	7.05	7.59

429 to 500 Not used

CABLE TRUNKING AND FITTINGS

GENERALLY

Specification

BS EN 50085: Cable trunking systems and cable ducting systems for electrical installations.

Standard:

Comply with:

Use trunking of each type from one manufacturer.

BS 4678: Cable trunking.

SURFACE TRUNKING: STEEL

Specification*Material:*

Sheet steel trunking to BS EN 50085-2-1: Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings.

Unless otherwise ordered by the PM, the protection against corrosion for general use inside buildings shall be Class 2 and outside buildings, in plant rooms and the like shall be Class 3.

Protection:

Class 2:

Electroplated zinc having a minimum thickness of zinc coating of 0.0012mm inside and outside with additional coating of stoved or air drying paint applied at least to the external surface.

Trunking fitted with covers shall provide a minimum degree of protection of IP41 when used inside buildings.

Fittings:

Use bends, tees and angles of similar gauge, type and finish as trunking body and supplied by same manufacturer. Fit ends of runs with removable covers to permit future extension.

Class 3:

Hot dip zinc coated steel to BS EN 10346 and BS EN 10143.

Joints:

Use purpose made connectors of the same manufacture as the trunking.

SURFACE TRUNKING: STEEL: STANDARD

Item	Metre	Rate A									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
Y60		£	£	£	£	£	£	£	£	£	£
Trunking: including lid: protection class 3: compartments:											
501	one	4.70	8.25	7.75	10.68	13.10	9.92	15.72	16.79	18.01	17.17
502	two	8.07	10.24	12.41	11.68	13.82	15.99	16.40	17.76	20.15	27.97
503	three	-	12.40	14.17	13.72	16.41	19.27	17.48	18.89	21.93	33.66
504	four	-	-	-	15.17	18.43	21.87	18.71	20.44	23.94	38.82

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item	Y60	Metre	Rate B									
			1	2	3	4	5	6	7	8	9	10
			50 x	75 x		100 x			150 x			
			50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
			£	£	£	£	£	£	£	£	£	£
		Trunking: including lid:										
505		any type	13.67	16.70	18.22	19.74	21.26	22.78	24.30	25.82	27.33	28.85
		Metre	Rate A									
			1	2	3	4	5	6	7	8	9	10
			225 x					300 x				
			50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
			£	£	£	£	£	£	£	£	£	£
		Trunking: including lid:										
		protection class 3:										
		compartments:										
506		one	20.16	21.87	23.33	27.39	32.60	20.06	23.93	32.60	39.38	43.00
507		two	22.64	25.23	27.11	33.51	37.59	23.06	27.52	39.13	43.68	47.70
508		three	24.64	28.07	31.81	36.04	45.24	25.83	30.82	45.18	54.73	59.78
		Metre	Rate B									
			1	2	3	4	5	6	7	8	9	10
			225 x					300 x				
			50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
			£	£	£	£	£	£	£	£	£	£
		Trunking: including lid:										
509		any type	26.42	27.33	28.25	29.16	30.07	30.98	32.19	33.41	34.62	36.45
		Metre	Rate A									
			1	2	3	4	5	6				
			50 mm	75 mm	100 mm	150 mm	225 mm	300 mm				
			£	£	£	£	£	£				
510		Replacement lid					3.37	4.45	5.58	7.60	10.79	15.64
		Metre	Rate B									
			1	2	3	4	5	6				
			50 mm	75 mm	100 mm	150 mm	225 mm	300 mm				
			£	£	£	£	£	£				
511		Replacement lid					4.56	5.57	6.58	8.10	10.12	12.15

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item		Rate A									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over one com-										
	partment trunking for:										
512	bend	6.03	7.89	7.51	8.69	8.69	8.31	10.51	13.24	14.66	12.73
513	tee	6.76	8.40	8.00	10.07	10.24	9.76	14.86	14.97	15.04	14.40
514	intersection	8.88	13.74	13.05	16.56	16.70	15.85	20.13	20.39	20.45	19.52
515	blank end	1.25	1.68	1.68	1.75	1.89	1.84	2.06	2.12	2.24	2.31
516	bell mouth	9.98	13.11	12.98	13.11	16.35	15.96	16.87	17.32	18.32	18.57
517	change of face unit	12.95	15.71	15.71	16.16	19.94	19.94	20.87	21.64	21.42	23.21
518	pin rack	4.61	4.83	4.88	5.36	5.42	5.52	7.08	7.05	7.03	7.11
519	fire barrier	6.31	5.84	6.12	6.33	6.49	6.43	7.89	7.71	7.60	7.79
520	reducer	-	9.86	9.32	10.01	10.73	10.13	21.22	21.97	21.01	20.06

		Rate B									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over one com-										
	partment trunking for:										
521	bend	12.15	13.36	14.58	15.79	17.31	18.53	19.74	21.26	22.47	23.69
522	tee	17.01	18.53	19.74	21.26	22.47	23.69	24.60	26.42	27.64	29.16
523	intersection	21.56	23.08	24.30	25.82	27.03	28.25	29.16	30.98	32.19	33.71
524	blank end	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
525	bell mouth	14.58	16.04	17.49	18.95	20.77	22.23	23.69	25.51	26.97	28.43
526	change of face unit	12.15	13.36	14.58	15.79	17.31	18.53	19.74	21.26	22.47	23.69
527	pin rack	6.07	6.07	6.07	6.07	6.07	6.07	6.07	7.59	7.59	7.59
528	fire barrier	7.59	7.59	7.59	9.11	9.11	9.11	10.63	10.63	10.63	10.63
529	reducer	-	10.93	12.15	13.06	14.27	15.49	16.70	17.92	19.13	20.35

		Rate A									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over one com-										
	partment trunking for:										
530	bend	13.01	20.15	21.86	26.09	30.19	27.84	28.45	30.13	34.99	35.32
531	tee	15.05	26.98	31.37	36.95	42.49	39.18	41.07	42.80	49.42	51.00
532	intersection	20.65	37.32	40.91	49.06	56.33	46.95	54.58	56.33	64.19	66.88
533	blank end	1.70	2.39	2.83	3.45	4.11	3.46	4.15	4.34	5.01	5.21
534	bell mouth	22.40	28.11	28.74	31.99	33.07	27.26	32.68	32.75	32.79	34.09
535	change of face unit	33.75	35.20	34.26	38.13	39.42	32.49	38.96	39.04	39.08	40.63
536	pin rack	7.94	8.31	8.45	8.58	8.86	14.94	15.42	15.56	15.69	15.82
537	fire barrier	8.02	8.25	8.48	8.71	8.94	9.17	9.40	9.63	9.86	10.09
538	reducer	18.00	21.86	26.25	28.83	33.04	30.61	31.22	33.36	38.44	40.79

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item		Rate B									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over one com-										
	partment trunking for:										
539	bend	24.30	25.21	26.42	27.64	31.59	29.16	30.37	31.59	33.10	34.32
540	tee	28.85	30.37	33.10	35.53	40.70	38.27	40.70	43.43	46.16	48.90
541	intersection	36.14	37.96	40.70	43.13	48.29	45.86	48.29	51.02	53.76	56.49
542	blank end	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68	6.68
543	bell mouth	29.16	30.37	31.59	33.10	34.32	34.02	35.53	37.05	38.88	40.39
544	change of face unit	24.30	25.21	26.42	27.64	31.59	29.16	30.37	31.59	33.10	34.32
545	pin rack	7.59	7.59	7.59	7.59	7.59	9.11	9.11	9.11	9.11	9.11
546	fire barrier	12.15	12.76	13.36	13.97	14.58	13.36	13.97	14.58	15.19	15.79
547	reducer	19.44	20.05	21.26	22.17	25.21	23.39	24.30	25.21	26.42	27.33
		Rate A									
		1	2	3	4	5	6	7	8	9	10
		50 x		75 x		100 x		150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over two com-										
	partment trunking for:										
548	bend	7.97	9.73	11.22	9.64	13.11	9.57	10.99	15.72	14.87	25.35
549	tee	9.98	12.98	15.00	11.68	17.50	19.14	15.35	18.76	20.45	34.13
550	intersection	11.93	14.64	16.92	19.83	19.57	21.64	23.66	23.66	28.11	38.20
551	blank end	1.25	1.68	1.68	1.75	1.89	1.84	2.06	2.12	2.24	2.31
552	bell mouth	11.97	14.19	14.19	13.62	16.43	18.14	17.74	18.57	19.57	31.99
553	change of face unit	13.59	16.18	16.80	17.45	18.00	19.15	20.09	20.48	21.09	24.20
554	pin rack	5.03	6.10	7.04	6.21	6.76	7.28	3.94	4.21	4.50	5.19
555	fire barrier	5.03	6.10	7.04	6.21	6.76	7.28	3.94	4.21	4.50	5.19
556	reducer	-	11.36	9.68	10.60	15.15	11.11	23.41	24.00	22.25	28.55
		Rate B									
		1	2	3	4	5	6	7	8	9	10
		50 x		75 x		100 x		150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over two com-										
	partment trunking for:										
557	bend	13.97	15.19	16.40	17.62	19.13	20.35	21.56	23.08	24.30	25.51
558	tee	18.83	20.35	21.56	23.08	24.30	25.51	26.42	28.25	29.46	30.98
559	intersection	23.39	24.90	26.12	27.64	28.85	30.07	30.98	32.80	34.02	35.53
560	blank end	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
561	bell mouth	16.40	17.86	19.32	20.77	22.60	24.05	25.51	27.33	28.79	30.25
562	change of face unit	12.15	13.36	14.58	15.79	17.31	18.53	19.74	21.26	22.47	23.69
563	pin rack	6.07	6.07	6.07	6.07	6.07	6.07	6.07	7.59	7.59	7.59
564	fire barrier	7.59	7.59	7.59	9.11	9.11	9.11	10.63	10.63	10.63	10.63
565	reducer	-	12.76	13.97	14.88	16.10	17.31	18.53	19.74	20.96	22.17

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item		Rate A									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over two com-										
	partment trunking for:										
566	bend	17.94	22.15	24.04	31.81	39.72	30.95	31.61	37.19	42.01	42.41
567	tee	23.90	30.80	35.79	42.41	52.96	45.14	47.30	49.06	56.34	58.14
568	intersection	26.73	42.10	46.61	55.95	64.86	54.06	62.84	64.24	72.48	75.52
569	bell mouth	24.90	31.11	36.49	42.50	49.42	39.82	47.77	49.80	56.49	58.72
570	reducer	21.86	24.37	26.94	38.81	47.93	31.27	31.89	44.87	47.14	50.01
		Rate B									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over two com-										
	partment trunking for:										
571	bend	27.33	28.55	29.76	30.98	35.23	32.80	34.02	35.23	36.75	37.96
572	tee	36.45	37.96	39.48	41.09	46.73	43.51	45.12	46.73	48.75	50.36
573	intersection	45.56	47.38	49.20	51.21	58.24	54.22	56.23	58.24	60.75	62.76
574	bell mouth	39.48	41.61	43.13	44.89	51.05	47.53	49.29	51.05	53.25	55.01
575	reducer	30.37	31.89	33.41	34.77	39.54	36.82	38.18	39.54	41.25	42.61
		Rate A									
		1	2	3	4	5	6	7	8	9	10
		50 x		75 x		100 x		150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over three com-										
	partment trunking for:										
576	bend	-	10.40	12.87	11.29	15.43	17.49	12.36	17.95	20.84	30.49
577	tee	-	13.81	17.10	17.00	20.78	23.09	16.03	20.94	27.78	40.71
578	intersection	-	15.53	19.19	19.19	23.25	26.11	24.41	27.04	31.12	45.99
579	blank end	-	1.68	1.68	1.75	1.89	1.84	2.06	2.12	2.24	2.31
580	bell mouth	-	15.53	15.53	19.19	23.25	26.11	17.63	19.83	31.42	45.54
581	change of face unit	-	16.18	16.80	17.45	18.00	19.15	20.09	20.48	21.09	24.20
582	pin rack	-	8.03	9.06	7.99	8.53	9.17	4.89	4.21	5.43	6.15
583	fire barrier	-	8.03	9.06	7.99	8.53	9.17	4.89	4.21	5.43	6.15
584	reducer	-	13.00	16.09	12.75	19.45	21.86	25.16	26.29	26.29	37.23

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item		Rate B									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over three com-										
	partment trunking for:										
585	bend	-	17.62	18.83	20.05	21.56	22.78	23.99	25.51	26.73	27.94
586	tee	-	24.30	25.51	27.03	28.25	29.46	30.37	32.19	33.41	34.93
587	intersection	-	29.76	30.98	32.50	33.71	34.93	35.84	37.66	38.88	40.39
588	blank end	-	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
589	bell mouth	-	19.38	20.83	22.29	24.11	25.57	27.03	28.85	30.31	31.77
590	change of face unit	-	13.36	14.58	15.79	17.31	18.53	19.74	21.26	22.47	23.69
591	pin rack	-	6.07	6.07	6.07	6.07	6.07	6.07	7.59	7.59	7.59
592	fire barrier	-	7.59	7.59	9.11	9.11	9.11	10.63	10.63	10.63	10.63
593	reducer	-	14.27	15.49	16.40	17.62	18.83	20.05	21.26	22.47	23.69

		Rate A									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over three com-										
	partment trunking for:										
594	bend	19.50	24.10	26.99	37.33	47.30	33.68	34.41	42.29	48.76	49.22
595	tee	26.02	33.55	39.71	49.74	63.72	49.62	52.00	56.95	62.59	64.61
596	intersection	29.43	46.30	51.90	62.15	71.32	58.88	68.44	71.32	80.55	83.94
597	bell mouth	27.24	34.21	40.10	47.07	59.74	43.79	52.51	53.39	62.15	64.61
598	reducer	24.90	34.21	27.36	45.48	57.73	35.05	35.75	51.60	55.69	59.10

		Rate B									
		1	2	3	4	5	6	7	8	9	10
		225 x					300 x				
		50 mm	75 mm	100 mm	150 mm	225 mm	75 mm	100 mm	150 mm	225 mm	300 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over three com-										
	partment trunking for:										
599	bend	31.59	32.80	34.02	35.40	40.26	37.49	38.88	40.26	42.00	43.39
600	tee	41.91	43.73	45.56	47.42	53.92	50.21	52.07	53.92	56.25	58.11
601	intersection	52.54	54.36	56.19	58.48	66.51	61.92	64.21	66.51	69.37	71.67
602	bell mouth	48.59	50.11	51.63	53.74	61.11	56.90	59.01	61.11	63.75	65.86
603	reducer	34.93	36.75	38.57	40.15	45.66	42.51	44.08	45.66	47.62	49.20

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: STANDARD - *continued*

Item		Rate A									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over four com-										
	partment trunking for:										
604	bend	-	-	-	15.26	17.04	19.49	18.26	22.70	25.52	35.55
605	tee	-	-	-	17.43	18.19	18.30	18.42	18.35	23.02	24.53
606	intersection	-	-	-	24.36	25.01	26.00	26.55	28.00	29.61	31.18
607	blank end	-	-	-	1.75	1.89	1.84	2.06	2.12	2.24	2.31
608	bell mouth	-	-	-	34.68	35.87	37.92	41.24	44.47	45.60	20.19
609	change of face unit	-	-	-	17.45	18.00	19.15	20.09	20.48	21.09	24.20
610	pin rack	-	-	-	9.58	10.25	10.98	5.87	5.05	6.51	7.38
611	fire barrier	-	-	-	9.58	10.25	10.98	5.87	5.05	6.51	7.38
612	reducer	-	-	-	11.34	14.86	15.88	15.25	18.50	20.42	21.84

		Rate B									
		1	2	3	4	5	6	7	8	9	10
		50 x	75 x		100 x			150 x			
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	150 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
	Extra over four com-										
	partment trunking for:										
613	bend	-	-	-	22.17	23.69	24.90	26.12	27.64	28.85	30.07
614	tee	-	-	-	30.68	31.89	33.10	34.02	35.84	37.05	38.57
615	intersection	-	-	-	37.05	38.27	39.48	40.39	42.22	43.43	44.95
616	blank end	-	-	-	5.47	5.47	5.47	5.47	5.47	5.47	5.47
617	bell mouth	-	-	-	23.81	25.63	27.09	28.55	30.37	31.83	33.29
618	change of face unit	-	-	-	15.79	17.31	18.53	19.74	21.26	22.47	23.69
619	pin rack	-	-	-	6.07	6.07	6.07	6.07	7.59	7.59	7.59
620	fire barrier	-	-	-	9.11	9.11	9.11	10.63	10.63	10.63	10.63
621	reducer	-	-	-	17.62	18.83	20.05	21.26	22.47	23.69	24.90

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: LIGHTING

Specification

Lighting trunking cover:

Standard or overlapping lighting trunking covers in steel to match lighting trunking body or high quality colour fast extruded plastic.

Rates for the following include

Lighting trunking:

For couplers.

Note:

Measure covers separately.

Item		50 x 25	50 x 50	50 x 25	50 x 50	mounted	ended
Y60	Metre	£	£	£	£	£	£
622	Lighting trunking	3.73	3.91	5.69	5.98	12.15	9.11
	Each						
	Extra over lighting trunking for:						
623	bend: any type	6.46	9.29	7.97	11.37	6.07	4.56
624	tee: any type	8.82	11.05	10.07	13.47	7.59	5.77
625	crossover	9.78	10.56	12.17	15.56	9.11	6.99
626	stop end	0.98	1.28	1.38	1.68	3.04	3.04
627	flanged end piece	1.83	2.25	1.92	2.09	6.07	6.07
628	hanger or stirrup	2.35	2.35	3.36	3.36	-	2.13
629	girder clamp	3.50	3.50	3.81	3.81	-	3.04
						Rate A	Rate B
						1	2
	Metre					£	£
	Lighting trunking cover						
	metal						
630	pre-galvanised					1.84	1.82
631	white powder coated					3.05	1.82
632	plastic					0.66	1.21
633	plastic: overlap					1.44	1.52
	Accessories:						
634	fitting suspension unit					0.16	1.82
635	male screwed hook					2.76	1.52

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: LIGHTING - *continued*

Item		Rate A	Rate B
		1	2
Y60	<i>Each</i>	£	£
<i>Accessories - continued</i>			
	threaded steel rod suspension: nuts and washers:		
	background support accessories:		
	not exceeding 500mm long:		
636	thread size M6	4.84	7.90
637	thread size M8	6.26	8.50
638	thread size M10	7.71	9.11
639	thread size M12	12.12	10.02
	<i>ADD for each additional 100mm of length :</i>		
640	thread size M6	0.40	0.30
641	thread size M8	0.54	0.36
642	thread size M10	0.66	0.36
643	thread size M12	1.08	0.46

SURFACE TRUNKING: STEEL: SKIRTING

		Rate A				Rate B	
		1	2	3	4	5	6
	<i>Size:</i>					<i>Size:</i>	
	50 x 150 mm	50 x 200 mm				50 x	50 x
	<i>Compartments:</i>					150 mm	200 mm
	Two	Three	Two	Three			
	£	£	£	£	£	£	
644	Skirting trunking: 1.2mm minimum nominal body thickness: protection class 2	20.39	20.90	24.45	24.96	27.33	30.37
	<i>Each</i>						
	Extra over skirting trunking for:						
645	angle piece	13.94	14.75	16.55	17.34	13.67	15.19
646	tee piece	13.94	14.75	16.55	17.34	13.67	15.19
647	flat angle	24.97	28.16	30.48	31.59	18.22	19.74
648	flat tee or bottom/back entry piece	30.48	33.68	36.29	37.40	13.67	15.19
649	end cap	19.96	23.17	24.16	25.27	39.48	45.56
	outlet plate:						
650	single gang	3.91	5.21	4.61	6.15	6.07	7.59
651	2 x single gang	3.91	5.21	4.61	6.15	6.07	7.59
652	double gang	4.98	6.49	5.89	7.68	6.07	7.59
653	blank	4.42	5.82	5.21	6.88	6.07	7.59
	screening box: bushes and locknuts:						
654	single gang	4.05	4.60	4.78	5.43	9.11	10.63
655	double gang	4.67	5.30	5.52	6.26	9.11	10.63

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: BENCH

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Size:			Size:		
		90 x 90mm	110 x 95mm	140 x 75mm	90 x 90mm	110 x 95mm	140 x 75mm
Y60	Metre	£	£	£	£	£	£
656	Bench trunking: nominal 1.2mm minimum body and cover thickness: protection class 2	17.12	14.28	13.40	18.22	19.74	21.26
	Each						
	Extra over bench trunking for:						
657	angle piece	13.34	14.66	15.97	15.19	16.70	18.22
658	end cap	2.16	4.47	6.79	6.07	6.68	7.29
	outlet plate:						
659	single gang	4.97	5.44	5.91	6.07	6.68	7.29
660	2 x single gang	-	6.85	-	-	6.68	-
661	double gang	4.97	-	8.46	6.07	-	7.29
662	blank	4.84	5.29	6.54	4.56	4.86	5.16
	Each						
	Pedestal units						
663	single socket unit				5.98	6.68	
664	double socket units				8.10	7.29	
665	back to back single socket unit				9.91	7.55	
666	back to back double socket unit				14.21	8.50	
667	4-way pyramid unit				104.19	9.11	

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: STEEL: DADO

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Size:			Size:		
		50 x 150mm	50 x 150mm	50 x 200mm	50 x 150mm	50 x 150mm	50 x 200mm
		Compartments:			Compartments:		
Y60	Metre	Two	Three	Three	Two	Three	Three
		£	£	£	£	£	£
668	Dado trunking: 1.2 mm minimum nominal body thickness: protection class 2	18.08	18.84	22.05	21.26	22.78	24.30
	<i>Each</i>						
	Extra over dado trunking for:						
669	angle piece	11.09	12.25	13.64	12.15	13.67	15.19
670	tee piece	22.98	24.14	26.54	15.19	16.70	18.22
671	flat angle	20.93	22.02	22.98	12.15	13.67	15.19
672	flat tee	20.85	24.64	26.54	15.19	16.70	18.22
673	end cap	3.21	3.21	3.36	6.07	6.07	6.07
	outlet plate:						
674	single gang	3.21	3.21	4.45	4.56	6.07	7.59
675	double gang	4.16	4.16	4.45	4.56	6.07	7.59

676 to 700 Not used

Y60 CONDUIT AND CABLE TRUNKING

UNDERFLOOR TRUNKING: STEEL

Specification

Material:

Sheet steel trunking to BS 4678-2.

Protection:

Class 3:

Hot dip zinc coated steel to BS EN 10346 and BS EN 10143.

Connection to vertical trunking:

Provide flanges for connection of vertical trunking and temporary blanking plates. Maintain cross sectional area of compartments with 50 mm minimum radius for connections to vertical trunking.

Rates for the following include

Rate B:

For adjusting and levelling to screed finish.

		Rate A								
		1	2	3	4	5	6	7	8	9
Item	Metre	75 x		100 x		150 x		225 x		330 x
		25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	60 mm
		£	£	£	£	£	£	£	£	£
Trunking:										
compartments:										
701	one	12.86	13.51	14.28	15.99	-	-	-	-	-
702	two	14.93	15.79	16.36	17.80	19.42	21.08	26.35	27.51	-
703	three	-	-	-	-	20.14	21.77	27.61	29.12	30.68
704	four	-	-	-	-	-	-	-	-	31.98
		Rate B								
		1	2	3	4	5	6	7	8	9
	Metre	75 x		100 x		150 x		225 x		330 x
		25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	60 mm
		£	£	£	£	£	£	£	£	£
Trunking:										
705	any type	22.78	23.17	24.30	24.66	25.82	26.21	30.37	30.74	34.93

Y60 CONDUIT AND CABLE TRUNKING

UNDERFLOOR TRUNKING: STEEL - *continued*

Item		Rate A								
		1	2	3	4	5	6	7	8	9
		75 x		100 x		150 x		225 x		330 x
		25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	60 mm
Y60	<i>Each</i>	£	£	£	£	£	£	£	£	£
Extra over trunking for:										
horizontal bend:										
706	one compartment .	27.05	27.32	28.34	28.62	-	-	-	-	-
707	two compartment .	28.39	28.80	29.69	30.20	31.03	31.71	34.42	35.01	-
708	three compartment	-	-	-	-	32.65	33.41	35.45	36.04	82.36
709	four compartment .	-	-	-	-	-	-	-	-	85.85
riser bend for back entry to skirting:										
710	one compartment .	35.17	35.52	36.82	37.21	-	-	-	-	-
711	two compartment .	36.92	37.43	38.59	39.26	40.34	41.22	44.76	45.51	-
712	three compartment	-	-	-	-	42.45	43.44	46.08	46.86	107.09
713	four compartment .	-	-	-	-	-	-	-	-	111.61
riser bend for bottom entry to skirting:										
714	one compartment .	27.05	27.28	28.34	28.62	-	-	-	-	-
715	two compartment .	28.39	28.80	29.69	30.20	31.03	31.71	34.42	35.01	-
716	three compartment	-	-	-	-	32.65	33.41	35.45	36.04	82.36
717	four compartment .	-	-	-	-	-	-	-	-	85.85
718	blank end	1.68	1.78	2.02	2.17	2.73	2.84	3.30	3.52	5.74

		Rate B								
		1	2	3	4	5	6	7	8	9
		75 x		100 x		150 x		225 x		330 x
		25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	25 mm	38 mm	60 mm
	<i>Each</i>	£	£	£	£	£	£	£	£	£
Extra over trunking for:										
horizontal bend:										
719	one compartment .	18.22	18.59	19.74	20.11	-	-	-	-	-
720	two compartment .	19.74	20.11	21.26	21.62	22.78	23.54	25.82	26.58	-
721	three compartment	-	-	-	-	24.30	25.06	27.33	28.09	30.37
722	four compartment .	-	-	-	-	-	-	-	-	33.41
riser bend: back or bottom entry:										
723	one compartment .	30.98	31.59	33.56	34.17	-	-	-	-	-
724	two compartment .	33.56	34.17	36.14	36.75	38.72	39.33	43.89	44.49	-
725	three compartment	-	-	-	-	41.31	41.91	46.47	47.08	51.63
726	four compartment .	-	-	-	-	-	-	-	-	56.79
727	blank end	6.07	6.23	6.68	6.91	7.59	7.97	9.11	9.87	12.15

Y60 CONDUIT AND CABLE TRUNKING

UNDERFLOOR TRUNKING: STEEL: JUNCTION AND SERVICE OUTLET BOXES

Specification

Material:

Junction and service outlet boxes to be constructed from sheet steel with same finish as trunking. Maintain continuity and segregation of compartments through boxes.

Provide separate and segregated access to outlets associated with each wiring compartment.

Rates for the following include

Rate A:

For spigots on boxes for connection to trunking.

For cast metal frame and lids suitable to accept type of floor covering.

For accessory plates with socket outlet to BS 1363.

Item
Y60

Each

Rate A				Rate B			
1	2	3	4	5	6	7	8
For trunking width: 75 or				For trunking width: 75 or			
100 mm	150 mm	225 mm	330 mm	100 mm	150 mm	225 mm	330 mm
£	£	£	£	£	£	£	£

Extra over trunking for:

junction box: adjustable: cross
over bridge: cover:

728	one-way	51.74	54.37	67.42	70.38	30.37	31.89	33.41	34.93
729	two-way	53.71	56.79	68.89	71.91	34.93	36.45	37.96	39.48
730	three-way	56.02	59.98	71.09	74.21	39.48	41.00	42.52	44.04
731	four-way	57.56	63.03	73.17	76.39	44.04	45.56	47.08	48.59

Each

services access box: raising piece: lid:

732	for two accessory plates	51.27	42.52
733	for three accessory plates	56.95	47.08
734	for four accessory plates	62.69	51.63

Rate A	Rate B
1	2
£	£

Y60 CONDUIT AND CABLE TRUNKING

UNDERFLOOR TRUNKING: STEEL: JUNCTION AND SERVICE OUTLET BOXES - *continued*

Item		Rate A	Rate B
		1	2
Y60	<i>Each</i>	£	£
Accessory plates for service access box:			
unserviced:			
735	blank	2.88	3.04
for socket outlet:			
736	one gang	2.88	3.04
737	two gang	2.88	3.04
for data socket:			
738	LAN two gang	10.71	3.04
739	BNC six gang	4.80	3.04
for telephone socket:			
740	one gang	2.88	3.04
741	two gang	2.88	3.04
742	four gang	2.88	3.04
serviced:			
socket outlet: 13 amp: unswitched:			
743	one gang	9.78	18.22
744	two gang	12.64	22.78
745	three gang	22.84	27.33
socket outlet: 13 amp: switched:			
746	one gang	10.67	18.22
747	two gang	13.41	22.78
748	three gang	24.23	27.33
telephone outlet:			
749	one gang	6.30	18.22
750	two gang	9.73	21.26
751	four gang	16.57	27.33
752 to 800 Not used			

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: INSULATING MATERIALS: STANDARD

Specification

Material:

Cable trunking of insulating material to BS 4678-4.

Fittings:

Fittings to be from same manufacturer as trunking.
Use proprietary cable retaining clips at 500 mm maximum intervals on trunking that exceeds 1.8 m in length.

Item	Metre	Rate A						
		1	2	3	4	5	6	7
		16 x 10 mm	16 x 16 mm	25 x 16 mm	38 x 16 mm	38 x 25 mm	38 x 38 mm	50 x 25 mm
		£	£	£	£	£	£	£
Trunking: compartments:								
801	one	1.41	2.23	2.78	3.54	4.27	5.51	5.36
802	one: colour	-	2.67	3.35	-	5.12	-	-
803	two	-	-	-	4.15	5.01	-	5.55
Each								
Extra for:								
804	angle: any type	-	0.72	0.72	0.72	1.77	2.52	2.65
805	tee or three way intersection: any type	-	1.23	1.23	1.23	1.75	2.46	2.66
806	made bend or elbow	-	0.33	0.41	0.53	0.63	0.83	0.81
807	end cap	-	0.72	0.72	0.72	0.90	1.17	1.29
	Metre	Rate B						
		1	2	3	4	5	6	7
		16 x 10 mm	16 x 16 mm	25 x 16 mm	38 x 16 mm	38 x 25 mm	38 x 38 mm	50 x 25 mm
		£	£	£	£	£	£	£
808	Trunking: one or two compartment	7.59	8.20	8.81	9.42	9.87	10.33	10.02
Each								
Extra for:								
809	angle: any type	-	7.59	8.50	9.11	10.02	10.63	10.63
810	tee or three way intersection: any type	-	10.63	11.91	12.76	14.03	14.88	14.88
811	made bend or elbow	-	11.39	12.76	13.67	15.03	15.95	15.95
812	end cap	-	3.04	3.40	3.64	4.01	4.25	4.25

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: INSULATING MATERIALS: STANDARD - *continued*

Item	Y60	Metre	Rate A								
			1	2	3	4	5	6	7	8	9
			50 x	75 x	75 x	100 x	100 x	100 x	150 x	150 x	150 x
			50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	75 mm	100 mm	150 mm
			£	£	£	£	£	£	£	£	
813	Trunking: one compartment		9.35	10.74	13.33	16.10	17.37	20.04	34.10	44.78	45.77
814	ADD for cable divider		3.93	5.14	5.14	6.66	6.66	6.66	9.17	9.17	9.17
	Each										
	Extra for:										
815	angle: any type		10.12	13.51	15.57	23.21	27.78	32.22	45.28	53.83	79.17
816	tee: any type		8.46	12.94	13.32	28.72	39.85	39.85	63.26	81.17	91.97
817	intersection		29.07	32.29	35.02	46.68	52.06	52.06	60.70	76.12	124.23
818	flanged coupling		7.15	8.17	9.82	11.06	13.35	13.35	15.56	19.34	25.17
819	end cap		1.21	1.74	2.28	3.14	4.86	4.86	9.37	11.49	15.97
820	made bend or elbow		1.81	2.14	2.63	3.06	3.39	3.92	7.25	9.09	9.45
821	reducer		-	7.00	7.00	8.27	8.27	8.27	10.11	24.76	24.76

		Rate B								
		1	2	3	4	5	6	7	8	9
		50 x	75 x	75 x	100 x	100 x	100 x	150 x	150 x	150 x
		50 mm	50 mm	75 mm	50 mm	75 mm	100 mm	75 mm	100 mm	150 mm
Metre		£	£	£	£	£	£	£	£	£
822	Trunking: one compartment	10.93	12.15	13.06	14.27	15.19	16.40	17.31	18.83	20.65
823	ADD for cable divider	3.04	3.04	3.64	3.04	3.64	4.25	3.64	4.25	4.86
Each										
Extra for:										
824	angle: any type	11.24	11.54	12.15	12.76	13.06	13.67	14.27	14.88	15.19
825	tee: any type	15.73	16.16	17.01	17.86	18.28	19.13	19.98	20.83	21.26
826	intersection	20.23	20.77	21.87	22.96	23.51	24.60	25.69	26.79	27.33
827	flanged coupling	19.10	19.62	20.65	21.69	22.20	23.23	24.27	25.30	25.82
828	end cap	4.49	4.62	4.86	5.10	5.22	5.47	5.71	5.95	6.07
829	made bend or elbow	16.86	17.31	18.22	19.13	19.59	20.50	21.41	22.32	22.78
830	reducer	-	19.62	20.65	21.69	22.20	23.23	24.27	25.30	25.82

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: INSULATING MATERIALS: SKIRTING

Item	Y60	Metre	Rate A			Rate B		
			1	2	3	4	5	6
			50 x			50 x		
			170 mm	212 mm	254 mm	170 mm	212 mm	254 mm
			£	£	£	£	£	£
831		Skirting trunking: three compartment	22.01	25.77	29.64	12.15	13.67	15.19
		<i>Each</i>						
		Extra for:						
832		angle: internal or external	5.49	7.11	8.43	6.07	6.83	7.59
833		flat angle	45.97	53.90	62.51	6.07	6.83	7.59
834		flat tee	64.77	73.32	73.32	8.50	9.57	10.63
		socket outlet box: adaptor plate:						
835		single gang	1.84	1.84	1.84	6.07	6.07	6.07
836		double gang	2.29	2.29	2.29	6.07	6.07	6.07
837		mini-trunking adaptor	1.15	1.15	1.15	4.56	4.56	4.56
838		end cap	2.79	3.14	3.38	2.43	2.73	3.04

SURFACE TRUNKING: INSULATING MATERIALS: DADO

	Metre	Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		25 x					25 x				
		100 mm	100 mm	170 mm	212 mm	254 mm	100 mm	100 mm	170 mm	212 mm	254 mm
		£	£	£	£	£	£	£	£	£	£
		Dado trunking:									
		compartments:									
839	one	18.23	20.64	-	-	-	10.63	11.39	-	-	-
840	two	20.64	22.77	-	-	-	10.63	11.39	-	-	-
841	three	-	-	22.13	25.89	29.75	-	-	12.15	13.67	15.19
	<i>Each</i>										
	Extra for:										
842	angle: internal										
	or external	30.44	37.42	38.92	41.16	47.21	5.16	5.47	6.07	6.83	7.59
843	flat angle	30.44	37.42	45.97	53.90	62.51	5.16	5.47	6.07	6.83	7.59
844	flat tee	44.85	54.69	64.77	73.32	85.03	7.23	7.65	8.50	9.57	10.63
	socket outlet box:										
	adaptor plate:										
845	single gang . . .	2.84	2.84	2.84	2.84	2.84	6.07	6.07	6.07	6.07	6.07
846	double gang . .	5.06	5.06	5.06	5.06	5.06	6.07	6.07	6.07	6.07	6.07
847	end cap	2.13	3.04	5.58	6.28	6.76	2.07	2.19	2.43	2.73	3.04

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: INSULATING MATERIALS: ARCHITRAVE

Item	Metre	Rate A			Rate B		
		1	2	3	4	5	6
		Compartments:			Compartments:		
		2	3	3	2	3	3
		20 x 58 mm	20 x 75 mm	20 x 85 mm	20 x 58 mm	20 x 75 mm	20 x 85 mm
		£	£	£	£	£	£
848	Skirting / architrave trunking	6.85	7.88	8.31	12.15	13.67	14.27
	<i>Each</i>						
	Extra for:						
849	angle: internal or external	-	1.05	1.09	-	5.16	5.47
850	flat angle	1.09	1.10	-	4.56	5.16	-
851	flat tee	2.89	-	-	6.38	-	-
	socket outlet / switch housing:						
852	single gang	3.43	3.43	3.43	6.07	6.07	6.07
853	double gang	4.92	4.92	-	6.07	6.07	-
854	mini-trunking adaptor	1.64	1.64	1.64	4.56	4.56	4.56
855	skirting / architrave adaptor	1.09	1.12	-	5.01	5.68	-
856	end cap	1.09	1.09	1.09	1.82	2.07	2.19

SURFACE TRUNKING: INSULATING MATERIALS: BENCH

	Metre	Rate A		Rate B	
		1	2	3	4
		Single	Double	Single	Double
		105 x 90 mm	105 x 180 mm	105 x 90 mm	105 x 180 mm
		£	£	£	£
857	Bench trunking: one compartment: 90 x 90mm	25.67	55.33	12.15	15.19
858	ADD for cable divider	1.37	1.37	1.52	1.52
	<i>Each</i>				
	Extra for:				
859	angle: internal or external	30.95	61.89	9.11	10.63
860	end cap	9.12	9.99	3.04	3.64
	bench unit:				
861	1-gang	14.69	26.21	6.07	7.59
862	2-gang	17.16	33.10	6.83	8.35
863	3-gang	18.89	35.78	7.59	9.11
864	1 + 2-gang	20.63	35.01	8.35	9.87

Y60 CONDUIT AND CABLE TRUNKING

SURFACE TRUNKING: INSULATING MATERIALS: CORNICE

Item		Rate A		Rate B	
		1	2	3	4
		40 x	90 x	40 x	90 x
		40 mm	90 mm	40 mm	90 mm
Y60	<i>Metre</i>	£	£	£	£
865	Cornice trunking	5.34	6.91	13.67	15.19
	<i>Each</i>				
	Extra for:				
866	angle: internal or external	1.46	1.78	10.63	12.15
867	mini-trunking adaptor / intersection	2.01	2.55	7.59	9.11
868	end cap	1.33	1.61	3.04	4.56

UNDERFLOOR TRUNKING: INSULATING MATERIALS

Specification

Material:

Cable trunking of insulating material to BS 4678-4

		Rate A		Rate B	
		1	2	3	4
		60 x	90 x	60 x	90 x
		25 mm	35 mm	25 mm	35 mm
	<i>Metre</i>	£	£	£	£
869	Under-floor trunking	1.51	2.38	2.13	2.73
	<i>Each</i>				
	Extra for:				
870	bend: any type	7.28	7.41	5.16	6.07

Y60 CONDUIT AND CABLE TRUNKING

UNDERFLOOR TRUNKING: INSULATING MATERIALS: JUNCTION AND SERVICE OUTLET BOXES

Item		Rate A	Rate B
		1	2
Y60	Each	£	£
Extra for:			
junction box: base: frame and cover assembly: elevator / screeding kit:			
871	twin duct entries	42.80	12.15
872	triple duct entries	59.48	15.19
vertical access box: cover:			
873	twin duct entries	36.96	7.59
874	triple duct entries	41.47	9.11
outlet box: segregator fixing kit:			
875	two compartment	58.55	10.63
876	three compartment	67.09	12.15
Accessory plates for outlet box:			
unserviced:			
877	blank	2.08	3.04
for socket outlet:			
878	one gang	2.08	3.04
879	two gang	2.08	3.04
for data socket:			
880	LAN two gang	7.76	3.04
881	BNC six gang	3.48	3.04
for telephone socket:			
882	one gang	2.08	3.04
883	two gang	2.08	3.04
884	four gang	2.08	3.04
serviced:			
socket outlet: 13 amp: unswitched:			
885	one gang	7.08	18.22
886	two gang	7.98	22.78
887	three gang	11.90	27.33
socket outlet: 13 amp: switched:			
888	one gang	7.74	18.22
889	two gang	8.63	22.78
890	three gang	12.96	27.33
telephone outlet:			
891	one gang	7.59	18.22
892	two gang	13.10	21.26
893	four gang	24.14	27.33

Y61: HV / LV Cables and wiring

GENERALLY - CABLES AND WIRING

Materials

Cables to be delivered to site with seals intact, labelled with manufacturer's name, size, description, BS number, classification, length, grade and date of manufacture.

Installation

Generally:

Use and install cables only as directed in the appropriate standard or as directed by the manufacturer in writing. Lay cables in one length unless otherwise indicated. Obtain permission from PM for all through joints, and where overall length requirement exceeds practical drum size.

Use cables with "harmonised" cable core colours in accordance with BS7671.

Unarmoured cables:

Install and use unarmoured cable to BS 6004, BS EN 50525, BS 6195, BS 6231 and BS 7211 in accordance with BS 7540 or the manufacturer's written instructions.

LSF cables:

Install LSF cables in accordance with manufacturer's instructions. Ensure oversheaths are not damaged by abrasion or scuffing.

In conduit and trunking:

Install cables so that they are orderly and capable of being withdrawn. Allow for full range of movement at building construction movement joints.

On rack and tray:

Place cables side by side or as indicated. Fix using cleats or cable ties so that any cable may be individually removed.

On surface:

Dress cables flat, free from twists, kinks and strain, and align parallel to building elements. When glands and clamps are not required, take sheathing of cables into accessory boxes and equipment and protect against abrasion using grommets or similar sharp edge protection.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.30.*

Rate E: For re-use - *multiply by 0.75.*

Definition of Terms

Laid:

In trench, open duct or trunking.

Drawn:

Into conduit, enclosed duct or trunking.

GENERALLY - CABLES AND WIRING - *continued*

Method of Measurement

Cables in conduits, ducts, trunking, trays or the like:

Measure as the net length of the conduit, duct, trunking, tray etc. Otherwise measure as laid (but without allowance for sag) between the boxes of switchgear, fittings, accessories or the like. Make the following allowances:

- i. 0.30 metre on each cable entering fittings or accessories.
- ii. 0.60 metre on each cable entering equipment or control gear.

Cleats and hangers, cable terminations and cable jointing:

Measure separately.

Connecting cable ends and tails:

Are included elsewhere within other Items.

Note

Cables and wiring:

The Rates in this Section apply to cables and wiring with copper conductors.

Rates for the following include

Rate A:

For any costs in connection with hiring cable drums and disposal.

Rate B:

For baring conductors.

For supplying components and materials for and fixing the following:

- i. capping ends.
- ii. cable identification (e.g. adhesive coloured bands laminated plastic discs or the like).
- iii. cable core identification (e.g. plastic stretch or shrink ferrules).
- iv. trefoil bonding for single-core cables.
- v. cable saddles, clips, ties or the like.
- vi. cleats where cable is described as fixed to any background
- vii. temporary and permanent duct seals.
- viii. taping all line conductors (where single-core cables run in trunking) of three-phase circuits together at not exceeding 500 mm centres.

For providing draw wires, draw cables or the like and drawing cables / wires into ducts, conduits or trunking where cable is described as 'drawn'.

For removing and replacing covers, lids and other means of access where cable / wiring is installed in ducts, conduits, trunking or trays.

For drawing cable/wiring into new or existing conduits, ducts or trunking (including those containing existing cables) where cables are described as 'drawn'.

For installing cables in service ducts.

For site insulation and continuity testing on alarm, control, communication and monitoring cables as directed.

Rates D and E:

For cleaning, coiling, labelling cable / wiring on drums provided (Rate E).

For removing cable / wiring where concealed but accessible.

STANDARD FLEXIBLE CORDS AND INDUSTRIAL CABLES

GENERALLY

Specification*Standard:*

Comply with:

BS 6004: Electric cables. PVC insulated, non-armoured cables for voltages up to and including 450/750 V, for electric power, lighting and internal wiring.

BS EN 50525: Low voltage energy cables of voltages up to and including 450/750 V.

BS 6195: Electric cables. Rubber or silicone rubber insulated flexible cables and cords for coil end leads.

BS 6231: Electric cables. Single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and controlgear wiring.

Installation - flexible cords:

Grip cords securely at connections. Where they do not form an integral part of the connected accessory or equipment, provide separate proprietary cord grips.

FLEXIBLE CORDS

Item	Metre	Rate A					Rate B
		1	2	3	4	5	6
		Cross-sectional area					Any
		0.5 mm ²	0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	type
Y61		£	£	£	£	£	£
	300 / 300 V: flexible cord						
	PVC insulated: non-sheathed						
001	two core: parallel twin	0.29	0.40	-	-	-	1.52
	PVC insulated: PVC sheathed						
002	two core: parallel twin	0.44	0.54	-	-	-	2.28
003	two core: circular twin	0.34	0.53	-	-	-	2.28
004	three core	0.47	0.73	-	-	-	2.58
	rubber insulated: textile braided						
005	three core	-	1.61	1.78	2.24	-	3.19
	300 / 500 V: flexible cord						
	PVC insulated: non-sheathed						
006	one core	0.15	0.19	0.24	-	-	0.91
	PVC insulated: PVC sheathed						
007	two core: parallel twin	-	0.57	-	-	-	2.28
008	two core: circular twin	-	0.54	0.71	1.00	2.13	2.28
009	three core	-	0.61	0.75	1.04	1.82	2.58
010	four core	-	1.47	1.72	2.45	3.78	2.89
011	five core	-	2.99	3.24	4.54	7.15	3.19

FLEXIBLE CORDS - *continued*

Item	Metre	Rate A					Rate B
		1	2	3	4	5	6
		Cross-sectional area					Any
		0.5 mm²	0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	type
Y61		£	£	£	£	£	£
300 / 500 V: flexible cord for use in high temperature zones							
PVC insulated: PVC sheathed: heat resistant							
012	two core	0.75	0.90	-	-	-	2.28
013	three core	1.01	1.08	1.47	2.05	3.06	2.58
014	four core	-	1.32	1.81	2.52	3.76	2.89

	Metre	Rate A			Rate B		
		1	2	3	4		
		Cross-sectional area			Any		
		1.5 mm²	2.5 mm²	4.0 mm²	type		
		£	£	£	£		
300 / 500 V: flexible cord for use in low temperature zones							
PVC insulated: PVC sheathed: low temperature resistant							
015	two core			0.58	0.81	-	2.28
016	three core			0.58	0.96	1.72	2.58

	Metre	Rate A					Rate B
		1	2	3	4	5	6
		Cross-sectional area					Any
		0.5 mm²	0.75 mm²	1.0 mm²	1.5 mm²	2.5 mm²	type
		£	£	£	£	£	£
300 / 500 V: flexible cord							
rubber insulated: rubber sheathed							
017	two core	0.95	0.66	0.81	1.14	1.66	2.28
018	three core	1.16	0.85	0.99	1.37	2.02	2.58
019	four core	-	1.23	1.45	1.82	2.72	2.89
020	five core	-	3.05	3.36	4.28	6.08	3.19
EPR insulated: HOFR sheathed: heat resistant							
021	two core	1.40	1.16	1.64	1.83	2.82	2.28
022	three core	1.24	1.35	1.61	1.99	2.83	2.58
023	four core	-	2.40	2.80	3.54	4.55	2.89
rubber insulated: rubber sheathed: screened: rubber outer sheath							
024	three core	-	6.05	8.39	7.37	9.83	3.34
025	four core	-	8.98	9.50	8.34	10.40	3.95

FLEXIBLE CABLES: LOW SMOKE AND FUME

Specification
Standard:

Comply with:

Common test methods for cables under fire conditions:

BS EN 60332-1-2: Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.

BS EN 60754: Tests on gases evolved during combustion of materials from cables.

BS EN 61034-2: Measurement of smoke density of cables burning under defined conditions. Test procedure and requirements.

Item

Y61
Metre

300 / 500 V: insulated flexible cable: flame retardant to BS EN 60332-1-2: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2 and BS EN 60754

026	two core	1.06	1.25	1.66	2.31	2.28
027	three core	1.19	1.27	1.72	2.67	2.58
028	four core	1.38	1.57	2.02	3.11	2.89

Rate A				Rate B
1	2	3	4	5
Cross-sectional area				Any
0.75 mm ²	1.0 mm ²	1.5 mm ²	2.5 mm ²	type
£	£	£	£	£

FLEXIBLE CABLES: NON-ARMoured

Metre

450 / 750 V: flexible cable

PVC insulated: non-sheathed: to BS 6004

029	one core	0.27	0.48	0.92	0.76
-----	----------------	------	------	------	------

rubber insulated: HOFR sheathed: heat resistant

030	two core	-	-	3.85	2.58
031	three core	-	-	5.00	2.89
032	four core	-	-	11.07	3.19

Rate A			Rate B
1	2	3	4
Cross-sectional area			Any
1.5 mm ²	2.5 mm ²	4.0 mm ²	type
£	£	£	£

Y61 HV / LV CABLES AND WIRING

FLEXIBLE INDUSTRIAL CABLES

Item	Metre	Rate A			Rate B
		1	2	3	4
		Cross-sectional area			Any
		1.5 mm ²	2.5 mm ²	4.0 mm ²	type
Y61		£	£	£	£
450 / 750 V: flexible cable: flexible tinned copper conductors: EPR insulated:					
PCP sheathed: oil and flame retardant					
033	two core	1.13	2.31	-	2.28
034	three core	1.38	1.96	2.97	2.58
035	four core	1.88	2.56	3.45	2.89

	Metre	Rate A				
		1	2	3	4	5
		Cross-sectional area				
		4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²
		£	£	£	£	£
CSP sheathed: heat, oil and flame retardant						
036	two core	2.20	2.99	5.30	7.26	8.89
037	three core	2.87	3.83	7.39	9.74	14.26
038	four core	3.82	6.38	9.54	12.88	19.41
039	five core	5.91	9.85	14.78	19.91	30.03

	Metre	Rate B				
		1	2	3	4	5
		Cross-sectional area				
		4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²
		£	£	£	£	£
040	two core	2.58	2.89	3.19	3.49	3.80
041	three core	2.89	3.19	3.49	3.80	4.10
042	four core	3.19	3.49	3.80	4.10	4.40
043	five core	3.49	3.80	4.10	4.40	4.71

Y61 HV / LV CABLES AND WIRING

FLEXIBLE INDUSTRIAL CABLES - *continued*

Item	Metre	Rate A		Rate B
		1	2	3
		Heat resisting		Any type
		70° C	105° C	
		Tri-rated		
Y61		£	£	£
600 / 1000 V: flexible cable: stranded copper conductors: PVC-insulated: for switchgear and controlgear to BS 6231				
044	0.5 mm ²	0.10	0.10	2.28
045	0.75 mm ²	0.11	0.11	2.28
046	1.0 mm ²	0.13	0.15	2.43
047	1.5 mm ²	0.22	0.19	2.58
048	2.5 mm ²	0.32	0.34	2.73
049	4 mm ²	0.57	0.49	2.89
050	6 mm ²	0.68	0.75	3.04
051	10 mm ²	1.09	1.39	3.34
052	16 mm ²	1.39	2.58	3.64
053	25 mm ²	1.85	3.49	3.95
054	35 mm ²	4.04	4.83	4.56
055	50 mm ²	-	6.68	6.07
056	70 mm ²	-	10.50	7.59
057	95 mm ²	-	11.46	9.11
058	120 mm ²	-	14.10	10.63

	Rate A	Rate B
	1	2
Metre	£	£
300 / 500 V: flexible cable: coil lead: tinned copper conductors: to BS 6195		
EPR/CSP composite sheathed: flame retardant: type 4: category A		
0.75 mm ²	0.22	2.28
1.0 mm ²	0.27	2.43
1.5 mm ²	0.34	2.58
2.5 mm ²	0.53	2.73
4 mm ²	0.82	2.89
6 mm ²	1.48	3.04
10 mm ²	2.40	3.34

Y61 HV / LV CABLES AND WIRING

FLEXIBLE INDUSTRIAL CABLES - *continued*

Item	Metre	Rate A		Rate B	
		1		2	
		£		£	
Y61					
	600 / 1000 V: cable: coil lead: to BS 6195				
	EPR/CSP sheathed: flame retardant: type 4: category C				
066	16 mm ²		3.12		3.64
067	25 mm ²		4.64		3.95
068	35 mm ²		6.50		4.56
069	50 mm ²		9.46		6.07
070	70 mm ²		12.66		7.59
071	95 mm ²		16.76		9.11
072	120 mm ²		24.28		10.63
	Insulated welding cable: flexible copper conductors: 85° C rubber insulated:				
	HOFR sheathed				
073	16 mm ²		3.10		3.64
074	25 mm ²		4.06		3.95
075	35 mm ²		5.58		4.56
076	50 mm ²		7.26		6.07
077	70 mm ²		9.99		7.59
078	95 mm ²		12.71		9.11
079	120 mm ²		16.60		10.63

STANDARD WIRING CABLES

WIRING CABLES

	Metre	Rate A			Rate B
		1	2	3	4
		Cross-sectional area			Laid or
		0.5 mm ²	0.75 mm ²	1.0 mm ²	drawn
		£	£	£	£
	300 / 500 V: wiring cable (non-armoured) to BS 6004				
	PVC insulated: non-sheathed				
080	one core	0.06	0.08	0.16	0.76
	PVC insulated: non-sheathed: heat resistant				
081	one core	0.08	0.09	0.10	0.76

Y61 HV / LV CABLES AND WIRING

WIRING CABLES - *continued*

Item	Metre	Rate A	Rate B	
		1	2	3
			Laid or drawn	Fixed to any back- ground
Y61		£	£	£
300 / 500 V: wiring cable (non-armoured) to BS 6004 - <i>continued</i>				
PVC insulated: PVC sheathed				
one core				
082	1.0 mm ²	0.32	0.76	2.58
083	1.5 mm ²	0.42	0.85	2.73
084	2.5 mm ²	0.71	0.91	3.04
085	4 mm ²	1.15	1.06	3.49
086	6 mm ²	1.53	1.21	3.95
087	10 mm ²	2.43	1.37	4.40
088	16 mm ²	2.80	1.52	4.86
089	25 mm ²	5.36	1.67	5.32
090	35 mm ²	8.16	1.82	5.77
PVC insulated: PVC sheathed				
one core: earth continuity conductor				
091	1.0 mm ²	0.53	0.91	3.04
092	1.5 mm ²	0.67	1.06	3.49
two core: earth continuity conductor				
093	1.0 mm ²	0.25	1.06	3.49
094	1.5 mm ²	0.32	1.21	3.95
095	2.5 mm ²	0.44	1.37	4.40
096	4 mm ²	2.24	1.52	4.86
097	6 mm ²	2.67	1.67	5.32
098	10 mm ²	4.88	1.82	5.77
099	16 mm ²	7.78	1.97	6.23
three core: earth continuity conductor				
100	1.0 mm ²	1.01	1.21	3.95
101	1.5 mm ²	1.61	1.37	4.40
102	2.5 mm ²	1.62	1.52	4.86
103	4 mm ²	5.28	1.82	5.77
300 / 500 V: insulated flexible festoon cable: flexible tinned copper conductors:				
EPR insulated: PCP sheathed: oil and flame retardant				
two core: parallel twin				
104	2.5 mm ²	1.77	1.97	6.23

Y61 HV / LV CABLES AND WIRING

WIRING CABLES - *continued*

Item	Metre	Rate A	Rate B	
		1	2	3
			Laid or drawn	Fixed to any back- ground
Y61		£	£	£
450 / 750 V: wiring cable (non-armoured) to BS 6004				
PVC insulated: non-sheathed				
one core				
105	1.5 mm ²	0.14	0.76	2.58
106	2.5 mm ²	0.20	0.91	3.04
107	4 mm ²	0.66	1.06	3.49
108	6 mm ²	0.95	1.21	3.95
109	10 mm ²	1.78	1.37	4.25
110	16 mm ²	3.12	1.52	4.56
111	25 mm ²	3.24	1.67	4.86
112	35 mm ²	4.04	1.82	5.16
113	50 mm ²	5.88	1.97	5.47
114	70 mm ²	7.41	2.13	5.77
115	95 mm ²	11.70	2.28	6.07
116	120 mm ²	15.91	2.43	6.38
117	150 mm ²	19.63	2.73	6.83
118	185 mm ²	25.39	3.04	7.29
119	240 mm ²	33.14	3.34	7.75
120	300 mm ²	39.83	3.64	8.20
121	400 mm ²	44.71	4.25	9.42
122	500 mm ²	54.62	5.16	11.69
123	630 mm ²	70.98	6.07	13.97

WIRING CABLES: LOW SMOKE AND FUME

Specification*Standard:*

Comply with:

BS 7211: Thermosetting insulated cables (non-armoured) for electric power and lighting with low emission of smoke and corrosive gases when affected by fire.

Common test methods for cables under fire conditions:

BS EN 60332-1-2: Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.

BS EN 60332-3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables. Category C.

BS EN 60754: Tests on gases evolved during combustion of materials from cables.

Procedures:

BS EN 60754-1: Determination of the amount of halogen acid gas content.

BS EN 60754-2: Determination of degree of acidity (by pH measurement) and conductivity.

BS EN 61034-2: Measurement of smoke density of cables burning under defined conditions.

Test procedure and requirements.

Item
Y61

Metre

300 / 500 V: wiring cable: insulated and sheathed to BS 7211: flame retardant to BS EN 60332-1-2: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2 and BS EN 60754-1 and 2.

one core: circuit protective conductor:

124	1.0 mm ²	0.46	0.91	3.04
125	1.5 mm ²	0.48	1.06	3.49

two core: circuit protective conductor:

126	1.0 mm ²	0.49	1.06	3.49
127	1.5 mm ²	0.52	1.21	3.95
128	2.5 mm ²	0.71	1.37	4.40
129	4 mm ²	2.29	1.52	4.86
130	6 mm ²	3.28	1.67	5.32
131	10 mm ²	5.87	1.82	5.77
132	16 mm ²	9.12	1.97	6.23

three core: circuit protective conductor:

133	1.0 mm ²	1.63	1.21	3.95
134	1.5 mm ²	1.95	1.37	4.40
135	2.5 mm ²	3.36	1.52	4.86

Rate A	Rate B	
1	2	3
	Laid or drawn	Fixed to any back- ground
£	£	£

WIRING CABLES: LOW SMOKE AND FUME - *continued*

Item	Metre	Rate A			Rate B	
		1			2	3
					Laid or drawn	Fixed to any back-ground
Y61		£	£	£	£	£
450 / 750 V: wiring cable: insulated and sheathed flame retardant to BS EN 60332-1-2: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2 and BS EN 60754-1 and 2.						
to BS 7211: flame retardant to BS EN 60332-1-2:						
one core:						
136	1.5 mm ²	0.25	0.76	2.58		
137	2.5 mm ²	0.34	0.91	3.04		
138	4 mm ²	0.76	1.06	3.49		
139	6 mm ²	1.11	1.21	3.95		
140	10 mm ²	1.90	1.37	4.25		
141	16 mm ²	2.69	1.52	4.56		
142	25 mm ²	5.36	1.67	4.86		
143	35 mm ²	6.93	1.82	5.16		
144	50 mm ²	7.96	2.13	5.47		
145	70 mm ²	11.59	2.43	5.77		
146	95 mm ²	14.37	2.73	6.07		
147	120 mm ²	17.94	3.04	6.38		
148	150 mm ²	22.40	3.34	6.68		
149	185 mm ²	27.80	3.64	6.99		
150	240 mm ²	31.75	3.95	7.59		
151	300 mm ²	41.07	4.25	8.20		
152	400 mm ²	50.85	4.56	9.57		
153	500 mm ²	63.62	5.16	10.93		
154	630 mm ²	78.82	5.77	12.45		
screened: flame retardant to BS EN 60332-1-2 and BS EN 60332-3-4:						
two core: circuit protective conductor:						
155	1.0 mm ²	1.43	1.06	3.49		
156	1.5 mm ²	1.61	1.21	3.95		
157	2.5 mm ²	2.06	1.37	4.40		
158	4 mm ²	3.50	1.52	4.86		
three core: circuit protective conductor:						
159	1.0 mm ²	1.64	1.21	3.95		
160	1.5 mm ²	1.87	1.37	4.25		
161	2.5 mm ²	2.48	1.52	4.56		
162	4 mm ²	4.26	1.82	4.86		
four core: circuit protective conductor:						
163	1.0 mm ²	1.91	1.52	4.56		
164	1.5 mm ²	2.25	1.67	4.86		
165	2.5 mm ²	2.90	1.82	5.16		
166	4 mm ²	4.74	1.97	5.47		

WIRING CABLES: FIRE RESISTANT

Specification*Standard:*

Comply with:

BS 5839-1: Fire detection and alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance.

BS 6387: Test method of resistance to fire of cables required to maintain circuit integrity under fire conditions.

BS 7211: Thermosetting insulated cables (non-armoured) for electric power and lighting with low emission of smoke and corrosive gases when affected by fire.

BS 7629: 300/500 V fire resistant electric cables having low emission of smoke and corrosive gases when affected by fire.

Common test methods for cables under fire conditions:

IEC 60331-21: Tests for electric cables under fire conditions - circuit integrity - Part 21 : procedures and requirements - cables of rated voltage up to and including 0.6 / 1.0kV.

BS EN 50200: Method of test for resistance to fire of unprotected small cables for use in emergency circuits.

BS 8434-2: Methods of test for assessment of the fire integrity of electric cables. Test for unprotected small cables for use in emergency circuits. BS EN 50200 with a 930° flame and with water spray.

BS EN 60332-1-2: Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame.

BS EN 60332-3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables. Category C.

BS EN 61034-2: Measurement of smoke density of cables burning under defined conditions. Test procedure and requirements.

BS EN 60754: Tests on gases evolved during combustion of materials from cables.

BS EN 60754-1: Determination of the amount of halogen acid content.

BS EN 60754-2: Determination of degree of acidity (by pH measurement) and conductivity.

Item
Y61*Metre*

450 / 750 V: insulated cable: fire resistant to IEC 60331-21, BS 6387 category CWZ, EN 50200 PH120, BS 8434-2 120 minutes, BS EN 60332-1-2, low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2, BS EN 60754-1 and 2.

one core:

167	1.0 mm ²	1.70	0.76	2.58
168	1.5 mm ²	1.78	0.91	3.04
169	2.5 mm ²	2.14	1.06	3.49
170	4 mm ²	2.58	1.21	3.95
171	6 mm ²	2.73	1.67	4.86
172	10 mm ²	4.17	2.43	6.38

Rate A	Rate B	
1	2	3
	Laid or drawn	Fixed to any back-ground
£	£	£

Y61 HV / LV CABLES AND WIRING

WIRING CABLES: FIRE RESISTANT: BS 5839-1 STANDARD CATEGORY

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
Y61		£	£	£	£
300 / 500 V: insulated cable to BS 7629-1: fire resistant to BS 5839-1 standard category, BS 6387 category CWZ, BS EN 50200 PH30 and PH60, BS EN 60332-1-2, BS EN 60332-3-24: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2, BS EN 60754-1 and 2.					
rigid					
two core: circuit protective conductor:					
173	1.0 mm ²	1.86	1.06	1.82	3.49
174	1.5 mm ²	1.39	1.21	2.13	3.95
175	2.5 mm ²	2.88	1.37	2.43	4.25
176	4 mm ²	4.49	1.67	2.73	4.56
three core: circuit protective conductor:					
177	1.0 mm ²	2.37	1.21	2.13	3.95
178	1.5 mm ²	2.96	1.37	2.43	4.25
179	2.5 mm ²	3.67	1.67	2.73	4.56
180	4 mm ²	6.05	1.97	3.04	5.16
four core: circuit protective conductor:					
181	1.0 mm ²	2.87	1.67	2.73	4.56
182	1.5 mm ²	3.58	1.97	3.04	5.16
183	2.5 mm ²	5.01	2.28	3.34	5.77
184	4 mm ²	7.86	2.58	3.64	6.38
seven core: circuit protective conductor:					
185	1.0 mm ²	4.16	1.97	3.04	5.16
186	1.5 mm ²	5.15	2.28	3.34	5.77
187	2.5 mm ²	6.76	2.58	3.64	6.38
twelve core: circuit protective conductor:					
188	1.5 mm ²	12.41	2.89	3.95	6.99
189	2.5 mm ²	16.29	3.19	4.25	7.59
nineteen core: circuit protective conductor:					
190	1.5 mm ²	22.59	3.80	4.86	8.20
191	2.5 mm ²	28.21	4.56	6.07	9.42

Y61 HV / LV CABLES AND WIRING

WIRING CABLES: FIRE RESISTANT: BS 5839-1 STANDARD CATEGORY - *continued*

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back- ground
Y61		£	£	£	£
300 / 500 V: insulated cable to BS 7629: fire resistant to BS 5839-1 standard category - <i>continued</i>					
flexible					
two core: circuit protective conductor:					
192	1.0 mm ²	1.90	1.06	1.82	3.49
193	1.5 mm ²	1.42	1.21	2.13	3.95
194	2.5 mm ²	2.95	1.37	2.43	4.40
three core: circuit protective conductor:					
195	1.0 mm ²	2.42	1.21	2.13	3.95
196	1.5 mm ²	3.01	1.37	2.43	4.25
197	2.5 mm ²	3.74	1.52	2.73	4.56
four core: circuit protective conductor:					
198	1.0 mm ²	2.93	1.52	2.73	4.56
199	1.5 mm ²	3.66	1.67	3.04	4.86
200	2.5 mm ²	5.11	1.82	3.34	5.16

Y61 HV / LV CABLES AND WIRING

WIRING CABLES: FIRE RESISTANT: BS 5839-1 ENHANCED CATEGORY

Item	Metre	Rate A	Rate B		
		1	2	3	4
			Laid or drawn	On tray	Fixed to any back-ground
Y61		£	£	£	£
300 / 500 V: insulated cable to BS 7629: fire resistant to BS 5839-1 enhanced category, BS 6387 category CWZ, BS EN 50200 PH120, BS 8434-2 120 minutes, BS EN 60332-1-2, BS EN 60332-3-24: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2, BS EN 60754-1 and 2.					
two core:					
201	1.0 mm ²	2.13	1.06	1.82	3.49
202	1.5 mm ²	2.37	1.21	2.13	3.95
203	2.5 mm ²	2.99	1.37	2.43	4.40
204	4 mm ²	4.48	1.52	2.73	4.86
three core:					
205	1.0 mm ²	2.59	1.21	2.13	3.95
206	1.5 mm ²	3.16	1.37	2.43	4.25
207	2.5 mm ²	4.71	1.52	2.73	4.56
208	4 mm ²	7.50	1.67	3.04	4.86
four core:					
209	1.0 mm ²	3.04	1.52	2.73	4.56
210	1.5 mm ²	3.73	1.67	3.04	4.86
211	2.5 mm ²	5.62	1.82	3.34	5.16
212	4 mm ²	9.08	1.97	3.64	5.47

WIRING CABLES: HIGH TEMPERATURE

	Metre	Rate A	Rate B	
		1	2	3
			Laid or drawn	Fixed to any back-ground
		£	£	£
600 / 1000 V: heat resisting cable: flexible annealed copper conductor: PTFE/mica glass/glass fibre braid insulation: maximum operating temperature 250° C				
213	1.0 mm ²	2.52	2.28	4.86
214	1.5 mm ²	2.77	2.43	5.01
215	2.5 mm ²	3.31	2.58	5.16
216	4 mm ²	4.02	2.73	5.32
217	6 mm ²	5.19	2.89	5.47
218	10 mm ²	6.65	3.04	5.77

219 to 300 Not used

STANDARD POWER CABLES: 600/1000V AND 1900/3300V**ARMOURED CABLES****Specification***Standard:*

Comply with:

BS 5467: Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000 V and 1900/3300 V.

BS 6724: Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000 V and 1900/3300 V, having low emission of smoke and corrosive gases when affected by fire.

Item
Y61

Metre

600 / 1000 V: mains power cable: thermosetting
insulated: steel wire armoured

Rate A		Rate B			
1	2	3	4	5	6
BS 5467	BS 6724	Laid	Drawn	On tray	In cleats or on hangers
£	£	£	£	£	£

one core:

table 10 table 11

301	50 mm ²	4.50	5.98	2.13	2.34	3.23	3.85
302	70 mm ²	5.24	6.82	2.43	2.67	3.69	4.40
303	95 mm ²	6.20	7.94	2.73	3.01	4.16	4.95
304	120 mm ²	7.37	8.75	3.49	3.84	5.31	6.32
305	150 mm ²	8.63	10.17	3.80	4.18	5.77	6.87
306	185 mm ²	10.06	11.75	3.95	4.34	6.00	7.15
307	240 mm ²	12.33	14.24	4.25	4.68	6.46	7.70
308	300 mm ²	14.40	16.51	4.71	5.18	7.16	8.52
309	400 mm ²	18.54	21.14	5.62	6.18	8.54	10.17
310	500 mm ²	22.02	25.01	5.77	6.35	8.77	10.45
311	630 mm ²	26.50	29.94	6.83	7.52	10.39	12.37
312	800 mm ²	35.45	39.83	8.50	9.36	12.93	15.39
313	1000 mm ²	42.87	48.02	10.02	11.03	15.24	18.14

two core:

table 12 table 13

314	1.5 mm ²	1.32	2.49	1.67	1.84	2.56	3.34
315	2.5 mm ²	1.51	2.85	1.90	2.09	2.90	3.80
316	4 mm ²	2.47	3.63	2.13	2.34	3.25	4.25
317	6 mm ²	3.12	4.19	2.28	2.51	3.49	4.56
318	10 mm ²	4.69	5.65	2.43	2.67	3.72	4.86
319	16 mm ²	5.74	7.82	2.81	3.09	4.30	5.62
320	25 mm ²	6.49	9.54	3.19	3.51	4.88	6.38
321	35 mm ²	7.30	9.73	3.34	3.68	5.11	6.68
322	50 mm ²	8.61	11.21	3.49	3.84	5.34	6.99
323	70 mm ²	10.26	13.26	3.80	4.18	5.81	7.59
324	95 mm ²	13.54	16.42	4.02	4.43	6.16	8.05
325	120 mm ²	15.12	18.23	4.25	4.68	6.51	8.50
326	150 mm ²	17.85	21.02	5.01	5.51	7.67	10.02
327	185 mm ²	21.63	25.50	5.77	6.35	8.83	11.54

Y61 HV / LV CABLES AND WIRING

ARMOURED CABLES - *continued*

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		BS 5467	BS 6724	Laid	Drawn	On tray	In cleats or on hangers
		£	£	£	£	£	£
600 / 1000 V: mains power cable: thermosetting insulated: steel wire armoured							
	three core:	table 14	table 15				
328	1.5 mm ²	1.47	2.75	1.90	2.09	2.79	3.61
329	2.5 mm ²	1.81	3.01	2.16	2.38	3.17	4.10
330	4 mm ²	2.90	4.09	2.42	2.67	3.55	4.59
331	6 mm ²	3.68	4.95	2.60	2.86	3.80	4.92
332	10 mm ²	6.57	6.84	2.77	3.05	4.05	5.25
333	16 mm ²	8.12	9.15	3.20	3.52	4.69	6.07
334	25 mm ²	9.01	11.99	3.64	4.00	5.32	6.89
335	35 mm ²	10.32	13.36	3.81	4.19	5.57	7.22
336	50 mm ²	11.92	14.27	3.98	4.38	5.83	7.55
337	70 mm ²	14.84	18.51	4.33	4.76	6.33	8.20
338	95 mm ²	19.59	23.47	4.59	5.05	6.71	8.69
339	120 mm ²	22.99	26.13	4.85	5.33	7.09	9.19
340	150 mm ²	27.45	30.66	5.71	6.28	8.36	10.83
341	185 mm ²	31.75	34.50	6.58	7.24	9.62	12.47
342	240 mm ²	40.54	43.69	7.59	8.35	11.62	13.29
343	300 mm ²	49.56	52.65	9.11	10.02	13.94	15.95
	four core:	table 16	table 17				
344	1.5 mm ²	1.63	3.04	2.11	2.33	3.09	4.01
345	2.5 mm ²	2.09	3.62	2.40	2.64	3.51	4.55
346	4 mm ²	3.45	4.79	2.69	2.96	3.94	5.10
347	6 mm ²	4.67	6.08	2.88	3.17	4.22	5.46
348	10 mm ²	7.65	7.94	3.07	3.38	4.50	5.83
349	16 mm ²	9.01	11.16	3.56	3.91	5.20	6.74
350	25 mm ²	9.92	12.73	4.04	4.44	5.90	7.65
351	35 mm ²	11.71	14.09	4.23	4.65	6.19	8.01
352	50 mm ²	13.94	16.91	4.42	4.86	6.47	8.37
353	70 mm ²	17.58	21.02	4.80	5.28	7.03	9.10
354	95 mm ²	21.80	24.95	5.09	5.60	7.45	9.65
355	120 mm ²	26.41	29.17	5.38	5.92	7.87	10.20
356	150 mm ²	31.25	34.36	6.34	6.98	9.28	12.02
357	185 mm ²	36.60	40.47	7.30	8.03	10.68	13.84
358	240 mm ²	45.87	50.01	8.43	9.27	12.90	14.75
359	300 mm ²	56.36	61.19	10.11	11.13	15.48	17.70
360	400 mm ²	74.86	80.62	11.13	12.24	17.02	19.47

Y61 HV / LV CABLES AND WIRING

ARMOURED CABLES - *continued*

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		BS 5467	BS 6724	Laid	Drawn	On tray	In cleats or on hangers
		£	£	£	£	£	£
600 / 1000 V: mains power cable: thermosetting insulated: steel wire armoured multicores							
1.5 mm² conductors							
361	5 cores	2.83	4.06	1.82	2.00	2.73	3.92
362	7 cores	3.19	5.31	2.13	2.34	3.19	4.57
363	10 cores	4.72	-	2.43	2.67	3.64	5.22
364	12 cores	5.17	7.83	2.73	3.01	4.10	5.88
365	19 cores	7.83	11.42	3.04	3.34	4.56	6.53
366	27 cores	11.49	16.07	3.34	3.68	5.01	7.18
367	37 cores	14.76	22.33	3.64	4.01	5.47	7.84
368	48 cores	19.52	31.23	3.95	4.34	5.92	8.49
2.5 mm² conductors							
369	5 cores	3.72	5.03	2.13	2.34	3.19	4.57
370	7 cores	4.34	6.74	2.43	2.67	3.64	5.22
371	10 cores	6.54	-	2.73	3.01	4.10	5.88
372	12 cores	7.64	9.74	3.04	3.34	4.56	6.53
373	19 cores	11.44	15.27	3.34	3.68	5.01	7.18
374	27 cores	14.72	20.59	3.64	4.01	5.47	7.84
375	37 cores	19.52	28.23	3.95	4.34	5.92	8.49
376	48 cores	29.16	40.57	4.25	4.68	6.38	9.14
4 mm² conductors							
377	5 cores	5.83	7.44	2.73	3.01	4.10	5.88
378	7 cores	6.36	9.94	3.04	3.34	4.56	6.53
379	12 cores	13.14	21.48	3.34	3.68	5.01	7.29
380	19 cores	17.79	32.37	3.64	4.01	5.47	8.05
6 mm² conductors							
381	5 cores	6.60	10.06	3.19	3.51	4.78	6.86
382	7 cores	7.88	14.52	3.49	3.84	5.24	7.51
10 mm² conductors							
383	5 cores	11.57	15.34	3.83	4.21	5.74	8.23
16 mm² conductors							
384	5 cores	16.07	22.19	4.78	5.26	7.18	10.29

Y61 HV / LV CABLES AND WIRING

ARMOURED CABLES - *continued*

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		BS 5467	BS 6724	Laid	Drawn	On tray	In cleats or on hangers
		£	£	£	£	£	£
1900 / 3300 V: mains power cable: thermosetting insulated: steel wire armoured							
	one core:	table 19	table 20				
385	50 mm ²	9.12	11.17	3.28	3.64	5.29	6.38
386	70 mm ²	12.21	14.45	3.46	3.83	5.65	6.93
387	95 mm ²	16.66	18.58	3.64	4.01	6.01	7.47
388	120 mm ²	20.04	21.15	3.83	4.19	6.38	8.02
389	150 mm ²	22.96	25.24	4.01	4.37	6.74	8.57
390	185 mm ²	27.08	29.36	4.19	4.56	7.11	9.11
391	240 mm ²	33.81	36.93	4.37	4.74	7.47	9.66
392	300 mm ²	42.21	46.43	4.56	4.92	7.84	10.21
393	400 mm ²	52.70	58.38	4.74	5.10	8.20	10.75
	three core:	table 21	table 22				
394	16 mm ²	5.58	8.02	4.56	5.16	6.99	8.81
395	25 mm ²	7.17	9.45	4.86	5.47	7.59	9.42
396	35 mm ²	9.21	11.14	5.16	5.77	8.20	10.02
397	50 mm ²	11.40	13.97	5.47	6.07	8.81	10.63
398	70 mm ²	15.26	18.05	5.77	6.38	9.42	11.54
399	95 mm ²	20.83	23.23	6.07	6.68	10.02	12.45
400	120 mm ²	25.05	26.44	6.38	6.99	10.63	13.36
401	150 mm ²	28.70	31.55	6.68	7.29	11.24	14.28
402	185 mm ²	33.85	36.70	6.99	7.59	11.85	15.19
403	240 mm ²	42.26	46.15	7.29	7.90	12.45	16.10
404	300 mm ²	52.78	58.04	7.59	8.20	13.06	17.01
405	400 mm ²	65.88	72.98	7.90	8.50	13.67	17.92

ARMOURED CABLES: FIRE RESISTANT
Specification
Standard:

Comply with:

BS 7846: Electric cables. Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V, having low emission of smoke and corrosive gases when affected by fire.

Rate A	Rate B			
1	2	3	4	5
	Laid	Drawn	On tray	In cleats or on hangers
£	£	£	£	£

Item

Y61
Metre

600 / 1000 V: armoured insulated cable to BS 7846: fire resistant to BS 6387 category CWZ, BS EN 50200 PH60, BS 8434-1 30 minutes, BS EN 60332-1-2, BS EN 60332-3-24: low emission of smoke and corrosive gases when affected by fire to BS EN 61034-2, BS EN 60754-1 and 2.

two core:

406	1.5 mm ²	1.94	2.28	2.51	3.49	4.56
407	2.5 mm ²	2.30	2.43	2.67	3.72	4.86
408	4 mm ²	2.64	2.58	2.84	3.95	5.16
409	6 mm ²	3.49	2.73	3.01	4.18	5.47
410	10 mm ²	4.23	2.89	3.17	4.41	5.77
411	16 mm ²	5.77	3.04	3.34	4.65	6.07
412	25 mm ²	8.13	3.64	4.01	5.58	7.29
413	35 mm ²	9.42	4.25	4.68	6.51	8.50
414	50 mm ²	10.59	4.86	5.35	7.44	9.72
415	70 mm ²	12.28	5.47	6.01	8.37	10.93
416	95 mm ²	15.56	5.92	6.52	9.06	11.85
417	120 mm ²	18.11	6.38	7.02	9.76	12.76
418	150 mm ²	26.81	6.83	7.52	10.46	13.67
419	185 mm ²	30.78	7.29	8.02	11.15	14.58
420	240 mm ²	37.00	8.20	9.02	12.55	16.40

three core:

421	1.5 mm ²	2.14	2.60	2.86	3.80	4.92
422	2.5 mm ²	2.69	2.77	3.05	4.05	5.25
423	4 mm ²	3.10	2.94	3.24	4.31	5.58
424	6 mm ²	4.09	3.12	3.43	4.56	5.90
425	10 mm ²	4.95	3.29	3.62	4.81	6.23
426	16 mm ²	6.74	3.46	3.81	5.30	6.93
427	25 mm ²	8.89	4.16	4.57	6.36	8.31

Y61 HV / LV CABLES AND WIRING

ARMOURED CABLES: FIRE RESISTANT - *continued*

Item	Metre	Rate A	Rate B			
		1	2	3	4	5
			Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£
600 / 1000 V: armoured insulated cable to BS 7846 - <i>continued</i>						
three core - <i>continued</i>						
428	35 mm ²	12.32	4.85	5.33	7.42	9.70
429	50 mm ²	13.83	5.54	6.09	8.48	11.08
430	70 mm ²	16.05	6.23	6.86	9.54	12.47
431	95 mm ²	20.33	6.75	7.43	10.33	13.50
432	120 mm ²	23.68	7.27	8.00	11.13	14.54
433	150 mm ²	32.93	7.79	8.57	11.92	15.58
434	185 mm ²	37.79	8.31	9.14	12.71	16.62
435	240 mm ²	45.43	9.35	10.28	14.30	18.70
four core:						
436	1.5 mm ²	2.58	2.88	3.17	4.22	5.46
437	2.5 mm ²	3.33	3.07	3.38	4.50	5.83
438	4 mm ²	3.73	3.27	3.59	4.78	6.19
439	6 mm ²	4.93	3.46	3.81	5.06	6.55
440	10 mm ²	5.97	3.65	4.02	5.34	6.92
441	16 mm ²	8.13	3.84	4.23	5.88	7.69
442	25 mm ²	9.47	4.61	5.07	7.06	9.22
443	35 mm ²	13.11	5.38	5.92	8.23	10.76
444	50 mm ²	14.71	6.15	6.76	9.41	12.30
445	70 mm ²	17.09	6.92	7.61	10.59	13.84
446	95 mm ²	21.64	7.49	8.24	11.47	14.99
447	120 mm ²	25.20	8.07	8.88	12.35	16.14
448	150 mm ²	35.04	8.65	9.51	13.23	17.30
449	185 mm ²	40.21	9.22	10.15	14.11	18.45
450	240 mm ²	48.35	10.38	11.42	15.88	20.76
multicores						
1.5 mm ² conductors						
451	7 cores	3.14	3.04	3.34	4.65	6.07
452	12 cores	6.22	3.80	4.18	5.81	7.59
2.5 mm ² conductors						
453	7 cores	4.79	3.34	3.68	5.11	6.68
454	12 cores	8.29	4.40	4.84	6.74	8.81

NON-ARMOURED CABLES

Specification
Standard:

Comply with:

BS 7870-4.10: LV and MV polymeric insulated cables for use by distribution and generation utilities.

BS 4553: Specification for 600/1000 V single-phase split concentric electric cables.

BS 4553-1: Cables having PVC insulation.

BS 4553-2: Cables having thermosetting insulation.

BS 4553-3: Cables having thermosetting insulation and low emission of smoke and corrosive gases when affected by fire.

BS 7889: Electric cables. Thermosetting insulated, unarmoured cables for a voltage of 600/1000 V.

 Item
Y61
Metre

600 / 1000 V: mains power cable: thermosetting insulated: single-core unarmoured: to BS 7889

one core:

		Rate A		Rate B			
		1	2	3	4	5	6
			LSF	Laid	Drawn	On tray	In cleats or on hangers
		£	£	£	£	£	£
455	50 mm ²	2.49	3.20	2.13	2.34	3.23	3.85
456	70 mm ²	2.71	3.42	2.43	2.67	3.69	4.40
457	95 mm ²	5.09	5.79	2.73	3.01	4.16	4.95
458	120 mm ²	6.86	7.56	3.49	3.84	5.31	6.32
459	150 mm ²	8.27	8.98	3.80	4.18	5.77	6.87
460	185 mm ²	7.99	8.70	3.95	4.34	6.00	7.15
461	240 mm ²	10.97	11.68	4.25	4.68	6.46	7.70
462	300 mm ²	13.93	14.64	4.71	5.18	7.16	8.52
463	400 mm ²	17.49	18.20	5.62	6.18	8.54	10.17
464	500 mm ²	22.42	23.12	5.77	6.35	8.77	10.45
465	630 mm ²	29.60	30.31	6.83	7.52	10.39	12.37

Y61 HV / LV CABLES AND WIRING

NON-ARMOURED CABLES - *continued*

Item	Metre	Rate A	Rate B			
		1	2	3	4	5
			Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£
600 / 1000 V: high impact resistant cable: PVC insulated: PVC bedded: hard impact resistant PVC oversheath.						
two core and earth:						
466	1.5 mm ²	1.42	1.67	1.84	2.56	3.34
467	2.5 mm ²	1.59	1.67	1.84	2.56	3.34
468	4 mm ²	2.75	2.13	2.34	3.25	4.25
469	6 mm ²	3.54	2.13	2.34	3.25	4.25
470	10 mm ²	6.08	2.43	2.67	3.72	4.86
471	16 mm ²	6.70	2.43	2.67	3.72	4.86
three core and earth:						
472	1.5 mm ²	1.67	1.90	2.09	2.79	3.61
473	2.5 mm ²	1.91	1.90	2.09	2.79	3.61
474	4 mm ²	3.40	2.42	2.67	3.55	4.59
475	6 mm ²	4.66	2.42	2.67	3.55	4.59
476	10 mm ²	7.60	2.77	3.05	4.05	5.25
477	16 mm ²	10.59	2.77	3.05	4.05	5.25
four core and earth:						
478	1.5 mm ²	2.10	2.11	2.33	3.09	4.01
479	2.5 mm ²	2.40	2.11	2.33	3.09	4.01
480	4 mm ²	4.66	2.69	2.96	3.94	5.10
481	6 mm ²	5.69	2.69	2.96	3.94	5.10
482	10 mm ²	8.54	3.07	3.38	4.50	5.83
483	16 mm ²	11.16	3.07	3.38	4.50	5.83

Y61 HV / LV CABLES AND WIRING

NON-ARMOURED CABLES - *continued*

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		BS 7870	BS 4553	Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£	£
600/1000 V: single-phase split concentric cable: copper conductors							
PVC insulated							
484	4 mm ²	1.05	1.56	2.13	2.34	3.25	4.25
485	6 mm ²	1.42	2.10	2.13	2.34	3.25	4.25
486	10 mm ²	2.15	3.18	2.43	2.67	3.72	4.86
487	16 mm ²	3.24	4.79	2.43	2.67	3.72	4.86
488	25 mm ²	5.07	7.51	3.19	3.51	4.88	5.58
thermosetting insulated							
489	4 mm ²	1.21	1.80	2.13	2.34	3.25	4.25
490	6 mm ²	1.63	2.42	2.13	2.34	3.25	4.25
491	10 mm ²	2.47	3.66	2.43	2.67	3.72	4.86
492	16 mm ²	3.73	5.52	2.43	2.67	3.72	4.86
493	25 mm ²	5.84	8.64	3.19	3.51	4.88	5.58

494 to 600 Not used

STANDARD MEDIUM VOLTAGE POWER CABLES:

Specification

Standard:

Comply with:

BS 6622: Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV. Requirements and test methods.

BS 7835: Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases when affected by fire. Requirements and test methods.

Definition

Medium Voltage:

Voltages above low voltage which are used for distribution and direct usage within buildings.

Y61 HV / LV CABLES AND WIRING

STANDARD MEDIUM VOLTAGE POWER CABLES - *continued*

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		BS 6622	BS 7835	Laid	Drawn	On tray	In cleats or on hangers
		£	£	£	£	£	£
6350 / 11000 V: cross-linked polyethylene or ethylene propylene rubber insulated cable: copper tape screened: PVC bedded: steel wire armoured: PVC sheathed							
one core							
601	25 mm ²	12.37	13.56	2.92	3.28	4.56	5.65
602	35 mm ²	13.92	15.26	3.10	3.46	4.92	6.01
603	50 mm ²	15.66	17.17	3.28	3.64	5.29	6.38
604	70 mm ²	17.61	19.30	3.46	3.83	5.65	6.93
605	95 mm ²	20.54	22.53	3.64	4.01	6.01	7.47
606	120 mm ²	23.36	25.62	3.83	4.19	6.38	8.02
607	150 mm ²	25.57	28.03	4.01	4.37	6.74	8.57
608	185 mm ²	29.68	32.24	4.19	4.56	7.11	9.11
609	240 mm ²	37.61	40.54	4.37	4.74	7.47	9.66
610	300 mm ²	44.54	48.02	4.56	4.92	7.84	10.21
611	400 mm ²	52.75	56.87	4.74	5.10	8.20	10.75
three core							
612	25 mm ²	15.47	16.95	4.86	5.47	7.59	9.42
613	35 mm ²	17.39	19.08	5.16	5.77	8.20	10.02
614	50 mm ²	19.57	21.45	5.47	6.07	8.81	10.63
615	70 mm ²	22.01	24.14	5.77	6.38	9.42	11.54
616	95 mm ²	25.68	28.16	6.07	6.68	10.02	12.45
617	120 mm ²	29.21	32.03	6.38	6.99	10.63	13.36
618	150 mm ²	31.95	35.04	6.68	7.29	11.24	14.28
619	185 mm ²	37.10	40.30	6.99	7.59	11.85	15.19
620	240 mm ²	47.01	50.68	7.29	7.90	12.45	16.10
621	300 mm ²	55.67	60.02	7.59	8.20	13.06	17.01
622	400 mm ²	65.94	71.09	7.90	8.50	13.67	17.92

623 to 700 Not used

MINERAL INSULATED WIRING AND POWER CABLES:

MINERAL INSULATED COPPER SHEATHED CABLES WITH COPPER CONDUCTORS

Specification

Standard:

Comply with:

BS EN 60702: Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V.

BS EN 60702-1: Cables.

BS EN 60702-2: Terminations.

Definitions

PVC covered:

Thermoplastic to BS EN 60702.

LSF covered:

Material with low emission of smoke and corrosive gases when affected by fire to BS EN 60702.

Item

Y61

Metre

500 V light duty to BS EN 60702-1

two core:

701	1.0 mm ²	2.05	2.52	1.73	2.76	4.62
702	1.5 mm ²	2.42	2.80	1.73	2.76	4.62
703	2.5 mm ²	3.11	3.47	2.27	3.30	5.16
704	4 mm ²	4.71	5.11	2.79	3.82	5.68

three core:

705	1.0 mm ²	2.52	3.04	2.27	3.30	5.16
706	1.5 mm ²	3.16	3.66	2.27	3.30	5.16
707	2.5 mm ²	4.92	5.34	2.79	3.82	5.68

four core:

708	1.0 mm ²	3.00	3.53	2.79	3.82	5.68
709	1.5 mm ²	3.72	4.28	2.79	3.82	5.68
710	2.5 mm ²	5.96	6.34	3.61	5.68	8.57

seven core:

711	1.0 mm ²	4.62	5.43	3.43	5.50	8.38
712	1.5 mm ²	5.69	6.70	3.43	5.50	8.38
713	2.5 mm ²	7.46	8.54	3.95	6.02	8.90

Rate A		Rate B		
1	2	3	4	5
Bare	PVC or LSF covered	Any type:		
		Laid or drawn	On tray	Fixed to any back- ground
£	£	£	£	£

MINERAL INSULATED COPPER SHEATHED CABLES WITH COPPER CONDUCTORS - *continued*

Item	Metre	Rate A		Rate B		
		1	2	3	4	5
		Bare	PVC or LSF covered	Any type:		
				Laid or drawn	On tray	Fixed to any back- ground
		£	£	£	£	£
750 V heavy duty to BS EN 60702-1						
one core:						
714	10 mm ²	5.14	5.72	2.67	3.89	6.01
715	16 mm ²	7.01	7.74	3.28	4.50	6.62
716	25 mm ²	9.73	10.70	4.56	5.77	7.90
717	35 mm ²	12.94	13.92	5.89	7.72	11.06
718	50 mm ²	16.51	17.72	6.53	8.35	11.69
719	70 mm ²	21.53	22.87	7.81	9.63	12.97
720	95 mm ²	28.25	30.03	8.44	10.27	13.61
721	120 mm ²	34.36	36.46	9.11	11.54	15.49
722	150 mm ²	42.61	44.73	11.63	14.06	18.01
723	185 mm ²	51.78	54.69	14.18	16.61	20.56
724	240 mm ²	67.08	70.64	17.34	19.77	23.72
two core:						
725	1.5 mm ²	4.40	5.06	2.04	3.25	5.38
726	2.5 mm ²	5.38	6.05	2.67	3.89	6.01
727	4 mm ²	6.74	7.58	3.28	4.50	6.62
728	6 mm ²	9.04	9.94	5.89	7.72	11.06
729	10 mm ²	11.66	12.97	6.53	8.35	11.69
730	16 mm ²	16.85	18.14	7.29	9.11	12.45
731	25 mm ²	23.66	25.57	9.11	11.54	15.49
three core:						
732	1.5 mm ²	4.86	5.58	2.67	3.89	6.01
733	2.5 mm ²	6.10	6.92	3.28	4.50	6.62
734	4 mm ²	7.69	8.72	5.29	7.72	11.06
735	6 mm ²	9.98	11.06	5.92	8.35	11.69
736	10 mm ²	14.51	15.70	6.68	9.11	12.45
737	16 mm ²	20.29	22.14	9.72	12.15	15.49
738	25 mm ²	30.93	32.92	11.54	14.58	18.53

Y61 HV / LV CABLES AND WIRING

MINERAL INSULATED COPPER SHEATHED CABLES WITH COPPER CONDUCTORS - *continued*

Item	Metre	Rate A		Rate B		
		1	2	3	4	5
		Bare	PVC or LSF covered	Any type:		
				Laid or drawn	On tray	Fixed to any back- ground
		£	£	£	£	£
750 V heavy duty to BS EN 60702-1 - <i>continued</i>						
	four core:					
739	1.5 mm ²	6.02	6.81	3.28	4.50	6.62
740	2.5 mm ²	7.54	8.45	4.25	6.68	10.02
741	4 mm ²	9.47	10.60	5.92	8.35	11.69
742	6 mm ²	12.57	13.76	6.68	9.11	12.45
743	10 mm ²	17.91	19.27	8.20	10.63	13.97
744	16 mm ²	26.10	27.93	10.78	13.82	17.77
745	25 mm ²	37.67	40.34	13.82	16.86	20.81
	seven core:					
746	1.5 mm ²	8.53	9.45	4.04	6.47	9.81
747	2.5 mm ²	11.50	12.79	4.65	7.08	10.42
	twelve core:					
748	1.5 mm ²	15.19	16.42	4.65	7.08	10.42
749	2.5 mm ²	20.13	21.88	5.29	7.72	11.06
	nineteen core:					
750	1.5 mm ²	30.71	32.80	5.98	9.02	12.97

751 to 800 Not used

CONTROL AND AUXILIARY CABLES**CONTROL CABLES****Specification***Standard:*

Comply with:

DIN VDE 0250: Cables, wires and flexible cords for power installations.

Definitions

Type YY: 300 / 500 V: PVC insulated: plain annealed flexible copper conductors: PVC sheathed.

Type CY: 300 / 500 V: PVC insulated: plain annealed flexible copper conductors: mylar taped: tinned copper wire braid screened: PVC outer sheath.

Type SY: 300 / 500 V: PVC insulated: plain annealed flexible copper conductors: extruded PVC bedding: galvanised steel wire braid armour: PVC outer sheath.

Item
Y61

Metre

300 / 500 V

PVC insulated: PVC sheathed:

0.75 mm² conductors:

801	3 cores	0.38	1.35	1.04	1.52	2.43	3.04
802	4 cores	0.47	1.29	1.20	1.67	2.58	3.19
803	5 cores	0.58	2.01	1.43	1.82	2.73	3.34
804	7 cores	0.82	2.24	1.64	2.13	3.04	3.64
805	12 cores	1.32	4.11	2.04	2.43	3.34	3.95
806	18 cores	2.15	5.22	3.85	2.73	3.64	4.25

1.0 mm² conductors:

807	3 cores	0.44	1.63	0.91	1.67	2.58	3.19
808	4 cores	0.52	1.80	1.11	1.82	2.73	3.34
809	5 cores	0.71	2.19	1.29	2.13	3.04	3.64
810	7 cores	0.90	2.63	1.51	2.43	3.34	3.95
811	12 cores	1.56	4.54	2.42	2.73	3.64	4.25
812	18 cores	2.75	5.86	2.88	3.04	3.95	4.56

1.5 mm² conductors:

813	3 cores	0.52	1.76	1.15	1.82	2.73	3.34
814	4 cores	0.73	1.91	1.30	2.13	3.04	3.64
815	5 cores	0.85	2.53	1.47	2.43	3.34	3.95
816	7 cores	1.18	3.07	1.80	2.73	3.64	4.25
817	8 cores	2.10	5.20	-	3.04	3.95	4.56
818	12 cores	2.62	5.88	2.81	3.34	4.25	4.86
819	18 cores	3.62	8.84	3.92	3.64	4.56	5.16

Rate A			Rate B		
1	2	3	4	5	6
Type:			Laid	On	In cleats
Non-armoured		Armoured	or	tray	or on
YY	CY	SY	drawn		hangers
£	£	£	£	£	£

Y61 HV / LV CABLES AND WIRING

CONTROL CABLES - *continued*

Item	Metre	Rate A			Rate B		
		1	2	3	4	5	6
		Type:		Armoured	Laid or drawn	On tray	In cleats or on hangers
		Non-armoured YY	CY				
Y61		£	£	£	£	£	£
300 / 500 V - <i>continued</i>							
PVC insulated: PVC sheathed: to BS 6500 and DIN VDE 0250 - <i>continued</i> :							
2.5 mm ² conductors:							
820	3 cores	0.85	2.64	1.52	2.13	3.04	3.64
821	4 cores	1.04	2.95	1.59	2.43	3.34	3.95
822	5 cores	1.27	3.64	2.23	2.73	3.64	4.25
823	7 cores	1.86	5.79	3.58	3.04	3.95	4.56
824	8 cores	2.72	-	-	3.34	4.25	4.86
825	12 cores	3.26	-	6.70	3.64	4.56	5.16
826	18 cores	5.17	-	7.92	3.95	4.86	5.47
4.0 mm ² conductors:							
827	3 cores	-	-	2.99	2.43	3.34	3.95
828	4 cores	-	4.67	3.33	2.73	3.64	4.25
829	5 cores	-	-	3.90	3.04	3.95	4.56
830	7 cores	-	-	4.68	3.34	4.25	4.86
6.0 mm ² conductors:							
831	4 cores	-	-	5.88	3.04	3.95	4.56

INSTRUMENTATION CABLES

Specification

Standard:

Comply with:

BS EN 50288-1: Multi element metallic cables used
in analogue and digital communication and
BS EN 50288-7: Sectional specification for
instrumentation and control cables.

INSTRUMENTATION CABLES: TYPE 1: NON-ARMOURED

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		Polyethylene	PVC	Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£	£
300 / 500 V: instrumentation cable: stranded copper conductors: PVC sheathed							
0.5 mm ²							
832	1 pair	0.71	0.42	1.21	1.52	2.43	3.04
833	2 pair	1.42	0.83	1.37	1.67	2.58	3.19
834	5 pair	2.43	1.70	1.52	1.82	2.73	3.34
835	10 pair	4.21	2.34	1.82	2.13	3.04	3.64
836	20 pair	7.45	3.45	2.13	2.43	3.34	3.95
0.75 mm ²							
837	1 pair	0.80	0.57	1.37	1.67	2.58	3.19
838	2 pair	1.52	1.08	1.52	1.82	2.73	3.34
839	5 pair	2.63	1.48	1.82	2.13	3.04	3.64
840	10 pair	4.77	2.96	2.13	2.43	3.34	3.95
841	20 pair	8.56	4.72	2.43	2.73	3.64	4.25
1.5 mm ²							
842	1 pair	0.89	0.56	1.52	1.82	2.73	3.34
843	2 pair	1.81	1.13	1.82	2.13	3.04	3.64
844	5 pair	3.49	2.02	2.13	2.43	3.34	3.95
845	10 pair	6.25	4.59	2.43	2.73	3.64	4.25
846	20 pair	11.46	6.86	2.73	3.04	3.95	4.56

Y61 HV / LV CABLES AND WIRING

INSTRUMENTATION CABLES: TYPE 2: ARMOURED

Item	Metre	Rate A		Rate B			
		1	2	3	4	5	6
		Polyethylene	PVC	Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£	£
300 / 500 V: instrumentation cable: stranded copper conductors: steel wire armoured: PVC sheathed							
0.5 mm ²							
847	1 pair	1.16	1.05	1.46	1.82	2.92	3.64
848	2 pair	2.31	2.10	1.64	2.00	3.10	3.83
849	5 pair	3.82	2.39	1.82	2.19	3.28	4.01
850	10 pair	5.95	3.69	2.19	2.55	3.64	4.37
851	20 pair	9.77	5.50	2.55	2.92	4.01	4.74
0.75 mm ²							
852	1 pair	1.29	1.28	1.64	2.00	3.10	3.83
853	2 pair	2.47	1.61	1.82	2.19	3.28	4.01
854	5 pair	3.93	2.72	2.19	2.55	3.64	4.37
855	10 pair	6.24	4.58	2.55	2.92	4.01	4.74
856	20 pair	12.06	7.41	2.92	3.28	4.37	5.10
1.5 mm ²							
857	1 pair	1.43	1.42	1.82	2.19	3.28	4.01
858	2 pair	2.90	1.95	2.19	2.55	3.64	4.37
859	5 pair	4.52	3.85	2.55	2.92	4.01	4.74
860	10 pair	7.25	6.19	2.92	3.28	4.37	5.10
861	20 pair	13.30	10.34	3.28	3.64	4.74	5.47

862 to 900 Not used

PAPER INSULATED CABLES**IMPREGNATED PAPER INSULATED LEAD OR LEAD ALLOY SHEATHED CABLES****Specification***Standard:*

Comply with BS 6480: Specification for impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33000 V.

Item			hangers			
Y61	Metre	£	£	£	£	£
6350 / 11000 V: paper-insulated lead or lead alloy sheathed electric cable						
unarmoured						
single core						
901	50 mm²	12.22	3.34	3.64	4.86	5.62
902	70 mm²	13.52	3.49	3.80	5.01	5.77
903	95 mm²	14.84	3.64	3.95	5.16	5.92
904	120 mm²	17.06	3.80	4.10	5.32	6.07
905	150 mm²	19.33	3.95	4.25	5.47	6.38
906	185 mm²	21.61	4.10	4.40	5.77	6.83
907	240 mm²	25.74	4.25	4.56	6.23	7.44
908	300 mm²	29.69	4.40	4.71	6.83	8.20
909	400 mm²	35.48	4.56	4.86	7.59	9.11
armoured						
three core: belted						
910	25 mm²	21.26	4.86	5.47	7.59	8.81
911	35 mm²	22.09	5.16	5.77	8.20	9.72
912	50 mm²	24.19	5.47	6.07	8.81	10.63
913	70 mm²	27.44	5.77	6.38	9.42	11.54
914	95 mm²	33.36	6.07	6.68	10.02	12.45
915	120 mm²	38.25	6.38	6.99	10.63	13.36
916	150 mm²	43.23	6.68	7.29	11.24	14.28
917	185 mm²	49.49	6.99	7.59	11.85	15.19
918	240 mm²	60.16	7.29	7.90	12.45	16.10
919	300 mm²	71.61	7.59	8.20	13.06	17.01
920	400 mm²	85.25	7.90	8.50	13.67	17.92

Y61 HV / LV CABLES AND WIRING

IMPREGNATED PAPER INSULATED LEAD OR LEAD ALLOY SHEATHED CABLES - *continued*

Item	Metre	Rate A	Rate B			
		1	2	3	4	5
			Laid	Drawn	On tray	In cleats or on hangers
Y61		£	£	£	£	£
6350 / 11000 V: paper-insulated lead or lead alloy sheathed electric cable - <i>continued</i>						
armoured - <i>continued</i>						
three core: screened						
921	25 mm ²	23.11	4.86	5.47	7.59	8.81
922	35 mm ²	24.04	5.16	5.77	8.20	9.72
923	50 mm ²	26.19	5.47	6.07	8.81	10.63
924	70 mm ²	29.63	5.77	6.38	9.42	11.54
925	95 mm ²	34.69	6.07	6.68	10.02	12.45
926	120 mm ²	40.58	6.38	6.99	10.63	13.36
927	150 mm ²	45.86	6.68	7.29	11.24	14.28
928	185 mm ²	52.47	6.99	7.59	11.85	15.19
929	240 mm ²	63.81	7.29	7.90	12.45	16.10
930	300 mm ²	75.95	7.59	8.20	13.06	17.01
931	400 mm ²	90.41	7.90	8.50	13.67	17.92

932 to 950 Not used

Y61 HV / LV CABLES AND WIRING

SUNDRY CABLES

FESTOON LIGHTING: 110 V: CABLE TO BS 6500

Item	Note	Rate A 1	Rate B	
			2	3
			Fixed to any back-ground	Strung in spans
Y61	Measure lamps separately	£	£	£
	<i>Metre</i>			
	Festoon lighting:			
951	cable two-core 2.5mm ² PVC insulated: PVC sheathed: integral lamp holders at 3.00 m centres: protection to IP 54	1.70	3.10	2.07
952	ADD for lamp guards	1.47	0.79	0.79
			Rate A	Rate B
			1	2
			£	£
953	<i>Metre</i> festoon cable: two core 2.5mm ²		2.20	1.94
	<i>Each</i>			
954	lampholder: IP 54		2.42	4.60
955	lamp guard		4.38	2.31

BELL WIRE: NOT EXCEEDING 50 V AC / 75 V DC

		Rate A 1	Rate B	
			2	3
			£	£
956	<i>Metre</i> Bell wire: two-core solid conductor (2 x 1/0.85 mm)		0.53	2.07

AIRFIELD GROUND LIGHTING CABLES: 2000 V

		Rate A 1	Rate B	
			2	3
			Laid	Drawn
	<i>Metre</i>	£	£	£
957	Single core: polythene insulated: PVC sheathed: 6mm ² conductor	0.53	2.16	2.64
958	Single core: tinned copper wire: polythene insulated: braid sheathed: 6mm ² conductor	1.28	2.16	3.63

959 to 1000 Not used

GENERALLY - JOINTING AND TERMINATIONS

Specification*Generally:*

Make all joints and terminations using jointing materials, components and workmanship recommended by the cable manufacturer and the jointing accessory manufacturer.

Preparation:

Cut all cable ends immediately prior to jointing or terminating. Seal cables left unconnected for more than 24 hours to prevent the ingress of moisture.

Dismantling and Removal*For dismantling and removing items in this Section:*

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.75.*

Method of Measurement

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables, conduit or trunking.
- iii. Bonding links from cable armouring / sheath and/or conduit/trunking to equipment earth terminals.

Notes*Joints and terminations:*

Are for cables with copper conductors unless otherwise stated.

Rates for the following include*All joints:*

For supplying (Rate A) and installing joint with (Rate B) all insulating materials and all jointing materials and accessories, including hard setting compound, solder, sleeves, glands, leadwool, ferrules, tape and connector boxes.

For providing heat (Rate B).

For connecting cable tails into connector boxes (Rate B).

For jointing (Rate B) stranded or solid conductors.

All terminations:

For supplying (Rate A) and installing with (Rate B) all insulating materials and all jointing materials and accessories including locknuts, cones, bushes, glands, earthing devices, armour clamps, bonding, inner sleeves, tape or the like to complete the terminations.

For providing heat (Rate B).

For forming (Rate B) entries in equipment unless otherwise stated.

Joints: cast resin type (for PVC / thermosetting insulated cables):

For supplying (Rate A) and installing (Rate B) earth continuity bonds, clamps, moulded plastic shells and non-toxic non-dermatic sealing compound.

Rates D and E:

For cleaning boxes (Rate E).

For breaking down joints (Rate D or E) as directed.

CABLE GLANDS

	CABLE TYPE							
	Unarmoured	Single Wire Armoured				AWA & ASA	Wire Braid	
	Outer seal	No seal	Outer seal	Inner seal	Inner & outer seal	Armour outer seal	Outer seal	Inner & outer seal
CONDITIONS	GLAND REFERENCE							
Clear & Dry	A2 A2F A2e	BW	CW CWe	D1W	E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
External Moisture	A2 A2F A2e		CW CWe		E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
Internal Moisture	A2 A2F A2e			D1W	E1W E1FW E1FWe		CX CXe	E1X E1FX E1Xe
Dust	A2 A2F A2e		CW CWe		E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
Oil	A2 A2F A2e		CW CWe		E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
Protected with Shroud	A2 A2F A2e		CW CWe		E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
Exposed	A2 A2F A2e				E1W E1FW E1FWe	CY	CX CXe	E1X E1FX E1Xe
Internal Moisture	A2 A2F A2e				E1W E1FW E1FWe			E1X E1FX E1Xe

CABLE GLANDS

Specification

Standard:

Comply with:

BS EN 62444: Cable glands for electrical installations.

BS 6121-1: Mechanical cable glands. Armour glands. Requirements and test methods.

BS 6121-5: Mechanical cable glands. Code of practice for selection, installation and inspection of cable glands and armour glands.

Cable glands:

Install cable glands in accordance with BS 6121-5.

Rates for the following include

For locknuts, washers and the like.

MECHANICAL CABLE GLANDS: METALLIC GLANDS

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Type				Type			
		A1/2	BW	CW	E1W	A1/2	BW	CW	E1W
Y61	Each	£	£	£	£	£	£	£	£
	Brass gland: size designation:								
1001	16	5.48	5.60	9.70	11.51	4.86	8.20	8.50	9.42
1002	20SS	5.01	-	10.37	14.71	4.86	-	8.50	9.42
1003	20S	5.01	5.25	10.37	14.83	4.86	8.50	8.81	10.02
1004	20	6.00	6.54	13.41	17.36	5.01	9.11	9.26	10.63
1005	25	9.90	10.36	18.36	25.52	5.01	9.42	10.02	11.39
1006	32	7.64	7.40	13.19	18.37	5.32	10.02	11.39	12.76
1007	40	12.69	15.00	25.16	34.12	5.47	12.15	13.52	14.88
1008	50S	16.76	-	34.61	47.93	6.07	-	15.19	16.71
1009	50	18.75	23.24	38.09	49.13	6.68	17.92	19.29	20.65
1010	63S	26.29	-	-	81.38	6.68	-	-	22.78
1011	63	28.39	40.10	67.51	82.98	6.83	21.87	23.24	24.60
1012	75S	41.07	52.33	-	108.65	7.29	23.69	-	26.43
1013	75	48.29	60.48	93.36	137.71	9.72	31.59	33.11	34.32
1014	85	-	-	186.79	186.79	-	-	42.52	44.04
1015	90	110.23	-	-	-	14.28	-	-	-
1016	100	99.37	-	-	-	18.22	-	-	-
1017	110	203.72	-	-	-	21.26	-	-	-

Y61 HV / LV CABLES AND WIRING

MECHANICAL CABLE GLANDS: METALLIC GLANDS - *continued*

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Type A1/2	BW	CW	E1W	Type A1/2	BW	CW	E1W
Y61	<i>Each</i>	£	£	£	£	£	£	£	£
	Brass gland: low smoke and fume: zero halogen: size designation:								
1018	16	6.27	6.40	11.54	16.94	4.86	8.20	8.50	9.42
1019	20SS	6.11	-	10.87	17.75	4.86	-	8.50	9.42
1020	20S	6.11	6.11	10.82	17.85	4.86	8.50	8.81	10.02
1021	20	6.87	7.74	13.37	21.02	5.01	9.11	9.26	10.63
1022	25	10.87	11.69	18.15	30.89	5.01	9.42	10.02	11.39
1023	32	8.41	7.99	13.33	22.58	5.32	10.02	11.39	12.76
1024	40	15.24	16.60	23.81	42.81	5.47	12.15	13.52	14.88
1025	50S	19.34	-	36.93	56.90	6.07	-	15.49	16.71
1026	50	22.61	28.97	37.51	60.04	6.68	17.92	19.29	20.65
1027	63S	32.00	-	-	102.28	6.68	-	-	22.78
1028	63	35.28	48.22	66.63	108.40	6.83	21.87	23.24	24.60
1029	75S	51.90	72.86	-	136.06	7.29	23.69	-	26.43
1030	75	56.00	75.15	96.09	173.01	9.72	31.59	33.11	34.32
	Brass gland with integral earth termination: size designation:								
1031	20S	-	9.75	12.23	13.70	-	8.50	8.81	10.02
1032	20	-	10.68	17.48	19.03	-	9.11	9.26	10.63
1033	25	-	14.18	21.02	32.67	-	9.42	10.02	11.39
1034	32	-	22.57	30.13	41.39	-	10.02	11.39	12.76
1035	40	-	26.84	39.56	49.39	-	12.15	13.52	14.88
1036	50S	-	-	-	55.79	-	-	-	16.71
1037	50	-	37.77	48.92	64.25	-	17.92	19.29	20.65
1038	63S	-	-	-	95.80	-	-	-	22.78
1039	63	-	60.21	73.18	98.00	-	21.87	23.24	24.60
1040	75S	-	-	-	132.69	-	-	-	26.43
1041	75	-	83.22	105.78	168.18	-	31.59	33.11	34.32
1042	85	-	-	217.98	-	-	-	42.52	-

MECHANICAL CABLE GLANDS: METALLIC GLANDS - *continued*

Item		Rate A			Rate B	
		1	2	3	4	5
		Type	Type		Type	
		CW	CW LSF	E1W	CW/CW LSF	E1W
Y61	<i>Each</i>	£	£	£	£	£
Aluminium gland: size designation:						
1043	16	-	-	29.21	-	9.42
1044	20SS	-	-	29.21	-	9.42
1045	20S	10.15	11.16	29.21	8.81	10.02
1046	20	10.15	11.13	31.01	9.42	10.63
1047	25	10.82	11.90	44.38	10.02	11.39
1048	32	13.95	15.33	53.18	11.39	12.76
1049	40	18.75	20.62	56.41	13.52	14.88
1050	50S	23.43	25.21	74.17	15.49	16.71
1051	50	27.22	29.31	81.30	19.29	20.65
1052	63S	41.35	-	113.67	21.57	22.78
1053	63	69.74	76.63	123.44	23.24	24.60
1054	75S	-	-	164.15	-	26.43
1055	75	69.74	-	177.39	33.11	34.32
Aluminium gland with integral earth termination: size designation:						
1056	20S	24.67	-	47.64	8.81	10.02
1057	20	26.01	-	50.56	9.26	10.63
1058	25	31.30	-	72.60	10.02	11.39
1059	32	32.97	-	84.84	11.39	12.76
1060	40	44.72	-	90.04	13.52	14.88
1061	50S	-	-	118.37	-	16.71
1062	50	49.82	-	128.17	19.29	20.65
1063	63S	-	-	163.06	-	22.78
1064	63	64.84	-	177.02	23.24	24.60
1065	75S	-	-	235.59	-	26.43
1066	75	105.67	-	249.27	33.11	34.32

MECHANICAL CABLE GLANDS: POLYMERIC GLANDS

		Rate A		Rate B	
		1	2	1	2
		£	£	£	£
	<i>Each</i>				
Nylon gland: size designation: type A2					
1067	16			0.95	4.86
1068	20			1.13	5.01
1069	25			1.54	5.01
1070	32			2.82	5.32
1071	40			8.96	5.47
1072	50			12.78	6.68
1073	63			16.51	6.83

HAZARDOUS AREA CABLE GLANDS

Specification

Standard:

Electrical apparatus for potentially explosive atmospheres:

BS EN 60079-0: General requirements.

BS EN 60079-1: Flameproof enclosures 'd'.

BS EN 60079-7: Increased safety 'e'.

Cable gland:

Ex 'e': increased safety: E1W

Ex 'd': flameproof: E1WF

Ex 'd': explosion proof:

Item

Y61

Each

Brass gland: hazardous area: size designation:

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Type			Type		
		Increased safety E1W	Flame proof E1WF	Explosion proof	Increased safety E1W	Flame proof E1WF	Explosion proof
		£	£	£	£	£	£
1074	16	6.64	8.56	-	8.20	8.50	-
1075	20SS	6.64	8.31	-	8.20	8.50	-
1076	20S	6.64	8.31	11.70	8.50	8.81	10.02
1077	20	7.68	9.83	13.74	9.11	9.26	10.63
1078	25	12.08	15.00	20.81	9.42	10.02	11.39
1079	32	16.32	20.33	31.87	10.02	11.39	12.76
1080	40	30.55	38.99	59.09	12.15	13.52	14.88
1081	50S	48.34	55.33	-	13.97	15.49	-
1082	50	44.06	55.33	80.14	17.92	19.29	20.65
1083	63S	76.10	97.59	143.46	20.05	21.57	22.78
1084	63	76.71	97.59	145.42	21.87	23.24	24.60
1085	75S	102.64	161.29	-	23.69	25.21	-
1086	75	145.82	161.29	214.92	31.59	33.11	34.32
1087	85	-	281.89	279.01	-	42.52	44.04

CABLE GLAND ACCESSORIES

Item		Rate A				Rate B
		1	2	3	4	5
		Type				Any
		PVC	PVC	PCP	LSF	Type
Y61	Each	BW/A1/A2	CW/E1W			
		£	£	£	£	£
Watertight shroud: size designation:						
1088	16	0.65	0.43	0.80	1.39	1.55
1089	20SS	0.65	0.43	-	-	1.58
1090	20S	0.35	0.43	0.80	1.39	1.61
1091	20	0.43	0.70	1.00	1.90	1.64
1092	25	0.52	0.73	1.11	2.07	1.67
1093	32	0.92	1.05	1.38	2.25	1.70
1094	40	1.08	1.35	1.72	3.00	1.73
1095	50 or 50S	1.87	2.29	2.73	3.96	1.76
1096	63 or 63S	2.25	4.23	3.15	4.57	1.79
1097	75 or 75S	3.38	6.50	4.09	5.97	1.82

Each

Earth tag: size designation:

		Rate A		Rate B
		1	2	3
		Type		Any
		Brass	Aluminium	Type
		£	£	£
1098	16	0.47	-	1.52
1099	20	0.47	0.47	1.52
1100	25	0.57	0.68	1.52
1101	32	0.72	0.71	1.52
1102	40	1.02	0.87	1.82
1103	50	1.66	1.02	1.82
1104	63	2.58	1.48	1.82
1105	75	3.00	5.45	1.82
1106	85	7.68	-	1.82

Y61 HV / LV CABLES AND WIRING

CABLE GLAND ACCESSORIES - *continued*

Item		Rate A	Rate B
		1	2
Y61	<i>Each</i>	£	£
Adaptor: size:			
1107	M16 x M20	3.66	7.59
1108	M20 x M25	5.14	9.11
1109	M25 x M32	8.94	11.24
1110	M32 x M40	13.27	12.15
1111	M40 x M50	18.34	18.22
1112	M50 x M63	24.54	21.26
1113	M63 x M75	58.94	22.78
Reducer: size:			
1114	M20 x M16	4.14	7.59
1115	M25 x M20	4.30	9.11
1116	M32 x M25	6.82	11.24
1117	M40 x M32	10.99	12.15
1118	M50 x M40	15.84	18.22
1119	M63 x M50	22.33	21.26
1120	M75 x M63	38.90	22.78

1121 to 1200 Not used

CABLE SEALS AND GLANDS - MINERAL INSULATED CABLES

MINERAL INSULATED CABLES: TERMINATIONS

Specification

Standard:

Comply with:

BS EN 60702-2: Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V. Terminations.

Seals and glands:

Seals and glands for mineral insulated cables to be as recommended or supplied by cable manufacturer.

Rate A				Rate B			
1	2	3	4	5	6	7	8
Seal:		Gland:		Seal:		Gland:	
plain	with earth tail	for plain seal	for earth tail seal	plain	with earth tail	for plain seal	for earth tail seal
£	£	£	£	£	£	£	£

Item
Y61

Each

For bare or sheathed cable:

500 V

two core:

1201	1.0 mm ²	0.73	1.38	2.24	2.24	7.59	8.35	1.52	1.67
1202	1.5 mm ²	0.73	1.38	2.24	2.24	7.90	8.69	1.52	1.67
1203	2.5 mm ²	0.73	1.38	2.24	2.24	8.20	9.02	1.52	1.67
1204	4 mm ²	0.73	1.38	2.24	2.24	8.50	9.36	1.82	2.00

three core:

1205	1.0 mm ²	0.76	1.43	2.24	2.24	9.11	10.02	1.82	2.00
1206	1.5 mm ²	0.76	1.43	2.24	2.24	9.42	10.36	1.82	2.00
1207	2.5 mm ²	0.76	1.43	2.24	2.24	9.72	10.69	2.13	2.34

four core:

1208	1.0 mm ²	0.76	1.43	2.24	2.24	11.54	12.70	2.13	2.34
1209	1.5 mm ²	0.76	1.43	2.24	2.24	11.85	13.03	2.13	2.34
1210	2.5 mm ²	0.76	1.43	2.24	2.24	12.15	13.36	2.43	2.67

seven core:

1211	1.0 mm ²	3.39	4.92	7.62	7.62	17.62	19.38	2.43	2.67
1212	1.5 mm ²	3.39	4.92	7.62	7.62	17.92	19.71	2.43	2.67
1213	2.5 mm ²	3.39	4.92	7.62	7.62	18.22	20.05	2.73	3.01

MINERAL INSULATED CABLES: TERMINATIONS - *continued*

Item	Each	Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Seal:		Gland:		Seal:		Gland:	
		plain	with earth tail	for plain seal	for earth tail seal	plain	with earth tail	for plain seal	for earth tail seal
Y61		£	£	£	£	£	£	£	£

For bare or sheathed cable - *continued*:750 V - *continued*

one core:

1214	10 mm ²	0.75	4.92	2.29	7.62	7.90	8.69	1.52	1.67
1215	16 mm ²	0.75	4.92	2.29	7.62	8.50	9.36	1.52	1.67
1216	25 mm ²	0.75	8.39	2.29	10.59	9.11	10.02	1.52	1.67
1217	35 mm ²	0.75	8.39	2.29	10.59	10.02	11.03	1.52	1.67
1218	50 mm ²	3.45	13.69	7.62	20.90	11.24	12.36	1.82	2.00
1219	70 mm ²	3.45	-	7.62	-	12.45	-	1.82	-
1220	95 mm ²	3.45	-	7.62	-	13.97	-	2.43	-
1221	120 mm ²	7.60	-	10.59	-	15.19	-	2.43	-
1222	150 mm ²	7.60	-	10.59	-	16.71	-	3.04	-
1223	185 mm ²	7.60	-	10.59	-	18.22	-	3.64	-
1224	240 mm ²	10.54	-	20.90	-	21.26	-	4.25	-

two core:

1225	1.5 mm ²	0.75	1.43	2.29	2.29	7.90	8.69	1.52	1.67
1226	2.5 mm ²	0.75	1.43	2.29	2.29	8.20	9.02	1.52	1.67
1227	4 mm ²	0.75	4.92	2.29	7.62	8.50	9.36	1.82	2.00
1228	6 mm ²	0.75	4.92	2.29	7.62	9.11	10.02	1.82	2.00
1229	10 mm ²	3.45	8.39	7.62	10.59	9.72	10.69	1.82	2.00
1230	16 mm ²	3.45	13.80	7.62	20.90	11.24	12.36	2.13	2.34
1231	25 mm ²	7.60	13.80	10.59	20.90	13.06	14.37	2.13	2.34

three core:

1232	1.5 mm ²	0.76	1.43	2.29	2.29	9.42	10.36	1.82	2.00
1233	2.5 mm ²	0.76	4.92	2.29	7.62	9.72	10.69	1.82	2.00
1234	4 mm ²	0.76	4.92	2.29	7.62	10.02	11.03	2.13	2.34
1235	6 mm ²	3.52	4.92	7.62	7.62	10.33	11.36	2.13	2.34
1236	10 mm ²	3.52	8.39	7.62	10.59	10.93	12.03	2.13	2.34
1237	16 mm ²	3.52	14.05	7.62	20.90	12.45	13.70	2.43	2.67
1238	25 mm ²	10.54	14.05	20.90	20.90	14.28	15.70	2.43	2.67

Y61 HV / LV CABLES AND WIRING

MINERAL INSULATED CABLES: TERMINATIONS - *continued*

Item	Each	Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Seal:		Gland:		Seal:		Gland:	
		plain	with earth tail	for plain seal	for earth tail seal	plain	with earth tail	for plain seal	for earth tail seal
Y61		£	£	£	£	£	£	£	£
For bare or sheathed cable - <i>continued</i>									
750 V - <i>continued</i>									
four core:									
1239	1.5 mm ²	0.76	1.43	2.29	2.29	11.54	12.70	2.13	2.34
1240	2.5 mm ²	0.76	4.92	2.29	7.62	11.85	13.03	2.13	2.34
1241	4 mm ²	3.52	4.92	7.62	7.62	12.15	13.36	2.43	2.67
1242	6 mm ²	3.52	8.39	7.62	10.59	12.76	14.03	2.43	2.67
1243	10 mm ²	3.52	8.39	7.62	10.59	13.67	15.04	2.43	2.67
1244	16 mm ²	7.60	14.05	10.59	20.90	15.19	16.71	2.73	3.01
1245	25 mm ²	10.54	14.05	20.90	20.90	17.01	18.71	2.73	3.01
seven core:									
1246	1.5 mm ²	3.45	4.92	7.62	7.62	17.92	19.71	2.43	2.67
1247	2.5 mm ²	3.45	4.92	7.62	7.62	18.22	20.05	2.73	3.01
twelve core:									
1248	1.5 mm ²	7.60	-	10.59	-	21.26	-	2.73	-
1249	2.5 mm ²	7.60	-	10.59	-	21.57	-	3.04	-
nineteen core:									
1250	1.5 mm ²	10.54	-	20.90	-	30.37	-	3.04	-

	Each	Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Size:				Size:			
		20 mm	25 mm	32 mm	40 mm	20 mm	25 mm	32 mm	40 mm
		£	£	£	£	£	£	£	£
Gland shroud:									
1251	PVC	0.38	-	-	-	1.52	-	-	-
1252	LSF	1.19	3.47	7.17	7.97	1.52	1.52	2.43	2.43

1253 to 1300 Not used

CABLE TERMINATING AND JOINTING SOCKETS

Specification*Standard:*

Comply with:

BS EN 61238-1: Compression and mechanical connectors for power cables for rated voltages up to 36 kV (Um = 42 kV). Test methods and requirements.

BS EN 60228: Conductors of insulated cables.

BS 7609: Code of practice for installation and inspection of uninsulated compression and mechanical connectors for power cables with copper or aluminium conductors.

Compression and mechanical connectors:

For conductors in accordance with BS EN 60228, install compression and mechanical connectors to BS 7609.

COPPER COMPRESSION CONNECTORS

Item	Each	Rate A		Rate B	
		1	2	3	4
		Terminal	Splice	Terminal	Splice
		lug	lug	lug	lug
Y61		£	£	£	£
For conductor:					
1301	up to 4.0 mm ²	0.10	0.13	0.91	1.14
1302	4 to 6 mm ²	0.15	0.18	0.91	1.14
1303	10 mm ²	0.32	0.34	1.37	1.71
1304	16 mm ²	0.32	0.38	1.37	1.71
1305	25 mm ²	0.35	0.53	2.73	3.42
1306	35 mm ²	0.39	0.80	2.73	3.42
1307	50 mm ²	0.53	0.96	3.04	3.80
1308	70 mm ²	0.66	1.21	3.04	3.80
1309	95 mm ²	0.90	1.61	3.95	4.94
1310	120 mm ²	1.30	2.14	3.95	4.94
1311	150 mm ²	2.85	3.53	5.47	6.83
1312	185 mm ²	3.30	3.68	5.47	6.83
1313	240 mm ²	6.27	5.64	6.68	8.35
1314	300 mm ²	6.44	6.72	7.90	9.87
1315	400 mm ²	8.84	7.78	9.42	11.77
1316	500 mm ²	10.32	10.78	10.63	13.29
1317	630 mm ²	18.87	14.83	12.15	15.19
1318	800 mm ²	24.98	19.08	13.67	17.09
1319	1000 mm ²	28.06	35.57	15.19	18.98

1320 to 1400 Not used

CABLE JOINTS AND TERMINATIONS

GENERALLY

Specification

Standard:

Comply with:

BS 6910-2: Cold pour resin compound and heat-shrink cable joints in the voltage range up to 1000 V a.c. and 1500 V d.c. Code of practice for on-site installation.

BS 7933: Electric cables. Accessories. Material characterisation.

BS 7933-1: Fingerprinting and type tests for resinous compounds.

BS 7933-2: Fingerprinting and type tests for heat shrinkable components for low voltage applications.

BS EN 50393: Test methods and for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV.

BS 7197: Specification for performance of bonds for electric power cable terminations and joints for system voltages up to 36 kV.

BS EN 60684-3: Specification for flexible insulating sleeving. Specification requirements for individual types of sleeving.

BS 7888-4: Test requirements on accessories for use on power cables of rated voltage from 3,6/6(7,2) kV up to 20,8/36(42) kV.

BS 7888-4.1: Cables with extruded insulation.

BS 7888-4.2: Cables with impregnated paper insulation.

Cable joints:

Cable joints to be as supplied or recommended by cable manufacturer.

Cable jointing:

Cold pour resin and heat shrink joints in accordance with BS 6910-2: Code of Practice for on-site installation.

CABLE JOINTING: 600/1000 V: PVC, THERMOSETTING OR PAPER INSULATED CABLES

Item Y61	Each	Rate A			Rate B		
		1	2	3	4	5	6
		Polymeric		PILC	Polymeric		PILC
		Armoured	Unarmoured		Armoured	Unarmoured	
		£	£	£	£	£	£
Cable joint: 2 to 4 cores: resin: through joint: compression connectors:							
1401	not exceeding 2.5 mm ²	21.53	19.13	21.51	91.12	72.90	123.02
1402	4 mm ²	21.53	19.13	30.84	129.09	103.27	174.27
1403	6 mm ²	30.87	27.44	32.07	129.09	103.27	174.27
1404	10 mm ²	32.09	28.53	39.11	129.09	103.27	174.27
1405	16 mm ²	39.15	34.80	59.66	129.09	103.27	174.27
1406	25 mm ²	59.71	53.08	60.32	129.09	103.27	174.27
1407	35 mm ²	60.37	53.66	103.01	164.02	131.22	221.43
1408	50 mm ²	103.10	91.65	106.46	164.02	131.22	221.43
1409	70 mm ²	106.55	94.71	108.59	176.17	140.94	237.83
1410	95 mm ²	108.69	96.61	191.95	176.17	140.94	237.83

CABLE JOINTING: 600/1000 V: PVC, THERMOSETTING OR PAPER INSULATED CABLES - *continued*

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Polymeric		PILC	Polymeric		PILC
		Armoured	Unarmoured		Armoured	Unarmoured	
Y61	<i>Each</i>	£	£	£	£	£	£

Cable joint: 2 to 4 cores: resin: through joint:
compression connectors - *continued*:

1411	120 mm ²	192.13	170.78	195.49	206.55	165.24	274.71
1412	150 mm ²	195.66	173.91	200.79	206.55	165.24	262.31
1413	185 mm ²	200.98	178.64	243.90	206.55	165.24	268.51
1414	240 mm ²	244.13	217.00	258.29	218.70	174.96	277.74
1415	300 mm ²	258.53	229.80	301.31	218.70	174.96	275.56
1416	400 mm ²	301.58	268.08	351.49	227.81	182.25	284.76

Rate A				Rate B	
1	2	3	4	5	6
Oil, gas and petro- chemical	LSF straight	LSF branch	Fire Resistant CWZ	Any type	
£	£	£	£	£	£

Each

Cable joint: 2 to 4 cores: resin: through joint:
compression connectors:

1417	not exceeding 10 mm ²	133.05	96.46	173.10	120.39	129.09	103.27
1418	16 mm ²	181.16	122.78	278.89	132.84	139.72	111.78
1419	25 mm ²	181.16	126.01	278.89	145.12	145.80	116.64
1420	35 mm ²	181.16	126.01	278.89	145.12	164.02	131.22
1421	50 to 70 mm ²	181.16	163.05	499.56	194.19	170.10	136.08
1422	95 mm ²	250.70	163.05	-	194.19	176.17	140.94
1423	120 to 185 mm ²	326.13	217.39	-	262.39	206.55	165.24
1424	240 to 300 mm ²	326.13	289.85	-	362.81	218.70	174.96
1425	400 mm ²	-	438.23	-	448.52	227.81	182.25

Rate A		Rate B
1	2	3
Straight Joint	Branch joint	Any type
£	£	£

Each

Cable joint: 2 to 4 cores: resin: through joint:
mechanical connectors:

1426	not exceeding 6 mm ²	44.10	62.54	142.15
1427	10 to 16 mm ²	58.85	88.51	151.04
1428	25 to 35 mm ²	63.28	103.19	151.04
1429	50 to 95 mm ²	154.72	209.46	213.23
1430	120 to 185 mm ²	309.61	309.76	241.66
1431	240 to 300 mm ²	433.52	619.38	255.87

Y61 HV / LV CABLES AND WIRING

CABLE JOINTING: 11000 V: PVC, THERMOSETTING OR PAPER INSULATED CABLES

Item Y61	Each	Rate A			Rate B		
		1	2	3	4	5	6
		Polymeric		PILC	Polymeric		PILC
		Single core	Three core	Three core	Single core	Three core	Three core
		£	£	£	£	£	£
Cable joint: 11000 V: resin: through joint: compression connectors:							
unarmoured							
straight joint:							
1432	not exceeding 150 mm ²	174.38	386.85	591.88	303.74	364.49	470.80
1433	185 to 300 mm ²	199.12	394.95	572.67	349.31	410.05	516.36
1434	400 to 630 mm ²	236.05	523.66	775.01	364.49	425.24	531.55
branch joint							
1435	not exceeding 150 mm ²	275.02	809.98	1198.78	379.68	455.62	588.50
1436	185 to 300 mm ²	340.39	1018.29	1507.07	436.63	512.57	645.46
trifurcating straight joint: three-core to single-core							
1437	not exceeding 150 mm ²	-	381.89	-	-	419.17	-
1438	185 to 300 mm ²	-	389.28	-	-	471.56	-
trifurcating transition straight joint: three- core paper insulated to single-core polymeric cable							
1439	not exceeding 150 mm ²	-	-	477.88	-	-	541.42
1440	185 to 300 mm ²	-	-	542.23	-	-	593.82
transition straight joint: three-core paper insulated to three-core polymeric cable							
1441	not exceeding 150 mm ²	-	-	484.74	-	-	676.78
1442	185 to 300 mm ²	-	-	535.90	-	-	742.27
armoured							
straight joint:							
1443	not exceeding 150 mm ²	225.09	407.28	590.55	334.12	400.94	517.88
1444	185 to 300 mm ²	258.12	522.60	757.77	384.24	451.06	568.00
1445	400 to 630 mm ²	287.90	582.90	862.69	400.94	467.77	584.71
branch joint							
1446	not exceeding 150 mm ²	283.99	682.20	-	379.68	455.62	-
1447	185 to 300 mm ²	352.99	1077.96	-	436.63	512.57	-
transition straight joint: single-core paper insulated to single-core polymeric cable							
1448	not exceeding 150 mm ²	-	-	260.40	-	-	541.42
1449	185 to 300 mm ²	-	-	272.08	-	-	593.82
1450	400 to 630 mm ²	-	-	293.45	-	-	611.28
transition straight joint: three-core paper insulated to three-core polymeric cable							
1451	not exceeding 150 mm ²	-	-	452.25	-	-	676.78
1452	185 to 300 mm ²	-	-	507.21	-	-	742.27

Y61 HV / LV CABLES AND WIRING

CABLE JOINTING: 11000 V: PVC, THERMOSETTING OR PAPER INSULATED CABLES - *continued*

Item		Rate A		Rate B	
		1	2	3	4
		Single core	Three core	Single core	Three core
		£	£	£	£
Y61	<i>Each</i>				
	Cable joint: 11000 V: resin: through joint: compression connectors - <i>continued</i> :				
	straight joint: low emission of smoke and corrosive gases when affected by fire				
1453	not exceeding 150 mm ²	302.68	772.07	364.49	437.39
1454	185 to 240 mm ²	305.90	785.82	400.94	473.84
1455	300 to 630 mm ²	347.89	863.53	437.39	510.29
	straight joint: high resistance to hydrocabons: oil and petrochemical installations				
1456	not exceeding 150 mm ²	358.43	776.46	425.24	510.29
1457	185 to 240 mm ²	367.84	809.50	467.77	552.81
1458	300 to 630 mm ²	400.97	910.61	510.29	595.34

		Rate A		Rate B	
		1	2	3	4
		Single core	Three core	Single core	Three core
		£	£	£	£
	<i>Each</i>				
	Cable joint: 11000 V: paper insulated cable: cast iron straight joint: fittings: compound and consumables				
1459	50 mm ²			716.02	607.49
1460	70 mm ²			724.15	637.86
1461	95 mm ²			728.82	668.24
1462	120 mm ²			732.06	698.61
1463	150 mm ²			838.08	728.99
1464	185 mm ²			855.33	759.36
1465	240 mm ²			949.03	789.73
1466	300 mm ²			961.37	820.11
1467	400 mm ²			988.50	850.48

Y61 HV / LV CABLES AND WIRING

CABLE JOINTING: MINERAL INSULATED CABLE:

Specification

Standard:

Comply with BS 3924: Specification for pressure-sensitive adhesive tapes for electrical insulating purposes.

Jointing:

Apply pressure sensitive adhesive tape to BS 3924 over exposed cable sheaths and glands. Protect overall with a PVC shroud.

Method of Measurement

Measure shrouds separately

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		Cores					Cores				
		one	two	three	four	seven	one	two	three	four	seven
Y61	Each	£	£	£	£	£	£	£	£	£	£
	Cable joint: through joint										
	sleeve: seals:										
	glands: ferrules:										
1468	20 mm	30.63	33.41	36.19	38.99	-	21.26	23.69	29.16	31.59	-
1469	25 mm	31.78	34.67	37.56	40.45	43.34	22.17	25.21	30.37	38.58	57.71
1470	32 mm	46.12	50.31	54.51	58.70	-	31.29	32.80	39.49	47.99	-
1471	40 mm	53.91	58.81	63.72	68.61	-	34.32	36.45	42.52	51.64	-

Y61 HV / LV CABLES AND WIRING

CABLE TERMINATIONS: HEAT SHRINKABLE PLASTIC

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Cores:			Cores:		
		two	three	four	two	three	four
Y61	Each	£	£	£	£	£	£
Termination for thermosetting insulated: single wire armoured: PVC over- sheathed cable:							
1472	up to 16 mm ²	10.15	12.94	11.65	21.26	30.37	51.64
1473	25 to 50 mm ²	11.99	19.18	21.18	27.34	39.49	57.71
1474	70 to 95 mm ²	16.32	21.09	23.09	39.49	51.64	66.82
1475	120 to 185 mm ²	-	24.91	27.27	-	72.90	88.09
1476	240 to 400 mm ²	-	34.07	34.91	-	82.01	97.20
1477	Terminations for LSF sheathed cables - <i>multiply the foregoing A rates by 1.15</i> (B rates unaltered).						

CABLE TERMINATIONS: 11000 V: PVC OR THERMOSETTING CABLES

	Each	Rate A				Rate B			
		1	2	3	4	5	6	7	8
		Indoor		Outdoor		Indoor		Outdoor	
		Cores:				Cores:			
		one	three	one	three	one	three	one	three
				BS 7870	BS 6622			BS 7870	BS 6622
		£	£	£	£	£	£	£	£
Termination for polymeric insulated cable:									
1478	not exceeding 70 mm² . .	-	213.66	-	279.15	-	54.67	-	62.27
1479	95 mm²	179.31	277.20	213.37	287.37	57.71	63.79	65.30	71.38
1480	120 to 185 mm²	200.64	277.20	235.24	287.37	66.82	72.90	74.42	80.49
1481	240 to 300 mm²	200.64	311.08	235.24	318.63	75.94	82.01	83.53	89.60
1482	400 mm²	219.73	314.86	251.10	321.89	85.05	91.12	92.64	98.72
1483	600 mm²	219.73	-	251.10	-	97.20	-	104.79	-

Y61 HV / LV CABLES AND WIRING

CABLE TERMINATIONS: TERMINAL BLOCKS

Item	Each	Rate A		Rate B	
		1	2	3	4
		two-way	three-way	two-way	three-way
		£	£	£	£
Cable terminal block: porcelain: fixing to any background:					
1484	5 A	1.06	1.13	6.83	9.87
1485	10 A	1.06	1.13	7.59	10.63
1486	15 A	1.14	1.72	9.11	12.15
1487	30 A	1.18	1.63	10.63	13.67
1488	60 A	1.24	-	12.15	-

		Rate A			Rate B
		1	2	3	4
		Phenolic	Polythene	Polyamid	Any type
<i>Each</i>		£	£	£	£
Cable terminal block: twelve-way: fixing to any background:					
1489	2 A	-	0.59	-	15.19
1490	5 A	1.28	0.65	1.06	18.22
1491	15 A	1.96	1.04	1.68	21.26
1492	30 A	3.29	1.68	2.80	24.30

CONNECTIONS TO EQUIPMENT (EXISTING OR FIXED BY OTHERS)

Method of Measurement

Measure where connections are made to existing equipment or to equipment fixed by others. Do not measure where re-fixing equipment (Rate B) following removal for re-use (Rate E).

Measure cable sockets separately

		Rate B
		1
<i>Each</i>		£
Connection of copper conductor: with or without cable socket: conductor size:		
1493	not exceeding 2.5 mm ²	1.82
1494	4 to 16 mm ²	5.47
1495	25 to 50 mm ²	6.68
1496	70 to 150 mm ²	8.50
1497	185 to 240 mm ²	9.72
1498	300 to 400 mm ²	11.24
1499	500 to 630 mm ²	12.76
1500	800 to 1000 mm ²	14.28

Y62: Busbar trunking

GENERALLY

Specification

Standard:

Comply with:

BS EN 61439: Low-voltage switchgear and controlgear assemblies.

BS EN 61439-1: General rules.

BS EN 61439-2: Power switchgear and control assemblies.

BS 7671: Requirements for Electrical Installations (The IEE Wiring Regulations).

Fittings:

Trunking fittings to be of the same type and manufacture as the busbar trunking. Use manufacturer's purpose made units at changes of direction.

Installation:

Install busbar trunking in accordance with manufacturer's instructions and the relevant standards.

Protective conductor:

Provide a protective conductor throughout system length to the manufacturer's standard.

Definitions

Lighting distribution system: light duty:

For small commercial and industrial buildings.

Lighting distribution system: medium duty:

For medium sized commercial and industrial buildings.

Low power system:

For power distribution in small and medium sized industrial buildings.

Medium power system:

For power distribution in industrial buildings.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Method of Measurement

Busbar trunking:

Measure over all fittings, tap-off units and feed units.

Rates for the following include

Busbar trunking:

For supplying components (Rate A) for and jointing (Rate B) all joints in the running length including joint covers.

For supplying supports (Rate A) and fixing (Rate B) to any background.

For non-standard lengths (Rate A).

Measured fittings generally:

For supplying components (Rate A) for and fixing (Rate B) all associated joints including joint covers.

Tap-off units:

For supplying protection devices as stated (Rate A) and installing (Rate B).

Feed units:

For cable connections (Rate B).

BUSBAR TRUNKING SYSTEM								
LIGHTING DISTRIBUTION BUSBAR SYSTEM TO BS EN 61439-2: IP 41								
	Rate A							Rate B
	1	2	3	4	5	6	7	8
	Light duty			Medium duty - 1 circuit		Medium duty - 2 circuit		Any type
	20 A	25 A	40 A	25 A	40 A	25 A	40 A	
	£	£	£	£	£	£	£	
Metre								
Busbar lighting trunking: tap-off points at centres exceeding 500 mm: joints in running length: fixing brackets:								
single pole and neutral	9.61	17.33	24.71	21.49	22.67	28.06	32.97	15.19
triple pole and neutral	16.09	21.30	24.71	25.22	31.40	31.71	39.71	15.19
Extra for flexible length	-	-	20.18	-	32.96	-	25.32	4.56
							Rate A	Rate B
							1	2
Each							£	£
Tap-off unit:								
pre-wired								
fixed polarity								
6 A							5.13	3.04
10 A							9.13	3.04
phase selection								
10 A							11.02	3.04
terminal unit								
non-fused								
16 A							33.69	3.64
fused								
16 A							36.32	3.64
End feed unit:								
single pole and neutral							19.74	6.07
triple pole and neutral							21.88	6.07
Intermediate feed unit:								
single pole and neutral							28.18	9.11
triple pole and neutral							28.18	9.11
Centre feed unit:								
triple pole and neutral							149.28	18.22

Y62 BUSBAR TRUNKING

LOW POWER BUSBAR SYSTEM TO BS EN 61439-2: IP 41

Item	Metre	Rate A						Rate B
		1	2	3	4	5	6	7
		40 A	63 A	80 A	100 A	125 A	160 A	Any type
Y62		£	£	£	£	£	£	£
014	Busbar trunking: three pole, neutral and earth: tap-off points at centres exceeding 500 mm: joints in running length: fixing brackets	44.75	54.69	66.45	69.75	3.06	87.86	18.22
015	with built-in transmission bus	59.35	72.13	-	85.55	-	-	18.22
016	Extra for flexible length . .	-	123.87	-	109.14	-	150.87	4.56
	<i>Each</i>							
	Extra for:							
017	end cap	7.29	7.29	7.29	7.29	7.29	7.29	3.04
018	angle	104.56	111.79	114.94	118.09	125.44	132.76	4.56
019	flat angle	102.64	111.79	118.64	125.47	127.58	129.69	4.56
020	intersection	167.55	205.42	220.42	235.40	241.50	265.65	7.59
021	flexible joint	144.90	155.02	155.02	155.02	163.44	163.44	9.11
	<i>Each</i>							
	Tap-off unit:							
	fuse protected							
	single pole and neutral:							
022	16 A						23.24	10.63
	triple pole and neutral:							
023	25 A						41.86	10.63
024	32 A						80.49	10.63
	MCB protected:							
	single pole and neutral:							
025	10 A						62.94	10.63
026	16 A						62.94	12.15
027	32 A						62.94	15.19
	triple pole and neutral:							
028	10 A						110.35	13.67
029	16 A						110.35	15.19
030	32 A						110.35	18.22
	for modular equipment							
031	not exceeding 5 modules						44.00	13.67
032	6 to 8 modules						75.47	20.96
033	9 to 12 modules						156.99	24.30
034	13 to 16 modules						158.08	25.82

Rate A	Rate B
1	2
£	£

Y62 BUSBAR TRUNKING

LOW POWER BUSBAR SYSTEM TO BS EN 61439-2: IP 41 - *continued*

Item		Rate A	Rate B
		1	2
Y62	<i>Each</i>	£	£
Tap-off unit - <i>continued</i> :			
twin socket outlet: switched: single pole and neutral:			
035	13 A	113.14	13.67
single industrial socket outlet: MCB protected: triple pole and neutral:			
036	16 A	126.09	20.96
037	32 A	126.09	24.30
End feed unit:			
038	switched: 40 to 80 A	81.33	12.15
039	unswitched: 100 and 125 A	104.21	13.67
Reverse end feed unit:			
040	switched: 40 to 80 A	62.28	12.15
041	unswitched: 100 and 125 A	86.48	13.67
Centre feed unit:			
042	switched: 40 to 80 A	215.57	12.15
043	unswitched: 100 and 125 A	282.75	13.67

MEDIUM POWER BUSBAR SYSTEM TO BS EN 61439-2: IP 41 AND IP 54

		Rate A							Rate B
		1	2	3	4	5	6	7	8
		160 A	250 A	400 A	500 A	630 A	800 A	1000 A	Any type
<i>Metre</i>		£	£	£	£	£	£	£	£
044	Busbar trunking: three-pole, neutral and earth: tap-off points at centres exceeding 500 mm joints in the running length: fixing brackets	109.42	114.97	275.31	323.69	349.53	440.74	469.42	20.96
<i>Each</i>									
Extra for:									
045	end cap	31.66	31.66	33.85	33.85	44.42	44.42	47.79	3.49
046	angle	242.67	242.67	532.25	532.25	766.62	766.62	1303.50	5.24
047	flat angle	527.28	527.28	532.25	532.25	766.62	766.62	1303.50	5.24
048	tee	301.08	301.08	635.37	635.37	814.23	814.23	1384.45	6.99
049	flat tee	1096.58	1096.58	2049.07	2049.07	-	-	-	6.99
050	intersection	520.98	520.98	751.81	751.81	899.49	899.49	1827.39	8.73
051	fire barrier	268.75	268.75	301.91	301.91	341.38	341.38	526.53	6.07

Y62 BUSBAR TRUNKING

MEDIUM POWER BUSBAR SYSTEM TO BS EN 61439-2: IP 41 AND IP 54 - *continued*

Item		Rate A		Rate B
		1	2	3
		IP41	IP54	Any type
		£	£	£
Y62	<i>Each</i>			
Tap-off unit:				
fuse protected: triple pole and neutral:				
unswitched:				
052	20 A	41.04	45.14	22.02
053	32 A	86.14	94.78	22.78
054	50 A	109.41	0.00	23.54
055	63 A	163.71	180.09	24.30
056	80 A	145.97	160.57	25.06
057	100 A	229.47	252.43	25.82
058	160 A	360.22	363.28	26.58
switched:				
059	25 A	379.61	417.58	23.54
060	32 A	379.61	417.58	24.30
061	63 A	421.18	463.32	25.06
062	100 A	455.17	500.68	25.82
063	125 A	514.17	565.57	26.58
064	160 A	546.07	600.68	28.85
065	200 A	685.11	753.64	31.89
066	250 A	880.01	968.03	36.45
067	315 A	1220.78	1341.17	42.52
MCCB protected: triple pole and neutral:				
068	100 A / 25 A	783.34	1018.50	25.51
069	100 A / 63 A	790.90	1028.33	25.82
070	125 A / 100 A	711.54	925.15	27.33
071	160 A / 100 A	801.86	1042.58	28.25
072	160 A / 125 A	903.66	1174.92	28.55
073	160 A / 160 A	946.58	1230.74	28.85
074	200 A / 200 A	1363.62	1772.97	30.50
075	250 A / 200 A	1387.84	1804.46	33.41
076	250 A / 250 A	1412.51	1836.54	36.45
077	400 A	2115.71	2750.84	45.56

Y62 BUSBAR TRUNKING

MEDIUM POWER BUSBAR SYSTEM TO BS EN 61439-2: IP 41 AND IP 54 - *continued*

Item		Rate A		Rate B
		1	2	3
		IP41	IP54	Any type
		£	£	£
Y62	<i>Each</i>			
Tap-off unit - <i>continued</i> :				
	for modular equipment			
078	not exceeding 5 modules: 32 A	59.43	123.02	13.67
079	5 to 8 modules: 63 A	114.79	237.62	21.26
080	8 to 12 modules: 100 A	159.14	271.29	25.82
	for integral contactor breaker			
081	18 A	247.62	305.84	13.67
082	32 A	221.32	274.03	20.96
083	63 A	426.67	528.26	24.30
	single industrial socket outlet: fuse protected:			
	triple pole and neutral:			
084	32 A	-	272.48	13.67
085	63 A	-	272.48	20.96
	double industrial socket outlet: fuse protected:			
	triple pole and neutral:			
086	16 A	-	184.63	24.30

		Rate A							Rate B
		1	2	3	4	5	6	7	8
		160 A	250 A	400 A	500 A	630 A	800 A	1000 A	Any type
		£	£	£	£	£	£	£	£
	<i>Each</i>								
087	End feed unit: unswitched	403.31	403.31	921.67	921.67	862.34	862.34	1329.98	15.72
088	Reverse end feed unit: unswitched . . .	274.38	274.38	518.81	518.81	607.42	607.42	936.84	15.72
089	Centre feed unit: unswitched	554.24	554.24	1262.56	1262.56	1263.87	1263.87	1949.27	15.72

Y63: Support components - cables

GENERALLY

Specification

Material:

Hot dip galvanised coatings after manufacture to BS EN ISO 1461; or pre-galvanised steel to BS EN 10346 and BS EN 10143.

Fittings:

Use factory made fittings throughout of same material, type, pattern, finish and thickness as cable support system. Use reducers, inside angles and outside angles.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Definition of Terms

Perforated galvanised steel cable tray:

Light duty: plain flanged edges not exceeding 20 mm deep.

Medium duty: returned flanged edges 25 mm deep.

Heavy duty: returned flanged edges 50 mm deep.

Method of Measurement

Cable tray, basket cable carrier and cable ladder rack:

Measure along the centre line and over all fittings, short running lengths and branches.

Supports and brackets:

Measure separately.

Rates for the following include

Cable tray, basket cable carrier and cable ladder rack:

For supplying components (Rate A) for and jointing (Rate B) all joints in the running length.

For supplying cable retaining straps and all bonding links (Rate A) and installing (Rate B).

Measured fittings:

For supplying components (Rate A) for and fixing (Rate B) all associated joints.

Cleats and support components (hangers, brackets etc):

For supplying (Rate A) and fixing (Rate B) all necessary fixing devices to any background unless otherwise stated.

Rates D and E:

For removing trays, carriers and rack where concealed but accessible.

CABLE SUPPORT SYSTEMS

		Rate B									
		1	2	3	4	5	6	7	8	9	10
		Width in mm:									
		50	75	100	150	225	300	450	600	750	900
<i>Metre</i>		£	£	£	£	£	£	£	£	£	£
008	Tray: plain flange edge: light duty	9.11	10.63	13.67	15.19	16.70	18.22	21.26	24.30	27.33	30.37
<i>Each</i>											
Extra for: bend											
009	flat: any type . . .	8.20	9.57	12.30	13.67	15.03	16.40	19.13	21.87	24.60	27.33
010	inside or outside	8.20	9.57	12.30	13.67	15.03	16.40	19.13	21.87	24.60	27.33
011	tee	11.48	13.39	17.22	19.13	21.05	22.96	26.79	30.61	34.44	38.27
012	intersection	14.76	17.22	22.14	24.60	27.06	29.52	34.44	39.36	44.28	49.20
013	reducer	-	6.70	8.61	9.57	10.52	11.48	13.39	15.31	17.22	19.13
<i>Metre</i>											
014	ventilated cover . .	5.92	6.91	8.88	9.87	10.86	11.84	13.82	15.79	17.77	19.74

CABLE TRAY: PERFORATED GALVANISED STEEL - <i>continued</i>										
	Rate A									
	1	2	3	4	5	6	7	8	9	10
	Width in mm:									
	50	75	100	150	225	300	450	600	750	900
<i>Metre</i>	£	£	£	£	£	£	£	£	£	£
Tray: return flange										
edge: medium duty .	5.60	6.80	7.38	9.36	11.66	16.74	26.89	38.17	51.59	61.87
<i>Each</i>										
Extra for:										
bend										
flat: any type . . .	22.10	24.23	27.67	29.89	35.73	46.05	9.20	90.46	113.08	135.77
inside or										
outside	10.79	12.09	12.59	15.65	20.76	26.99	44.39	74.28	92.78	111.33
tee	30.12	30.36	33.96	38.53	44.91	57.17	79.34	119.43	149.48	179.35
intersection	46.68	49.08	53.18	57.62	72.45	86.15	115.45	175.98	230.95	277.23
reducer	-	14.95	15.99	18.27	22.39	27.27	37.69	48.74	60.94	73.24
<i>Metre</i>										
ventilated cover . .	3.14	4.00	4.74	7.12	9.95	16.76	25.12	46.30	57.40	68.48
	Rate B									
	1	2	3	4	5	6	7	8	9	10
	Width in mm:									
	50	75	100	150	225	300	450	600	750	900
<i>Metre</i>	£	£	£	£	£	£	£	£	£	£
Tray: return flange										
edge: medium duty .	9.11	10.63	13.67	15.19	16.70	18.22	21.26	24.30	27.33	30.37
<i>Each</i>										
Extra for:										
bend										
flat: any type . . .	8.20	9.57	12.30	13.67	15.03	16.40	19.13	21.87	24.60	27.33
inside or										
outside	8.20	9.57	12.30	13.67	15.03	16.40	19.13	21.87	24.60	27.33
tee	11.48	13.39	17.22	19.13	21.05	22.96	26.79	30.61	34.44	38.27
intersection	14.76	17.22	22.14	24.60	27.06	29.52	34.44	39.36	44.28	49.20
reducer	-	6.70	8.61	9.57	10.52	11.48	13.39	15.31	17.22	19.13
<i>Metre</i>										
ventilated cover . .	5.92	6.91	8.88	9.87	10.86	11.84	13.82	15.79	17.77	19.74

CABLE TRAY: PERFORATED GALVANISED STEEL - <i>continued</i>										
	Rate A									
	1	2	3	4	5	6	7	8	9	10
	Width in mm:									
	50	75	100	150	225	300	450	600	750	900
<i>Metre</i>	£	£	£	£	£	£	£	£	£	£
Tray: return flange										
edge: heavy duty . . .	10.17	13.47	14.04	16.48	19.91	23.24	40.91	51.15	83.92	84.95
<i>Each</i>										
Extra for:										
bend										
flat: any type . . .	36.42	33.06	39.19	42.11	49.57	58.06	90.45	124.75	172.78	197.46
inside or										
outside	20.64	23.59	23.14	26.04	27.74	28.92	57.85	74.28	95.60	114.79
tee	37.13	42.31	49.29	55.58	66.57	73.38	114.32	156.40	215.94	246.65
intersection	49.05	61.28	64.19	83.56	98.27	111.95	169.45	238.64	298.98	365.42
reducer	-	27.16	28.64	22.63	35.50	41.30	63.97	72.45	94.96	106.35
<i>Metre</i>										
ventilated cover . .	3.83	4.90	5.85	8.46	11.29	20.54	31.63	54.80	81.90	87.71
	Rate B									
	1	2	3	4	5	6	7	8	9	10
	Width in mm:									
	50	75	100	150	225	300	450	600	750	900
<i>Metre</i>	£	£	£	£	£	£	£	£	£	£
Tray: return flange										
edge: heavy duty . . .	10.02	11.69	15.03	16.70	18.37	20.05	23.39	26.73	30.07	33.41
<i>Each</i>										
Extra for:										
bend										
flat: any type . . .	9.02	10.52	13.53	15.03	16.54	18.04	21.05	24.05	27.06	30.07
inside or										
outside	9.02	10.52	13.53	15.03	16.54	18.04	21.05	24.05	27.06	30.07
tee	12.63	14.73	18.94	21.05	23.15	25.26	29.47	33.68	37.89	42.09
intersection	16.24	18.94	24.35	27.06	29.77	32.47	37.89	43.30	48.71	54.12
reducer	-	7.37	9.47	10.52	11.58	12.63	14.73	16.84	18.94	21.05
<i>Metre</i>										
ventilated cover . .	6.51	7.60	9.77	10.86	11.94	13.03	15.20	17.37	19.54	21.72

Y63 SUPPORT COMPONENTS: CABLES

CABLE TRAY: PERFORATED GALVANISED STEEL - *continued*

Item		Rate A									
		1	2	3	4	5	6	7	8	9	10
		Width in mm:									
		50	75	100	150	225	300	450	600	750	900
Y63	<i>Each</i>	£	£	£	£	£	£	£	£	£	£
Accessories:											
043	stand-off bracket .	3.45	3.54	3.68	3.80	7.43	9.83	17.12	19.40	21.67	24.97
	cantilever bracket										
044	light loads	4.11	4.54	6.51	7.58	-	-	-	-	-	-
045	medium loads	-	-	10.56	13.31	13.66	14.65	17.30	25.21	43.45	37.97
	support bracket:										
	one drop rod										
046	not exceeding										
	500 mm	7.45	8.56	9.04	10.25	-	-	-	-	-	-
047	500 mm to										
	1.00 m	8.52	9.63	10.11	11.32	-	-	-	-	-	-
048	1.00 to 2.00 m .	10.66	11.76	12.25	13.46	-	-	-	-	-	-
	support hanger:										
	two drop rods										
049	not exceeding										
	500 mm	7.74	11.10	11.45	11.71	11.89	12.25	14.10	19.30	25.06	26.32
050	500 mm to										
	1.00 m	9.88	13.24	13.59	13.85	14.03	14.39	16.24	22.82	28.58	29.84
051	1.00 to 2.00 m .	14.15	17.50	17.86	18.11	18.30	18.65	20.50	29.87	35.63	36.89
	<i>Each</i>	Rate B									
		1	2	3	4	5	6	7	8	9	10
		Width in mm:									
		50	75	100	150	225	300	450	600	750	900
		£	£	£	£	£	£	£	£	£	£
Accessories:											
052	stand-off bracket .	8.35	9.11	9.87	10.63	11.39	12.15	13.67	15.19	16.70	18.22
053	cantilever bracket:										
	light or medium	8.35	9.11	9.87	10.63	11.39	12.15	13.67	15.19	16.70	18.22
	support bracket:										
	one drop rod										
054	not exceeding										
	500 mm	10.93	11.18	11.42	11.91	-	-	-	-	-	-
055	500 mm to										
	1.00 m	13.36	13.61	13.85	14.09	-	-	-	-	-	-
056	1.00 to 2.00 m .	15.79	16.04	16.28	16.52	-	-	-	-	-	-
	support hanger:										
	two drop rods										
057	not exceeding										
	500 mm	13.67	13.97	14.27	14.88	15.19	15.49	16.70	17.46	18.22	19.74
058	500 mm to										
	1.00 m	16.70	17.01	17.31	17.62	18.22	18.83	19.74	21.26	22.78	24.30
059	1.00 to 2.00 m .	19.74	20.05	20.35	20.65	21.26	22.78	24.30	25.82	27.33	28.85

Y63 SUPPORT COMPONENTS: CABLES

CABLE TRAY: PERFORATED UPVC

Item		Rate A							
		1	2	3	4	5	6	7	8
		Size in mm:							
		50 x 50	75 x 50	100 x 50	150 x 50	200 x 50	300 x 50	400 x 50	75 x 75
Y63	Metre	£	£	£	£	£	£	£	£
060	Tray: return flange edge	2.40	3.58	3.77	4.50	7.48	10.78	14.43	3.99
061	Extra for: cover	3.52	1.45	1.53	2.37	3.93	5.87	7.82	1.45
	Each								
062	bend flat: any type	6.91	7.33	8.61	10.99	15.17	22.01	27.36	10.53
063	inside or outside	6.12	9.05	9.88	11.90	21.67	30.65	35.27	14.72
064	tee	5.83	6.75	7.51	7.89	9.72	10.11	10.75	6.75
065	intersection	13.25	4.90	4.89	4.93	4.96	4.98	5.06	4.90
066	reducer	-	20.22	21.45	31.82	35.91	45.69	57.94	20.22
		Rate A							
		1	2	3	4	5	6	7	8
		Size in mm:							
		150 x 75	200 x 75	300 x 75	400 x 75	200 x 100	300 x 100	400 x 100	500 x 100
	Metre	£	£	£	£	£	£	£	£
067	Tray: return flange edge	5.76	8.56	12.72	17.61	11.33	15.12	20.78	23.06
068	Extra for: cover	2.37	3.93	5.87	7.82	3.93	5.87	7.82	9.90
	Each								
069	bend flat: any type	11.60	17.35	22.01	29.90	19.87	30.88	44.78	53.44
070	inside or outside	15.27	24.55	30.65	38.18	27.78	39.41	65.62	75.58
071	tee	7.89	9.72	10.11	10.75	9.07	9.46	10.11	11.43
072	intersection	4.93	4.96	4.98	5.06	4.45	4.46	4.52	4.65
073	reducer	31.82	35.91	45.69	57.94	35.91	45.69	57.94	57.94

Y63 SUPPORT COMPONENTS: CABLES

CABLE TRAY: PERFORATED UPVC - *continued*

Item		Rate B								
		1	2	3	4	5	6	7	8	9
		Width in mm:								
		50	75	100	150	200	300	400	500	600
Y63	<i>Metre</i>	£	£	£	£	£	£	£	£	£
074	Tray: return flange edge	10.82	11.39	11.96	12.53	13.10	13.67	14.24	14.81	18.22
	Extra for:									
075	cover	7.03	7.40	7.77	8.14	8.51	8.88	9.25	9.62	11.84
	<i>Each</i>									
	bend									
076	flat: any type	10.45	10.93	11.42	12.15	12.63	13.12	13.36	14.58	17.01
077	inside or									
	outside	10.45	10.93	11.42	12.15	12.63	13.12	13.36	14.58	17.01
078	tee	14.63	15.31	15.99	17.01	17.69	18.37	18.71	20.41	22.02
079	intersection	18.81	19.68	20.56	21.87	22.74	23.62	24.05	26.24	28.31
080	reducer	-	11.48	11.99	12.76	13.27	13.78	14.03	15.31	16.49
		Rate A								
		1	2	3	4	5	6	7	8	9
		Width in mm:								
		50	75	100	150	200	300	400	500	600
	<i>Each</i>	£	£	£	£	£	£	£	£	£
	Accessories:									
081	stand-off bracket	3.49	3.49	3.49	3.80	5.00	8.44	9.37	10.11	10.82
082	cantilever bracket	2.38	2.38	2.38	2.78	2.84	15.13	18.79	24.02	27.46
	support hanger:									
	two drop rods									
083	not exceeding									
	500 mm	11.36	11.36	11.36	11.67	10.89	16.27	16.95	21.13	21.46
084	500 mm to 1.00 m	17.78	17.78	17.78	18.09	17.31	22.69	23.37	31.72	32.05
085	1.00 to 2.00 m	30.62	30.62	30.62	30.94	30.15	35.54	36.21	52.89	53.22
		Rate B								
		1	2	3	4	5	6	7	8	9
		Width in mm:								
		50	75	100	150	200	300	400	500	600
	<i>Each</i>	£	£	£	£	£	£	£	£	£
086	stand-off bracket	8.35	9.11	9.87	10.63	11.39	12.15	13.67	15.19	16.70
087	cantilever bracket	8.35	9.11	9.87	10.63	11.39	12.15	13.67	15.19	16.70
	support hanger:									
	two drop rods									
088	not exceeding									
	500 mm	13.67	13.97	14.27	14.88	15.19	15.49	16.70	17.46	18.22
089	500 mm to 1.00 m	16.70	17.01	17.31	17.62	18.22	18.83	19.74	21.26	22.78
090	1.00 to 2.00 m	19.74	20.05	20.35	20.65	21.26	22.78	24.30	25.82	27.33

Y63 SUPPORT COMPONENTS: CABLES

CABLE TRAY: WIRE BASKET: ZINC PLATED STEEL

		Rate A								
		1	2	3	4	5	6	7	8	9
		Width in mm:								
Item		50	100	150	200	300	400	450	500	600
Y63	Metre	£	£	£	£	£	£	£	£	£
Tray										
091	not exceeding 30 mm deep	2.59	2.88	3.40	4.00	5.41	8.06	-	9.98	11.53
092	30 to 60 mm deep	3.23	3.68	4.19	4.77	6.47	8.89	9.59	10.29	13.78
093	60 to 110 mm deep	-	7.34	-	9.23	11.62	13.79	-	17.53	24.74
Extra for:										
094	cover	2.43	3.34	3.62	4.21	6.61	10.20	11.36	11.62	16.79
Rate B										
		1	2	3	4	5	6	7	8	9
		Width in mm:								
	Metre	50	100	150	200	300	400	450	500	600
	Metre	£	£	£	£	£	£	£	£	£
Tray										
095	not exceeding 30 mm deep	9.72	14.27	15.19	16.10	17.62	19.13	-	22.17	23.69
096	30 to 60 mm deep	10.69	15.70	16.70	17.71	19.38	21.05	22.72	24.39	26.06
097	60 to 110 mm deep	-	18.84	-	21.25	23.25	25.26	-	29.27	31.27
Extra for:										
098	cover	4.56	5.16	5.77	6.38	6.99	7.59	8.20	8.81	9.42
Each										
099	made flat angle	7.59	8.50	9.42	10.33	11.24	12.15	13.06	14.88	16.70
100	made flat radius bend: 90°	9.11	10.20	11.30	12.39	13.48	14.58	15.67	17.86	20.05
101	made riser bend	4.56	5.10	5.65	6.20	6.74	7.29	7.84	8.93	10.02
102	made tee	6.07	6.80	7.53	8.26	8.99	9.72	10.45	11.91	13.36
103	made intersection	14.43	16.16	17.89	19.62	21.35	23.08	24.81	28.28	31.74
104	made reducer	8.35	9.35	10.36	11.36	12.36	13.36	14.37	16.37	18.37
								Rate A	Rate B	
								1	2	
								£	£	
divider										
105	not exceeding 30 mm deep								1.14	6.07
106	30 to 60 mm deep								1.31	6.68
107	60 to 110 mm deep								4.31	7.29

CABLE TRAY: WIRE BASKET: ZINC PLATED STEEL - *continued*

239

Y63 SUPPORT COMPONENTS: CABLES

CABLE LADDER: GALVANISED STEEL

Item		Rate A					
		1	2	3	4	5	6
		Width in mm:					
		150	300	450	600	750	900
Y63	<i>Metre</i>	£	£	£	£	£	£
	Ladder rack: section depth:						
118	50 mm	10.71	11.67	13.36	14.39	15.48	16.57
119	100 mm	12.67	14.02	14.43	16.35	20.46	22.01
120	125 mm	18.04	19.73	21.33	23.37	27.61	29.38
121	150 mm	22.70	24.76	26.85	28.59	32.05	33.87
	<i>Each</i>						
	Extra for:						
	flat bend: section depth:						
122	50 mm	28.11	31.02	36.92	39.15	45.80	63.84
123	100 mm	32.55	34.78	40.88	47.00	59.24	67.70
124	125 mm	38.17	41.38	48.23	56.01	65.56	73.84
125	150 mm	39.54	44.28	50.97	56.50	69.08	78.10
	riser bend: section depth:						
126	50 mm	47.75	49.99	51.99	43.27	59.20	63.87
127	100 mm	41.85	41.85	62.79	64.01	75.56	81.59
128	125 mm	58.22	59.31	64.92	70.62	74.15	83.74
129	150 mm	60.25	62.12	69.08	79.95	77.63	88.18
	tee: section depth:						
130	50 mm	50.47	53.35	62.78	67.16	92.55	97.22
131	100 mm	56.01	62.77	68.39	77.29	106.54	111.90
132	125 mm	58.80	71.61	79.53	90.76	120.99	128.93
133	150 mm	62.12	75.69	83.72	96.22	128.96	135.56
	intersection: section depth:						
134	50 mm	82.52	94.02	104.09	112.46	150.12	157.35
135	100 mm	89.01	92.77	107.40	107.58	154.88	162.35
136	125 mm	98.26	105.10	139.12	150.55	159.47	168.48
137	150 mm	103.91	110.77	143.93	155.28	170.15	199.47
	reducer: section depth:						
138	50 mm	-	35.12	44.31	49.42	54.35	59.73
139	100 mm	-	40.79	48.28	50.46	55.53	61.02
140	125 mm	-	42.54	49.71	54.92	61.13	66.92
141	150 mm	-	45.23	51.96	57.74	64.62	70.75

Y63 SUPPORT COMPONENTS: CABLES

CABLE LADDER: GALVANISED STEEL - *continued*

Item		Rate B					
		1	2	3	4	5	6
		Width in mm:					
		150	300	450	600	750	900
Y63	<i>Metre</i>	£	£	£	£	£	£
	Ladder rack: section depth:						
142	50 mm	21.26	27.33	33.41	39.48	44.04	48.59
143	100 mm	22.32	28.70	35.08	41.46	46.24	51.02
144	125 mm	23.39	30.07	36.75	43.43	48.44	53.45
145	150 mm	24.45	31.43	38.42	45.41	50.64	55.88
	<i>Each</i>						
	Extra for:						
	flat bend: section depth:						
146	50 mm	9.11	13.67	22.78	27.33	30.75	34.17
147	100 mm	9.57	14.35	23.92	28.70	32.29	35.88
148	125 mm	10.02	15.03	25.06	30.07	33.83	37.58
149	150 mm	10.48	15.72	26.20	31.43	35.36	39.29
	riser bend: section depth:						
150	50 mm	9.11	13.67	22.78	27.33	30.75	34.17
151	100 mm	9.57	14.35	23.92	28.70	32.29	35.88
152	125 mm	10.02	15.03	25.06	30.07	33.83	37.58
153	150 mm	10.48	15.72	26.20	31.43	35.36	39.29
	tee: section depth:						
154	50 mm	11.84	17.77	29.61	35.53	39.98	44.42
155	100 mm	12.44	18.66	31.09	37.31	41.98	46.64
156	125 mm	13.03	19.54	32.57	39.09	43.97	48.86
157	150 mm	13.62	20.43	34.05	40.86	45.97	51.08
	intersection: section depth:						
158	50 mm	14.58	21.87	36.45	43.73	49.20	54.67
159	100 mm	15.31	22.96	38.27	45.92	51.66	57.40
160	125 mm	16.04	24.05	40.09	48.11	54.12	60.14
161	150 mm	16.77	25.15	41.91	50.30	56.58	62.87
	reducer: section depth:						
162	50 mm	-	12.30	20.50	24.60	27.68	30.75
163	100 mm	-	12.92	21.53	25.83	29.06	32.29
164	125 mm	-	13.53	22.55	27.06	30.44	33.83
165	150 mm	-	14.15	23.58	28.29	31.83	35.36

CABLE LADDER: GALVANISED STEEL - *continued*

186 to 200 Not used

Y63 SUPPORT COMPONENTS: CABLES

CABLE CLEATS AND HANGERS

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		Cable diameter in mm not exceeding:					Cable diameter in mm not exceeding:				
		15	25	30	35	50	15	25	30	35	50
Y63	<i>Each</i>	£	£	£	£	£	£	£	£	£	£

Single way cleat:

one piece: single fixing:

201	moulded polythene	0.17	0.20	0.35	0.43	0.57	3.04	3.04	4.56	4.56	4.56
202	LSF compound	0.39	0.44	0.80	0.98	1.29	3.04	3.04	4.56	4.56	4.56

two piece: single fixing:

claw cleat:

203	aluminium alloy	2.25	2.25	2.53	2.85	3.15	4.56	4.56	6.07	6.07	7.59
204	ADD for epoxy finish .	0.56	0.58	0.63	0.72	0.79	-	-	-	-	-
205	galvanised cast iron . .	7.83	8.12	9.28	9.89	10.27	5.32	5.32	6.99	6.99	8.66
206	ADD for epoxy finish .	0.15	0.17	0.18	0.20	0.21	-	-	-	-	-

Rate A						Rate B				
1	2	3	4	5		6	7	8	9	10
Cable diameter in mm not exceeding:						Cable diameter in mm not exceeding:				
25	45	55	65	75		25	45	55	65	75
£	£	£	£	£		£	£	£	£	£

Each

two piece: single fixing:

hook cleat:

207	aluminium alloy	6.43	8.08	9.02	12.87	13.44	4.56	6.07	6.07	7.59	7.59
208	nylon	1.84	2.17	2.53	2.85	3.21	3.80	5.16	5.16	6.53	6.53
209	nylon: flame retardent	2.92	3.46	4.01	4.53	5.11	3.80	5.16	5.16	6.53	6.53

Rate A						Rate B				
1	2	3	4	5		6	7	8	9	10
Cable diameter in mm not exceeding:						Cable diameter in mm not exceeding:				
57	64	70	73	76		57	64	70	73	76
£	£	£	£	£		£	£	£	£	£

Each

one piece: single fixing:

hinged clamping arms:
securing bolt, nut and
washer:

210	aluminium alloy	18.41	21.72	23.49	25.53	28.24	13.67	13.67	14.43	15.19	15.19
211	ADD for epoxy finish .	2.76	3.27	3.53	3.84	4.23	-	-	-	-	-

one piece: double fixing:

hinged clamping arms:
securing bolt, nut and
washer:

212	aluminium alloy	20.25	23.90	25.84	28.08	31.02	21.87	21.87	23.08	24.30	24.30
213	ADD for epoxy finish .	3.04	3.58	3.88	4.22	4.65	-	-	-	-	-

Y63 SUPPORT COMPONENTS: CABLES

CABLE CLEATS AND HANGERS - *continued*

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		Cable diameter in mm not exceeding:					Cable diameter in mm not exceeding:				
		62	70	75	82	89	62	70	75	82	89
Y63	<i>Each</i>	£	£	£	£	£	£	£	£	£	£

Single way cleat: - *continued*

two piece: double fixing:

214	polypropylene	2.65	2.83	3.58	4.93	6.20	15.79	15.79	17.77	17.77	17.77
215	ADD for LSF	0.79	1.16	2.28	2.47	2.54	-	-	-	-	-
216	galvanised cast iron	14.24	15.81	20.52	21.79	44.52	17.37	17.37	19.54	19.54	19.54
217	ADD for epoxy finish . . .	2.00	2.27	2.92	2.37	5.82	-	-	-	-	-

Rate A						
1	2	3	4	5	6	7
Cable diameter in mm not exceeding:						
64	76	83	89	95	101	114
£	£	£	£	£	£	£

Each

two piece: double fixing:

218	aluminium alloy	4.77	6.79	13.44	21.59	41.98	55.26	65.94
219	ADD for epoxy finish	1.68	2.37	4.70	7.54	14.69	19.34	22.87

Rate B						
1	2	3	4	5	6	7
Cable diameter in mm not exceeding:						
64	76	83	89	95	101	114
£	£	£	£	£	£	£

Each

two piece: double fixing:

220	aluminium alloy	15.79	17.77	17.77	17.77	17.77	19.74	19.74
-----	---------------------------	-------	-------	-------	-------	-------	-------	-------

Rate A	Rate B
1	2
£	£

Each

"J" hanger:

cable(s) up to 80mm diameter:

221	LSF compound	8.58	15.19
-----	------------------------	------	-------

"J" hanger cleat including retaining cap:

cable(s) up to 80mm diameter:

222	LSF compound	13.57	18.22
-----	------------------------	-------	-------

Y63 SUPPORT COMPONENTS: CABLES

CABLE CLEATS AND HANGERS - *continued*

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		Cable diameter in mm not exceeding:					Cable diameter in mm not exceeding:				
		54	59	65	70	76	54	59	65	70	76
Y63	<i>Each</i>	£	£	£	£	£	£	£	£	£	£

Three way cleat: trefoil form:

one piece: single fixing:

hinged clamping arms:

securing bolt, nut and

washer:

223 aluminium alloy 18.38 25.23 29.75 32.92 37.41 15.03 15.03 15.03 15.87 16.70

224 ADD for epoxy finish . 2.75 3.80 4.46 4.95 5.61 - - - - -

one piece: double fixing:

hinged clamping arms:

securing bolt, nut and

washer:

225 aluminium alloy 18.71 24.94 31.25 35.66 39.28 24.05 24.05 24.05 25.39 26.73

226 ADD for epoxy finish . 3.04 4.04 5.06 5.77 6.35 - - - - -

Each

Rate A									
1	2	3	4	5	6	7	8	9	
Cable diameter in mm not exceeding:									
Trefoil formation									
34	41	47	54	60	67	73	80	110	
£	£	£	£	£	£	£	£	£	£

Cable restraining strap:

tensioning clip: securing pin:

winding key:

stainless steel:

227 standard duty 6.16 6.41 6.70 7.03 7.29 7.61 7.92 8.21 -

228 heavy duty 9.35 9.92 10.61 11.19 11.76 12.44 13.14 13.75 16.72

229 ADD for LSF liner 2.92 2.92 2.92 2.92 4.58 4.58 4.58 4.58 4.58

Each

Rate B									
1	2	3	4	5	6	7	8	9	
Cable diameter in mm not exceeding:									
Trefoil formation									
34	41	47	54	60	67	73	80	110	
£	£	£	£	£	£	£	£	£	£

Cable restraining strap:

tensioning clip: securing pin:

winding key:

stainless steel:

230 standard duty 2.43 2.43 2.43 3.04 3.04 3.04 3.64 3.64 -

231 heavy duty 2.92 2.92 2.92 3.64 3.64 3.64 4.37 4.37 5.47

232 ADD for LSF liner 1.52 1.52 1.52 1.82 1.82 1.82 2.28 2.28 2.28

Y63 SUPPORT COMPONENTS: CABLES

CABLE CLEATS AND HANGERS - *continued*

Item	Each	Rate A								
		1	2	3	4	5	6	7	8	9
		Cable diameter not exceeding:								
		Trefoil formation								
		34	41	47	54	60	67	73	80	110
		Single cable								
		65	85	90	110					
Y63		£	£	£	£	£	£	£	£	£
Multi way cleat:										
	two piece: double fixing:									
	stainless steel restraining									
	strap:									
	standard duty:									
233	aluminium alloy base .	10.91	11.29	12.01	12.63	15.19	15.36	22.15	28.26	-
234	ADD for epoxy finish .	1.41	1.43	1.53	1.62	1.97	1.98	3.25	3.70	-
235	galvanised cast iron									
	base	15.03	15.96	16.53	17.81	21.45	21.71	27.52	33.66	-
236	ADD for epoxy finish .	1.41	1.41	1.53	1.62	1.96	1.98	3.25	3.70	-
237	stainless steel base . .	33.38	33.75	35.01	35.34	38.31	38.50	40.74	41.08	-
heavy duty:										
238	aluminium alloy base .	13.04	13.62	14.62	15.19	20.96	21.63	29.95	36.75	39.23
239	ADD for epoxy finish .	1.97	2.05	2.19	2.28	3.15	3.24	4.49	5.52	5.89
240	galvanised cast iron									
	base	18.96	19.94	20.80	22.25	28.04	26.44	31.79	38.89	-
241	ADD for epoxy finish .	2.85	2.99	3.12	3.35	4.21	3.96	4.76	5.83	-
242	stainless steel base . .	28.77	29.39	30.22	31.45	33.65	34.10	37.57	37.86	-
	Each	Rate B								
		1	2	3	4	5	6	7	8	9
		Cable diameter not exceeding:								
		Trefoil formation								
		34	41	47	54	60	67	73	80	110
		Single cable								
		65	85	90	110					
		£	£	£	£	£	£	£	£	£
	two piece: double fixing:									
	stainless steel restraining									
	strap:									
	standard duty:									
243	any type	21.87	21.87	21.87	24.90	24.90	24.90	27.94	27.94	-
	heavy duty:									
244	any type	22.35	22.35	22.35	25.51	25.51	25.51	28.67	28.67	34.62

Y63 SUPPORT COMPONENTS: CABLES

CABLE GUARDS

Item		Rate A		Rate B	
		1		2	
		£		£	
Y63	<i>Metre</i>				
	Cable guard: galvanised mild steel:				
	cable diameter:				
245	not exceeding 51 mm overall		7.08		6.07
246	51 to 63 mm overall		9.91		7.59
247	63 to 76 mm overall		10.61		9.11

CATENARY SUSPENSION

		Rate A			Rate B		
		1	2	3	4	5	6
		Cable diameter:			Cable diameter:		
		not exceeding:			not exceeding:		
		3 mm	4 mm	6 mm	3 mm	4 mm	6 mm
	<i>Each</i>	£	£	£	£	£	£
	Galvanised steel catenary suspension						
248	standard: not exceeding 30 metres	34.72	43.09	50.83	75.93	78.97	88.08
249	ADD - <i>per additional metre over 30 metres</i>	0.59	0.75	1.00	1.52	1.67	2.13
250	PVC coated: not exceeding 30 metres	48.31	67.37	82.97	82.00	85.04	94.15
251	ADD - <i>per additional metre over 30 metres</i>	1.04	1.56	2.07	1.67	1.82	2.28

		Rate A		Rate B	
		1		2	
		£		£	
	<i>Each</i>				
	Cable suspender and galvanised hook: maximum cable diameter:				
252	32 mm		1.35		3.04
253	38 mm		1.44		3.34
254	48 mm		1.55		3.64
255	54 mm		1.77		3.95
256	60 mm		2.00		4.25
257	72 mm		3.70		4.56

Y71: LV switchgear and distribution boards

GENERALLY

Specification

Standard:

Comply with:

BS EN 61439: Low-voltage switchgear and controlgear assemblies.

BS EN 61439-1: General rules.

BS EN 61439-2: Power switchgear and control assemblies.

BS EN 61439-3: Distribution boards intended to operated by ordinary persons (DBO).

BS EN 60947: Low-voltage switchgear and controlgear.

BS EN 60947-1: General rules.

BS EN 60947-2: Circuit-breakers.

BS EN 60947-3: Switches, disconnectors, switch-disconnectors and fuse-combination units.

Installation:

Install and commission switchgear and controlgear in accordance with the appropriate standard and the manufacturer's recommendations.

Dismantling and Removal

For dismantling and removing items in this *Section*:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - multiply by 0.70.

Method of Measurement

Measure the following separately:

- i. Conduit connections between equipment.
- ii. Terminations and glands for cables.
- iii. Connecting cable ends and tails into existing equipment.

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables, conduit or trunking.
- iii. Bonding links from cable armouring/sheath and/or conduit/trunking to equipment earth terminals.

Rates for the following include

Generally:

For unloading and placing in position.

Rate A:

For supplying with protection against corrosion by a hot-dip galvanised coating to BS EN ISO 1461 or by a zinc sprayed coating to BS EN ISO 2063 with the Manufacturer's standard finish.

Rate B:

For all statutory testing.

For connecting all cable ends and tails.

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

LV SWITCHGEAR AND CONTROLGEAR ASSEMBLY

GENERALLY

Specification

Standard:
Comply with:
BS EN 61439-1: Low-voltage switchgear and controlgear assemblies.

Rates for the following include

Internal separation of assemblies:
For Form 2 Type 2 degree of separation to BS EN 61439-2, unless otherwise stated.

Note

Measure MCCBs and MCBs separately, unless otherwise stated.

MODULAR PANELBOARDS TO BS EN 61439-1

Item	Each	Rate A					Rate B
		1	2	3	4	5	6
		not exceeding 250 A	250 to 400 A	400 to 630 A	630 to 800 A	800 to 1250 A	Any Type
		£	£	£	£	£	£
	Modular panelboard: rust protected sheet steel construction: epoxy polyester finish: extendable: IP3X						
	incoming module						
001	MCCB: Form 4 Type 2	-	242.65	-	346.18	425.47	218.67
002	dual MCCB: including MCCBs .	2023.18	3288.14	-	-	-	334.09
003	fused combination switch: Form 4 Type 2	599.92	1149.77	1255.18	1244.38	-	273.34
004	direct connection	-	-	-	439.19	653.31	249.05
005	horizontal busbar module	-	521.74	-	573.97	608.22	242.97
	outgoing module						
	MCCB						
006	not exceeding 6-way	-	780.29	802.90	1435.56	-	246.01
007	6 to 12-way	-	924.41	1228.16	1847.87	-	252.08
	MCCB: Form 4 Type 2						
008	not exceeding 6-way	-	1360.89	-	1190.68	-	258.16
009	6 to 12-way	-	1897.67	-	2026.12	-	264.23
	fused combination switch: Form 4 Type 2						
010	not exceeding 6-way	-	1432.72	-	1306.07	-	273.34
011	6 to 12-way	-	2137.48	-	2359.07	-	279.42

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MODULAR PANELBOARDS TO BS EN 61439-1 - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		not exceeding 6-way	6 to 12 way	12 to 16 way	not exceeding twin 4-way	twin 4 to 8-way	twin 8 to 12-way	Any Type
Y71	<i>Each</i>	£	£	£	£	£	£	£

Modular panelboard - *continued*

ancillary module

MCB distribution module

012 type A: SPN 228.47 263.73 281.56 277.11 319.87 - 151.86

013 type B: TPN 431.83 437.16 442.51 443.38 571.34 584.82 182.23

service centre

014 DIN rail - 243.08 270.70 307.04 257.32 275.10 121.49

Rate A				Rate B
1	2	3	4	5
not exceeding 250 A	250 to 400 A	400 to 800 A	800 to 1250 A	Any Type
£	£	£	£	£

Each

meter pack modules

analogue meter module: with voltmeter and selector switch: phase indication lights:

015 one ammeter 402.22 478.28 435.70 474.11 53.15

016 three separate ammeters - 486.53 462.10 477.93 91.11

017 digital meter module: multifunctions for voltage current and power measurement

- - - 428.05 136.67

018 current transformer module: top or bottom entry

389.60 392.88 497.50 506.37 97.19

Rate A					Rate B
1	2	3	4	5	6
Height of module					Any Type
not exceeding 150 mm	150 to 300 mm	300 to 450 mm	450 to 600 mm	600 to 1200 mm	
£	£	£	£	£	

Each

blank module

019 plain cover 170.98 228.10 245.45 300.97 353.88 27.33

020 hinged door - 237.04 234.24 273.95 463.74 30.37

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MODULAR PANELBOARDS TO BS EN 61439-1 - *continued*

Item		Rate A	Rate B
		1	2
Y71	<i>Each</i>	£	£
Accessories:			
021	fire barrier kit	28.71	15.19
	gland plate		
022	steel	21.81	9.11
023	aluminium	38.85	12.15

		Rate A					Rate B
		1	2	3	4	5	6
		Height of module					Any Type
		not exceeding 150 mm	150 to 300 mm	300 to 450 mm	450 to 600 mm	600 to 1200 mm	
		£	£	£	£	£	£
	<i>Each</i>						
024	steel side plate	17.18	18.17	18.66	19.28	21.37	9.11
025	rear cover plate	-	-	23.14	24.04	35.52	12.15
Plinth module							
026	not exceeding 250 mm	120.57	-	-	-	-	29.05
027	250 to 750 mm	152.85	-	-	-	-	30.37
Side cableway box							
028	plain cover	141.93	166.51	184.05	193.89	260.19	30.37
029	hinged door	-	206.52	225.34	234.65	303.98	30.37
accessories							
fire barrier kit							
030	top/bottom	-	10.88	-	-	-	9.11
031	side	75.34	84.50	87.30	87.85	100.33	12.15

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
	gland plate		
032	steel	13.72	6.07
033	aluminium	28.12	9.11

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MODULAR PANELBOARDS TO BS EN 61439-1 - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		Incoming MCCB module: Form 4 Type 2						Any Type
		not exceeding 250 A		250 to 400 A		400 to 800 A		
		3-pole	4-pole	3-pole	4-pole	3-pole	4-pole	
Y71	Each	£	£	£	£	£	£	£
Connecting modules: to								
MCCB:								
034	400 A	78.04	119.92	114.77	158.35	-	-	151.86
035	630 A	78.04	119.92	184.88	230.52	152.60	152.60	167.04
036	800 A	-	-	-	-	152.60	152.60	182.23
MCCB: Form 4 Type 2:								
037	400 A	211.35	211.35	239.98	239.98	-	-	212.60
038	800 A	-	-	-	-	219.43	219.43	227.79
fused combination switch:								
Form 4 Type 2:								
039	400 A	211.35	211.35	239.98	239.98	-	-	212.60
040	800 A	-	-	-	-	219.43	219.43	227.79

		Rate A					Rate B
		1	2	3	4	5	6
		Incoming fused combination switch module: Form 4 Type 2					Incoming direct connect module
		not exceeding 250 A	250 to 400 A	400 A to 630 A	630 to 800 A		
	<i>Each</i>	£	£	£	£	£	Any Type £
MCCB module:							
041	400 A	211.40	163.48	-	-	76.70	78.97
042	630 A	140.08	130.80	188.45	-	164.65	85.04
043	800 A	-	130.80	197.89	197.89	164.65	91.11
MCCB module: Form 4 Type 2:							
044	400 A	159.17	156.95	-	-	263.46	109.34
045	800 A	159.17	156.95	216.72	216.72	263.46	121.49
fused combination switch module:							
Form 4 Type 2:							
046	400 A	159.17	156.95	-	-	263.46	151.86
047	800 A	159.17	156.95	216.72	216.72	263.46	167.04

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MODULAR PANELBOARDS TO BS EN 61439-1 - *continued*

Item	<i>Each</i>	Rate A				Rate B
		1	2	3	4	5
		Current Transformer module				Any Type
		not exceeding 250 A	250 to 400 A	400 A to 800 A	800 to 1250 A	
Y71		£	£	£	£	£
Connecting modules: to						
outgoing						
MCCB module:						
048	400 A	159.64	159.64	-	-	75.93
049	630 A	-	169.64	178.13	-	82.00
050	800 A	-	-	178.13	-	88.08
MCCB module: Form 4 Type 2:						
051	400 A	170.32	170.32	-	-	87.15
052	800 A	-	-	219.83	-	101.67
fused combination switch module:						
Form 4 Type 2:						
053	400 A	180.53	180.53	-	-	109.34
054	800 A	-	-	233.01	-	127.56
incoming						
MCCB module: Form 4 Type 2:						
055	400 A: three-pole	161.32	161.32	-	-	91.11
056	400 A: four-pole	190.95	175.96	-	-	106.30
057	800 A	-	-	171.38	-	121.49
058	1250 A: three-pole	-	-	-	235.31	136.67
059	1250 A: four-pole	-	-	-	235.31	144.26
fused combination switch module:						
Form 4 Type 2						
060	250A	147.24	-	-	-	100.23
061	400 A	-	93.07	-	-	109.34
062	630 A	-	-	111.15	-	115.41
063	800 A	-	-	111.15	-	121.49
direct connection module						
064	800A	-	-	116.70	-	127.56
065	1250A	-	-	-	235.31	151.86

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MODULAR PANELBOARDS TO BS EN 61439-1 - *continued*

Item		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		MCCB module			MCCB Form 4 Type 2			MCCB	MCCB Form 4 Type 2
		not exceeding 400 A	400 to 630 A	630 A to 800 A	not exceeding 400 A	400 A to 800 A	800 to 1250 A		
Y71	Each	£	£	£	£	£	£	£	£

Connecting modules: to

066	horizontal busbar module	145.66	160.22	160.22	172.82	172.82	247.08	151.86	167.04
-----	------------------------------------	--------	--------	--------	--------	--------	--------	--------	--------

		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		Fused combination switch module: Form 4 Type 2			Direct connection			Fused combination switch module	Direct connection
		not exceeding 400 A	400 to 630 A	630 A to 800 A	not exceeding 400 A	400 A to 800 A	800 to 1250 A		
	Each	£	£	£	£	£	£	£	£
067	horizontal busbar module	134.74	145.66	345.63	-	172.82	247.08	151.86	167.04

		Rate A				Rate B	
		1	2	3	4	5	
		Current Transformer module				Any Type	
		not exceeding 250 A	250 to 400 A	400 A to 800 A	800 to 1250 A		
	Each	£	£	£	£	£	
068	horizontal busbar module		93.07	93.07	142.82	194.83	115.41

		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		Horizontal busbar module:			Horizontal busbar module across side cableway space			Horizontal busbar module	
		not exceeding 400 A	400 to 630 A	630 A to 800 A	not exceeding 400 A	400 A to 800 A	800 to 1250 A	across cableway space	
	Each	£	£	£	£	£	£	£	£
069	horizontal busbar module	102.37	204.74	204.74	122.84	245.68	245.68	136.67	151.86

070 to 100 Not used

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

PANELBOARDS AND PAN ASSEMBLIES

Item		Rate A					Rate B
		1	2	3	4	5	6
		not exceeding 250 A	250 to 400 A	400 to 630 A	630 to 800 A	ADD for glazed door	Any Type
Y71	Each	£	£	£	£	£	£
	Panelboard, enclosure and pan assembly: stoved enamel metal: busbars: MCCB mounting rails: full length lockable door: IP4X without incomers						
101	not exceeding 4-ways	297.41	354.72	-	-	44.69	136.67
102	4 to 6-ways	549.22	584.47	590.89	1629.11	44.69	144.26
103	6 to 8-ways	570.68	607.30	613.98	1692.73	48.78	151.86
104	8 to 12-ways	699.14	725.14	816.34	2183.55	48.78	159.45
105	12 to 18-ways	986.04	1022.70	1155.81	2395.76	59.80	167.04

Pan assembly

without incomers

106	not exceeding 4-ways	240.76	217.47	-	-	-	106.30
107	4 to 6-ways	319.82	461.47	572.92	824.25	-	112.37
108	6 to 8-ways	353.07	509.46	633.18	617.87	-	118.45
109	8 to 12-ways	442.15	547.32	676.12	707.46	-	124.52
110	12 to 18-ways	568.73	704.02	764.11	983.69	-	130.60

ADD for:

incomer

111	MCCB or circuit breaker switch (device measured separately)	82.46	86.41	-	-	-	15.19
112	direct connection	68.16	86.41	-	-	-	15.19

Rate A		Rate B	
1	2	3	4
Plain door	Glazed door	Plain door	Glazed door
£	£	£	£

Each

Replacement door: including lock, hinges and fittings

113	4-way	36.54	47.50	12.15	13.67
114	6-way	36.54	47.50	18.22	19.74
115	8-way	42.91	55.79	21.26	22.78
116	12-way	42.91	55.79	24.30	25.82
117	18-way	49.35	64.15	27.33	28.85

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

PANELBOARDS AND PAN ASSEMBLIES - continued

Item		Rate A					Rate B	
		1	2	3	4	5	6	7
		Height: each: not exceeding 1.00 m				Height per metre	Each	Metre
		not exceeding 225 mm	225 to 300 mm	300 to 450 mm	450 to 900 mm			
Y71	Each	£	£	£	£	£	£	£

Extension box: screw on cover

118	top/bottom	-	93.82	-	-	-	22.78	-
119	side	71.38	73.55	96.61	121.58	132.69	19.74	21.93

Rate A	Rate B
1	2
£	£

	Each		
120	MCCB steel enclosure: surface mounted	54.01	27.33
121	Horizontal connection of panelboards: to provide additional ways: 400 A . . .	264.44	75.93
	Spreader: for cables rated		
122	not exceeding 250 A	32.96	9.11
123	250 to 400 A	50.72	15.19
124	Blanking plate	2.92	3.04

Rate A				Rate B
1	2	3	4	5
MCCB Incomer connection:				Any Type
not exceeding 200 A	200 to 250 A	250 to 400 A	400 to 630 A	
£	£	£	£	£

Meter pack: 250 A and 400 A busbar

analogue: with voltmeter and selector
switch: phase indication lights

125	ammeter and selector switch	474.17	534.72	534.72	534.72	53.15
126	three separate ammeters and selector switch	507.63	557.30	503.81	-	91.11
127	digital: multifunctions for voltage current and power measurement	626.78	626.78	657.80	657.80	106.30

Rate A		Rate B
1	2	3
Outgoing:		Any Type
not exceeding 125 A	125 to 200 A	
£	£	£

	<i>Each</i>	£	£	£
128	Transient voltage surge suppression unit: 80 kA per phase: including MCCB and fittings	786.98	791.90	136.67

PANELBOARDS AND PAN ASSEMBLIES - *continued*

143 to 200 Not used

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS

Specification

Standard:

Comply with BS EN 60947-2: Low-voltage switchgear and controlgear. Circuit-breakers.

Moulded case circuit breakers:

Moulded case circuit breakers (MCCBs) shall be of the independent manual closing air-break type.

Each MCCB shall have a facility for padlocking in the 'OFF' position.

Rates for the following include

Moulded case circuit breakers:

For supplying (Rate A) and fixing (Rate B) terminal shrouds.

Item		Rate A					
		1	2	3	4	5	6
		15 to 50 A	50 to 100 A	100 to 125 A	125 to 160 A	160 to 200 A	200 to 250 A
		£	£	£	£	£	£
Y71	Each						
	Moulded case circuit breaker: category A: thermal and magnetic						
	240 V AC: single pole: solid neutral link:						
	short circuit breaking capacity not less than:						
201	16 kA	48.94	51.14	73.63	-	-	-
202	22 kA	53.60	53.84	77.52	-	-	-
203	25 kA	54.91	54.91	89.61	94.08	106.60	130.42
	415 V AC: double pole:						
	short circuit breaking capacity not less than:						
204	16 kA	72.81	76.43	108.87		-	-
		Rate A					
		1	2	3	4	5	
		15 to 50 A	50 to 100 A	100 to 125 A	125 to 160 A	160 to 200 A	
		£	£	£	£	£	
	Each						
	415 V AC: triple pole:						
	short circuit breaking capacity not less than:						
205	16 kA		100.17	103.70	140.02	-	-
206	25 kA		115.20	120.07	154.04	220.03	-
207	36 kA		116.84	137.46	189.02	231.97	263.79
208	50 kA		137.69	140.70	188.58	221.31	251.67
209	65 kA		152.51	155.79	190.98	294.68	298.99

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS - *continued*

Item		Rate A					
		1	2	3	4	5	6
		200 to 250 A	250 to 320 A	320 to 400 A	400 to 500 A	500 to 630 A	630 to 800 A
Y71	<i>Each</i>	£	£	£	£	£	£
Moulded case circuit breaker: category A: thermal and magnetic - <i>continued</i>							
415 V AC: triple pole: short circuit breaking capacity not less than:							
210	16 kA	-	-	-	-	-	-
211	25 kA	235.52	-	-	-	-	-
212	36 kA	314.86	400.93	400.93	677.83	767.97	858.11
213	50 kA	247.95	307.45	792.74	792.74	792.74	924.86
214	65 kA	377.83	449.03	449.03	-	-	-

		Rate A				
		1	2	3	4	5
		15 to 50 A	50 to 100 A	100 to 125 A	125 to 160 A	160 to 200 A
	<i>Each</i>	£	£	£	£	£
415 V AC: four pole: three pole break: short circuit breaking capacity not less than:						
215	25 kA		193.53	201.72	258.78	281.60
216	36 kA		-	-	375.81	427.37
217	50 kA		-	-	463.32	526.89
218	65 kA		226.67	231.53	309.37	484.36

		Rate A					
		1	2	3	4	5	6
		200 to 250 A	250 to 320 A	320 to 400 A	400 to 500 A	500 to 630 A	630 to 800 A
	<i>Each</i>	£	£	£	£	£	£
415 V AC: four pole: three pole break: short circuit breaking capacity not less than:							
219	25 kA	388.18	-	-	-	-	-
220	36 kA	510.07	649.50	649.50	978.16	978.16	1111.18
221	50 kA	561.08	714.45	714.45	1116.45	1116.45	1194.82
222	65 kA	612.07	727.45	727.45	-	-	-

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS - *continued*

Item		Rate B				
		1	2	3	4	5
		15 to	50 to	100 to	125 to	160 to
		50 A	100 A	125 A	160 A	200 A
Y71	<i>Each</i>	£	£	£	£	£

Moulded case circuit breaker
category A: thermal and magnetic - *continued*

All kA

240 V AC:						
223	single pole	24.30	36.45	39.48	41.00	44.80
415 V AC:						
224	double pole	32.40	48.59	53.99	-	-
225	triple pole	36.45	54.67	60.74	66.82	82.00
226	four pole	41.00	61.50	68.34	75.17	92.25

Rate B					
1	2	3	4	5	6
200 to	250 to	320 to	400 to	500 to	630 to
250 A	320 A	400 A	500 A	630 A	800 A
£	£	£	£	£	£

Each

All kA

240 V AC:						
227	single pole	48.59	-	-	-	-
415 V AC:						
228	triple pole	91.11	100.23	115.41	127.56	136.67
229	four pole	102.50	112.75	129.84	143.51	153.76

Rate A				
1	2	3	4	5
500 to	630 to	800 to	1000 to	1250 to
630 A	800 A	1000 A	1250 A	1600 A
£	£	£	£	£

Each

Moulded case circuit breaker: category B:
electronic

415 V AC: triple pole: short circuit
breaking capacity not less than:

230	50 kA	977.15	1045.73	1105.15	1164.20	1409.00
231	65 kA	-	-	-	1293.97	1565.55
232	85 kA	-	-	-	-	3159.01

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS - *continued*

Item		Rate B				
		1	2	3	4	5
		500 to	630 to	800 to	1000 to	1250 to
		630 A	800 A	1000 A	1250 A	1600 A
Y71	<i>Each</i>	£	£	£	£	£
Moulded case circuit breaker: category B: electronic - <i>continued</i>						
415 V AC: triple pole: short circuit breaking capacity not less than:						
233	50 kA	136.67	151.86	167.04	182.23	212.60
234	65 kA	-	-	-	197.41	227.79
235	85 kA	-	-	-	-	242.97

		Rate A				
		1	2	3	4	5
		500 to	630 to	800 to	1000 to	1250 to
		630 A	800 A	1000 A	1250 A	1600 A
	<i>Each</i>	£	£	£	£	£
415 V AC: four pole: three pole break: short circuit breaking capacity not less than:						
236	50 kA	1524.58	1634.23	1725.17	1816.10	2197.41
237	65 kA	-	-	-	2017.90	2441.57
238	85 kA	-	-	-	-	4789.43

		Rate B				
		1	2	3	4	5
		500 to	630 to	800 to	1000 to	1250 to
		630 A	800 A	1000 A	1250 A	1600 A
	<i>Each</i>	£	£	£	£	£
415 V AC: four pole: three pole break: short circuit breaking capacity not less than:						
239	50 kA	144.26	159.45	174.64	189.82	220.19
240	65 kA	-	-	-	205.01	235.38
241	85 kA	-	-	-	-	250.56

		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		50 to	100 to	125 to	160 to	50 to	100 to	125 to	160 to
		100 A	125 A	160 A	200 A	100 A	125 A	160 A	200 A
	<i>Each</i>	£	£	£	£	£	£	£	£

Moulded case
circuit breaker switch:
short circuit breaking
capacity not less than
25 kA

242	415 V AC: triple pole	105.02	140.02	191.44	204.90	60.74	68.34	75.93	91.11
-----	--------------------------------	--------	--------	--------	--------	-------	-------	-------	-------

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS - *continued*

Item		Rate A						
		1	2	3	4	5	6	7
		200 to 250 A	250 to 320 A	320 to 400 A	400 to 630 A	630 to 800 A	800 to 1250 A	1250 to 1600 A
		£	£	£	£	£	£	£
Y71	<i>Each</i>							
	Moulded case circuit breaker switch: short circuit breaking capacity not less than 25 kA - <i>continued</i>							
243	415 V AC: triple pole	294.01	400.93	473.15	633.13	861.56	1249.48	2276.25
244	415 V AC: four pole	1081.65	1319.33	1556.97	2004.93	3088.93	4728.21	8694.75
		Rate B						
		1	2	3	4	5	6	7
		200 to 250 A	250 to 320 A	320 to 400 A	400 to 630 A	630 to 800 A	800 to 1250 A	1250 to 1600 A
		£	£	£	£	£	£	£
	<i>Each</i>							
245	415 V AC: triple pole:	106.30	121.49	136.67	151.86	167.04	182.23	212.60
246	415 V AC: four pole:	113.89	129.08	144.26	159.45	174.64	189.82	220.19
		Rate A						
		1	2	3	4	5		
		not exceeding 125 A	125 to 250 A	250 to 400 A	400 to 630 A	630 to 1600 A		
		£	£	£	£	£		
	<i>Each</i>							
	Accessories: factory fitted:							
247	shunt trip			125.74	118.44	118.44	201.85	201.85
248	under voltage release			131.22	143.21	143.21	192.39	192.39
	auxillary switch: changeover:							
249	1 contact			48.80	46.72	46.72	116.39	108.81
250	2 contact			97.57	93.34	93.34	174.64	163.18
251	alarm			48.81	46.72	46.72	229.23	145.15
252	changeover/alarm			126.11	93.38	93.38	229.23	214.22
	rotary handle							
253	standard			82.48	108.60	108.60	195.94	-
254	extended			119.81	116.85	116.85	196.71	239.97
255	motor drive			1033.49	1476.86	1691.94	1846.05	1994.33
256	locking device and padlock			22.81	9.19	9.19	67.69	65.72
	Enclosure:							
257	general purpose: IP31			87.89	109.87	140.64	160.57	241.42
	ADD for:							
258	locking device and padlock			18.29	21.22	22.89	24.84	32.55

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MOULDED CASE CIRCUIT BREAKERS - *continued*

Item		Rate B				
		1	2	3	4	5
		not exceeding 125 A	125 to 250 A	250 to 400 A	400 to 630 A	630 to 1600 A
Y71	<i>Each</i>	£	£	£	£	£
	Accessories: factory fitted:					
259	shunt trip	3.04	4.56	6.07	9.11	12.15
260	under voltage release	1.82	2.73	3.64	5.47	7.29
	auxillary switch: changeover:					
261	1 contact	3.04	4.56	6.07	9.11	12.15
262	2 contact	4.86	7.29	9.72	14.58	19.44
263	alarm	3.04	4.56	6.07	9.11	12.15
264	changeover/alarm	6.07	9.11	12.15	18.22	24.30
	rotary handle					
265	standard	3.04	4.56	6.07	9.11	12.15
266	extended	4.86	7.29	9.72	14.58	19.44
267	motor drive	15.19	22.78	30.37	45.56	60.74
268	locking device and padlock	3.04	4.56	6.07	9.11	12.15
	Enclosure:					
269	general purpose: IP31	31.89	53.15	60.74	75.93	91.11
	ADD for:					
270	locking device and padlock	3.04	3.04	3.04	3.04	3.04

271 to 300 Not used

SWITCHES, DISCONNECTORS AND FUSE COMBINATION UNITS

GENERALLY

Specification

Standard:

Comply with BS EN 60947-3: Low-voltage switchgear and controlgear. Switches, disconnectors, switch-disconnectors and fuse-combination units.

Fit fuse combination units with cartridge fuse links in accordance with BS EN 60269 (BS 88).

Method of measurement

Fuses:

Measure cartridge fuse links separately.

SWITCH-DISCONNECTORS

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		20 A	35 A	45 A	63 A	20 A	35 A	45 A	63 A
		£	£	£	£	£	£	£	£

Switch-disconnector:
impact resistant
enclosure: IP57

301	two pole	13.60	15.82	17.09	19.49	15.19	18.22	21.26	24.30
302	triple pole	17.09	19.18	24.83	28.03	16.70	19.74	22.78	25.82

	Each	Rate A							
		1	2	3	4	5	6	7	8
		20 A	25 A	32 A	40 A	63 A	80 A	100 A	125 A
		£	£	£	£	£	£	£	£

Switch-disconnector:
rotary cam: moulded
thermoplastic enclosure:
lockable (unless
otherwise stated): IP65

303	two pole and neutral . .	18.91	23.06	23.28	34.00	50.39	-	-	-
304	three pole and neutral .	19.11	28.90	29.16	34.88	72.82	78.75	90.99	128.32
305	four pole: not lockable .	16.17	27.23	29.17	31.90	61.67	-	-	-
306	four pole	18.80	29.11	31.20	34.81	73.33	132.44	150.04	-
307	four pole and neutral . .	22.09	31.37	33.62	44.98	82.50	-	-	-
308	six pole and neutral . . .	25.85	36.74	39.38	53.76	87.22	-	-	-
309	eight pole	-	36.64	39.26	53.59	88.59	-	-	-

	Each	Rate B							
		1	2	3	4	5	6	7	8
		20 A	25 A	32 A	40 A	63 A	80 A	100 A	125 A
		£	£	£	£	£	£	£	£

310	any pole	27.33	30.37	33.41	36.45	39.48	42.52	45.56	48.59
-----	--------------------	-------	-------	-------	-------	-------	-------	-------	-------

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

SWITCH-DISCONNECTORS - *continued*

Item		Rate A					
		1	2	3	4	5	6
		16 A	20 A	25 A	32 A	40 A	63 A
Y71	<i>Each</i>	£	£	£	£	£	£
	Switch-disconnector: rotary cam: pressed steel enclosure: IP55						
311	two pole	23.29	24.52	29.52	42.31	44.54	63.02
312	three pole	23.62	24.86	30.38	42.81	45.06	79.25
313	four pole	24.10	25.37	37.98	43.47	45.75	109.21
314	six pole	32.31	34.02	48.52	67.57	71.13	129.49
		Rate B					
		1	2	3	4	5	6
		16 A	20 A	25 A	32 A	40 A	63 A
		£	£	£	£	£	£
315	<i>Each</i> any pole	18.22	21.26	24.30	27.33	30.37	33.41
		Rate A					
		1	2	3	4	5	6
		20 A	32 A	40 A	63 A	100 A	125 A
		£	£	£	£	£	£
	<i>Each</i> Switch-disconnector: rust protected sheet steel:						
	rotary cam: IP4X						
316	two pole	51.92	67.19	79.98	92.78	146.63	155.21
317	three pole	62.33	76.99	91.66	129.54	204.09	215.09
318	three pole and neutral	65.99	80.66	96.54	133.21	206.53	218.75
319	four pole	69.66	83.10	98.99	139.32	213.87	226.09
	front operated handle: paint finish: "on-off" indication: IP41						
320	two pole	62.74	76.80	92.93	108.61	165.15	190.88
321	three pole and neutral	72.05	85.41	112.25	138.28	218.12	235.40
		Rate B					
		1	2	3	4	5	6
		20 A	32 A	40 A	63 A	100 A	125 A
		£	£	£	£	£	£
322	<i>Each</i> any pole	45.56	48.59	51.63	54.67	57.71	60.74
		Rate A		Rate B			
		1	2	1	2		
		£	£	£	£		
	<i>Each</i> locking device						
323	handle locking					15.06	7.59
324	door locking					12.21	12.15

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

SWITCH-DISCONNECTORS - *continued*

Item		Rate A						
		1	2	3	4	5	6	7
		20 A	40 A	63 A	125 A	160 A	250 A	400 A
Y71	<i>Each</i>	£	£	£	£	£	£	£
	Switch-disconnector: heavy duty: rust protected sheet steel construction: epoxy polyester finish							
	IP55							
325	two pole	113.60	123.25	121.28	214.72	255.35	342.51	365.32
326	three pole	123.84	136.22	149.85	263.74	293.02	393.05	475.60
327	four pole	136.22	149.85	204.96	277.65	314.40	432.37	513.13
	IP65							
328	two pole	179.63	194.89	193.68	306.74	373.46	440.62	477.84
329	three pole	195.82	215.39	239.33	376.76	428.54	505.64	622.10
330	four pole	225.46	236.95	263.25	453.49	486.91	601.77	721.83
		Rate A			Rate B			
		8	9	10	1	2	3	
		630 A	1000 A	1250 A	20 A	40 A	63 A	
	<i>Each</i>	£	£	£	£	£	£	
	IP55							
331	two pole	409.68	-	-	39.48	45.56	57.71	
332	three pole	538.57	892.28	1285.01	49.35	56.95	72.13	
333	four pole	840.17	1199.98	1486.38	51.33	59.22	75.02	
	IP65							
334	two pole	741.31	-	-	47.38	54.67	69.25	
335	three pole	974.52	1301.05	1766.11	59.22	68.34	86.56	
336	four pole	1190.23	1699.21	2000.33	61.59	71.07	90.02	
		Rate B						
		4	5	6	7	8	9	10
		125 A	160 A	250 A	400 A	630 A	1000 A	1250 A
	<i>Each</i>	£	£	£	£	£	£	£
	IP55							
337	two pole	72.89	88.08	106.30	127.56	151.86	-	-
338	three pole	91.11	113.89	144.26	182.23	227.79	280.94	341.68
339	four pole	94.76	118.45	150.04	189.52	236.90	292.17	355.35
	IP65							
340	two pole	87.47	105.69	127.56	153.07	182.23	-	-
341	three pole	109.34	136.67	173.12	218.67	273.34	337.12	410.02
342	four pole	113.71	142.14	180.04	227.42	284.28	350.61	426.42

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

SWITCH-DISCONNECTORS - *continued*

Item		Rate A					
		1	2	3	4	5	6
		63 A	100 A	200 A	400 A	630 A	800 A
		£	£	£	£	£	£
Y71	<i>Each</i>						
	Switch-disconnector: industrial heavy duty: rust protected sheet steel construction: paint finish: retractable operating handle: flag "on-off":						
343	three pole	257.46	327.82	520.94	950.97	1930.89	2302.93
		Rate B					
		1	2	3	4	5	6
		63 A	100 A	200 A	400 A	630 A	800 A
		£	£	£	£	£	£
	<i>Each</i>						
344	three pole	96.89	104.59	120.03	150.89	197.17	258.89
		Rate A		Rate B			
		1		2			
		£		£			
		£		£			
	<i>Each</i>						
	locking device						
345	handle locking					7.37	7.59
346	door locking					15.15	12.15

FIREMAN'S EMERGENCY SWITCH-DISCONNECTORS

Specification

Note

Switch: pole operated ring handle locking in "off" position.

Fire safety signs to BS ISO 3864-1 measured separately.

Nameplate: white vitreous enamel with red lettering to BS 7671.

Recess for flush fixing measured separately.

		Rate A			Rate B		
		1	2	3	4	5	6
		Flush	Surface		Flush	Surface	
		20 A	20 A	32 A	20 A	20 A	32 A
		£	£	£	£	£	£
	<i>Each</i>						
	Switch-disconnector: heavy duty cast iron: IP55:						
347	two pole	249.80	49.42	71.29	91.11	45.56	60.74
		Rate A		Rate B			
		1		2			
		£		£			
		£		£			
	<i>Each</i>						
348	Nameplate					13.87	7.59

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CHANGE-OVER SWITCHES

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		20 A	25 A	40 A	63 A	20 A	25 A	40 A	63 A
		£	£	£	£	£	£	£	£

Changeover switch:
two-way rotary cam:
moulded enclosure: IP65

349	two-pole	21.17	31.68	55.76	82.19	45.56	60.74	75.93	91.11
350	four-pole	52.54	78.63	115.30	169.96	60.74	75.93	91.11	121.49

	Each	Rate A							
		1	2	3	4	5	6	7	8
		15 A	32 A	63 A	100 A	200 A	400 A	600 A	800 A
		£	£	£	£	£	£	£	£

Changeover switch:
on-load: rust protected
sheet steel construction:
paint finish: "on-off"
indication:

351	two-pole	93.76	121.89	216.12	465.49	-	-	-	-
352	three-pole	105.00	135.01	247.53	522.75	-	-	-	-
353	four-pole	142.52	185.64	382.37	674.87	969.16	1743.34	3210.09	4206.24

	Each	Rate B							
		1	2	3	4	5	6	7	8
		15 A	32 A	63 A	100 A	200 A	400 A	600 A	800 A
		£	£	£	£	£	£	£	£

354	two-pole	30.37	33.41	42.52	57.71	-	-	-	-
355	three-pole	39.48	43.43	55.28	75.02	-	-	-	-
356	four-pole	42.52	46.77	59.53	80.79	110.55	148.82	195.59	250.87

FUSE COMBINATION UNITS

	Rate A			
	1	2	3	4
	63 A	100 A	160 A	200 A
<i>Each</i>	£	£	£	£

spreader box: cast metal split pattern: adaptor plate:
(measure gland separately):

ADD for:

spreader box: cast metal split pattern: adaptor plate:
(measure gland separately):

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

FUSE-SWITCHES - continued

Item		Rate B			
		1	2	3	4
		63 A	100 A	160 A	200 A
Y71	Each	£	£	£	£
Fuse-switch-disconnector: industrial heavy duty - <i>continued</i>					
375	single pole and neutral	51.63	60.74	72.89	82.00
376	double pole	59.22	74.41	92.63	110.86
377	triple pole and neutral	66.82	88.08	112.37	139.71
378	triple pole and switched neutral	-	101.74	132.12	168.56
straight cable entry box:					
379	short pattern	-	-	-	15.19
380	long pattern	16.70	16.70	18.22	18.22
381	reverse cable entry box	20.05	20.05	21.87	21.87
spreader box: cast metal split pattern: adaptor plate: (measure gland separately):					
straight entry:					
382	single pole and neutral or double pole	-	-	25.82	25.82
383	triple pole and neutral or switched neutral	25.82	25.82	27.33	27.33
45° angled entry:					
384	single pole and neutral or double pole	-	-	25.82	25.82
385	triple pole and neutral or switched neutral	25.82	25.82	27.33	27.33
		Rate B			
		1	2	3	4
		315 A	400 A	630 A	800 A
	Each	£	£	£	£
386	triple pole and neutral	173.12	206.53	255.12	309.79
387	triple pole and switched neutral	180.71	220.19	274.86	338.64
ADD for:					
straight cable entry box:					
388	short pattern	18.22	18.22	-	-
389	long pattern	19.74	19.74	21.26	21.26
390	reverse cable entry box	48.59	60.74	72.89	91.11
spreader box: cast metal split pattern: adaptor plate: (measure gland separately):					
straight entry:					
391	triple pole and neutral or switched neutral	33.41	36.45	39.48	42.52
45° angled entry:					
392	triple pole and neutral or switched neutral	34.93	37.96	41.00	44.04

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

SWITCH-FUSES

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		30 A	45 A	63 A	100 A	30 A	45 A	63 A	100 A
Y71	Each	£	£	£	£	£	£	£	£

Switch-fuse: 240 V AC:
single pole and switched
neutral: cartridge fuse:
IP20

393	insulated	23.04	32.00	53.95	84.54	6.07	6.68	6.99	7.29
394	metalclad	34.56	46.08	67.97	106.49	7.59	7.90	8.20	8.50

Rate A				
1	2	3	4	5
20 A	32 A	63 A	100 A	125 A
£	£	£	£	£

Each

Switch-disconnector-fuse: front operated handle:
rust protected sheet steel construction: paint
finish: "on-off" indication: HRC fuselink: IP41

395	single-pole and neutral	69.65	91.11	136.22	235.75	250.92
396	two-pole	81.13	99.81	167.43	286.26	322.27
397	three-pole and neutral	98.22	125.21	215.02	376.66	388.74

Rate B				
1	2	3	4	5
20 A	32 A	63 A	100 A	125 A
£	£	£	£	£

Each

398	single-pole and neutral	34.93	39.48	48.59	60.74	75.93
399	two-pole	39.48	45.56	57.71	72.89	91.11
400	three-pole and neutral	42.52	48.59	60.74	77.45	97.19

Rate A	Rate B
1	2
£	£

Each

locking device

401	handle locking	12.21	7.59
402	door locking	15.06	3.04

INSTRUMENTS AND METERS

Comply with BS EN 62053-11: Electricity metering equipment (a.c.). Particular requirements. Electromechanical meters for active energy (classes 0.5, 1 and 2).

		Rate A	Rate B
		1	2
	<i>Each</i>	£	£
406	Electricity meter: pre-payment type: single-phase: 2-wire: 240 V: 50 Hz: cyclometer register: flat rate, variable tariff: 20 to 60 A	121.79	53.15
407	ADD where with coin card	62.45	-
	Electricity meter board: chipboard 20 mm thick:		
408	300 x 300 mm	3.25	15.19
409	450 x 300 mm	4.33	16.70
410	600 x 450 mm	7.90	18.22
411	900 x 600 mm	13.93	19.74
	Electricity meter box: external: ABS construction: 409 x 595 x 214 mm: knockout provision: chipboard 20 mm thick:		
412	surface type	68.47	45.56
413	flush type	40.17	48.59

273

FUSES, FUSELINKS AND FUSE UNITS

GENERALLY

Specification*Standard:*

Comply with:

BS EN 60269-1, BS 88-1: Low-voltage fuses. General requirements.

BS HD 60269-2, BS 88-2: Low-voltage fuses. Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application). Examples of standardized systems of fuses A to K.

BS 3036: Specification. Semi-enclosed electric fuses (ratings up to 100 amperes and 240 volts to earth).

BS 7654: Specification for single-phase street lighting cut-out assemblies for low-voltage public electricity distribution systems. 25 A rating for highway power supplies and street furniture.

Cartridge fuse links complying with BS 88/BS EN 60269 shall be Class gG (or Class gM in motor circuits) unless otherwise indicated. Motor circuit fuse links shall be used only where indicated.

FUSES: DOMESTIC

Item		Rate A	Rate B
		1	2
		£	£
Y71	<i>Each</i>		
501	Cartridge fuse: not exceeding 13 A / 250 V	0.22	2.64
502	Fuse wire: not exceeding 30 A	0.08	5.32

	<i>Each</i>	Rate A						Rate B
		1	2	3	4	5	6	7
		5 A	10 A	15 A	20 A	30 A	45 A	Any
		£	£	£	£	£	£	£
503	Fuselink: 240 V AC: ferrule cap: HRC: for use in domestic consumer unit .	0.71	0.94	0.94	0.94	1.06	2.48	2.64

CARTRIDGE FUSELINKS: INDUSTRIAL AND COMMERCIAL

	<i>Each</i>	Rate A					Rate B
		1	2	3	4	5	6
		16 A	20 A	25 A	32 A	45 A	Any
		£	£	£	£	£	£
504	Fuselink: 415 V AC: HRC: general purpose .	1.35	1.45	1.53	1.53	1.63	7.97

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CARTRIDGE FUSELINKS: INDUSTRIAL AND COMMERCIAL - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		not exceeding						Any Type
		35 A	40 A	50 A	63 A	80 A	100 A	
Y71	<i>Each</i>	£	£	£	£	£	£	£
Fuselink: industrial: 415 V AC: HRC:								
bolted pattern: offset contacts								
	fixing centres 44.5 mm							
505	general purpose	2.93	-	-	-	-	-	5.32
506	motor protection	3.34	5.58	7.91	8.39	-	-	6.07
fixing centres 73 mm								
507	general purpose	6.17	6.17	6.48	6.33	7.14	-	5.32
508	motor protection	-	4.97	4.97	5.60	9.83	10.24	6.07
fixing centres 94 mm								
509	general purpose	10.29	10.29	10.29	10.29	9.70	-	5.32
bolted pattern: centre contacts								
fixing centres 97 mm								
510	general purpose	8.31	8.31	8.42	9.08	-	-	5.32
511	motor protection	-	-	-	-	10.35	10.90	6.07
fixing centres 111 mm								
512	general purpose	8.31	7.91	8.42	9.08	10.18	-	5.32

		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		80 to						80 to	125 to
		100 A	125 A	160 A	200 A	250 A	315 A	100 A	315 A
	<i>Each</i>	£	£	£	£	£	£	£	£
bolted pattern: offset contacts:									
fixing centres: 73 mm									
513	general purpose . . .	7.91	17.76	19.37	25.97	-	-	5.32	13.21
514	motor protection . . .	-	15.69	15.69	-	-	-	-	14.43
fixing centres: 94 mm									
515	general purpose . . .	9.70	17.61	18.47	18.95	-	-	5.32	13.21
516	motor protection . . .	-	18.12	18.31	20.73	27.81	30.73	-	14.43

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CARTRIDGE FUSELINKS: INDUSTRIAL AND COMMERCIAL - *continued*

Item		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		80 to						80 to	125 to
		100 A	125 A	160 A	200 A	250 A	315 A	100 A	315 A
Y71	<i>Each</i>	£	£	£	£	£	£	£	£
	Fuselink: industrial: 415 V								
	AC: HRC:								
	bolted pattern: centre								
	contacts:								
	fixing centres: 111 mm								
517	general purpose . . .	9.78	17.61	18.47	19.11	24.62	27.46	5.32	13.21
518	motor protection . . .	18.10	18.35	20.73	28.62	31.65	41.45	6.07	14.43
	fixing centres: 133 mm								
519	general purpose . . .	-	-	-	-	25.88	28.85	-	13.21

		Rate A								Rate B
		1	2	3	4	5	6	7	8	9
		355 A	400 A	450 A	500 A	560 A	630 A	710 A	800 A	Any
		£	£	£	£	£	£	£	£	£
	<i>Each</i>									
	fixing centres:									
	111 mm									
520	general purpose . . .	34.46	36.54	-	-	-	-	-	-	15.95
	fixing centres:									
	133 and 184 mm									
521	general purpose . . .	34.46	36.54	56.11	59.89	62.38	62.66	-	-	15.95
522	motor protection . . .	-	-	56.14	56.99	59.37	65.86	122.98	144.66	18.22
	fixing centres:									
	165 and 229 mm									
523	general purpose . . .	-	-	70.78	79.66	84.46	94.70	140.29	157.34	15.95

		Rate A					Rate B
		1	2	3	4	5	6
		not					
		exceeding					Any
		10 A	16 A	20 A	25 A	32 A	Type
	<i>Each</i>	£	£	£	£	£	£

Fuselink: 415 V AC: HRC:

blade pattern: offset contacts

14 mm diameter: 60 mm long

524	general purpose	2.05	2.16	2.45	2.93	2.93	2.64
525	motor protection	-	-	-	3.50	3.50	3.04

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CARTRIDGE FUSELINKS: INDUSTRIAL AND COMMERCIAL - *continued*

Item		Rate A								Rate B
		1	2	3	4	5	6	7	8	9
		not exceeding								Any Type
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	
Y71	<i>Each</i>	£	£	£	£	£	£	£	£	£
	Fuselink: HRC: blade pattern: offset contacts									
526	240 V AC	1.96	1.96	2.21	2.21	2.21	-	-	-	2.64
	415 V AC									
527	17 mm diameter: 68 mm long: general purpose	-	3.51	3.51	4.19	4.19	5.07	5.42	6.16	5.32
528	17.5 mm diameter: 58 mm long: motor protection	-	-	-	-	-	5.59	5.98	6.77	5.32

Rate A								Rate B
1	2	3	4	5	6	7	8	
not exceeding								Any Type
125 A	160 to 200 A	250 to 315 A	355 to 400 A	450 A	500 A	560 to 630 A		
£	£	£	£	£	£	£	£	£

	<i>Each</i>									
	Fuselink: 415 V AC: for use in feeder pillars:									
	contacts: fixing centres:									
529	76 mm	21.36	21.36	25.66	-	-	-	-	-	7.90
530	82 mm	23.74	23.74	28.51	41.12	-	-	-	-	7.90
531	92 mm	32.58	34.17	35.14	38.81	49.58	51.83	57.63		7.90
532	ferrule cap	17.03	20.19	23.12	-	-	-	-	-	7.90

FUSE CARRIERS AND BASES

								Rate A	Rate B
								1	2
								£	£
	<i>Each</i>								
	Fuse carrier: for use in fused consumer units:								
533	for rewirable fuse link: 5 to 30 A: contact shield							4.50	2.64
	for cartridge fuse link:								
534	5 A							4.73	2.64
535	15 and 20 A							5.10	2.64
536	30 A							5.60	2.64
537	35 to 45 A							15.99	2.64
538	Blank shield for unused ways							4.02	2.64

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

FUSE CARRIERS AND BASES - *continued*

Item		Rate A				Rate B
		1	2	3	4	5
		not exceeding				Any
		20 A	32 A	63 A	100 A	Type
Y71	<i>Each</i>	£	£	£	£	£
	Fuse base for cable or bus bar connection					
539	busbar connection one end: cable termination other end	3.90	4.81	10.55	17.53	7.59
540	cable connection both ends	3.90	4.76	11.62	18.74	11.39
	Fuse carrier:					
541	for rewirable fuse link	2.63	3.84	8.27	11.94	3.80
542	for cartridge fuse link	6.06	8.84	14.91	35.61	3.80

FUSE UNITS

		Rate A						Rate B
		1	2	3	4	5	6	7
		not exceeding						Any
		20 A	32 A	63 A	100 A	200 A	315 A	Type
	<i>Each</i>	£	£	£	£	£	£	£
	Fuse unit: carrier and base:							
	bolt-in							
543	front and busbar connected . . .	10.38	14.38	19.49	41.49	130.60	-	15.95
544	compact	-	7.69	10.44	24.84	64.90	163.08	15.95
545	front connected	10.99	15.82	19.15	42.88	140.59	-	15.95
546	compact	-	8.62	10.43	23.90	67.17	174.39	15.95
547	back connected	14.32	17.54	24.17	57.04	168.81	-	15.95
548	compact	-	8.42	11.59	30.97	82.42	201.64	15.95
549	front and back connected	12.81	15.96	22.42	50.76	159.92	-	15.95
550	compact	-	8.04	10.02	29.44	79.45	199.72	15.95
	clip-in							
551	front connected	-	6.52	11.48	-	-	-	14.43
552	back connected	-	8.21	14.47	-	-	-	14.43
553	front and back connected	-	7.31	12.27	-	-	-	14.43

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

HOUSE SERVICE CUT-OUT

Item		Rate A		Rate B
		1	2	3
		not exceeding 60 A		Any Type
		£	£	£

Insulated house service cut-out: cartridge fuses: dry protection chamber:

554	single-pole and neutral:	40.00	38.37	27.33
555	three-pole and neutral:	98.01	99.15	34.93

Rate A			Rate B
1	2	3	4
not exceeding 50 A			Any Type
£	£	£	£

Each

Fuselink: 415 V AC: HRC: for use in house service cut-out

556	22 mm diameter: 57 mm long	3.98	8.49	9.14	5.32
557	30 mm diameter: 57 mm long	5.49	5.49	5.49	6.07

STREETLIGHTING CUT-OUTS

Each

Rate A				Rate B	
1	2	3	4	5	6
Live, neutral and separate earth		Live and combined Neutral / Earth			
Single Pole	Double Pole	Single Pole	Double Pole	Single Pole	Double Pole
£	£	£	£	£	£

Cut-out:

phenolic: for use with PVC insulated and/or sheathed armoured cable: fuseways with PVC grommets:

558	one fuseway	26.46	29.62	26.75	-	21.50	22.78
559	two fuseways	-	33.47	29.96	-	21.50	22.78
	with steel wire armour gland ferrule plate						
560	one fuseway	28.56	31.75	-	-	21.50	22.78
561	two fuseways	-	35.57	-	-	-	22.78
562	single MCB	55.88	-	58.47	-	21.50	-

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

STREETLIGHTING CUT-OUTS - *continued*

Item		Rate A	Rate B
		1	2
Y71	<i>Each</i>	£	£
	Cut-out:		
	accessories		
	spare fuse carrier: single pole		
563	one fuse	6.28	2.73
564	two fuse	8.08	3.04
	spare fuse carrier: double pole		
565	one fuse	7.04	2.73
566	two fuse	7.92	3.04
567	converting standard cut-out to steel wire armour incomer	4.20	3.04
568	tapped plate for two compression glands	11.75	5.07
	unused way		
569	p.v.c. cap	1.16	1.52
570	M20 plug	1.52	2.28
	extension box		
571	without terminals	14.26	6.07
572	with two main incoming looping terminals	17.13	7.29
573	with four terminals: two main incoming looping: two ongoing	22.81	9.72
574	with four lug-type terminals	22.34	9.11
	accessories to extension box		
575	auxiliary terminal	3.67	3.04
576	alternative gland plate	6.51	4.56
577	blanking plug for gland plate: 20 or 25 mm	0.93	0.61
	extra for:		
578	integral armour bonding clamp: worm drive clips	15.67	2.69
579	three phases loop-in, loop-out adaptor: 2 phase out	15.67	4.04
580	three phase loop-in, loop-out adaptor: 3 phase out	32.10	5.39
	glass reinforced plastics: for use with PVC insulated and/or sheathed cable: to accommodate tag type fuses: for two incoming 6 mm or one incoming 16 mm SNE or CNE cables:		
581	one fuseway: live, neutral and separate earth	19.44	21.50
582	one fuseway: live and combined neutral / earth	19.77	21.50
583	extra for armour bonding clamp: ferrules: lead strips	10.81	5.39
584	Non-corrodible metal plate: 40 x 20 mm: stamped with column number: riveted to door of base chamber with two 3mm rivets	2.34	5.39

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

BUSBAR CHAMBERS TO BS EN 61439 - 2

Item		Rate A					
		1	2	3	4	5	6
		100 A	200 A	315 A	400 A	630 A	800 A
Y71	<i>Each</i>	£	£	£	£	£	£
	Busbar chamber: 415/440 V: four-pole: stove enamel metal enclosure: wall mounted: IP31:						
585	550 mm long	223.35	343.63	392.56	441.43	772.53	1373.24
586	900 mm long	337.04	495.63	539.25	584.19	864.40	1440.64
587	1350 mm long	473.15	676.71	749.39	796.99	1237.49	2018.25
588	1800 mm long	609.29	859.11	950.29	1009.77	1469.72	2492.74
589	busbar extension set: complete with copper links, clamps and fasteners	72.95	72.95	86.77	86.77	131.00	131.00
		Rate B					
		1	2	3	4	5	6
		100 A	200 A	315 A	400 A	630 A	800 A
	<i>Each</i>	£	£	£	£	£	£
	Busbar chamber - <i>continued</i>						
590	550 mm long	63.78	75.93	80.48	85.04	104.78	139.71
591	900 mm long	83.52	97.19	101.74	106.30	126.04	160.97
592	1350 mm long	103.26	118.45	124.52	130.60	160.97	205.01
593	1800 mm long	136.67	154.89	160.97	167.04	197.41	255.12
594	busbar extension set <i>continued</i>	18.22	18.22	18.22	18.22	18.22	18.22
		Rate A			Rate B		
		1	2	3	4	5	6
		Chamber length			Chamber length		
		900 mm	1350 mm	1800 mm	900 mm	1350 mm	1800 mm
	<i>Each</i>	£	£	£	£	£	£
595	Pedestal and backplate set for floor mounting: stove enamel steel: drilling and bolting to floor . . .	325.84	400.52	426.15	75.93	78.97	82.00
		Rate A					Rate B
		1	2	3	4	5	6
		20 & 32 A	63 & 100 A	160 & 200 A	315 & 400 A	630 & 800 A	Any
	<i>Each</i>	£	£	£	£	£	£
	Switchgear mounting set: for mounting to busbar chamber:						
596	switch or switch-fuse	31.97	36.38	-	-	-	13.67
597	fuse-switch	-	39.92	42.71	46.96	55.15	13.67
598	Connection set for fuse-switch: insulated solid copper links: four-pole set: clamps and fasteners	-	-	73.52	123.23	253.50	7.59

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

BUSBAR CHAMBERS TO BS EN 61439 - 2 - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		Cable size:						Any Type
		up to 25 mm	25 to 70 mm	70 to 120 mm	up to 150 mm	150 to 185 mm	185 to 240 mm	
Y71	Each	£	£	£	£	£	£	£
599	Busbar 'U' clamp	3.07	3.80	5.23	-	-	-	7.59
600	Busbar socket	-	-	-	15.31	21.12	25.37	13.67

DISTRIBUTION BOARDS TO BS EN 61439 - 3

Method of Measurement

Measure miniature circuit-breakers, fuse carriers, fuse links and blanking plates separately.

		Rate A					Rate B	
		1	2	3	4	5	6	7
		With:					Without main switch	With switch or RCD
		Without main switch	100 A main switch	63 A RCD	switch and meter pulsed	switch and meter modbus		
	Each	£	£	£	£	£	£	£
Miniature circuit-breaker distribution board: protected steel enclosure: single pole and neutral: IP30								
standard								
601	2-way	39.04	-	-	-	-	33.41	-
602	4-way	43.23	60.10	121.44	-	-	36.45	41.00
603	6-way	53.37	66.05	140.02	-	-	42.52	48.59
604	8-way	59.37	79.91	134.50	218.22	248.66	53.15	59.22
605	12-way	68.28	87.13	137.21	223.29	263.87	68.34	74.41
606	16-way	83.84	103.65	144.07	-	-	75.93	82.00
607	20-way	123.42	181.20	-	-	-	83.52	89.60
608	24-way	148.76	218.41	-	-	-	91.11	97.19
split load: 100 A switches:								
63 A 30 mA RCCBs								
609	10-way	-	186.68	-	-	-	-	104.78
610	13-way	-	200.60	-	268.96	319.71	-	112.37
611	19-way	-	327.61	-	-	-	-	119.97
dual tariff: 2 x 100 A switches								
612	11-way	-	119.78	-	-	-	-	121.49
613	14-way	-	164.21	-	-	-	-	129.08

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

DISTRIBUTION BOARDS TO BS EN 61439 - 3 - *continued*

		Rate A	Rate B
Item		1	2
Y71	Each	£	£
Incoming device:			
614	100 A direct connection	11.21	7.59
	100 A switch-disconnector		
615	single pole and switched neutral	13.26	9.11
616	double pole	18.55	10.63
	125 A switch-disconnector		
617	double pole	21.22	12.15

Rate A						
1	2	3	4	5		
Two-pole				Four pole		
Incomer						
40 A	63 A	80 A	100 A	100 A		
£	£	£	£	£		
618	30 mA RCCB	65.53	78.63	84.40	108.78	139.57
619	100 mA RCCB	68.18	82.68	113.31	108.78	139.39
620	300 mA RCCB	-	82.68	84.40	108.78	132.02
	time delayed RCCB					
621	100 mA	-	-	101.07	140.73	-
622	300 mA	-	-	-	135.11	261.77

Rate B					
1	2	3	4		
Any type					
Incomer					
40 A	63 A	80 A	100 A		
£	£	£	£		
623	30 mA RCCB	22.78	25.82	28.85	31.89
624	100 mA RCCB	23.54	26.58	29.61	32.65
625	300 mA RCCB	-	27.33	30.37	33.41
	time delayed RCCB				
626	100 mA	-	-	31.13	34.17
627	300 mA	-	-	-	35.32

		Rate A	Rate B
		1	2
	Each	£	£
628	Meter package: pulsed output: kWh	177.61	30.37

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

DISTRIBUTION BOARDS TO BS EN 61439 - 3 - continued

Item	Each	Rate A					Rate B	
		1	2	3	4	5	6	7
		100 or 125 A			200 or 250 A		Without main switch	With switch
		Without main switch	With main switch	With fuse combination switch	Without main switch	With main switch		
		£	£	£	£	£		
Miniature circuit-breaker distribution board: rust protected steel: enclosure: triple-pole and neutral: IP30 standard								
629	4-way	118.84	170.81	750.67	136.94	375.29	53.15	59.22
630	6-way	134.77	186.74	770.72	161.55	399.90	63.78	69.85
631	8-way	155.50	207.47	797.36	177.21	415.56	74.41	80.48
632	12-way	185.56	237.53	836.69	203.89	442.23	85.04	91.11
633	16-way	260.14	312.11	929.56	289.40	527.75	100.23	106.30
634	20-way	371.63	423.60	-	371.63	609.98	115.41	121.49
635	24-way	449.20	501.17	-	449.20	687.55	136.67	142.75
split load: not exceeding 8-way: 80 A 30 mA RCCB protected								
636	12-way	-	606.88	-	-	-	-	173.12
637	16-way	-	636.57	-	-	-	-	203.49
						Rate A		Rate B
						1		2
						3		
						200 or 250 A		
						pulsed output		Modbus version
						Any type		
Each						£		£
integrated split meter for power/lighting								
638	10-way					1824.06	2104.70	91.11
639	14-way					1941.00	2128.09	106.30
640	18-way					2081.31	2315.16	121.49
641	24-way					2198.23	2385.32	142.75

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

DISTRIBUTION BOARDS TO BS EN 61439 - 3 - continued

Item		Rate A				Rate B	
		1	2	3	4	5	6
		100 or 125 A		200 or 250 A			
		Direct Connection	Switch Dis-connector	Direct Connection	Switch Dis-connector	Direct Connection	Switch Dis-connector
		£	£	£	£	£	£

Y71 *Each*
 Miniature circuit-breaker distribution board: rust protected steel:enclosure: triple pole and neutral: IP30 - *continued*

Incoming device:

642	single pole and switched neutral	-	44.53	-	-	-	37.96
643	triple pole	14.74	51.97	30.04	238.35	18.98	45.56
644	triple pole and switched neutral	35.60	67.85	40.21	301.52	22.78	53.15

	<i>Each</i>	Rate A			Rate B		
		1	2	3	4	5	6
		Incomer			Any type		
		40 A	63 A	100 A	40 A	63 A	100 A
		£	£	£	£	£	£

645	30 mA RCCB	71.94	98.31	143.89	22.78	25.82	31.89
646	100 mA RCCB	66.92	75.76	138.89	23.54	26.58	32.65
647	300 mA RCCB	-	83.79	146.99	-	27.33	33.41

time delayed RCCB

648	100 mA	-	-	281.88	-	-	34.17
649	300 mA	-	128.07	252.74	-	29.25	35.32

	<i>Each</i>	Rate A				Rate B	
		1	2	3	4	5	6
		100 or 125 A		200 or 250 A			
		Meterpack	Double Meterpack	Meterpack	Double Meterpack	Meterpack	Double Meterpack
		£	£	£	£	£	£

Meter package

650	pulsed output: kWh	-	1306.23	576.70	1367.12	60.74	91.11
651	Modbus: pulsed output: kWh . . .	-	1542.69	628.25	1438.16	63.78	97.19
652	Ofgem approved	514.72	-	-	-	66.82	-
653	MID certified	-	-	657.68	-	69.85	-

Rate A	Rate B
1	2
£	£

Each

Transient voltage surge suppressor: steel enclosure: IP23

654	single pole and neutral distribution board	363.20	60.74
655	triple pole and neutral distribution board	686.43	75.93

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

DISTRIBUTION BOARDS TO BS EN 61439 - 3 - continued

Item		Rate A			Rate B		
		1	2	3	4	5	6
		20 A	32 A	63 A	20 A	32 A	63 A
Y71	Each	£	£	£	£	£	£
Distribution fuseboard: 415 V AC: stove enamel: metal enclosure: IP31:							
single pole and neutral:							
656	2-way	-	-	275.61	-	-	57.71
657	3-way	-	-	328.15	-	-	63.78
658	4-way	139.95	157.34	364.95	42.52	45.56	71.37
659	6-way	168.94	221.60	387.91	47.08	50.11	78.97
660	8-way	181.76	232.52	416.07	56.19	59.22	89.60
661	10-way	227.41	277.10	478.01	63.78	66.82	100.23
662	12-way	256.29	313.07	-	74.41	77.45	-
two pole:							
663	4-way	169.87	208.78	-	55.28	59.22	-
664	6-way	219.56	287.37	-	61.20	65.15	-
665	8-way	229.55	349.05	-	73.04	76.99	-
666	10-way	273.33	389.79	-	82.91	86.86	-
667	12-way	307.85	437.20	-	96.73	100.68	-

Rate A				
1	2	3	4	5
20 A	32 A	63 A	100 A	200 A
£	£	£	£	£

<i>Each</i>		£	£	£	£	£
three-pole and neutral						
668	2-way	-	178.61	437.80	649.62	1726.39
669	3-way	-	241.33	578.07	805.75	2098.04
670	4-way	250.85	286.01	635.60	990.58	2498.84
671	6-way	317.28	401.82	779.66	1215.92	3302.72
672	8-way	364.64	507.02	914.38	1612.39	-
673	10-way	472.89	589.50	1158.00	-	-
674	12-way	526.26	677.82	-	-	-

Rate B				
1	2	3	4	5
20 A	32 A	63 A	100 A	200 A
£	£	£	£	£

<i>Each</i>		£	£	£	£	£
three-pole and neutral						
675	2-way	-	53.15	59.22	75.93	94.15
676	3-way	-	56.19	67.58	83.52	101.74
677	4-way	53.15	59.22	75.93	92.63	106.30
678	6-way	63.78	69.85	85.04	100.23	115.41
679	8-way	74.41	80.48	92.63	106.30	-
680	10-way	88.08	92.63	100.23	-	-
681	12-way	100.23	106.30	-	-	-

682 to 700 Not used

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CONSUMER UNITS

Specification

Standard:

Comply with BS EN 61439-3: Low-voltage switchgear and controlgear assemblies. Distribution boards intended to be operated by ordinary persons (DBO).

Method of Measurement

Measure miniature circuit-breakers, fuse carriers, fuse links and blanking plates separately.

Item
Y71

Each

Consumer unit: IP30: insulated enclosure: for miniature circuit-breakers or fuse links:

two-pole main switch:

Item		Rate A		Rate B	
		1	2	3	4
		63 A	100 A	63 A	100 A
		£	£	£	£
701	1-way	14.59	-	31.89	-
702	2-way	20.81	17.53	34.93	45.56
703	3-way	21.61	17.53	37.96	48.59
704	4-way	22.44	22.65	42.52	53.15
705	6-way	25.57	28.38	48.59	60.74
706	8-way	-	31.62	-	66.82
707	10-way	-	35.27	-	75.93
708	12-way	-	36.42	-	88.08
709	14-way	-	39.97	-	103.26
710	16-way	-	43.58	-	121.49
711	19-way	-	48.02	-	139.71

Each

residual current operated circuit-breaker

Item		Rate A				Rate B	
		1	2	3	4	5	6
		Trip current 30 mA		Trip current 100 mA			
		63 A	100 A	63 A	100 A	63 A	100 A
		£	£	£	£	£	£
712	1-way	63.96	-	-	-	30.37	-
713	2-way	67.05	75.31	-	75.31	33.41	36.45
714	3-way	67.05	75.31	-	75.31	36.45	39.48
715	4-way	67.57	72.73	-	77.88	39.48	42.52
716	6-way	73.04	78.20	-	81.39	48.59	51.63
717	8-way	79.02	84.19	-	83.18	53.15	56.19
718	12-way	105.98	107.23	-	107.23	57.71	60.74
719	14-way	-	109.97	-	111.03	-	66.82
720	16-way	-	114.95	-	114.95	-	72.89
721	19-way	-	119.92	-	119.92	-	78.97

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

CONSUMER UNITS - *continued*

Item		Rate A		Rate B	
		1	2	3	4
		63 A	100 A	63 A	100 A
Y71	<i>Each</i>	£	£	£	£
Consumer unit: IP30: insulated enclosure - <i>continued</i>					
split load: two-pole main switch and residual current operated circuit-breaker:					
30 mA trip current :					
722	6-way	93.93	103.33	53.15	56.19
723	8-way	96.23	108.32	57.71	60.74
724	10-way	98.86	119.04	62.26	65.30
725	12-way	101.48	123.59	66.82	69.85
726	14-way	109.62	133.50	72.89	75.93
727	17-way	119.06	145.01	78.97	82.00
100 mA trip current :					
728	6-way	-	155.24	-	56.19
729	8-way	-	80.33	-	60.74
730	10-way	-	115.20	-	65.30
731	12-way	-	117.67	-	69.85
100 mA trip current : time delay					
732	10-way	178.58	215.02	62.26	65.30
733	12-way	181.21	220.69	66.82	69.85
dual tariff:					
two-pole main switch:					
734	10-way	-	72.26	-	75.93
735	12-way	-	75.37	-	88.08
736	14-way	-	80.76	-	103.26
737	16-way	-	89.31	-	121.49
738	18-way	-	98.76	-	139.71
residual current operated circuit-breaker:					
100mA trip current					
739	6-way	-	183.24	-	51.63
740	8-way	-	183.77	-	56.19
741	12-way	-	190.22	-	66.82
742	16-way	-	196.67	-	72.89

Rate A			Rate B		
1	2	3	4	5	6
32 A	40 A	63 A	32 A	40 A	63 A
£	£	£	£	£	£

Each

Consumer unit: garage/shed or shower:
insulated enclosure:

743	garage or shed: IP55	35.09	45.76	56.43	45.56	48.59	51.63
744	shower: IP40	-	38.34	47.27	-	39.48	42.52

745 Metalclad enclosed consumer units: pay for at the foregoing A rates *multiplied by 1.30*.

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MINIATURE CIRCUIT-BREAKERS

Specification

Standard:

Comply with BS EN 60898-1: Electrical accessories. Circuit breakers for overcurrent protection for household and similar installations. Circuit-breakers for a.c. operation.

Item		Rate A				Rate B
		1	2	3	4	5
		6 A	32 A	50 A	63 A	Any type
Y71	Each	£	£	£	£	£
Miniature circuit-breaker:						
240 V AC:						
single pole: short-circuit breaking capacity:						
746	6 kA	9.24	8.55	9.61	10.42	5.47
747	10 kA	10.22	9.76	10.64	11.63	6.07
748	15 kA	14.91	14.10	15.25	16.53	6.68
single pole and switched neutral: short-circuit breaking capacity:						
749	6 kA	27.18	25.06	28.24	30.16	6.99
750	10 kA	29.20	27.78	30.32	32.39	7.59
415 V AC:						
two pole: short-circuit breaking capacity:						
751	6 kA	27.18	25.06	28.24	30.65	8.20
752	10 kA	29.20	27.78	30.32	32.39	8.81
753	15 kA	42.12	40.09	43.81	46.77	9.42
three pole: short-circuit breaking capacity:						
754	6 kA	40.27	37.17	41.89	45.39	8.50
755	10 kA	43.22	41.42	44.94	48.08	9.11
756	15 kA	62.33	59.42	64.71	69.27	9.72
four pole: short-circuit breaking capacity:						
757	6 kA	63.44	57.94	65.95	69.41	8.81
758	10 kA	68.05	64.09	70.75	75.55	9.42

RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS

Specification

Standard:

Comply with BS EN 61008-1: Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs). General rules.

RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS - *continued*

COMBINED RESIDUAL CURRENT/OVER CURRENT OPERATED CIRCUIT BREAKERS:

771	single pole	67.84	70.40	78.08	42.52
772	single pole and switched neutral	69.12	71.68	79.36	42.52

ENCLOSURES FOR MINIATURE CIRCUIT BREAKERS, RESIDUAL CURRENT DEVICES AND COMBINED UNITS

291

Y71 LV SWITCHGEAR AND DISTRIBUTION BOARDS

MISCELLANEOUS ENCLOSURES

Specification

Steel enclosure: 1.5mm thick sheet steel for body and door: polyester based powder paint finish.

Moulded enclosure: glass reinforced polyester.

Rates for the following include

For one or two locks: key

For wall fixing brackets

For plain or perforated mounting plate

For gland plate

Item
Y71

Each

Rate A				Rate B
1	2	3	4	5
Steel		Moulded		Any
Plain door	Glazed door	Plain door	Glazed door	type
£	£	£	£	£

Wall mounted enclosure:

single door:

791	250 x 300 x 150 mm	61.99	91.20	79.84	121.84	16.40
792	300 x 300 x 200 mm	68.48	99.84	89.34	133.50	16.55
793	300 x 400 x 200 mm	74.24	107.52	97.78	143.86	16.70
794	300 x 500 x 200 mm	80.00	115.20	106.24	154.23	16.86
795	400 x 400 x 200 mm	81.92	117.76	109.05	157.69	17.16
796	400 x 500 x 200 mm	89.60	128.00	120.32	171.51	17.46
797	400 x 500 x 250 mm	99.20	140.79	134.39	188.79	17.77
798	400 x 600 x 200 mm	97.28	138.23	131.58	185.34	18.22
799	500 x 500 x 250 mm	111.20	156.79	152.00	210.39	20.50
800	600 x 600 x 250 mm	137.59	191.99	190.71	257.91	22.78
801	600 x 600 x 300 mm	154.87	215.03	216.06	289.02	24.30
802	600 x 800 x 250 mm	166.39	230.39	232.95	309.75	27.33
803	600 x 800 x 300 mm	189.43	261.11	266.74	351.21	28.09
804	600 x 1000 x 300 mm	223.99	307.19	317.43	413.42	30.37
805	800 x 800 x 300 mm	235.51	322.55	334.32	434.16	32.65
806	800 x 1000 x 300 mm	281.59	383.99	401.90	517.10	34.17

double door:

807	1000 x 1000 x 300 mm	339.19	460.78	486.38	620.78	36.45
808	1000 x 1200 x 300 mm	396.78	537.58	570.86	724.45	37.96
809	1000 x 1400 x 300 mm	454.38	614.38	655.33	828.13	39.48
810	1200 x 1200 x 400 mm	604.14	814.05	874.98	1097.69	39.48

Each

Rate A	Rate B
1	2
£	£

Accessories:

811	replacement lock and key	30.28	30.37
-----	------------------------------------	-------	-------

Y72: Contactors and starters

GENERALLY

Specification

Standard:

Comply with:

BS EN 60947-4-1: Low-voltage switchgear and controlgear. Contactors and motor-starters. Electromechanical contactors and motor-starters.

BS EN 60947-5: Low-voltage switchgear and controlgear. Control circuit devices and switching elements.

BS EN 61095: Electromechanical contactors for household and similar purposes.

Coding principles:

Actuator colours for panel mounting type push buttons to comply with BS EN 60073.

Installation:

Install control panels, motor control centres, contactors and starters in accordance with BS EN 60947 and manufacturer's recommendations.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Method of Measurement

Measure cable glands, shrouds, etc separately:

Rates for the following include

Generally:

For connections to conduit.

For connecting cables.

Y72 LV CONTACTORS AND STARTERS

CONTACTORS TO BS EN 60947-4-1

Specification

Contactors:

Air-break type with integral rectifiers for DC operating coils and with control-circuit fuses.

Item
Y72

Each

Rate A		Rate B
1	2	3
Stove enamel finish: IP 42	Weather-proof finish: IP 54	Any type
£	£	£

Contactor:

240 V AC: single-pole and neutral:

Utilization Category
AC1 AC3

001	45 A	20 A	58.78	82.97	45.56
002	100 A	40 A	96.33	124.44	51.63
003	160 A	125 A	497.99	577.14	60.74
004	250 A	160 A	569.83	658.29	71.37

415 V AC: three-pole and neutral:

Utilization Category
AC1 AC3

005	20 A	10 A	51.81	52.21	48.59
006	32 A	16 A	83.17	62.10	48.59
007	45 A	20 A	103.66	123.13	50.11
008	63 A	40 A	160.32	173.14	53.15
009	80 A	50 A	323.22	340.06	57.71
010	100 A	63 A	380.72	397.42	62.26
011	160 A	125 A	681.72	707.47	86.56
012	250 A	160 A	914.93	944.76	92.63
013	315 A	250 A	1215.26	1245.09	97.19
014	500 A	400 A	2138.16	2167.98	135.15
015	630 A	500 A	2476.28	2506.11	141.23
016	800 A	630 A	3397.17	3427.01	173.12
017	1000 A	800 A	4093.32	4123.14	185.27
018	1250 A	800 A	4505.03	4534.87	217.16

Y72 LV CONTACTORS AND STARTERS

CONTROL CIRCUIT DEVICES TO BS 60947-5

Item		Rate A		Rate B	
		1		2	
		£		£	
Y72	<i>Each</i>				
Position switch: cast metal enclosure: gasketed cover: IP 66:					
standard switch: double-break, four-terminal changeover contact block:					
snap or slow action:					
actuation:					
019	rounded plunger	19.61		16.70	
020	roller plunger	22.63		16.70	
021	rod lever	29.09		16.70	
022	roller lever	28.68		16.70	
023	contact block only	21.70		7.59	
positive opening (safety) switch: normally closed: double-break pole:					
electrically separate normally open double-break pole contact block:					
slow action:					
actuation:					
024	rounded plunger	35.21		16.70	
025	roller plunger	50.01		16.70	

CONTROL SELECTOR SWITCHES TO BS 60947-5

		Rate A		Rate B
		1	2	3
		IP 54	IP 65	Any type
<i>Each</i>		£	£	£
Panel mounted manual operation rotary switch				
415 V AC: four pole				
standard handle				
026	20 A	17.52	21.64	22.78
027	25 A	28.11	31.47	24.30
028	40 A	30.86	34.22	25.82
029	50 A	45.99	49.35	27.33
030	63 A	61.14	63.66	28.85
lockable handle				
031	20 A	20.06	24.79	23.54
032	25 A	30.63	34.29	25.06
033	40 A	33.63	37.29	26.58
034	50 A	50.11	53.77	28.09
035	63 A	66.59	75.72	29.61

Y72 LV CONTACTORS AND STARTERS

PUSH-BUTTON CONTROL UNITS TO BS EN 60947-5

Specification

Rating: 240/415 V AC.

Contacts: one set of Normally Open and one set of Normally Closed contacts for each push-button.

Legend plates: as ordered.

Item
Y72 *Each*

Rate A		Rate B
1	2	3
Stove enamel metal enclosure IP 40	moulded enclosure IP 65	Any type
£	£	£

Control unit: 2 A: 240 / 415 V AC:

one push-button switch:

036	'stop' or 'start'	17.24	32.29	21.26
037	'stop' (mushroom head)	27.22	42.05	21.26
038	'automatic-lock stop' or 'push and turn to lock stop' (mushroom head)	32.32	56.63	21.26

two push-button switch:

039	'stop' and 'start'	30.95	65.52	24.30
040	'stop' (mushroom head) and 'start'	33.67	76.58	24.30
041	'automatic-lock stop' (mushroom head) and 'start' or 'push and turn to lock stop' (mushroom head) and start	37.46	84.44	24.30

three push-button switch:

042	'forward', 'reverse' and 'stop'	40.23	85.19	27.33
043	'forward', 'reverse' and 'stop' (mushroom head)	43.77	99.56	27.33
044	'forward', 'reverse' and 'automatic-lock stop' or 'push and turn to lock stop' (mushroom head)	48.69	109.77	27.33

Y72 LV CONTACTORS AND STARTERS

MOTOR STARTERS TO BS EN 60947-4-1

Specification

Motor starters: rating 415 V: three-phase.

Utilization category: AC-3.

Push-buttons: integral stop / start / reset / directional push-buttons as ordered.

DIRECT-ON-LINE MOTOR STARTERS

Item		Rate A				Rate B
		1	2	3	4	5
		Without integral isolating switch:		With integral isolating switch:		Any type
		Enclosure:		Enclosure:		
		IP 54	IP 65	IP 54	IP 65	
Y72	Each	£	£	£	£	£

Starter: 415 V 3 phase: utilisation category AC-3:
surface mounted:

direct-on-line:

045	not exceeding 5.5 kW	48.41	53.25	155.77	171.34	51.63
046	5.5 to 7.5 kW	53.25	58.58	160.81	176.91	54.67
047	7.5 to 11.0 kW	61.98	68.19	166.83	183.52	60.74
048	11.0 to 22.0 kW	66.80	72.32	175.41	189.93	66.82

reversing direct-on-line:

049	not exceeding 5.5 kW	127.04	139.74	408.84	449.70	54.21
050	5.5 to 7.5 kW	139.77	153.75	422.12	464.30	57.40
051	7.5 to 11.0 kW	162.71	178.96	437.86	481.64	63.78
052	11.0 to 22.0 kW	175.33	189.83	460.42	498.49	70.16

Each

Rate A	Rate B
1	2
£	£

ADD for overload

053	not exceeding 5.5 kW	22.46	18.22
054	5.5 to 7.5 kW	25.78	19.74
055	7.5 to 11.0 kW	37.96	21.26
056	11.0 to 22.0 kW	41.67	22.78

Y72 LV CONTACTORS AND STARTERS

STAR DELTA MOTOR STARTERS

Item	Each	Rate A				Rate B
		1	2	3	4	5
		Without integral isolating switch:		With integral isolating switch:		Any type
		Enclosure:		Enclosure:		
		IP 54	IP 65	IP 54	IP 65	
Y72		£	£	£	£	£

Starter: 415 V 3 phase: utilisation category AC-3:
surface mounted:

star delta:

057	not exceeding 9.0 kW	255.13	281.60	377.05	416.16	57.40
058	9.0 to 11.0 kW	263.94	291.31	377.08	416.20	63.78
059	11.0 to 22.0 kW	461.37	509.23	572.97	632.43	70.16
060	22.0 to 25.0 kW	597.18	659.13	773.43	853.69	76.54

Each

Rate A	Rate B
1	2
£	£

ADD for overload

061	not exceeding 11.0 kW			28.61	21.26
062	11.0 to 15.0 kW			28.61	22.78
063	15.0 to 22.0 kW			42.13	24.30
064	22.0 to 25.0 kW			46.25	25.82

MOTOR STARTERS: SPARE PARTS

		Rate A		Rate B
		1	2	3
		Replacement parts:		Any type
		Contactors	Coil	
		£	£	£
	Each			
Replacement parts				
065	not exceeding 7.5 kW	31.55	31.87	21.26
066	7.5 to 11.0 kW	37.19	33.42	22.78
067	11.0 to 15.0 kW	68.42	33.42	24.30
068	15.0 to 25.0 kW	87.18	34.80	25.82

Y73: Luminaires and lamps

GENERALLY

Specification

Standard:

Comply with:

BS EN 12464-1: Light and lighting. Lighting of work places. Indoor work places.

BS EN 60598-1: Luminaires. General requirements and tests.

BS EN 60598-2-1: Luminaires. Particular requirements. Specification for fixed general purpose luminaires.

BS EN 60598-2-2: Luminaires. Particular requirements. Recessed luminaires.

BS EN 60598-2-3: Luminaires. Particular requirements. Luminaires for road and street lighting.

BS EN 60598-2-5: Luminaires. Particular requirements. Floodlights.

BS 5489-1: Code of practice for the design of road lighting. Lighting of roads and public amenity areas.

BS EN 62612: Self ballasted LED lamps for general lighting services.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.40.*

Rate E: For re-use - *multiply by 0.70.*

Method of Measurement

Generally:

Measure the following separately:

- i. Connecting cable ends and tails into existing lighting equipment or that fixed by others.
- ii. Lamps / tubes (unless otherwise stated).

Baring conductors is included elsewhere within other items.

Street lighting columns:

Measure builder's work (excavation, in-situ concrete etc) separately.

Rates for the following include

Generally:

For connecting (Rate B) and disconnecting (Rate D and E) all cable ends and tails.

Luminaires:

For supplying (Rate A) and installing (Rate B) control gear.

Street lighting columns:

For setting perpendicular.

Note

Ratings:

Unless otherwise stated, Items in this Section are to be appropriate for 240 V (nominal) AC, 50Hz.

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES

FLUORESCENT LUMINAIRES: BATTEN: TO BS EN 60598-2

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		600 mm	1200 mm	1500 mm	1800 mm	2400 mm	600 mm	1200 mm	1500 mm	1800 mm	2400 mm
		18 W	36 W	58 W	70 W	100 W	18 W	36 W	58 W	70 W	100 W
Y73	Each	£	£	£	£	£	£	£	£	£	£
	Batten fluorescent luminaire: type T8										
	switch start:										
001	single	20.31	21.71	23.10	27.83	42.42	20.50	21.26	22.78	25.82	28.85
002	twin	33.30	30.05	32.25	40.99	60.33	22.02	22.78	24.30	27.33	31.89
	high frequency:										
003	single	-	37.15	38.23	46.59	-	-	21.26	22.78	25.82	-
004	twin	-	50.16	45.04	61.76	-	-	22.78	24.30	27.33	-
	digital serial interface:										
005	single	-	98.76	99.88	-	-	-	21.26	22.78	-	-
006	twin	-	103.53	104.53	-	-	-	22.78	24.30	-	-
	ADD for										
	reflector: metal:										
007	dispersive										
	type	-	12.30	13.20	15.21	17.42	-	4.25	4.56	4.86	5.47
008	angle type . . .	-	22.41	25.09	28.36	35.63	-	4.25	4.56	4.86	5.47
	opal diffuser										
009	single	7.55	10.25	12.38	14.48	19.94	2.73	3.04	3.34	3.64	4.25
010	twin	10.29	13.75	16.17	19.08	25.61	2.73	3.04	3.34	3.64	4.25
	prismatic controller										
011	single	7.55	10.06	12.04	13.39	19.94	2.89	3.19	3.49	3.80	4.40
012	twin	9.37	14.74	16.08	18.79	0.00	2.89	3.19	3.49	3.80	4.40
	wire guard										
	galvanised										
013	single	37.15	44.35	52.39	59.06	62.15	3.95	4.25	4.56	4.86	5.47
014	twin	42.52	44.58	45.34	50.76	65.70	4.10	4.40	4.71	5.01	5.62
	plastic coated										
015	single	43.48	50.08	51.20	57.19	-	3.95	4.25	4.56	4.86	-
016	twin	49.76	52.18	53.07	59.42	-	4.10	4.40	4.71	5.01	-

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES: BATTEN: TO BS EN 60598-2 - continued

Item		Rate A					Rate B				
		1	2	3	4	5	6	7	8	9	10
		600 mm	1200 mm	1200 mm	1500 mm	1500 mm	600 mm	1200 mm	1200 mm	1500 mm	1500 mm
		24 W	28 W	54 W	35 W	49 W	24 W	28 W	54 W	35 W	49 W
Y73	Each	£	£	£	£	£	£	£	£	£	£
	Batten fluorescent luminaire: type T5										
	high frequency:										
017	single	41.33	51.31	-	51.31	51.31	20.50	21.26	-	22.78	22.78
018	twin	47.85	62.19	-	62.19	62.19	22.02	22.78	-	24.30	24.30
	digital serial interface:										
019	single	60.94	-	112.72	-	112.72	21.26	-	22.02	-	23.54
020	twin	68.26	-	129.56	-	129.56	22.78	-	23.54	-	25.06
	ADD for										
	reflector: metal:										
021	dispersive										
	type	-	12.30	12.30	13.20	13.20	-	4.25	4.25	4.56	4.56
022	angle type . . .	-	22.41	22.41	25.09	25.09	-	4.25	4.25	4.56	4.56
	opal diffuser										
023	single	7.55	10.25	10.25	12.38	12.38	2.73	3.04	3.04	3.34	3.34
024	twin	10.29	13.75	13.75	16.17	16.17	2.73	3.04	3.04	3.34	3.34
	prismatic controller										
025	single	7.55	10.06	10.06	12.04	12.04	2.89	3.19	3.19	3.49	3.49
026	twin	9.37	14.74	14.74	16.08	16.08	2.89	3.19	3.19	3.49	3.49
	wire guard										
	galvanised										
027	single	37.15	44.35	44.35	52.39	52.39	3.95	4.25	4.25	4.56	4.56
028	twin	42.52	44.58	44.58	45.34	45.34	4.10	4.40	4.40	4.71	4.71
	plastic coated										
029	single	43.48	50.08	50.08	51.20	51.20	3.95	4.25	4.25	4.56	4.56
030	twin	49.76	52.18	52.18	53.07	53.07	4.10	4.40	4.40	4.71	4.71

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES: SURFACE: TO BS EN 60598-2

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 mm	1200 mm	1500 mm	1800 mm	600 mm	1200 mm	1500 mm	1800 mm
		18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
Y73	Each	£	£	£	£	£	£	£	£
	Surface fluorescent luminaire:								
	type T8								
	switch start								
	single lamp								
031	1000cd/m ² at 65° louvres	-	80.35	82.34	96.42	-	21.26	22.78	25.82
032	general pupose louvres	-	77.32	78.45	96.50	-	21.26	22.78	25.82
	double lamp								
033	1000cd/m ² at 65° louvres	-	81.40	82.86	107.52	-	22.78	24.30	27.33
034	general pupose louvres	-	81.40	82.86	96.50	-	22.78	24.30	27.33
	four lamps								
035	1000cd/m ² at 65° louvres	106.71	156.96	-	-	22.78	24.30	-	-
036	general pupose louvres	100.68	150.94	-	-	22.78	24.30	-	-
	high frequency								
	single lamp								
037	1000cd/m ² at 65° louvres	-	96.56	97.41	111.52	-	21.26	22.78	25.82
038	general pupose louvres	-	94.70	96.47	108.87	-	21.26	22.78	25.82
	double lamp								
039	1000cd/m ² at 65° louvres	-	111.02	117.20	134.91	-	22.78	24.30	27.33
040	general pupose louvres	-	106.57	112.78	130.51	-	22.78	24.30	27.33
	four lamps								
041	1000cd/m ² at 65° louvres	125.89	170.19	-	-	22.78	24.30	-	-
042	general pupose louvres	120.61	164.88	-	-	22.78	24.30	-	-
	digital serial interface								
	single lamp								
043	1000cd/m ² at 65° louvres	-	193.03	194.79	-	-	21.26	22.78	-
044	general pupose louvres	-	190.37	192.14	-	-	21.26	22.78	-
	double lamp								
045	1000cd/m ² at 65° louvres	-	206.69	212.87	-	-	22.78	24.30	-
046	general pupose louvres	-	202.23	208.45	-	-	22.78	24.30	-
	four lamps								
047	1000cd/m ² at 65° louvres	221.56	265.86	-	-	22.78	24.30	-	-
048	general pupose louvres	216.28	260.54	-	-	22.78	24.30	-	-

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES: SURFACE: TO BS EN 60598-2 - continued

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		1200 mm	1200 mm	1500 mm	1500 mm	1200 mm	1200 mm	1500 mm	1500 mm
		28 W	54 W	35 W	49 W	28 W	54 W	35 W	49 W
Y73	<i>Each</i>	£	£	£	£	£	£	£	£
	Surface fluorescent luminaire:								
	type T5								
	high frequency								
	single lamp								
049	1000cd/m ² at 65° louvres	103.08	115.05	108.54	109.60	21.26	21.26	22.78	22.78
	double lamp								
050	1000cd/m ² at 65° louvres	112.33	121.58	117.77	116.14	22.78	22.78	24.30	24.30
	digital serial interface								
	single lamp								
051	1000cd/m ² at 65° louvres	156.12	158.97	165.58	168.41	22.78	22.78	24.30	24.30
	double lamp								
052	1000cd/m ² at 65° louvres	158.69	161.47	167.96	166.16	22.78	22.78	24.30	24.30

Y73 LUMINAIRES AND LAMPS

RECESSED LUMINAIRES TO BS 60598-2-2

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 x 600 mm		1200 x 600 mm		In ceiling grid		Rod suspended	
		Lamps				600 x	1200 x	600 x	1200 x
		3 x 18W	4 x 18W	3 x 36W	4 x 36W	600 mm	600 mm	600 mm	600 mm
Y73	<i>Each</i>	£	£	£	£	£	£	£	
	Recessed modular fluorescent luminaire: body: type T8								
053	switch start	32.16	29.02	49.59	50.17	37.05	44.34	50.72	58.01
054	high frequency	34.22	33.03	58.38	60.81	37.05	44.34	50.72	58.01
055	digital serial interface	144.78	141.64	174.35	179.30	37.05	44.34	50.72	58.01

		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 x 600 mm		1200 x 600 mm		In ceiling grid		Rod suspended	
		Lamps				600 x	1200 x	600 x	1200 x
		3 x 14W	4 x 14W	3 x 28W	4 x 28W	600 mm	600 mm	600 mm	600 mm
Each		£	£	£	£	£	£	£	£
Recessed modular fluorescent luminaire: body: type T5									
056	high frequency	37.42	39.58	55.75	59.72	37.05	44.34	50.72	58.01
057	digital serial interface	79.04	81.17	98.11	102.90	37.05	44.34	50.72	58.01
ADD to Y73.053 - 057 for prismatic diffuser									
058	styrene	3.63	3.63	7.18	7.18	9.42	12.45	9.42	12.45
059	flame retardant	13.38	13.38	26.72	26.72	9.42	12.45	9.42	12.45
060	1000cd/m² at 65° louvres	17.18	17.88	36.31	28.88	9.42	12.45	9.42	12.45
061	general pupose louvres	16.14	16.10	27.89	28.67	9.42	12.45	9.42	12.45

		<u>Rate A</u>
		<u>1</u>
<i>Each</i>		<u>£</u>
Suspension: set of four:		
062	side arms	15.84
063	threaded rods not exceeding 500 mm long	13.31

Y73 LUMINAIRES AND LAMPS

SUSPENSION SETS FOR TUBULAR LUMINAIRES

		Rate A		Rate B	
		1	2	3	4
		Suspension not exceeding 750 mm long	ADD for each additional 250 mm or part thereof	Any length: fixed to small round conduit box	fixed to any other back-ground
<i>Each</i>		£	£	£	£
Suspension set: associated components:					
064	two down-rods: two ceiling plates	39.18	9.56	13.97	22.78
065	two down-tubes: two dome or ball and socket ceiling plates	46.66	10.58	13.97	22.78
066	two down-wires: two hook ceiling plates: two luminaire hooks	39.70	0.98	13.97	22.78
067	four down-wires: four hook ceiling plates: four luminaire hooks	43.47	1.96	24.60	30.37

GENERAL LIGHTING LUMINAIRES

	Rate A		Rate B	
	1	2	3	4
	Luminaire		Luminaire	
	including photocell		including photocell	
	£	£	£	£

Bulkhead luminaire: circular or square: opal or prismatic diffuser:
vandal resistant: weatherproof to IP65: including LED array

Rate A	Rate B
1	2
£	£

Circular drum luminaire with base: ceiling or wall mounted:
opal diffuser: IP43: including low energy compact
fluorescent lamp

306

Y73 LUMINAIRES AND LAMPS

DOMESTIC TYPE LUMINAIRES TO BS EN 60598-2

		Rate A	Rate B
		1	2
		Base White	
<i>Each</i>		£	£
Globe luminaire: white ABS body: opal nylon diffuser: IP43			
082	for one GLS lamp	11.98	19.74
		Rate A	Rate B
		1	2
		£	£
<i>Each</i>			
Mirror light/shaver luminaire: aluminium backplate: bevelled edge glass: dual voltage three pin safety shaver socket outlet: pull cord switch: including LED array			
083	600 x 450; 12 x 0.12W LED array	170.55	21.26
084	700 x 600; 14 x 0.12W LED array	216.34	24.30
Shaver luminaire: horizontal light unit: dual voltage three pin: safety shaver socket outlet: pull cord switch; including low energy compact fluorescent lamp			
085	450 long; 11 W lamp	37.67	15.49
086	600 long; 15 W lamp	55.44	15.79
087	750 long; 18 W lamp	70.18	16.10

DECORATIVE TYPE LUMINAIRES TO BS EN 60598-2

		Rate A	Rate B
		1	2
		£	£
<i>Each</i>			
Rod suspended pendant: satin silver finished: opal-glass onion shaped shade:			
088	for three GLS lamps	109.70	13.67
089	for five GLS lamps	162.66	16.70
Decorative pendant: opal-glass shade:			
090	for one GLS lamp	33.07	10.63
091	for three GLS lamps	111.84	13.67

Y73 LUMINAIRES AND LAMPS

DECORATIVE TYPE LUMINAIRES TO BS EN 60598-2 - continued

Item		Rate A				Rate B
		1	2	3	4	5
		Switchstart		High Frequency		Any type
		Base				
		White	Chrome or Brass	White	Chrome or Brass	
Y73	Each	£	£	£	£	£
	Decorative ceiling luminaire: circular: for 2D low energy compact fluorescent lamp					
	230 mm diameter					
092	for 16 W lamp: IP44	22.63	16.51	-	-	16.70
093	for 16 W lamp: IP20	13.89	15.64	-	-	17.46
	300 mm diameter					
094	for 16 W lamp:	34.86	36.60	-	-	18.98
	330 mm diameter					
095	for 28 W lamp	53.48	61.12	-	-	19.74
	400 mm diameter					
096	for 28 W lamp.	69.02	69.02	91.67	91.67	21.26
097	for 38 W lamp	72.26	72.26	94.91	94.91	22.78
098	for 55 W lamp	-	-	100.31	-	24.30

		Rate A		Rate B
		1	2	3
		One arm type	Two arms type	Any type
		£	£	£
	Each			
099	Wall luminaire: glass cylindrical or bowl shade: with or without integral pull cord or push button switch: for GLS lamp	21.78	43.37	13.97
100	Wall luminaire: any shape metal body: attached to one arm or bracket: for GLS lamp	22.27	35.71	13.97

Y73 LUMINAIRES AND LAMPS

DECORATIVE TYPE LUMINAIRES TO BS EN 60598-2 - continued

Item		Rate A		Rate B
		1	2	3
		Quarter sphere	Slotted	Any Type
		£	£	£
	<i>Each</i>			
	Wall uplighter:			
	ceramic			
101	for GLS lamp.	22.37	-	12.15
102	for 2 pin low energy compact fluorescent lamp.	62.72	70.05	12.91

		Rate A		Rate B
		1	2	
		£	£	
	<i>Each</i>			
	Picture light: including lamps			
	chrome:			
103	for 2 x 33 W G9 lamps.		48.30	16.70
104	for 2 x 3 W LED G9 lamps		56.99	16.70
	brass:			
105	for 2 x 33 W G9 lamps.		48.30	16.70
106	for 2 x 3 W LED G9 lamps		56.99	16.70

DOWNLIGHTERS

		Rate A			Rate B		
		1	2	3	4	5	6
		18 W	26 W	32 W	18 W	26 W	32 W
		£	£	£	£	£	£
	<i>Each</i>						
	Downlighter: 205 diameter: including ballast and compact fluorescent lamp						
	high frequency						
107	single	46.51	48.22	65.08	21.26	22.78	25.82
108	twin	53.34	55.06	-	22.78	24.30	-
109	louvre	24.96	24.96	24.96	6.07	6.07	6.07
	drop glass diffuser: polycarbonate						
110	clear	16.39	16.39	16.39	6.07	6.07	6.07
111	opal	16.39	16.39	16.39	6.07	6.07	6.07
112	trim ring; brushed aluminium	9.90	9.90	9.90	6.07	6.07	6.07

Y73 LUMINAIRES AND LAMPS

DOWNLIGHTERS - continued

Item		Rate A		Rate B
		1	2	3
		Stainless steel or		Any
		White	Chrome	Type
	<i>Each</i>	£	£	£
	Downlighter: mains voltage			
113	fixed; for GU10 Halogen or LED lamp	9.36	10.30	13.67
114	adjustable; for GU10 Halogen or LED lamp	12.56	10.30	15.03
115	shower; IP65; for GU10 Halogen or LED lamp	16.41	17.47	15.03
	Downlighter: low voltage: excluding transformer			
116	fixed; for MR16 Halogen or LED lamp	7.60	9.48	27.33
117	adjustable; for MR16 Halogen or LED lamp	11.36	12.63	28.85
118	shower; IP65; for MR16 Halogen or LED lamp	15.14	16.41	28.85
	Fire rated downlighter: mains voltage			
119	fixed; for GU10 Halogen or LED lamp	13.92	15.54	19.74
120	adjustable; for GU10 Halogen or LED lamp	15.87	18.57	21.11
121	shower; IP65; for GU10 Halogen or LED lamp	17.27	18.80	21.11
	Fire rated downlighter: low voltage: excluding transformer			
122	fixed; for MR16 Halogen or LED lamp	13.43	15.06	30.37
123	adjustable; for MR16 Halogen or LED lamp	15.38	18.08	33.41
124	shower; IP65; for MR16 Halogen or LED lamp	17.27	18.80	33.41

STRIPLIGHT LUMINAIRES

		Rate A		Rate B
		1	2	
		£	£	
	<i>Each</i>			
	Undershelf lights: including lamp: IP20			
	fluorescent:			
125	not exceeding 8 W lamp.	15.17	13.67	
126	8 to 15 W lamp.	17.59	13.97	
127	15 to 21 W lamp.	22.64	14.27	
128	21 to 28 W lamp.	27.27	14.58	
	LED:			
129	not exceeding 4 W lamp.	28.86	16.70	
130	4 to 8 W lamp.	38.99	17.01	
131	8 to 14 W lamp.	68.20	17.31	
132	14 to 18 W lamp.	107.82	17.62	
133	extension lead: 150 mm long	1.27	6.07	
134	extension lead: 300 mm long	1.36	6.07	
135	extension lead: 500 mm long	1.61	6.07	
136	mains input lead: 1000 mm long	5.36	6.07	
137	connector lead: 500 mm long	7.05	6.07	
138	end blanking plug	0.74	4.56	
139	self wire connectors	7.05	7.59	
140	direct connector	3.43	3.04	
141	plug locking accessory	0.36	1.52	

Y73 LUMINAIRES AND LAMPS

BED LIGHT LUMINAIRES

Item		Rate A		Rate B	
		1	2	1	2
	<i>Each</i>	£	£	£	£
Bed head light luminaire:					
142	adjustable arm 150 mm projection swivel arm: brushed nickel finish: base unit with rocker switch: including 1 W LED lamp	79.66	21.26		
143	adjustable arm 300 mm projection swivel arm: brushed nickel finish: base unit with rocker switch: including 3 W LED lamp	85.07	22.78		

TASK LIGHTING

		Rate A		Rate B	
		1	2	1	2
	<i>Each</i>	£	£	£	£
Desk luminaire: rocker switch in lampholder: for GU10 Halogen or LED lamp:					
144	basic; white; 300mm projection	12.56	18.22		
145	adjustable; chrome; 820mm projection	58.93	18.22		
146	Bench standard luminaire: rocker switch in lampholder: for GLS lamp: adjustable: for drawing board: 980 mm projection	108.04	27.94		
147	LED inspection lamp: all insulated polycarbonate cover: anti-glare shield: flex lock: plastic grip: clamp jaws	16.08	3.04		

LED LUMINAIRE: BATTEN STYLE

		Rate A			Rate B		
		1	2	3	4	5	6
		1200mm	1500mm	1800mm	1200mm	1500mm	1800mm
	<i>Each</i>	£	£	£	£	£	£
Batten style LED luminaire							
high frequency							
148	2400 - 4500 lumen	141.01	159.95	-	21.26	22.78	-
149	4500 - 7000 lumen	145.75	164.67	188.33	21.26	22.78	24.30
150	7000 - 8500 lumen	-	-	193.07	-	-	24.30
151	8500 - 10000 lumen	-	-	269.72	-	-	24.30

Y73 LUMINAIRES AND LAMPS

AMENITY, PRECINCT AND SECURITY LIGHTING

Item		Rate A		Rate B	
		1	2	3	4
		Mounting:		Mounting:	
		root mounted	surface baseplate	root mounted	surface baseplate
		£	£	£	£
Y73	<i>Each</i>				
	Aluminium bollard: polycarbonate lens: service door: not exceeding 1.20 m above ground: IP65: including lamp				
152	70W SON	171.43	195.87	39.48	45.56
153	70W MBIT	184.52	208.96	39.48	45.56
154	42 W compact fluorescent lamp	177.18	201.62	39.48	45.56
	Stainless steel bollard: polycarbonate lens: not exceeding 1.20 m above ground: IP54: including lamp				
155	70W SON	183.43	-	39.48	-
				Rate A	Rate B
				1	2
				£	£
	<i>Each</i>				
	Security bulkhead fitting: polycarbonate diffuser: passive infra-red presence detector: IP65				
156	for 60W ES lamp			39.51	18.53
157	LED 6W lamp included			95.33	22.78
	Security bulkhead fitting: slimline: polycarbonate diffuser: with fully automated infra-red presence detector: IP65				
158	for 60W ES lamp			53.53	18.53
159	9W compact fluroscent lamp included.			62.55	20.65
160	6W LED lamp included			99.15	22.78
	Bulkhead: architectural style; polycarbonate: circular: IP65				
161	283 overall diameter; for 60W BC lamp			32.02	17.62
162	283 overall diameter; 16W 2D lamp included.			50.34	17.62
163	353 overall diameter; LED 12.5W lamp included.			70.64	21.26

Y73 LUMINAIRES AND LAMPS

AMENITY, PRECINCT AND SECURITY LIGHTING - *continued*

Item		Rate A		Rate B	
		1	2	1	2
Y73	<i>Each</i>	£	£	£	£
	Drive-over light: aluminium: for weights not exceeding 1800 kg: IP67				
164	for 1 x 50 W GU 10 Halogen lamp	62.37		27.33	
165	for 1 x 10 W compact fluorescent lamp	94.89		30.37	
166	for 1 x 18 W compact fluorescent lamp	99.94		33.41	
167	for 6 x 1W LED lamps	74.02		36.45	

Rate A			Rate B
1	2	3	4
Clear	Grille		Any
	Horizontal	Vertical	type
£	£		£

	<i>Each</i>				
	Bulkhead: recessed exterior: including compact fluorescent lamp				
168	1 x 9 W	49.62	51.78	51.78	24.30
169	1 x 18 W	50.33	52.49	52.49	25.06
170	1 x 26 W	51.05	53.20	53.20	25.82
171	recessing box	7.91	7.91	7.91	12.15

Rate A		Rate B	
1	2	3	4
Luminaire		Luminaire	
	including photocell		including photocell
£	£	£	£

	<i>Each</i>				
	Wallwasher: vandal resistant polycarbonate: clear diffuser: including lamp: IP65				
172	70W SON-E	78.79	99.96	41.00	45.10
173	70W MBI T	114.06	135.23	41.00	45.10
174	26W compact fluorescent lamp	91.47	114.65	44.04	48.44
175	42W compact fluorescent lamp	91.47	112.44	44.04	48.44
176	2 x 13W LED lamps	194.35	221.15	44.04	48.44

Y73 LUMINAIRES AND LAMPS

AMENITY, PRECINCT AND SECURITY LIGHTING - *continued*

Item		Rate A		Rate B	
		1	2	3	4
		including photocell		including photocell	
		£	£	£	£
Y73	<i>Each</i>				
	Sign light: vandal resistant: compact fluorescent: IP65				
177	for one 26 W	28.82	-	19.74	-
178	for one 36 W	37.61	-	21.26	-
179	for two 26 W	49.39	63.64	22.78	25.06

		Rate A		Rate B	
		1	2	3	4
		£	£	£	£
	<i>Each</i>				
180	wall mounting kit			8.40	9.11
181	single sign arm			7.46	6.07
182	double sign arm			24.13	7.59
	Sign light: swan neck: traditional brass				
183	for GLS lamp			38.16	21.26
184	for 12 W compact fluorescent lamp			75.06	24.30

		Rate A		Rate B	
		1	2	3	4
		including PIR		including PIR	
		£	£	£	£
	<i>Each</i>				
	Lantern: decorative traditional: aluminium				
	for GLS lamp				
185	half wall lantern: IP23	32.72	52.76	15.19	16.70
186	six-sided lantern: IP44	52.94	74.31	16.70	18.37
	Lantern: decorative traditional: polycarbonate				
	for GLS lamp				
187	four-sided lantern: IP44	25.68	41.30	15.19	16.70
188	six-sided lantern: IP44	25.68	41.30	16.70	18.37
189	Lantern: decorative: globe: polycarbonate body and diffuser: for GLS lamp: IP44	17.13	40.61	13.67	15.03

Y73 LUMINAIRES AND LAMPS

AMENITY, PRECINCT AND SECURITY LIGHTING - *continued*

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Number of lanterns			Number of lanterns		
		1	2	3	1	2	3
Y73	<i>Each</i>	£	£	£	£	£	£

Light post: aluminium: decorative: for 60 W GLS:
IP44:

190	traditional lantern	61.81	162.38	188.14	13.97	24.30	27.33
191	spherical lantern	97.77	352.78	408.74	25.82	28.85	31.89

Each

Rate A	Rate B
1	2
£	£

Well-glass luminaire: including glass: IP44

192	for GLS lamp				23.51	20.96
193	spare glass				10.40	6.07
194	reflector				6.13	4.56
	bracket:					
195	wall mounted				11.06	13.67
196	corner mounted				15.07	15.19

INDUSTRIAL LIGHTING

	<i>Each</i>	Rate A			Rate B		
		1	2	3	4	5	6
		150 W	250 W	400 W	150 W	250 W	400 W
		£	£	£	£	£	£

High bay fitting: aluminium reflector: control
gear: including lamp: IP20

197	high pressure sodium: SON -T lamp	143.06	146.71	161.15	57.71	69.25	83.22
198	metal halide: energy saving: HQI-E lamp . .	-	150.62	154.60	-	69.25	83.22
199	metal halide: energy saving DALI: HQI-E lamp	-	351.19	349.79	-	69.25	83.22
	accessories						
200	prismatic reflector and collar	126.41	126.41	126.41	54.67	54.67	54.67
201	clear carbonate cover	40.81	40.81	40.81	30.37	30.37	30.37
202	clear glass cover	21.23	21.23	21.23	30.37	30.37	30.37
203	wire guard	22.23	22.23	22.23	24.30	24.30	24.30

Y73 LUMINAIRES AND LAMPS

INDUSTRIAL LIGHTING - *continued*

Item		Rate A		Rate B	
		1	2	3	4
		42 W	57 W	42 W	57 W
Y73	<i>Each</i>	£	£	£	£
	High bay fitting: aluminium reflector: control gear: including compact fluorescent lamp: IP20				
	High frequency				
204	single lamp	-	156.06	-	57.71
205	double lamp	164.23	174.76	63.78	69.85
206	four lamp	204.97	-	75.93	-
	Digital serial interface				
207	single lamp	-	193.31	-	57.71
208	double lamp	202.30	210.21	69.85	75.93
209	four lamp	274.54	-	82.00	-
	Accessories				
210	IP65 safety glass	18.41	18.41	21.26	21.26
211	407mm diameter prismatic reflector and collar	71.42	71.42	54.67	54.67
212	407mm diameter conical lens and band	80.47	80.47	54.67	54.67
213	563mm diameter prismatic reflector and collar	36.16	36.16	48.59	48.59
214	563mm diameter conical lens and band	39.78	39.78	54.67	54.67
215	wire guard	29.74	29.74	24.30	24.30

Rate A			Rate B		
1	2	3	4	5	6
150 W	250 W	400 W	150 W	250 W	400 W
£	£	£	£	£	£

Each

Low bay fitting: powder coated steel box:
aluminium reflector: control gear: removable
gear tray: toughened glass panel: including
lamp: IP20

216	high pressure sodium: SON-T lamp.	105.98	116.89	127.78	54.67	63.78	75.93
217	metal halide: energy saving: HQI-E lamp	-	124.60	131.16	-	63.78	75.93
218	metal halide: energy saving DALI: HQI-E lamp	-	325.08	331.62	-	63.78	75.93

Rate A	Rate B
1	2
£	£

Each

accessories

219	polycarbonate cover	19.59	30.37
220	replacement toughened glass panel	4.37	27.33
221	wire guard	16.18	22.78

Y73 LUMINAIRES AND LAMPS

INDUSTRIAL LIGHTING - *continued*

Item		Rate A	Rate B
		1	2
Y73	<i>Each</i>	£	£
	Recessed modular luminaire: zinc plated: steel box body: aluminium frame: hinged door: stove enamelled finish: integral control gear: acrylic prismatic diffuser:		
	for high pressure sodium vapour lamp:		
222	600 x 600 mm: for 150 W lamp	283.71	55.58
223	600 x 600 mm: for 250 W lamp	298.26	55.58
224	600 x 600 mm: for 400 W lamp	316.69	55.58

DISPLAY LIGHTING

		Rate A	Rate B
		1	2
	<i>Each</i>	£	£
	Luminaire		
	miniature spotlight: wall or ceiling fixed: adjustable head: for GU 10 halogen or LED lamp		
225	single spot	10.03	21.26
226	three spot bar or plate	27.22	27.33
227	four spot bar or plate	35.81	28.85

Rate A			Rate B	
1	2	3	4	5
Without gear		Including	Without	Including
Safety	UV stop	gear -	control	control
glass	glass	any glass	gear	gear
£	£	£	£	£

<i>Each</i>		glass	glass	any glass	year	year
		£	£	£	£	£
Downlighter: rectangular recessed: adjustable 0 to 60°: for metal halide lamp						
228	70 W	46.22	52.12	88.51	41.61	46.16
229	150 W	46.22	52.12	94.40	45.56	50.63
230	200 W	56.97	64.25	116.37	50.11	55.67

Y73 LUMINAIRES AND LAMPS

TRACK MOUNTED LUMINAIRES

Item		Rate A		Rate B	
		1		2	
		One			
		Circuit			
Y73	Each	£		£	
	Track, connectors, accessories: 240 V				
231	track and dead end: 240 V: not exceeding 500 mm long	12.15		12.15	
	Metre				
232	track and dead end: 240 V	19.56		14.27	
	Each				
233	flexible connector	17.94		6.69	
234	straight connector	5.54		6.69	
235	tee connector	17.94		8.82	
236	dead end	1.99		6.83	
237	live end	6.19		8.21	
		Rate A		Rate B	
		1		2	
		£		£	
	Each				
238	suspension rod: not exceeding 500 mm long	8.02		6.99	
239	switched track adaptor: pre-wired to cable 1.00 m long	8.52		5.47	
240	suspension wire and bracket: not exceeding 300 mm long	2.23		3.04	
241	mini spot with cone or cowl	5.87		8.82	
242	spotlight	15.69		6.69	
243	spotlight with cone or cowl.	18.82		8.81	
244	spotlight with switched track adaptor	16.95		7.59	
245	cylinder spotlight with baffle and switched track adaptor	22.39		9.11	
246	mini spot with track adaptor	17.34		10.63	

247 to 300 Not used

ROAD AND STREET LIGHTING LUMINAIRES

GENERALLY

Specification

Standard:

Comply with BS 5489-1: Code of practice for the design of road lighting. Lighting of roads and public amenity areas.

LIGHTING LUMINAIRES FOR ROAD LIGHTING

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		Standard gear			Electronic gear			Any type
		Socket for photocell	Including photocell		Socket for photocell	Including photocell		
Y73	<i>Each</i>	£	£	£	£	£	£	£
	Street lighting luminaire: glass reinforced plastic body: integral control gear: side entry or post-top mounting: shock resistant UV stabilised polycarbonate bowl: IP66							
	high pressure sodium:							
301	50 W	112.38	128.66	149.71	-	-	-	30.37
302	70 W	116.27	130.87	149.80	184.61	191.97	211.16	31.89
	compact fluorescent:							
303	57 W	-	-	-	117.72	122.61	-	33.41

		Rate A			Rate B
		1	2	3	4
		Electronic gear			Any type
		Socket for photocell	Including photocell		
	<i>Each</i>	£	£	£	£
	Street lighting luminaire: die-cast aluminium powder coated body: integral control gear: side entry or post-top mounting: shock resistant UV stabilised polycarbonate enclosure: IP66				
	compact fluorescent:				
304	36 W	166.33	184.61	197.18	31.89
305	55 W	166.33	184.61	197.18	33.41
306	80 W	171.04	189.29	201.86	34.93

Y73 LUMINAIRES AND LAMPS

LIGHTING LUMINAIRES FOR ROAD LIGHTING - *continued*

Item	Each	Rate A					Rate B
		1	2	3	4	5	6
		Standard gear		Electronic gear			Any type
		Socket for photocell		Socket for photocell		Including photocell	
		£	£	£	£	£	£
	Street lighting luminaire: die-cast aluminium powder coated body: integral control gear: side entry or post-top mounting: IP66						
	high pressure sodium.						
	toughened float glass.						
307	50 W	185.18	224.04	-	-	-	33.41
308	70 W	180.63	219.49	240.06	278.93	297.21	36.45
309	100 W	204.28	217.19	297.21	336.08	354.37	39.48
310	150 W	225.68	262.95	328.34	365.80	362.73	42.52
311	250 W	244.62	281.23	-	-	-	45.56
312	400 W	254.12	-	-	-	-	48.59
	shock resistant UV stabilised polycarbonate bowl						
313	50 W	173.77	212.64	-	267.50	-	33.41
314	50 W: vandal resistant	203.50	-	-	-	-	34.93
315	70 W	169.18	208.05	228.63	-	285.78	36.45
316	70 W: vandal resistant	198.91	256.06	258.34	-	315.51	37.96
317	100 W	166.90	205.76	285.78	324.64	342.93	39.48
318	150 W	217.19	253.77	294.73	356.66	351.41	42.52
319	250 W	235.47	272.07	-	-	-	45.56
	metal halide						
	toughened float glass.						
320	70 W	180.63	219.49	240.06	278.93	297.21	36.45
321	100 W	215.86	217.19	251.50	290.37	308.65	39.48
322	150 W	225.68	262.95	262.95	315.13	320.08	42.52
323	250 W	244.62	281.23	-	-	-	45.56
	shock resistant UV stabilised polycarbonate bowl						
324	70 W	169.18	208.05	228.63	267.50	285.78	33.41
325	70 W: vandal resistant	198.91	-	258.34	256.06	315.51	36.45
326	100 W	166.90	205.76	240.06	278.93	297.21	39.48
327	150 W	217.19	253.77	251.50	306.05	308.65	42.52
328	250 W	235.47	272.07	-	-	-	45.56
	compact fluorescent:						
	shock resistant UV stabilised polycarbonate bowl						
329	57 W	-	-	212.64	251.50	-	33.41
330	57 W: vandal resistant	-	-	235.47	-	292.66	34.93

331 to 400 Not used

FLOODLIGHTING LUMINAIRES TO BS EN 6098-2-5

	Rate A			Rate B
	1	2	3	4
	<i>Each</i>	IP44	IP54	IP65
	£	£	£	£

Rate A	Rate B
1	2
£	£

321

Y73 LUMINAIRES AND LAMPS

COMPACT FLUORESCENT FLOODLIGHT LUMINAIRES

Item		Rate A	Rate B
		1	2
Y73	<i>Each</i>	£	£
	Floodlight		
	adjustable: polycarbonate body and diffuser: internally tapped for conduit entry: for compact fluorescent lamp: IP65		
419	26W	65.59	44.04
420	26W with PIR	71.70	47.08
421	42W	102.19	50.11
422	42W with PIR	108.30	53.15
	accessories:		
423	wire guard: galvanised	12.75	12.15

LED FLOODLIGHT LUMINAIRES

Item		Rate A	Rate B
		1	2
Y73	<i>Each</i>	£	£
	Floodlight		
	adjustable: die cast aluminium body: toughened frosted glass cover: pre wired with 1.5m long flex: including LED lamp: IP65		
424	10W	24.29	44.04
425	10W with PIR	34.98	47.08
426	30W	58.31	50.11
427	30W with PIR	72.88	53.15
428	50W	97.18	50.11
429	50W with PIR	121.46	53.15
	accessories:		
430	wire guard: galvanised	12.75	12.15

HIGH INTENSITY DISCHARGE FLOODLIGHT LUMINAIRES						
	Rate A				Rate B	
	1	2	3	4	5	6
	Eliptical diffusing SON-E	with photocell	Tubular SON-T	with photocell	pole mounted	fixed to any back- ground
	£	£	£	£	£	£
Each						
Floodlight: discharge: high pressure sodium: integral control gear: anodised aluminium reflector: polycarbonate lens: sealing gasket: body-attached adjustable stirrup type fixing bracket:including lamp: IP65						
impact resistant polycarbonate body						
50 W	66.20	42.52	-	-	-	48.59
70 W	73.19	111.46	83.72	148.37	44.04	50.11
150 W	169.99	198.67	-	-	45.56	51.63
250 W.	172.07	199.66	-	-	48.59	54.67
400 W.	182.50	208.72	-	-	53.15	59.22
die cast aluminium body						
50 W	99.80	-	-	-	50.11	66.82
70 W	110.34	-	126.21	140.54	51.63	69.85
100 W	-	-	197.82	220.28	53.15	72.89
150 W	-	-	208.57	232.25	54.67	75.93
250 W.	-	-	221.62	242.64	56.19	78.97
400 W.	-	-	241.19	250.76	57.71	82.00
					Rate A	Rate B
					1	2
Each					£	£
accessories:						
mounting bracket: outreach						
not exceeding 150 mm					31.79	12.15
150 to 300 mm					39.71	15.19
pair of pole clamps, nuts and washers					7.90	7.59
wire guard						
compact					34.90	18.22
medium					43.94	21.26
wall mounted photocell to switch one flood					32.66	24.30

Y73 LUMINAIRES AND LAMPS

HIGH INTENSITY DISCHARGE FLOODLIGHT LUMINAIRES - *continued*

		Rate A		Rate B	
		1	2	3	4
		HQI	with photocell	pole mounted	fixed to any back- ground
<i>Each</i>		£	£	£	£
Floodlight: discharge: metal halide: integral control gear: anodised aluminium reflector: polycarbonate lens: sealing gasket: body- attached adjustable stirrup type fixing bracket: including lamp: IP65					
impact resistant polycarbonate body					
448	70 W	118.00	150.15	28.85	44.04
449	100 W	143.51	162.77	31.89	47.08
450	150 W	177.29	201.07	34.93	50.11
451	250 W	180.41	207.82	37.96	53.15
452	400 W	190.85	219.91	41.00	56.19
die cast aluminium body					
453	70 W	187.71	-	30.37	45.56
454	100 W	207.32	-	33.41	48.59
455	150 W	200.73	220.98	36.45	51.63
456	250 W	247.73	264.02	39.48	54.67
457	400 W	267.32	267.97	42.52	57.71

458 to 500 Not used

HAZARDOUS AREA LUMINAIRES

GENERALLY

Specification

Standard:

Comply with:

BS EN 60079-1: Electrical apparatus for explosive gas atmospheres. Flameproof enclosures 'd'.

BS EN 60079-7: Electrical apparatus for explosive gas atmospheres. Increased safety "e".

BS EN 60079-14: Explosive atmospheres. Electrical installations design, selection and erection.

BS EN 60079-15: Explosives atmospheres. Equipment protection by type of protection electrical apparatus.

FLUORESCENT LUMINAIRES: WEATHERPROOF/CORROSION RESISTANT

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 mm	1200 mm	1500 mm	1800 mm	600 mm	1200 mm	1500 mm	1800 mm
		18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
Y73	Each	£	£	£	£	£	£	£	£
	Weatherproof luminaire: type T8: IP66								
	switch start								
501	single	35.78	36.71	37.37	43.30	25.82	34.32	35.53	38.27
502	twin	52.84	50.63	51.40	57.15	28.55	35.53	38.27	41.31
	high frequency								
503	single	56.22	59.45	57.65	65.54	25.82	34.32	35.53	38.27
504	twin	70.02	70.94	71.86	76.86	28.55	35.53	38.27	41.31
	digital serial interface								
505	single	-	93.27	89.67	-	-	34.32	35.53	-
506	twin	-	104.99	105.92	-	-	35.53	38.27	-

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES: WEATHERPROOF/CORROSION RESISTANT - *continued*

Item		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		1200 mm	1200 mm	1500 mm	1500 mm	1200 mm	1200 mm	1500 mm	1500 mm
		28 W	54 W	35 W	49 W	28 W	54 W	35 W	49 W
Y73	<i>Each</i>	£	£	£	£	£	£	£	£
	Weatherproof luminaire: type T5: IP66								
	high frequency								
507	single	66.17	80.02	67.98	69.94	34.32	34.32	35.53	35.53
508	twin	80.11	94.23	81.92	83.87	35.53	35.53	38.27	38.27
	digital serial interface								
509	single	100.11	112.67	101.96	103.97	34.32	34.32	35.53	35.53
510	twin	114.33	126.88	113.94	115.90	35.53	35.53	38.27	38.27
		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		600 mm	1200 mm	1500 mm	1800 mm	600 mm	1200 mm	1500 mm	1800 mm
		18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
	<i>Each</i>	£	£	£	£	£	£	£	£
	Corrosion resistant luminaire: type T8: IP66								
	switch start								
511	single	53.77	58.66	60.87	76.82	25.82	34.32	35.53	38.27
512	twin	70.83	75.71	77.93	93.90	28.55	35.53	38.27	41.31
	high frequency								
513	single	71.45	75.43	77.24	90.28	25.82	34.32	35.53	38.27
514	twin	85.39	89.38	91.19	104.23	28.55	35.53	38.27	41.31
		Rate A				Rate B			
		1	2	3	4	5	6	7	8
		1200 mm	1200 mm	1500 mm	1500 mm	1200 mm	1200 mm	1500 mm	1500 mm
		28 W	54 W	35 W	49 W	28 W	54 W	35 W	49 W
	<i>Each</i>	£	£	£	£	£	£	£	£
	Corrosion resistant luminaire: type T5: IP66								
	high frequency								
515	single	80.87	93.18	82.68	84.65	34.32	34.32	35.53	35.53
516	twin	94.81	107.13	96.62	98.58	35.53	35.53	38.27	38.27
	digital serial interface								
517	single	115.10	127.66	116.95	118.95	34.32	34.32	35.53	35.53
518	twin	129.32	141.88	131.17	133.16	35.53	35.53	38.27	38.27

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LUMINAIRES: WEATHERPROOF/CORROSION RESISTANT - *continued*

	Rate A				Rate B			
	1	2	3	4	5	6	7	8
	600 mm	1200 mm	1500 mm	1800 mm	600 mm	1200 mm	1500 mm	1800 mm
	18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
<i>Each</i>	£	£	£	£	£	£	£	£

Corrosion resistant luminaire:
ATEX certified: EEx n IIB T3/4:
Zone 2: sealed to IP65:

Class T4

519	single	96.56	115.79	126.27	132.74	25.82	34.32	35.53	38.27
520	twin	120.48	138.86	149.34	173.74	28.55	35.53	38.27	41.31

Class T3

521	single	197.04	231.47	274.45	288.53	25.82	34.32	35.53	38.27
522	twin	284.09	306.39	317.15	333.40	28.55	35.53	38.27	41.31

	Rate A				Rate B			
	1	2	3	4	5	6	7	8
	600 mm	1200 mm	1500 mm	1800 mm	600 mm	1200 mm	1500 mm	1800 mm
	18 W	36 W	58 W	70 W	18 W	36 W	58 W	70 W
<i>Each</i>	£	£	£	£	£	£	£	£

Corrosion resistant luminaire:
ATEX certified, EEx d/e IIB T6:
Zone 1/2: sealed to IP67:

Ex 'e' increased safety:

523	single	281.61	330.06	480.31	596.66	25.82	34.32	35.53	38.27
524	twin	301.92	314.24	407.54	506.27	28.55	35.53	38.27	41.31

Ex 'd' flameproof:

525	single	381.84	416.78	421.25	523.29	25.82	34.32	35.53	38.27
526	twin	461.60	504.67	511.12	634.94	28.55	35.53	38.27	41.31

527	wire guard: galvanised . .	58.70	80.60	88.43	-	7.59	9.11	10.63	-
-----	----------------------------	-------	-------	-------	---	------	------	-------	---

	Rate A		Rate B
	1	2	3
	IP55	IP66	Any type
	£	£	£

528	Bulkhead luminaire: EEx 'd' type: flameproof: zone 1 and 2: Class T4 . .	190.19	313.10	41.31
-----	--	--------	--------	-------

Wellglass luminaire: EEx 'd' type: flameproof: zone 1 and 2:

529	70 W	-	575.55	45.56
530	150 W	-	944.05	53.15
531	250 W	-	970.21	60.74
532	400 W	-	977.52	75.93

Y73 LUMINAIRES AND LAMPS

LED LUMINAIRES: WEATHERPROOF/CORROSION RESISTANT

Item		Rate A	Rate B
		1	2
Y73	<i>Each</i>	£	£
	LED Weatherproof luminaire: IP66		
	standard		
533	not exceeding 30W	84.53	36.45
534	30 to 44W	84.53	36.45
535	44 to 60W	84.53	36.45
536	60 to 76W	159.99	39.48
537	76 to 90W	159.99	39.48
538	90 to 105W	159.99	39.48
	DALI		
539	not exceeding 30W	105.66	39.48
540	30 to 44W	105.66	39.48
541	44 to 60W	105.66	39.48
542	60 to 76W	208.29	42.52
543	76 to 90W	208.29	42.52
544	90 to 105W	208.29	42.52

DISCHARGE LUMINAIRES: WEATHERPROOF/CORROSION RESISTANT

		Rate A	Rate B	
		1	2	3
			Fixed to:	
			pole	any other back-ground
	<i>Each</i>	£	£	£
	Floodlight: discharge: high pressure sodium vapour or metal halide lamp: reflector:sealing gasket: body-attached stirrup type fixing bracket:			
	Ex 'n' non sparking: zone 2: Class T3			
545	70 W	206.02	42.52	48.59
546	150 W	363.39	45.56	51.63
547	250 W	401.42	48.59	54.67
548	400 W	407.71	51.63	57.71
	Ex 'd' flameproof: zone 1 and 2: Class T3: IP67			
	wide beam			
549	70 W	659.66	53.15	59.22
550	150 W	698.45	56.19	62.26
551	250 W	803.69	59.22	65.30
552	400 W	809.97	62.26	68.34
	narrow beam			
553	70 W	823.96	53.15	59.22
554	150 W	879.54	56.19	62.26
555	250 W	1028.28	59.22	65.30
556	400 W	1054.16	62.26	68.34
557 to 600 Not used				

LAMP HOLDERS

GENERALLY

Specification*Standard:*

Comply with:

BS EN 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety.

BS EN 60061-1: Lamp caps.

BS EN 60061-2: Lampholders.

BS EN 60061-3: Gauges.

BS EN 61184: Bayonet lampholders.

BS 7895: Specification for bayonet lampholders with enhanced safety.

Mounting:

Securely mount lampholder in luminaire when it is sole support for lamp.

Provide integral cord grip type when lampholders are suspended by cord.

Definition of Terms*Enhanced safety:*

Lampholder with no live parts accessible when lamp is removed.

Electronic low energy:

Low energy lampholder with integral electronic control gear for 10 or 13 W 4-pin compact fluorescent Lamps (CFL's) that do not have integral control gear.

LAMP HOLDERS AND ACCESSORIES

Item	Each	Rate A		Rate B
		1	2	3
		Standard	Enhanced	Any
			safety	type
Y73		£	£	£
Ceiling rose:				
	surface type: earth terminal:			
601	two terminal and earth	1.75	-	5.47
602	three terminal and earth	1.92	-	7.59
603	three terminal and earth: clear base	2.34	-	7.59
604	halo	1.07	-	3.04
605	porcelain: three terminal: semi-recessed	3.69	-	7.59
Lampholder: cord grip pattern				
	type T2: heat resisting			
606	including short skirt	2.25	3.37	3.04
607	including H. O. skirt	2.55	3.50	3.04
	brass			
608	unswitched	5.88	-	3.80
609	switched	8.42	-	3.80

Y73 LUMINAIRES AND LAMPS

LAMPHOLDERS AND ACCESSORIES - *continued*

Item		Rate A		Rate B
		1	2	3
		Standard	Enhanced	Any
			safety	type
Y73	Each	£	£	£
	Pendant set: lampholder: cord grip pattern: type T2: heat resisting: including short skirt: PVC insulated and sheathed flexible cord: ceiling rose			
610	100 mm	-	3.18	3.04
611	150 mm	3.79	5.35	3.34
612	230 mm	4.76	5.92	3.64
613	305 mm	5.74	-	3.95
	Batten holder: earth terminal: type T2: heat resisting:			
614	straight pattern	4.88	5.93	5.47
615	angled pattern	4.69	5.11	5.47
	Accessories			
616	surface mounting pattress for batten holder	1.26	-	3.64
617	short skirt	1.05	-	3.64
618	H. O. skirt	1.22	-	3.64
619 to 750	Not used			

CONTROL GEAR AND COMPONENTS

GENERALLY

Specification

Standard:

Comply with:

Glow starters:

BS EN 60155: Glow starters for lamps.

Lamp control gear:

BS EN 61347-1: Lamp control gear. General and safety requirements.

Particular requirements:

BS EN 61347-2-1: Starting devices (other than glow starters).

BS EN 61347-2-2: D.C. or A.C. supplied electronic step-down convertors for lamps.

BS EN 61347-2-3: A.C. and/or D.C. supplied electronic control gear for fluorescent lamps.

BS EN 61347-2-7: Battery supplied electronic control gear for emergency lighting (self contained).

BS EN 61347-2-8: Ballasts for fluorescent lamps.

BS EN 61347-2-9: Electromagnetic control gear for discharge lamps (excluding fluorescent lamps).

Performance requirements:

BS EN 60927: Starting devices (other than glow starters).

BS EN 61047: D.C. or A.C. supplied electronic step-down convertors for filament lamps.

DALI: Digital Addressable Lighting Interface

15.60	14.88
-------	-------

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LAMP CONTROL GEAR - *continued*

Item	Each	Rate A			Rate B
		1	2	3	4
		Standard	Dimmable	DALI	Any type
		£	£	£	£
Control gear: electronic: fluorescent					
for 1 lamp					
761	not exceeding 18 W	57.53	91.23	99.05	22.78
762	18 to 36 W	58.10	92.14	100.04	22.78
763	36 to 58 W	58.68	93.07	101.04	22.78
764	58 to 70 W	59.28	94.00	-	22.78
for 2 lamps					
765	not exceeding 18 W	60.50	96.19	116.25	25.82
766	18 to 36 W	61.11	97.26	117.41	25.82
767	36 to 58 W	61.72	98.13	118.59	25.82
768	58 to 70 W	62.33	99.10	-	25.82
769	for 3 or 4 lamps	103.13	96.19	-	28.85

COMPACT FLUORESCENT LAMP CONTROL GEAR

Each		Rate A						Rate B	
		1	2	3	4	5	6	7	8
		Standard		Dimmable		DALI		Any type	
		for	for	for	for	for	for	for	for
		1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	2 lamps
		£	£	£	£	£	£	£	£
Control gear: electronic: compact fluorescent: 4-pin									
"C", "D", "S" and "T" type									
770	not exceeding 13 W . .	42.65	49.58	94.21	101.15	-	-	22.78	25.82
771	13 to 18 W	44.63	51.57	94.21	101.15	138.84	188.43	22.78	25.82
772	18 to 26 W	61.49	69.42	96.19	106.10	138.84	188.43	22.78	25.82
773	26 to 32 W	61.49	69.42	101.15	111.07	-	-	22.78	25.82
774	32 to 42 W	61.49	69.42	106.10	-	-	-	22.78	25.82
775	42 to 57 W	68.43	77.27	-	-	-	-	22.78	25.82
776	57 to 70 W	99.09	-	-	-	-	-	22.78	-
"F" and longer "L" type									
777	not exceeding 18 W . .	54.78	60.50	91.23	96.19	-	-	22.78	25.82
778	18 to 24 W	63.47	67.45	128.92	178.50	-	-	22.78	25.82
779	24 to 40 W	57.53	60.50	128.92	178.50	99.05	116.25	22.78	25.82
780	40 to 55 W	57.53	60.50	128.92	178.50	99.05	116.25	22.78	25.82
781	55 to 80 W	83.31	-	-	-	-	-	22.78	-

Y73 LUMINAIRES AND LAMPS

HIGH INTENSITY DISCHARGE LAMP CONTROL GEAR

Item	Each	Rate A		Rate B	
		1	2	3	4
		Basic ballast unit	Heavy duty ballast unit	Basic ballast unit	Heavy duty ballast unit
		£	£	£	£
Control gear: for discharge lamps					
for metal halide lamp:					
metal halide					
782	50 W	22.37	20.44	45.56	50.11
783	80 W	22.37	20.44	60.74	66.82
784	125 W	24.46	23.34	75.93	83.52
785	250 W	42.29	40.17	91.11	100.23
786	400 W	48.23	48.23	106.30	116.93
787	1000 W	-	136.71	-	133.63
788	2000 W	-	190.76	-	150.34
ceramic metal halide					
789	35 W	26.30	-	48.59	-
790	70 W	28.76	-	63.78	-
791	150 W	49.13	-	101.36	-
for high pressure sodium vapour lamp:					
792	50 W	21.11	28.52	75.93	83.52
793	70 W	25.00	60.94	91.11	100.23
794	100 W	25.00	36.38	106.30	116.93
795	150 W	49.77	60.94	121.49	133.63
796	250 W	54.68	63.61	136.67	150.34
797	400 W	77.18	70.11	151.86	167.04
798	600 W	97.22	-	167.04	-
799	1000 W	-	159.21	-	200.45
for low pressure sodium vapour lamp:					
type SOX:					
800	18 W: BC	32.88	-	69.85	-
801	35 W: BC	17.64	-	85.04	-
802	55 W: BC	17.64	-	100.23	-
803	90 W: BC	34.61	-	115.41	-
804	135 W: BC	47.10	-	130.60	-
805	180 W: BC	73.71	-	145.78	-
type SOX-E					
806	18 W: BC	21.11	-	75.93	-
807	26 W: BC	25.51	-	91.11	-
808	36 W: BC	52.19	-	106.30	-
809	66 W: BC	51.27	-	121.49	-
810	91 W: BC	65.69	-	136.67	-
811	131 W: BC	77.93	-	151.86	-

Y73 LUMINAIRES AND LAMPS

HIGH INTENSITY DISCHARGE LAMP CONTROL GEAR - *continued*

Item	Each	Rate A			Rate B	
		1	2	3	4	5
		Electronic Control unit	Basic ballast unit	Heavy duty ballast unit	Basic ballast unit	All other types
		£	£	£	£	£
Electronic control gear: for discharge lamps						
for metal halide lamp:						
812	35 W	-	99.26	107.55	75.93	83.52
813	70 W	-	114.83	123.13	91.11	100.23
814	150 W	-	149.39	-	106.30	-
for high pressure sodium vapour lamp:						
815	50 W	-	103.74	-	98.71	-
816	100 W	-	111.91	-	113.89	-
electronic control unit and ballast						
817	35 W	71.56	18.47	-	121.49	-
818	50 W	71.56	17.70	29.97	136.67	150.34
819	100 W	71.56	21.07	31.70	151.86	167.04
for low pressure sodium vapour lamp:						
type SOX:						
820	35 W: BC	-	93.99	-	83.52	-
821	55 W: BC	-	93.99	-	98.71	-
type SOX-E						
822	36 W: BC	-	89.51	-	83.52	-

Y73 LUMINAIRES AND LAMPS

HIGH INTENSITY DISCHARGE LAMP CONTROL GEAR - *continued*

Item		Rate A	Rate B
		1	2
Y73	<i>Each</i>	£	£
	Capacitor: for correcting phase shift: with stud		
823	not exceeding 8.0uF	8.11	15.19
824	8.0 to 16.0uF	11.19	18.22
825	16.0 to 24.0uF	14.39	21.26
826	24.0 to 32.0uF	22.39	24.30
	Ignitor		
	non-timed		
	for high pressure sodium lamp:		
827	not exceeding 600 W	38.24	60.74
828	600 to 1000 W	62.14	75.93
	for metal halide lamp:		
829	tubular lamp: not exceeding 400 W	52.21	66.82
830	tubular lamp: 400 to 2000 W	62.77	78.97
831	double-ended lamp: not exceeding 2000 W	83.57	97.19
832	timed: for high pressure sodium or metal halide lamp	51.97	72.89
833	for low pressure sodium lamp: any type	36.38	54.67
	series		
	for high pressure sodium or metal halide lamp		
834	not exceeding 70 W	50.15	69.85
835	not exceeding 70 W: self stop 2 minutes	50.15	82.00
836	70 to 150 W	51.40	91.11
837	150 to 250 W	59.86	100.23

838 to 900 Not used

LAMPS
LED LAMPS

IEC 62717 General lighting performance requirements for LED modules.

Comply with:

BS EN 62612: Self ballasted LED lamps for
for general lighting services.

336

Y73 LUMINAIRES AND LAMPS

LED LAMPS - *continued*

Item		Rate A		Rate B	
		1	2	1	2
Y73	<i>Each</i>	£	£	£	£
	Pygmy lamp: 240V : warm white: SES				
910	1.5 W	4.44	1.97		
	Tubular lamp: double ended: 240V : opal				
911	221mm long	10.14	1.97		
912	284mm long	12.08	1.97		
	T8 LED tube: 240V : cool white or warm white				
913	9W: 600mm long	8.38	3.04		
914	14W: 900mm long	9.06	3.04		
915	22W: 1200mm long	10.86	3.04		
916	24W: 1500mm long	12.67	3.04		

FLUORESCENT LAMPS

Specification

Standard:

Comply with:

BS EN 60081: Double-capped fluorescent lamps. Performance specifications.

BS EN 60901: Single-capped fluorescent lamps. Performance specifications.

BS EN 61195: Double-capped fluorescent lamps. Safety specifications.

BS EN 61199: Single-capped fluorescent lamps. Safety specifications.

BS 1853-2: Tubular fluorescent lamps for general lighting service. Specification for lamps used in the United Kingdom not included in BS EN 60081, BS EN 60901, BS EN 61195 and BS EN 61199.

Rate A			
1	2	3	4
White	Cool white	Warm white	Daylight
£	£	£	£

Each

Straight lamp:

Watts Length Diameter

general purpose:

917	4 W	150 mm	16 mm	2.40	2.40	2.40	2.40
918	6 W	225 mm	16 mm	3.01	3.01	3.01	3.01
919	8 W	300 mm	16 mm	2.40	2.40	2.40	2.40
920	13 W	525 mm	16 mm	3.01	3.01	3.01	3.01

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LAMPS - *continued*

Item					Rate A			
					1	2	3	4
					White	Cool white	Warm white	Daylight
Y73	Each				£	£	£	£
	Straight lamp - <i>continued</i>							
	<i>Watts</i>	<i>Length</i>	<i>Diameter</i>					
	general purpose - <i>continued</i>							
921	75/85 W	1800 mm	38 mm		13.16	-	13.13	-
922	100 W	2400 mm	38 mm		26.55	26.55	-	-
	triphospor							
923	10 W	345 mm	26 mm		-	-	-	7.40
924	15 W	450 mm	26 mm		3.62	3.62	3.62	3.62
925	18 W	600 mm	26 mm		2.66	2.66	2.66	2.66
926	30 W	900 mm	26 mm		2.90	2.90	2.90	2.90
927	36 W	1200 mm	26 mm		2.66	2.66	2.66	2.66
928	58 W	1500 mm	26 mm		2.66	2.66	2.66	2.66
929	70 W	1800 mm	26 mm		4.83	4.83	4.83	4.83
	miniature							
930	6 W	225 mm	7 mm		14.01	14.01	14.01	14.01
931	8 W	300 mm	7 mm		14.01	14.01	14.01	14.01
932	11 W	400 mm	7 mm		17.34	17.34	17.34	17.34
933	13 W	525 mm	7 mm		18.06	18.06	18.06	18.06

Y73 LUMINAIRES AND LAMPS

FLUORESCENT LAMPS - *continued*

Item	Y73	Each	Rate A				
			1	2	3	4	
			White	Cool white	Warm white	Daylight	
			£	£	£	£	
Straight lamp - <i>continued</i>							
		<i>Watts</i>	<i>Length</i>	<i>Diameter</i>			
triphosphor							
high efficiency							
934		14 W	549 mm	16 mm	4.82	4.82	4.82
935		21 W	849 mm	16 mm	4.82	4.82	4.82
936		28 W	1149 mm	16 mm	5.42	5.42	5.42
937		35 W	1449 mm	16 mm	5.42	5.42	5.42
high output							
938		24 W	549 mm	16 mm	5.42	5.42	5.42
939		39 W	849 mm	16 mm	5.42	5.42	5.42
940		49 W	1449 mm	16 mm	6.63	6.63	6.63
941		54 W	1149 mm	16 mm	7.23	7.23	7.23
942		80 W	1449 mm	16 mm	7.23	7.23	7.23
Circular lamp:							
943		22 W: 210 mm diameter			9.00	9.85	9.60
944		32 W: 300 mm diameter			9.73	9.73	9.73
945		40 W: 400 mm diameter			11.23	11.23	11.23
946		60 W: 400 mm diameter			9.65	13.27	9.65
" U "- shaped tube:							
947		36 W: 525 mm			13.89	25.78	-

Y73 LUMINAIRES AND LAMPS

COMPACT FLUORESCENT LAMPS

		Rate A							
		1	2	3	4	5	6	7	8
		Not exc-	10 to	13 to	18 to	26 to	32 to	42 to	57 to
Item		10 W	13 W	18 W	26 W	32 W	42 W	57 W	70 W
Y73	Each	£	£	£	£	£	£	£	£
Compact fluorescent lamp:									
energy saving									
external control gear									
two-pin: integral starter:									
for conventional gear									
949	circular	11.68	-	-	-	-	-	-	-
950	two-limbed: dual shaped . . .	2.46	2.68	-	-	-	-	-	-
951	four-limbed: quad shaped . .	4.47	5.11	5.53	6.03	-	-	-	-
952	15,000 hours: longer life .	-	-	12.11	13.17	-	-	-	-
953	multi-limbed	-	5.94	6.46	7.05	-	-	-	-
954	square	-	-	3.14	4.72	-	-	-	-
four-pin: for electronic gear									
955	two-limbed: dual shaped . . .	-	3.34	-	-	-	-	-	-
956	four-limbed: quad shaped . .	5.33	5.55	6.09	6.59	-	-	-	-
957	15,000 hours: longer life .	-	-	12.11	13.17	-	-	-	-
958	multi-limbed	-	6.50	7.12	7.72	8.42	9.13	9.88	11.27
959	15,000 hours: longer life .	-	-	-	-	18.91	20.50	24.57	-
960	square	-	-	3.04	-	4.59	4.85	-	-
961	longer	-	-	5.61	6.01	-	6.54	6.58	8.22
962	15,000 hours: longer life .	-	-	-	-	-	13.15	14.39	-
direct replacement: BC or ES:									
integral control gear									
limbed: average rated life:									
963	10,000 hours: economy . . .	7.90	7.90	7.90	7.90	-	-	-	-
964	15,000 hours: longer life . . .	8.22	8.22	8.71	8.71	9.23	-	-	-
965	10,000 hours: economy:								
	with prismatic cover	7.98	7.98	7.98	9.04	-	-	-	-
GLS or candle shaped:									
average rated life:									
966	6,000 hours: GLS shaped . .	6.12	6.12	6.12	6.12	-	-	-	-
967	12,000 hours: GLS shaped .	9.39	9.39	10.32	-	-	-	-	-
968	6,000 hours: candle shaped	6.12	6.12	-	-	-	-	-	-
969	12,000 hours: candle								
	shaped	11.30	-	-	-	-	-	-	-
									Rate B
									1
Each									£
970	Compact fluorescent lamp: any description: any rating								3.04

Y73 LUMINAIRES AND LAMPS

TUNGSTEN HALOGEN LAMPS

Specification

BS EN 60432-2: Incandescent lamps. Safety specifications. Tungsten halogen lamps for domestic and similar general lighting purposes.

Standard:

Comply with:

BS EN 60357: Tungsten-halogen lamps (non-vehicle). Performance specifications.

Item	Each	Rate A	
		1	2
		Mains voltage	Low voltage
		£	£
Tungsten halogen lamp: double ended: for floodlights			
971	100 W	5.65	5.78
972	150 W	5.65	-
973	200/250 W	5.19	5.31
974	300 W	5.19	5.83
975	500 W	5.58	5.81
976	750 W	8.57	-
977	1000 W	9.20	10.24
978	1500 W	10.09	-
979	2000 W	11.95	-

	Each	Rate A	
		1	2
		Spot/flood	
		Spot	PAR
		£	£
Tungsten halogen lamp: mains voltage: for display lighting			
980	not exceeding 40 W	6.45	7.88
981	40 to 50 W	-	8.16
982	50 to 60 W	7.04	-
983	60 to 75 W	-	7.33

		Rate A	
		1	2
		Open	Closed
Each		£	£
Tungsten halogen lamp: low voltage: dichroic: for display lighting			
984	12 W	5.17	6.19
985	20 W	5.17	6.19
986	35 W	5.24	6.28
987	50 W	5.33	6.38

Y73 LUMINAIRES AND LAMPS

TUNGSTEN HALOGEN LAMPS - *continued*

		Rate A
		1
		£
Item	Each	
Y73	<i>Each</i>	
	Tungsten halogen lamp:	
	mains voltage:	
988	for compact luminaires: G9 cap: clear or frosted	3.62
989	for GLS replacement: BC cap: clear or opal	2.84
	low voltage:	
	aluminium reflector lamp: for display lighting	
990	48 mm diameter	5.08
991	70 mm diameter	4.91
992	111 mm diameter	7.33
993	111 mm diameter: energy saving	7.68
	for open luminaires: G4/GY6.35 cap:	
994	not exceeding 75 W	2.40
995	75 to 100 W	3.61
		Rate B
		1
		£
	Each	
996	Tungsten halogen lamp: any description: any rating	3.04

Y73 LUMINAIRES AND LAMPS

METAL HALIDE LAMPS

Specification

Standard:

Comply with BS EN 61167: Specification for metal halide lamps.

Each

Rate A						Rate B
1	2	3	4	5	6	7
Quartz arc tube			Ceramic arc tube			Any type
Single ended		Double ended	Single ended		Double ended	
Tubular	Elliptical		Tubular	Elliptical		
£	£	£	£	£	£	£

Metal halide lamp:

compact

997	35 W: GES	-	-	-	86.11	-	-	3.04
998	70 W: GES	38.40	-	30.44	86.11	-	42.61	3.64
999	150 W: GES	39.33	-	30.44	-	-	42.61	4.56
1000	250 W: GES	-	-	36.53	-	-	50.10	5.77
1001	400 W: GES	-	-	57.60	-	-	-	8.20

standard

1002	35 W: GES	-	-	-	43.78	-	-	3.04
1003	70 W: GES	41.69	38.95	-	43.78	54.54	-	3.64
1004	100 W: GES	43.78	40.90	-	-	57.26	-	4.56
1005	150 W: GES	46.91	43.83	-	51.03	61.35	-	5.77
1006	250 W: GES	50.56	47.24	-	47.24	49.60	-	7.29
1007	400 W: GES	64.47	68.67	-	-	-	-	9.11
1008	1000 W: GES	138.29	168.49	148.52	-	-	-	15.19
1009	2000 W: GES	208.41	-	199.66	-	-	-	18.22
1010	3500 W: GES	274.65	-	-	-	-	-	21.26

Y73 LUMINAIRES AND LAMPS

HIGH PRESSURE SODIUM VAPOUR LAMPS

Specification

Standard:

Comply with BS EN 60662: Specification for high-pressure sodium vapour lamps.

Item

Y73

Each

Sodium vapour lamp: high pressure

elliptical bulb

		Rate A				Rate B
		1	2	3	4	5
		Elliptical				Any type
		Standard	Increased life	Improved colour	Retrofit Mercury	
		£	£	£	£	£
1011	50 W: ES	31.85	36.37	-	-	3.04
1012	70 W: ES	31.85	36.37	-	-	3.34
1013	100 W: ES	33.71	42.18	-	-	3.64
1014	150 W: GES	38.81	44.29	45.40	28.55	4.56
1015	250 W: GES	53.06	60.56	59.65	56.62	5.16
1016	400 W: GES	68.22	77.87	79.66	68.68	7.59
1017	600 W: GES	105.44	-	-	-	9.11
1018	1000 W: GES	117.16	-	-	-	13.67

Each

tubular or double-ended: clear bulb

		Rate A					Rate B
		1	2	3	4	5	6
		Tubular				Double ended	Any type
		Standard	Increased life	Mercury free	Improved colour		
		£	£	£	£	£	£
1019	50 W: ES	31.85	33.48	-	-	-	3.04
1020	70 W: ES	31.85	38.64	-	-	49.82	3.34
1021	100 W: ES	33.87	41.08	42.72	-	-	3.64
1022	150 W: GES	38.81	47.06	42.27	45.40	49.82	4.56
1023	250 W: GES	53.06	64.35	57.82	59.65	66.85	5.16
1024	400 W: GES	68.22	82.73	74.33	79.66	76.87	7.59
1025	600 W: GES	95.84	106.55	-	-	-	9.11
1026	1000 W: GES	117.16	-	-	-	-	13.67

Y73 LUMINAIRES AND LAMPS

LOW PRESSURE SODIUM VAPOUR LAMPS

Specification

Standard:

Comply with BS EN 60192: Low pressure sodium vapour lamps. Performance specification.

Item

Y73

Each

Sodium vapour lamp: low pressure

type SOX:

1027	18 W: BC	28.67	-	3.04
1028	35 W: BC	26.48	35.05	3.64
1029	55 W: BC	30.94	40.93	4.25
1030	90 W: BC	37.57	49.71	4.86
1031	135 W: BC	48.60	64.34	5.47
1032	180 W: BC	80.25	-	6.38

Rate A		Rate B
1	2	3
Increased		Any
Standard	life	type
£	£	£

Each

type SOX-E

1033	18 W: BC	34.14	3.04
1034	26 W: BC	36.14	3.64
1035	36 W: BC	42.17	4.25
1036	66 W: BC	51.20	4.86
1037	91 W: BC	66.26	5.47
1038	131 W: BC	105.41	6.38

Rate A	Rate B
1	2
£	£

Y73 LUMINAIRES AND LAMPS

LAMPS FOR SPECIAL PURPOSES

Item		Rate A			Rate B
		1	2	3	4
		Bulb		PAR	Any type
		Soft frosted	Clear hard	Clear or red	
Y73	Each	£	£	£	£
	Heat lamp: infra red				
1039	100 W	-	-	7.05	6.07
1040	150 W	5.08	-	-	6.68
1041	175 W	-	-	8.36	7.29
1042	250 W	9.58	11.77	-	7.90
1043	300 W	-	12.91	-	8.50
1044	375 W	-	13.09	-	9.11

		Rate A	Rate B
		1	2
		£	£
	Each		
	Heat lamp: quartz		
1045	not exceeding 0.50 kW	23.10	12.15
1046	0.50 to 1.00 kW	34.20	13.67
1047	1.00 to 3.00 kW	62.93	15.19

1048 to 1100 Not used

TRANSFORMERS FOR LV LUMINAIRES:

GENERALLY

Specification

Standard:

Comply with:

BS EN 60742: Isolating transformers and safety isolating transformers. Requirements.

BS EN 61347-2-2: Lamp controlgear. Particular requirements for d.c or a.c. supplied electronic step-down convertors for filament lamps.

BS EN 61047: D.C. or A.C. supplied electronic step-down convertors for filament lamps.

BS EN 61000: Electromagnetic compatibility (EMC).

BS EN 61000-3: Limits.

BS EN 61000-3-2: Limits for harmonic current emissions (equipment input current less than or equal to 16 A per phase).

BS EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

Dimming:

Provide manufacturers written assurance dimming transformer is compatible.

Y73 LUMINAIRES AND LAMPS

TRANSFORMERS

Item		Rate A							Rate B
		1	2	3	4	5	6	7	8
		Rating in VA							Any
		50	100	150	200	250	300	400	type
Y73	Each	£	£	£	£	£	£	£	£
	Transformer: wound: maintenance-free: input and output terminals or leads: cut-out on the primary (mains) side and resettable overload protection								
1101	single output	12.67	32.72	37.02	42.67	50.06	56.92	68.48	22.78
1102	multiple output	-	-	-	42.67	-	53.69	-	25.82

		Rate A				Rate B
		1	2	3	4	5
		Rating in VA				Any
		20 to 60	35 to 105	50 to 150	100 to 210	type
	Each	£	£	£	£	£
1103	Transformer: electronic: enclosed: input and output terminals or leads: dimmable: short-circuit and thermal overload protection: loop-in, loop-out primary side wiring terminals and multiple secondary side wiring terminals	15.66	20.09	32.72	35.55	18.22

		Rate A							Rate B
		1	2	3	4	5	6	7	8
		Rating in VA							Any
		100	150	200	250	300	400	500	type
	Each	£	£	£	£	£	£	£	£
	Transformer: laminated: enclosed: fusing on the primary (mains) side:								
1104	thermal cut-out and terminal block on the secondary (12V) side . . .	35.03	42.29	48.47	54.65	60.82	84.84	88.65	22.78
1105	thermal cut-out and individual fusing on the secondary (12V) side . . .	39.15	43.86	49.45	55.63	62.89	87.71	91.66	25.82

LIGHTING COLUMNS

GENERALLY

Specification

Standard:

Comply with:

BS EN 40: Lighting columns.

BS EN 40-1: Definitions and terms

BS EN 40-2: General requirements and dimensions.

BS EN 40-3: Design and verification.

BS EN 40-5: Requirements for steel lighting columns.

BS EN 40-6: Requirements for aluminium lighting columns.

BS EN 40-7: Requirements for fibre reinforced polymer composite lighting columns.

Y73 LUMINAIRES AND LAMPS

LIGHTING COLUMNS - *continued*

ALUMINIUM

Item	Each	Rate A						Rate B
		1	2	3	4	5	6	7
		Base diameter						Any type
		135 mm		145 mm		177 mm		
		Top spigot diameter						
60 mm	76 mm	60 mm	76 mm	60 mm	76 mm			
Y73		£	£	£	£	£	£	
Aluminium: tubular hollow column: corrosion resistant aluminium alloy: brushed finish: root section coated internally and externally: light centre height: stepped column:								
1106	4.00 m	416.06	338.15	544.56	519.26	-	-	53.15
1107	5.00 m	-	-	544.56	433.81	-	-	60.74
1108	6.00 m	-	-	624.63	514.15	-	-	68.34
tapered column:								
1109	4.00 m	518.40	403.58	-	-	-	-	53.15
1110	5.00 m	464.03	390.07	-	447.45	-	-	60.74
1111	6.00 m	485.04	407.93	-	449.94	-	-	68.34
1112	8.00 m	-	-	-	-	849.19	728.47	75.93
1113	10.00 m	-	-	-	-	975.72	-	83.52
decorative stepped amenity lighting column:								
1114	3.00 m	-	532.24	-	-	-	-	45.56
1115	4.00 m	601.50	454.37	-	-	-	-	53.15
1116	5.00 m	658.21	551.31	-	-	-	-	60.74

Rate A	Rate B
1	2
£	£

Stepped or tapered aluminium column: tubular outreach: for side mounted lantern:

1117	450 mm projection	99.30	33.41
1118	750 mm projection	186.17	36.45
1119	1250 mm projection	310.29	39.48
1120	2000 mm projection	496.45	42.52

Rate A			Rate B
1	2	3	4
To column single	twin	To wall single	Any type
£	£	£	£

Each

Decorative stepped amenity lighting column: bracket arm
and mounting spigot or wall plate

1121	parallel bracket arm: 500 mm projection	459.13	820.18	411.96	33.41
1122	reflex bracket arm: 600 mm projection	529.48	960.89	482.31	36.45
1123	large curve bracket arm: 600 mm projection	560.78	1023.46	976.30	39.48

Y73 LUMINAIRES AND LAMPS

LIGHTING COLUMNS - *continued*

STEEL

Item		Rate A	Rate B
		1	2
Y73	Each	£	£
	Steel: tubular hollow column: 76 mm diameter shaft welded to 140 mm diameter base unit:		
1124	with spigot for post-top mounted lantern: light centre height 5.00 m	103.83	68.34
1125	with steel outreach: for side entry lantern at 5° to 15° to horizontal: projection not exceeding 500 mm: light centre height 5.00 m	119.51	68.34
	Steel: tapered hollow column:		
	with spigot for post-top mounted lantern: light centre height:		
1126	not exceeding 4.00 m	147.77	63.78
1127	4.00 to 5.00 m	157.37	68.34
1128	5.00 to 6.00 m	178.35	82.00
1129	6.00 to 8.00 m: standard duty	325.05	100.23
1130	6.00 to 8.00 m: heavy duty	464.50	35.08
1131	8.00 to 10.00 m: standard duty	483.25	123.00
1132	8.00 to 10.00 m: heavy duty	694.98	35.08
	with tubular steel outreach: for side entry lantern at 5° to 15° to horizontal:		
	not exceeding 500 mm projection: light centre height:		
1133	not exceeding 4.00 m	151.46	63.78
1134	4.00 to 5.00 m	160.67	68.34
1135	5.00 to 6.00 m	184.86	82.00
1136	1000 m projection: light centre height not exceeding 8.00 m	226.10	100.23
1137	1500 m projection: light centre height not exceeding 8.00 m	230.16	100.23
1138	2000 m projection: light centre height not exceeding 8.00 m	233.88	100.23
	with octagonal section tapered outreach: for side entry lantern at 15° to horizontal:		
	not exceeding 500 m projection: light centre height:		
1139	5.00 m	112.61	68.34
1140	6.00 m	144.60	82.00
	1000 mm projection: light centre height:		
1141	5.00 m	118.19	68.34
1142	6.00 m	151.02	82.00
1143	8.00 m	188.23	100.23
	1500 mm projection: light centre height:		
1144	6.00 m	384.93	82.00
1145	8.00 m	396.95	100.23
1146	2000 mm projection: light centre height 8.00 m	389.60	100.23
1147	Extra for mild steel base plate: 400 x 400 x 6 mm thick	93.51	-

1148 to 1200 Not used

PHOTO-CELLS

Specification

Polycarbonate construction.
Photodiode sensor for switching accuracy.
Switch on light level: 70Lux.

Part night: switches on at dusk, off at approximately midnight GMT, on again at approximately 05.30 GMT until dawn.

Method of Measurement

Measure where installing or replacing photocells to existing equipment.

Definitions

Cell only: less bracket, gasket, socket and fixings.

Kit: photocell, socket, gasket, wall mounting bracket and fixings.

Integral photocells:

Are included elsewhere within other items.

Rate A				Rate B	
1	2	3	4	5	6
Photocell only		Photocell kit		Photocell	
with surge suppression		with surge suppression		Cell only	Kit
£	£	£	£	£	£

Item
Y73

Each

Photocell: electronic circuit design:

with electromagnetic load switch:
dusk to dawn control

1201	day and night consumption not exceeding 0.50W	23.99	26.09	27.22	30.74	7.59	12.15
1202	miniature: 20mm sensor mounting stud	-	20.72	-	-	7.59	-
1203	remote miniature: 20mm remote sensor: for applications with limited space	-	22.40	-	-	7.59	-
1204	day and night consumption not exceeding 0.25W	-	44.45	-	50.57	7.59	12.15
1205	with semi-conductor load switch: part night control	-	55.46	-	61.00	7.59	12.15

Y74: Accessories for electrical services

GENERALLY

Specification

Fixing:

Align accessories horizontally and vertically. Where accessories are grouped, mount horizontally in line and parallel to each other and equidistant. Fix cover plates to boxes with brass fixing screws.

Mounting heights:

Heights are from finished floor level to the centre of the accessory, except in the case of worktops when the measurement shall be from the worktop surface. Where specified height coincides with top of tiling, leave a clear gap of 50mm above tiling. Mount equipment below a worktop 100mm below underside of worktop.

Accessory	Location	Height mm
Lighting switch		1350
Socket outlet	General	200
	Kitchen	1350
	Above worktop	200
	For disabled use	1000
Shaver socket outlet		1350
Fused connection unit	Radiant heater wall	1800
	focal point	200
	Tubular heater	200
	Clock	1900
Fused connection unit	General	200
	Above worktop	200
Cooker control unit		1350
	connection unit	600
Safety isolating transformer		1350
Room thermostat		1600
Telephone outlet		200
Radio/TV outlet		200
Push button		1350
Fire alarm manual call point		1350
Bell or buzzer		1900

In car parks and garages comply with appropriate petroleum regulation for mounting heights of socket outlets.

Protection:

Provide masking covers for surface mounted accessories to protect surface from paint. Where accessories are flush mounted install front plate after painting is finished.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - *multiply by 0.25.*

Rate E: For re-use - *multiply by 0.70.*

Definition of Terms

Weatherproof: To degree of protection directed.

Metal plate: Manufacturer's standard plate with any decorative finish.

Accessory box: Standard box for mounting item specified, complete with suitable lugs: provision for earthing: surface or flush.

Medium protection: Protective coating against corrosion - eg stoved enamel.

Heavy protection: Protective coating against corrosion - eg galvanised or sheradised.

GENERALLY - *continued*

Method of Measurement

Measure the following separately:

- i. Conduit connections between equipment.
- ii. Terminations and glands for cables.
- iii. Connecting cable ends and tails into existing equipment or that fixed by others.

The following are included elsewhere within other Items:

- i. Baring conductors.
- ii. Forming entries in equipment for cables.
- iii. Bonding links from cable armouring/sheath and/or conduit/trunking to equipment earth terminals.

Rates for the following include

Generally:

For connecting (Rate B) and disconnecting (Rate D and E) all cable ends and tails.

For supplying (Rate A) and installing (Rate B) earth terminals.

For supplying components (Rate A) for and fixing (Rate B) all bonding links between accessories and mounting boxes.

For supplying with (Rate A) or forming (Rate B) all necessary entries.

For supplying (Rate A) medium protection on steel boxes and heavy protection on cast metal boxes.

White moulded, metal plate or polished brass:
For surface or flush mounting. Measure mounting boxes separately.

Metalclad:
For surface mounting including mounting boxes.

LIGHTING SWITCHES

GENERALLY

Specification

Standard:

Comply with:

BS EN 60669: Switches for households and similar fixed electrical installations.

BS 4662: Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

BS EN 61058-1: Switches for appliances. General requirements.

BS EN 61058-2-1: Particular requirements. Cord switches.

BS EN 61058-2-4: Switches for appliances. Particular requirements for independently mounted switches.

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: GENERAL PURPOSE

Item		Rate A				Rate B
		1	2	3	4	5
		White moulded £	Metal plate £	Metalclad £	Polished brass £	Any type £
Y74	<i>Each</i>					
	Plate switch:					
	5 to 10 A: single pole					
	one gang:					
001	1 way	1.53	6.39	6.25	11.98	6.99
002	2 way	1.88	6.39	6.25	11.98	8.20
003	2 way: marked "PRESS"	4.70	-	-	-	8.20
004	2 way: bell symbol	5.94	-	-	-	8.20
005	intermediate switch	8.68	13.20	-	18.79	9.42
006	two gang: 2 way	3.20	9.68	10.29	14.56	10.63
007	three gang: 2 way	7.34	18.08	13.92	15.60	12.15
008	four gang: 2 way	16.01	-	-	-	14.58
009	six gang: 2 way	33.33	-	-	-	16.10
	wide rocker:					
010	one gang: 2 way	4.82	10.08	11.17	14.99	8.20
011	two gang: 2 way	9.07	14.10	14.73	18.95	10.63
012	three gang: 2 way	16.00	-	-	-	12.15
013	intermediate switch	15.18	-	-	-	14.58
	10 A: three pole: fan isolator					
014	without switch lock	9.87	16.42	18.73	37.53	16.70
015	with switch lock and padlock	15.18	5.94	22.94	-	17.31
	20 A: two-pole					
	one gang:					
016	1 way	8.33	11.23	9.45	-	13.36
017	1 way: neon indicator	13.92	16.82	13.98	-	13.36
018	1 way: neon indicator: marked "WATER HEATER"	14.14	-	-	-	13.36
019	1 way: outlet for flexible cord	5.29	13.54	11.52	-	14.58
020	1 way: outlet for flexible cord: neon indicator	6.57	19.13	16.05	-	14.58
021	1 way: outlet for flexible cord: neon indicator: marked "WATER HEATER"	14.14	-	-	-	15.19
	two gang:					
022	1 or 2 way	19.19	-	-	-	16.70
023	1 or 2 way: neon indicator	14.21	-	-	-	16.70
024	32 A: two-pole: one gang: 1 way: neon	14.70	19.36	18.46	19.55	17.31

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: GENERAL PURPOSE - *continued*

Item		Rate A				Rate B
		1	2	3	4	5
		White moulded £	Metal plate £	Metalclad £	Polished brass £	Any type £
Y74	<i>Each</i>					
	Plate switch:					
	45 A: two-pole					
	one gang:					
025	1 way	13.29	21.47	-	-	17.31
026	1 way: neon indicator	13.85	25.06	23.55	20.25	17.31
027	1 way: neon indicator: marked "COOKER" or "SHOWER"	18.28	-	-	-	17.31
	Architrave switch:					
	5 to 10 A: single pole					
	one gang:					
028	1 way	3.07	-	-	-	6.99
029	2 way	3.41	-	-	-	8.20
030	intermediate switch	9.06	-	-	-	9.42
031	push switch: bell symbol or marked "PRESS" .	6.42	-	-	-	9.42
032	two gang: 2 way	8.74	-	-	-	10.93
	Dimmer switch: plate type: radio interference suppressor:					
	mains voltage					
033	one gang: 1 way: single: 250 W	16.99	13.02	-	-	8.20
034	one gang: 1 way: single: 500 W	22.68	17.36	-	-	8.20
035	one gang: 2 way: single: 250 W	22.98	17.59	-	21.17	8.20
036	one gang: 2 way: single: 500 W	27.41	24.78	-	28.63	8.20
037	one gang: 1 way: double: 250 W	25.51	19.54	-	21.75	10.63
038	one gang: 2 way: double: 250 W	41.49	25.86	-	29.89	10.63
039	two gang: 2 way: double: 500 W	72.62	45.27	-	52.30	10.63
040	two gang: 2 way: triple: 250 W	55.33	34.50	-	39.84	12.15
041	two gang: 2 way: quadruple: 250 W	76.48	-	-	-	13.36
	low voltage					
042	one gang: 2 way: single: 250 W	28.57	24.37	-	27.11	8.20
043	one gang: 2 way: single: 500 W	37.92	32.34	-	36.00	8.20
044	one gang: 2 way: double: 250 W	52.06	36.44	-	40.56	10.63
045	two gang: 2 way: double: 500 W	-	54.33	-	60.47	10.63
	Dolly operated switch:					
046	one gang: 2 way	-	24.58	-	27.98	12.15
047	two gang: 2 way	-	39.38	-	46.78	16.10
048	three gang: 2 way	-	60.40	-	71.75	20.05
049	four gang: 2 way	-	75.24	-	89.39	25.21
050	intermediate switch	-	32.87	-	39.05	16.10

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: GENERAL PURPOSE - *continued*

Item		Rate A		Rate B	
		1		2	
		£		£	
Y74	<i>Each</i>				
	Key switch: cylinder lock and two keys: flush mounted: stainless steel plate:				
	5 to 10 A:				
051	1-gang: single-pole: 1-way		63.39		10.93
052	2-gang: single-pole: 2-way		126.14		14.88
	20 A:				
053	1-gang: single-pole: 1-way		64.98		10.93
054	1-gang: single-pole: 2-way		65.89		13.36
055	1-gang: intermediate		70.95		13.36
056	2-gang: single-pole: 2-way		131.79		14.88

INTERIOR LIGHTING SWITCHES: GRID

		Rate A				Rate B	
		1	2	3	4	5	6
		Standard		Decorative		Any Type	
		5 to 10 A	20 A	5 to 10 A	20 A	5 to 10 A	20 A
		£	£	£	£	£	£
	<i>Each</i>						
	Switch:						
	single-pole:						
057	1 way	1.90	2.57	5.11	5.97	3.04	3.04
058	1 way: with window	-	3.62	-	-	-	3.04
059	2 way	2.49	3.34	5.61	6.64	4.25	4.25
060	2 way: with neon locator	-	5.46	-	-	-	4.25
	two-pole:						
061	1 way	3.25	3.76	7.69	8.69	5.47	5.47
062	1 way: with neon locator	-	4.32	-	-	-	5.47
063	1 way: with window	-	5.36	-	-	-	5.47
	Intermediate switch:						
064	two-pole: 1 way	-	6.27	-	10.93	-	5.47
	Key switch: two keys:						
065	single-pole: 2 way	-	6.17	-	-	-	4.25
066	two-pole: 1 way	-	5.78	-	-	-	3.04
	Push button switch:						
067	single-pole: 2 way	5.24	-	8.46	-	4.25	-
068	two-pole: 1 way	-	5.43	-	7.76	-	5.47

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: GRID - *continued*

Item		Rate A		Rate B
		1	2	3
		Standard	Decor-	Any
			-ative	type
Y74	<i>Each</i>	£	£	£
Grid mounting accessories:				
069	blanking insert	1.24	5.00	1.52
070	outlet for flexible cord	6.50	-	4.25
071	buzzer	13.86	-	3.04
072	indicator unit (pilot lamps)	6.87	-	3.04
073	fuse unit	7.27	-	4.25
074	dimmer switch: 2 way: 1 module	33.01	38.83	7.59
075	dimmer switch: 2 way: 2 module	35.79	41.85	7.59
076	outlet for TV co-axial	4.85	-	4.25
Grid for flush or surface mounting box: earth terminal:				
077	one gang: architrave	1.97	-	2.43
078	one gang	1.14	-	2.43
079	two gang	1.14	-	3.04
080	three gang	1.65	-	3.64
081	four gang	1.65	-	4.25
082	six gang	3.78	-	4.86

	<i>Each</i>	Rate A				Rate B
		1	2	3	4	5
		White	Metal	Metalclad	Polished	Any
		moulded	flush		brass	type
		£	£	£	£	£
Cover plate:						
083	one gang: architrave	-	5.10	-	-	1.21
084	one gang	1.04	4.77	1.68	11.36	1.21
085	two gang	1.04	4.77	1.69	11.36	1.37
086	three gang	2.51	9.13	3.08	17.85	1.67
087	four gang	2.56	9.13	3.22	17.85	1.82
088	six gang	4.56	16.24	7.46	41.56	2.43
089	eight gang	4.56	16.36	7.62	44.36	2.73
090	nine gang	-	20.79	11.21	-	2.89
091	twelve gang	7.90	20.49	11.66	47.73	3.49
092	eighteen gang	-	38.86	19.10	-	3.95
093	twenty four gang	-	48.13	25.56	-	5.01

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: GRID - *continued*

Item		Rate A				Rate B
		1	2	3	4	5
		Any type	White moulded	Metal	Metal-clad:	Any type
		Mounting:				
		flush	surface	surface	surface	
Y74	Each	£	£	£	£	£
Box for grid switches:						
094	one gang: architrave	2.27	-	-	-	4.25
095	one or two gang	1.56	1.33	2.90	1.53	4.25
096	three or four gang	2.68	2.52	4.36	2.49	5.47
097	six or eight gang	4.46	-	-	5.02	6.99
098	nine or twelve gang	6.40	-	-	6.91	8.20
099	eighteen gang	-	-	-	14.94	9.57
100	twenty four gang	-	-	-	21.24	10.93

INTERIOR LIGHTING SWITCHES: PULL CORD

		Rate A		Rate B
		1	2	3
		Mounting:		Any
		Surface	Flush	Type
Each		£	£	£
Switch: white moulded mounting block:				
5 to 10 A: single-pole:				
101	1 way	4.03	-	10.63
102	2 way	4.84	5.72	12.15
103	1-way: momentary switch action	8.28	-	12.15
15 A: two-pole:				
104	1 way	9.18	7.34	13.36
105	1 way: neon indicator	11.12	-	13.36
45 A: two-pole:				
106	1 way: neon indicator	15.44	11.64	16.10

INTERIOR LIGHTING SWITCHES: DOOR SWITCH

		Rate A	Rate B
		1	2
<i>Each</i>		£	£
Door switch: light duty: recessed: push type actuator: box			
107	insulated	5.84	13.36
108	metal	10.24	13.36

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INTERIOR LIGHTING SWITCHES: SPARKLESS

Item		Rate A		Rate B	
		1	2	1	2
Y74	Each	£	£	£	£
	Mercury switch: surface flush mounted: sealed glass tube: manufacturer's standard box: metal cover plate:				
	switch: not exceeding 15 A:				
109	1-gang: 2-way	49.74	13.67		
	switch: not exceeding 15 A: two-pole:				
110	1-gang: 1-way	49.74	15.19		
111	2-gang: 1-way	99.46	20.05		
	Mercury tube:				
112	13/15A	17.32	6.07		
113	30A	28.85	6.68		

EXTERIOR LIGHTING SWITCHES

	Each	Rate A			Rate B		
		1	2	3	4	5	6
		Single pole:		Two pole:	Single pole:		Two pole:
		1 way	2 way		1 way	2 way	
		£	£	£	£	£	£
	Switch: not exceeding 15 A:						
	surface mounted:						
	cast metal: IP44:						
114	one gang	24.56	25.59	28.32	13.06	14.43	15.79
115	two gang	42.58	43.60	46.33	17.01	18.22	19.74
116	three gang	60.59	61.61	64.34	17.62	18.83	20.05
117	four gang	78.61	79.62	82.35	22.78	23.99	25.51
	insulated: IP56:						
118	one gang	11.95	13.48	15.35	10.45	11.54	12.63
119	one gang: marked "BELL"	-	18.29	-	-	11.54	-
120	one gang: marked "PRESS"	-	19.18	-	-	11.54	-
121	two gang	15.36	14.84	17.45	13.61	14.58	15.79
122	three gang	30.39	34.26	39.18	14.09	15.06	16.04
123	four gang	40.52	45.68	52.26	18.22	19.19	20.41
	insulated: IP66:						
124	one gang	-	19.15	-	-	11.54	-
125	two gang	-	35.37	-	-	14.58	-
	flush mounted:						
	cast metal: IP44:						
126	one gang	27.51	28.65	34.26	12.15	13.67	15.19

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

EXTERIOR LIGHTING SWITCHES - *continued*

Item		Rate A			Rate B		
		1	2	3	4	5	6
		Single pole:		Two pole:	Single pole:		Two pole:
		1 way	2 way		1 way	2 way	
Y74	<i>Each</i>	£	£	£	£	£	£
	Switch: 20 A: surface mounted:						
127	one gang: marked "PRESS"	-	-	21.80	-	-	12.63
128	one gang: secret keyswitch	-	26.64	25.18	-	11.54	12.63
129	one gang: switch and secret keyswitch	-	32.20	-	-	11.54	-
130	two gang: modular grid (module measured separately)	16.97	-	-	10.45	-	-

TIME SWITCHES

Specification

Standard:

Comply with:

BS EN 60730: Automatic electrical controls for household and similar use.

BS EN 60730-2-7: Timers and time switches.

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
	Timeswitch/programmer: domestic		
131	24 hour: timeswitch	55.07	14.06
132	7 day: timeswitch	63.76	14.06
133	24 hour: programmer: common timings	60.99	14.06
134	24 hour: programmer: independent timings	69.59	14.06
135	5 day/2 day: programmer: independent timings	71.88	14.06
136	7 day: programmer: independent timings	81.54	14.06
	Timeswitch/programmer: commercial		
	24 hour		
137	digital: one channel	85.62	14.06
138	analogue	67.62	14.06
139	analogue: 100 hour battery reserve	96.09	14.06
	7 day		
140	digital: one channel	93.50	14.06
141	digital: two channel	105.62	14.06
142	analogue	73.84	14.06
143	analogue: 100 hour battery reserve	104.12	14.06

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

TIME SWITCHES - *continued*

Item		Rate A		Rate B	
		1	2	1	2
Y74	<i>Each</i>	£	£	£	£
	Hour meter				
	cyclometer type				
144	non-resettable	49.51	16.88		
145	non-resettable: miniature	67.11	16.88		
146	resettable	63.06	16.88		
	Remote setting unit for use with controller				
147	panel mounted	26.77	12.66		
148	wall mounted.	26.77	14.80		

FUSE CONNECTION UNITS

Notes

Fuse connection units in this Section are generally for domestic situations. See Y71 LV switch-gear and distribution for further applications.

Specification

Standard:

Comply with:

BS 1363-4: 13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A fused connection units switched and unswitched.

BS 4662: Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

		Rate A				Rate B
		1	2	3	4	5
		White moulded	Metal flush	Metalclad	Polished brass	Any type
		£	£	£	£	£
	<i>Each</i>					
	Connection unit:					
149	unswitched	-	12.09	8.05	-	12.15
150	unswitched: flex outlet	6.33	-	10.06	-	12.15
151	unswitched: neon indicator	-	12.97	9.53	-	12.15
152	unswitched: flex outlet: neon indicator	12.75	19.83	11.01	-	12.15
153	two-pole: switched	7.51	12.21	9.54	-	12.15
154	two-pole: switched: flex outlet	6.73	15.81	10.31	-	12.15
155	two-pole: switched: neon indicator	10.52	15.87	12.65	16.69	12.15
156	two-pole: switched: flex outlet: neon indicator	9.39	20.01	11.98	17.65	12.15

157 to 200 Not used

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

SOCKET OUTLETS TO BS 1363 AND BS EN 60529

Item		Rate A		Rate B
		1	2	3
		IP56	IP66	Any type
		£	£	£
Y74	<i>Each</i>			
	Socket outlet: weatherproof: 13 A: manufacturer's standard weatherproof box: plug:			
	1-gang:			
216	unswitched	19.79	22.41	13.67
217	switched	24.04	42.26	13.67
218	electronic timer module	54.40	-	13.67
219	RCD (40A 30mA) protected	67.41	94.44	13.67
	2-gang:			
220	unswitched	34.20	47.90	13.67
221	switched	38.42	-	13.67
222	switched: neon	40.57	-	13.67
223	key operated	44.86	-	13.67
224	RCD (40A 30mA) protected	75.52	116.21	13.67
225	plug only	17.09	17.09	4.56

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1

		Rate A							Rate B
		1	2	3	4	5	6	7	8
		Pin configuration:							Any type
		two-pole and earth			three-pole and earth			three-pole, neutral and earth	
		16 A	32 A	63 A	16 A	32 A	16 A	32 A	
	<i>Each</i>	£	£	£	£	£	£	£	£
	Industrial socket outlets:								
	100 to 130 V								
	splashproof: IP44								
226	plug	2.68	9.62	-	10.69	14.37	11.40	17.28	2.73
227	connector	4.06	12.73	-	12.78	18.55	16.65	21.11	4.56
	socket outlet								
228	angled: surface	5.83	14.60	-	13.92	26.14	19.32	25.26	12.15
229	angled: loop-in: surface	41.37	43.83	-	-	-	-	-	12.15
230	straight: panel mounted	6.91	11.97	-	12.98	19.37	18.18	-	12.15
231	angled: panel mounted	8.32	12.57	-	-	-	-	-	12.15

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item		Rate A							Rate B
		1	2	3	4	5	6	7	8
		Pin configuration:							Any type
		two-pole and earth 16 A	32 A	63 A	three-pole and earth 16 A	32 A	three-pole, neutral and earth 16 A	32 A	
Y74	<i>Each</i>	£	£	£	£	£	£	£	£
Industrial socket outlets:									
100 to 130 V - <i>continued</i>									
splashproof: IP44									
switchsocket outlet: surface									
232	angled	53.76	-	-	-	-	-	-	13.67
233	angled: lockable	-	-	-	200.75	237.13	211.78	263.25	13.67
234	straight: top entry: lockable . .	89.03	120.40	-	-	-	-	-	13.67
235	angled: conduit: lockable	98.39	139.43	-	-	-	-	-	13.67
236	appliance inlet: surface	12.18	20.74	-	-	-	29.99	-	13.67
combined unit									
socket outlet with RCD									
237	one socket	125.45	-	-	-	-	-	-	15.19
238	two sockets	243.19	-	-	-	-	-	-	15.79
239	three sockets	193.72	-	-	-	-	-	-	16.40
switchsocket outlet									
240	one socket	174.53	186.69	-	-	-	-	-	17.01
weatherproof: IP67									
241	plug	11.08	20.79	46.02	-	-	-	-	2.73
242	connector	16.66	28.62	48.90	-	-	-	-	4.56
socket outlet									
243	angled: loop-in: surface	71.03	62.46	-	-	-	-	-	12.15
244	angled: panel mounted	18.67	31.76	-	-	-	-	-	12.15
switchsocket outlet: surface									
245	angled	77.80	109.09	-	-	-	-	-	13.67
246	angled: lockable	-	-	255.10	-	-	-	-	13.67
247	appliance inlet: surface	21.93	34.20	51.61	-	-	-	-	13.67
combined unit									
socket outlet									
248	one socket with RCD	138.01	-	-	-	-	-	-	15.19
switchsocket outlet									
249	one socket with RCD	209.56	224.05	-	-	-	-	-	17.01

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item		Rate A								Rate B
		1	2	3	4	5	6	7	8	9
		Pin configuration:								Any type
		two-pole and earth 16 A	32 A	63 A	three-pole and earth 16 A	32 A	63 A	three-pole, neutral and earth 16 A	32 A	
Y74	Each	£	£	£	£	£	£	£	£	£
Industrial socket outlets:										
200 to 250 V										
splashproof: IP44										
250	plug	2.68	6.88	35.71	9.00	12.44	35.84	9.88	14.90	4.56
251	connector	4.43	11.93	43.35	12.78	17.03	35.59	14.91	21.11	6.07
socket outlet										
angled										
252	surface	5.83	9.26	48.52	12.21	21.64	55.28	14.37	22.57	12.45
253	loop-in: surface . . .	41.37	43.83	-	-	-	-	-	-	12.45
panel mounted										
254	straight	5.46	13.68	46.38	11.70	-	-	13.08	25.13	12.45
255	angled	6.24	11.24	35.43	13.64	-	-	16.14	24.78	12.45
switchsocket outlet:										
surface										
256	angled	52.44	-	-	66.38	-	-	-	-	14.27
257	angled: lockable	-	-	-	157.51	221.03	288.06	199.66	245.38	14.27
258	straight: lockable	77.49	102.65	-	-	-	-	-	-	14.27
259	angled: conduit entry: lockable	79.57	105.41	161.65	-	-	288.06	-	-	14.27
260	appliance inlet: surface	10.92	14.56	43.76	29.99	-	-	-	30.49	14.27
combined unit										
socket outlet:										
with RCD										
261	one socket	121.67	134.03	262.79	-	-	-	-	-	15.49
262	two sockets	242.50	255.56	-	-	-	-	-	-	16.10
263	three sockets	193.01	-	-	-	-	-	-	-	16.70
switchsocket outlet:										
with RCD: lockable										
264	one socket	171.66	203.56	-	-	-	-	-	-	17.31

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item	Y74	Each	Rate A				Rate B
			1	2	3	4	5
			Pin configuration				Any type
			two-pole and earth				
			16 A	32 A	63 A	125 A	
			£	£	£	£	£
Industrial socket outlets: 200 to 250 V - <i>continued</i>							
weatherproof: IP67							
265	plug		11.17	19.44	53.35	136.71	4.56
266	connector		16.46	26.35	56.06	167.78	6.07
socket outlet							
267	angled: surface		18.86	36.83	84.15	-	12.45
268	angled: loop-in: surface		59.16	62.46	-	276.45	12.45
269	straight: panel mounted		-	-	48.65	193.43	12.45
270	angled: panel mounted		18.67	27.80	46.84	-	12.45
switchsocket outlet: surface							
271	straight: top entry: lockable		77.58	109.09	-	639.07	14.27
272	angled: conduit entry: lockable		79.66	126.30	233.84	-	14.27
appliance inlet: surface							
273	angled: surface		-	-	89.19	259.50	14.27
274	straight: panel mounted		21.93	28.48	61.92	139.94	14.27
combined unit							
socket outlet							
275	one socket with RCD		133.84	140.41	-	-	15.49
276	one socket with RCD: lockable		209.45	244.29	-	-	16.10

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item		Rate A							Rate B
		1	2	3	4	5	6	7	8
		Pin configuration:							Any type
		two-pole and earth 16 A	three-pole and earth 16 A	32 A	63 A	three-pole, neutral and earth 16 A	32 A	63 A	
Y74	<i>Each</i>	£	£	£	£	£	£	£	£
Industrial socket outlets:									
380 to 415 V									
splashproof: IP44									
277	plug	10.34	6.38	9.60	31.03	6.07	7.91	30.54	5.77
278	connector	12.01	9.23	13.61	38.78	11.76	13.38	39.47	9.11
socket outlet									
279	angled: surface	13.87	9.20	13.29	43.54	8.83	11.10	46.01	14.58
280	angled: loop-in: surface	-	43.83	46.56	-	46.02	49.30	-	14.58
281	straight: panel mounted	-	9.49	12.74	40.26	12.39	17.26	39.73	14.58
282	angled: panel mounted	13.71	8.84	13.86	41.25	10.82	14.92	37.43	14.58
switchsocket outlet: surface									
283	angled	70.02	67.67	-	-	-	-	-	17.01
284	angled: lockable	-	123.68	163.34	242.61	127.78	141.62	234.40	17.01
285	straight: top entry: lockable	-	99.18	125.98	-	92.37	111.71	-	17.01
286	angled: conduit entry: lockable	-	123.68	163.34	242.61	127.78	141.62	234.40	17.01
287	appliance inlet: surface	-	12.62	18.34	-	17.56	18.15	60.85	17.01
combined unit									
socket outlet with RCD									
288	one socket	-	132.41	153.44	267.59	137.46	154.37	264.58	18.53
289	two sockets	-	301.40	308.54	-	299.64	327.51	-	19.13
switchsocket outlet with RCD									
290	one socket: lockable	-	185.77	218.09	-	187.13	230.45	-	19.74

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item		Rate A								Rate B
		1	2	3	4	5	6	7	8	9
		Pin configuration								Any type
		three-pole and earth				three-pole, neutral and earth				
		16 A	32 A	63 A	125 A	16 A	32 A	63 A	125 A	
Y74	Each	£	£	£	£	£	£	£	£	
Industrial socket outlets: 380 to 415 V - <i>continued</i>										
weatherproof: IP67										
291	plug	18.93	25.83	38.17	154.91	19.14	33.36	42.24	124.54	5.77
292	connector	20.46	32.93	48.66	180.39	25.26	31.21	50.63	182.63	9.11
socket outlet										
angled										
293	surface	43.84	47.02	88.75	-	34.52	47.02	46.01	-	14.58
294	loop-in: surface . . .	62.46	66.85	-	264.44	65.75	69.04	-	264.45	14.58
panel mounted										
295	straight	-	-	-	166.92	-	-	48.71	183.31	14.58
296	angled	20.47	32.36	48.00	-	25.03	31.55	45.12	-	14.58
switchsocket outlet:										
surface										
297	straight: lockable	118.97	126.72	-	658.84	110.90	118.73	-	618.20	17.01
298	angled: conduit entry: lockable	118.97	126.72	250.85	-	110.90	118.73	231.84	-	17.01
appliance inlet: surface										
299	angled: surface	-	-	96.27	-	-	-	90.89	264.16	17.01
300	straight: panel mounted	-	31.21	40.98	-	29.04	34.59	53.52	155.66	17.01
combined unit										
socket outlet:										
with RCD										
301	one socket	145.66	160.77	-	-	144.01	161.72	-	-	18.53
switchsocket outlet:										
with RCD										
302	one socket: lockable	226.25	252.74	-	-	248.54	273.58	-	-	20.35

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

INDUSTRIAL SOCKET OUTLETS TO BS EN 60309-1 - *continued*

Item		Rate A			Rate B	
		1	2	3	4	
		IP44		IP67		
		Pin configuration			Any type	
		three-pole and earth				
Y74	Each	16 A	32 A	63 A		
		£	£	£	£	
	Industrial socket outlets: 480 to 500 V					
303	plug	26.49	38.07	121.75	5.77	
304	connector	37.78	45.11	124.87	9.11	
305	socket outlet: angled: surface	35.71	47.49	-	14.58	
306	switchsocket outlet: angled: lockable: surface	197.40	262.45	233.86	17.01	
307	appliance inlet: surface	29.63	38.13	-	14.58	

		Rate A					Rate B
		1	2	3	4	5	6
		IP44					Any Type
		25 V		50 V		25/50 V	
		Pin configuration					
		two- pole 16 A	three- pole 16 A	two- pole 16 A	three- pole 16 A	two- pole 16 A	
		£	£	£	£	£	
Each							
Industrial socket outlets: extra low voltage 25 V							
308	plug	11.13	12.46	13.78	14.20	14.68	5.77
309	connector	15.18	16.75	16.58	18.27	19.18	9.11
socket outlet							
310	straight: surface	17.67	18.38	20.88	21.74	20.99	14.58
311	angled: panel mounted	12.36	16.00	13.49	17.45	17.68	14.58
312	appliance inlet: surface	20.88	21.74	-	-	-	14.58

COOKER CONTROL UNITS

Specification

Standard:

Comply with BS 4177: Cooker control units.

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

COOKER CONTROL UNITS - *continued*

Item		Rate A						Rate B
		1	2	3	4	5	6	7
		White moulded:		Metal plate	Metal-clad		Polished brass	Any type
		Mounting:						
		surface	flush	flush	surface	flush	flush	
Y74	Each	£	£	£	£	£	£	
	Cooker control unit: 45 A: box:							
313	one gang	-	16.86	-	-	-	13.36	
314	one gang: neon indicator	-	18.58	19.27	-	-	21.55	
315	two gang: vertical	-	18.58	-	-	-	13.36	
316	two gang: vertical: neon indicator	-	21.17	-	-	-	13.36	
317	13 A switched socket	25.57	18.76	-	-	-	17.01	
318	13 A switched socket: neon indicator	33.56	28.94	35.74	47.50	29.80	41.49	

CORD OUTLETS

Specification

Standard:

Comply with:

BS 5733: General requirements for electrical accessories.

BS 4662: Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

BS EN 61058-2-1: Cord switches.

BS EN 60799: Electrical accessories. Cord sets and interconnection cord sets.

		Rate A	Rate B
		1	2
		£	£
	<i>Each</i>		
319	Connector unit for cooker: terminal block: two-pole and earth: cover plate: box . .	5.24	12.15
	Fused clock connector: fuse link: white plastic:		
320	flush mounted: circular or square: box	11.28	7.90
321	surface mounted: pattress	12.30	12.15

		Rate A				Rate B
		1	2	3	4	5
		White moulded	Metal plate	Metalclad	Polished brass	Any type
		£	£	£	£	£
	<i>Each</i>					
322	Flex outlet plate: 1 gang: box	4.83	-	-	-	12.15
	Blanking plate:					
323	1 gang	1.39	5.01	1.73	8.96	0.91
324	2 gang	3.10	11.06	2.92	13.69	1.52

325 to 400 Not used

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

LOW VOLTAGE ISOLATING TRANSFORMER UNITS

Specification

Standard:

Comply with:

BS EN 61558: Safety of power transformers, power supply units and similar.

Rates for the following include

Transformers:

For rated output voltages of:

110 V between conductors and 55 V between conductors and earth; or

50 V between conductors and 25 V between conductors and earth; or

25 V between conductors and 25 V between conductors and earth.

For supplying (Rate A) one plug per socket.

Item		Rate	
		Rate A	Rate B
		1	2
		£	£
Y74	<i>Each</i>		
	Safety isolating transformer: integral socket: sheet metal enclosure: IP44: mounting lugs: protective fuses for input and output circuits: input 230/250 V: 50 Hz: single-phase: rated output:		
401	60 VA: one 5 A socket	94.14	16.10
402	120 VA: one 5 A socket	99.67	17.46
403	150 VA: one 5 A socket	103.75	18.83
404	150 VA: two 5 A sockets	136.53	18.83
405	250 VA: one 15 A socket	106.78	20.35
406	250 VA: two 5 A sockets	139.56	20.35
407	500 VA: one 15 A socket	139.37	27.18
408	500 VA: two 5 A sockets	155.28	27.18
409	750 VA: one 15 A socket	158.80	30.98
410	750 VA: one 15 A socket and one 5 A socket	167.08	30.98
411	1000 VA: two 15 A sockets	171.84	33.41
412	Safety isolating transformer: dual secondary windings: rated output 400 VA at 110 V and 100 VA at 50 V: two integral sockets, one 16 A at 110 V and one 5 A at 50 V: sheet metal enclosure: IP44: wall mounting lugs: terminals for two other outgoing circuits: input 230/250 V: 50 Hz: single- phase	164.73	29.76

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

BELL EQUIPMENT

Item		Rate A	Rate B
		1	2
Y74	<i>Each</i>	£	£
	Bell-push:		
	1-way: indoor: surface mounted: flat back:		
	plastic:		
413	circular or square	3.38	13.36
	metal:		
414	circular	11.13	12.15
415	square	8.88	12.15
	loose multiple desk pattern: suitable for flexible cord:		
416	1-way	15.17	5.47
417	2-way	22.36	6.68
418	3-way	29.69	7.90
419	4-way	38.10	9.11
420	metal: outdoor: weatherproof: surface mounted: 1-way:		
	circular or rectangular	6.67	13.36
	Bell:		
	4 or 8 V AC: 50 Hz		
421	gong 75mm diameter	7.21	16.10
	underdome type:		
422	gong 75mm diameter	7.43	16.10
423	gong 150mm diameter	18.05	16.10
	4, 8 or 12 V AC: 50 Hz: weatherproof:		
424	gong 150mm diameter	27.14	25.82
425	gong 200mm diameter	39.51	25.82
	Buzzer:		
426	4, 8 or 12 V AC: 50 Hz: insulated	5.46	13.36
	Bell transformer: indoor: input 240/250 V AC: 50 Hz: output 4, 8 or 12 V AC, 1 A:		
427	plastic	18.85	16.10
428	metal	64.24	16.10

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

SHAVER POINTS

Specification

Standard:

Comply with:

BS 4573: Two pin reversible plugs and shaver socket-outlets.

BS EN 61558: Safety of power transformers, power supply units and similar.

BS EN 61558-2-5: Particular requirements and tests for shavers, power supply units for shavers and shaver supply units.

BS 4662: Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

Marking:

Mark with input and output voltages and 'SHAVERS ONLY'.

Item

Y74

Each

Rate A			Rate B
1	2	3	4
White moulded	Metal plate	Polished brass	Any type
£	£	£	£

429	Shaver socket outlet: internally switched by plug insertion: dual voltage: 115 / 230 V output: flush	29.70	43.00	57.71	10.63
-----	---	-------	-------	-------	-------

JUNCTION BOXES

Each

Junction box: moulded: 250 V:

		Rate A	Rate B
		1	2
		£	£
430	20 A: four terminals: each terminal to accept three 1.5 mm ² or two 2.5 mm ² conductors	2.31	8.20
431	30 A: three terminals: each terminal to accept four 1.5 mm ² or three 2.5 mm ² conductors	3.19	9.42
432	20 A: six terminals: each terminal to accept three 1.5 mm ² or two 2.5 mm ² conductors	3.31	10.63

Y74 ACCESSORIES FOR ELECTRICAL SERVICES

ACCESSORY MOUNTING BOXES

Specification

Standard:

Comply with BS 4662: Boxes for flush mounting of electrical accessories. Requirements, test methods and dimensions.

Item
Y74

Each

Box

		Rate A	1	2	3	4	Rate B
			Steel flush box	Steel surface box	Dry lining plastic box	Moulded surface box	Any Type
			£	£	£	£	£
433	75 x 75 x 16 mm	1.38	-	-	-	1.29	4.25
434	75 x 75 x 25 mm	1.24	-	-	-	1.17	4.25
435	75 x 75 x 35 mm	1.57	3.27	1.53	1.49	4.25	
436	75 x 75 x 47 mm	2.21	4.61	2.16	2.09	4.25	
437	75 x 135 x 16 mm	1.81	3.76	1.76	1.70	4.86	
438	75 x 135 x 25 mm	1.64	-	-	1.55	4.86	
439	75 x 135 x 35 mm	1.92	4.00	3.02	1.81	4.86	
440	75 x 135 x 47 mm	3.69	7.69	3.61	3.48	4.86	

Each

Box for:

architrave switch:

441	surface mounted	-	-	1.78	4.99	4.25
442	flush mounted	1.01	2.14	-	-	4.25

45 A two-pole switch:

443	surface mounted	3.55	-	4.94	-	5.47
444	flush mounted	2.86	-	-	-	5.47

cooker control unit:

445	surface mounted	9.38	-	-	-	5.47
446	flush mounted	7.55	-	-	-	5.47

weatherproof socket outlet

447	surface mounted	6.16	9.26	-	-	7.59
448	flush mounted	7.88	10.87	-	-	7.59

449 Galvanised metal boxes: pay for at the foregoing 'A' Rates *multiplied by 1.05*.

Y81: Testing and commissioning of electrical services

GENERALLY

Specification

Standard:

Comply with BS 7671 Requirements for Electrical Installations (the IET Wiring Regulations), IET Guidance Note 3 Inspection & Testing and all other British Standards current at the time of the execution of the work, as appropriate.

Definition of terms

Testing:

Using the appropriate equipment to prove the installation is safe and complies with the stated requirements and reporting findings.

Checking:

Thoroughly examining the installation, equipment and apparatus for deterioration and damage, to ascertain whether it is in satisfactory condition for continued service in accordance with the stated requirements and reporting findings.

Fixed appliance:

A heavy electrical appliance (e.g. refrigerator, cooker, storage heater) which remains static but may, for convenience, be connected by flexible cable and plug to a socket outlet.

Protective conductor:

Cable/core used for some measures of protection against electric shock and intended for connecting together any of the following:

- i. Exposed conductive parts.
- ii. Extraneous conductive parts.
- iii. The main earth terminal
- iv. The earthed point source, or an artificial neutral.

Notes

Items in this Section are intended to apply to testing and inspection work as ordered to existing installations and such work as ordered to new installations which is not encompassed within the basic testing and inspection requirements included under 'Rates for the following include' - 'Rate B' in the 'General Directions'.

Standard Test Voltages: are detailed on page 378.

Rates for the following include

Generally:

For isolating by disconnection and re-connecting whole or parts of electrical systems as appropriate including ensuring that existing installations (where affected but not isolated) continue to function during the execution of the works.

For all necessary disconnections including those for luminaires, equipment and appliances and re-connections.

For reporting findings as directed.

For removal and replacement of lamps.

For immediately reporting dangerous or potentially dangerous situations to the PM.

For all necessary dismantling and re-assembling or removal and replacement of any item.

For providing power if required for testing where supply is not connected.

GENERALLY - *continued***Rates for the following include - *continued****Generally: - continued*

For maintaining log sheets as required.

For making adjustments, tightening loose connections, supplying and fixing sundry fixings etc. as necessary.

Testing:

For precautions necessary to avoid damage.

For testing with supply connected or disconnected as appropriate.

For providing all testing equipment necessary.

Checking:

For examining for signs of damage and deterioration to components and insulation.

For examining connections and contacts for looseness and signs of pitting, heating or corrosion.

For examining for correct rating and satisfactory operation including that of controls, fuses, circuit breakers, contactors, relays, instruments, indicators, meters, alarms, test devices, trip switches, emergency stop switches/push buttons, limit switches or the like.

For examining effectiveness of fixings, security and sealing on doors/panels and integrity of locks/seals as appropriate.

For examining to ensure that safety guards/cowls are effective and not fouled.

Inspection:

For examining to ensure that no unauthorised modifications have been made to items.

For examining to ensure that items are properly labelled and identified.

STANDARD TEST VOLTAGES (earthed Cables)			
Phase to phase working voltage	Belted cables		Single-core, SL and screened cables
	Between conductors	Between any conductor and sheath	
	Test voltage		
1100	3000	3000	3000
3300	10000	7500	7500
6600	20000	15000	15000
11000	36000	35000	25000
22000	-	-	45000
33000	-	-	66000

Notes to Table

Test between conductors and between each conductor and sheath after installation: Direct Current for a period of five minutes.

Unearthed cables up to 11 kV: the conductor/conductor and conductor/earth test are the same as earthed-type conductor/conductor tests.

Y81 TESTING AND COMMISSIONING

TESTING

EARTH ELECTRODE RESISTANCE TESTING (BY MEASUREMENT)

Item		Rate C
		1
Y81	Each	£
001	Testing earth electrode resistance to earth of single electrode or multi electrode group measured as one: installation disconnected	106.30
	Testing resistance to earth of an installation with all services bonded and earth electrodes connected:	
002	measured at a single point or earthing connection	106.30
003	measured at random points or earthing connections (not exceeding 20)	139.71
004	Testing resistance to earth of neutral-earth point of a system: earth electrode resistance only OR earth electrode resistance with HV metalwork earthing system connected as applicable OR earth electrode resistance with all LV cable sheaths armouring and or PEN conductors connected HV metalwork earthing system connected as applicable	139.71

CONTINUITY TESTING (BY MEASUREMENT)

Rates for the following include

Generally:

For testing by measurement over all joints between source and outlet or point.

		Rate C
		1
	Each	£
	Testing continuity by measuring resistance of:	
005	all conductors of ring circuit - <i>per circuit</i>	6.99
006	all conductors of a multi core cable - <i>per conductor</i>	2.43
	circuit protective conductor path provided by:	
007	armouring of cable, sheath of MICC cable, metal trunking or conduit - <i>per circuit</i>	6.99
008	insulated wiring - <i>per conductor</i>	4.56
009	equipotential bonding conductor between installation earth and associated metalwork - <i>per conductor</i>	9.11

Y81 TESTING AND COMMISSIONING

INSULATION RESISTANCE TESTING (BY MEASUREMENT)

Rates for the following include

Generally:

For measuring insulation resistance between

- i. earth and all non-earthed conductors connected together.
- ii. neutral conductor and all non-earthed conductors connected together.

iii. red and blue phase conductors.

iv. red and yellow phase conductors.

v. yellow and blue phase conductors.

vi. positive and negative on DC circuit.

Item		Rate C		
		1	2	3
		DC	Single-phase and neutral: including protective conductor	Three-phase or three-phase and neutral including protective conductor
Y81	Each	£	£	£
	Testing insulation resistance on:			
010	final circuit: any type - <i>per circuit</i>	4.56	4.56	11.54
011	main or sub-main cable - <i>per cable</i>	-	6.99	17.31

		Rate C	
		1	
		£	
	Each		
	Testing insulation resistance on:		
012	fixed appliance: any type		6.99
013	single-phase motor: any type		6.99
014	three-phase motor: any type		13.06

EARTH LOOP IMPEDANCE TESTING (BY MEASUREMENT)

		Rate C
		1
		£
	Each	
	Testing impedance:	
015	external to installation	26.42
016	at distribution board, bus-bar chamber or switch fuse	21.26
017	at socket outlet circuit	13.06
018	at fixed appliance or lighting circuit	15.79
019	at isolating switch or control device for fixed appliance	15.79

Y81 TESTING AND COMMISSIONING

POLARITY TESTING (BY MEASUREMENT)

		Rate C
		1
		£
Item		
Y81	<i>Each</i>	
020	Testing polarity of ES type lampholder, socket outlet, switched socket outlet, switched fused connection unit or single-phase fixed appliance to ensure that line conductor is correctly connected: re-connecting as necessary	4.56
021	Testing connections of three-phase equipment for phase rotation: re-connecting as necessary	5.16

PROSPECTIVE SHORT CURRENT TESTING (BY MEASUREMENT)

		Rate C
		1
		£
	<i>Each</i>	
022	Confirming short circuit current at point of supply	26.42

FAULT SIMULATION TESTING (BY MEASUREMENT)

Rates for the following include

Generally:
For operating and checking internal test device for effectiveness.

Note:

Tests shall be independent of any test facility incorporated in the device.

		Rate C
		1
		£
	<i>Each</i>	
023	Testing tripping of residual current circuit breaker by simulating a fault condition	6.99

Y81 TESTING AND COMMISSIONING

INSPECTING AND CHECKING

EQUIPMENT

Item		Rate C
		1
		£
Y81	<i>Each</i>	
	Checking protective devices: any type: verifying current rating, correct fuse rating or miniature circuit breaker rating against drawing, schedule or log sheet: in any enclosure:	
024	single-pole and neutral circuit	4.56
025	three-pole or three-pole and neutral circuit	5.16
026	Checking cabinets and enclosures of distribution equipment	13.06
	Inspecting and checking appliance and ancillary controls:	
027	portable appliance	15.79
028	fixed appliance	26.42

EARTHING AND LIGHTNING PROTECTION INSTALLATIONS

		Rate C
		1
		£
	<i>Metre</i>	
029	Checking earthing tape or lightning conductor including fixing, joints and bonds	9.11
	<i>Each</i>	
	Checking fixing and bonding of fittings:	
030	test clamp	4.25
031	equipotential or supplementary bonding	6.99
032	air terminal	6.99

FIRE ALARM INSTALLATIONS

		Rate C
		1
		£
	<i>Each</i>	
	Checking:	
033	alarm functions of control and indicator equipment by operation of a manual call point or detector in each zone	13.06
034	operation of any audible or visual alarm and link to a remote manned centre	6.68
035	manual call point and detector to establish correct operation	6.68
036	battery back up facility	26.42
037	installation to ensure that any structural or occupancy changes have not affected the requirements of siting of manual call points, detectors, audible or visual alarms	26.42

Y81 TESTING AND COMMISSIONING

PUBLIC ADDRESS INSTALLATIONS

Item		Rate C
Y81	<i>Each</i>	<u>1</u> £
	Checking:	
038	amplifier, microphone, microphone control unit and connections	6.99
039	functions of amplifier for correct operation (chimes, tones, sequence control)	13.06
	speaker, fixings and connections: adjusting tappings or controls for user acceptability of sound:	
040	indoor loudspeaker	9.11
041	outdoor loudspeaker	11.54
042	battery backup facility	26.42
043	control cables for damage	6.99

SUNDRIES

		Rate C
	<i>Each</i>	<u>1</u> £
044	Amending existing circuit charts or lists - <i>per circuit</i>	1.21
045	Supplying and fixing replacement charts or lists not exceeding 2 No ways	6.07
046	ADD for each additional way	1.21

WORK IN HAZARDOUS AREAS

Definition of Terms

Hazardous Area: A defined area where there is a likelihood or presence of explosive mixtures gases or compounds and will require the PM's written permit or sanction to carry out work.

For carrying out work in Hazardous Areas when the building or area is free from explosives and or gas freed.

For examining to verify that items in Hazardous Areas conform to the appropriate area classification and sub group.

Rates for the following include

Generally:

For inspecting, testing and checking to current Regulations and Codes of Practise.

- 047 Where work in this Section is carried out in Hazardous Areas pay for such work at the foregoing Rates *multiplied by 2.0*.

LABELS AND NOTICES

Fix labels and notices using materials compatible with label or notice and surface to which it is fixed.

IDENTIFICATION OF SERVICES

Specification*Standard:*

Comply with:

BS 1710: Specification for identification of pipelines and services.

BS 4800: Schedule of paint colours for building purposes.

Identification of services:

Identify electrical conduits and trunking in areas of mechanical plant or voids accommodating mechanical services.

Identification colours to be placed at bulkheads, wall penetrations and any other place where identification is necessary.

		Rate C
		1
		£
Item		
Y82	<i>Each</i>	
	Two coat work	
	coloured band: minimum 400 mm wide: on services	
006	not exceeding 300 mm girth.	5.64
007	300 to 600 mm girth	8.33
008	arrow: 100 mm long	3.85
009	coloured triangle: not exceeding 150 mm wide at base	4.30
010	Self adhesive letter or numeral - <i>per 25 mm of height</i>	1.67

Y89: Sundry common electrical items

HAND DRYERS

Specification

Standard:

Comply with:

BS EN 60335: Household and similar electrical appliances.

BS EN 60335-2-23: Particular requirements for appliances for skin or hair care.

Dismantling and Removal

For dismantling and removing items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder.

Rate D: For scrap including disposal - multiply by 0.25.

Rate E: For re-use - multiply by 0.70.

Item
Y89

Each

Hand dryer: 240 V AC

approximate 30 seconds drying time:

001	ABS: automatic: white finish	79.86	91.14	145.65	213.74	30.37
002	metal: automatic: white finish	-	109.82	175.50	257.55	33.41
003	die cast aluminium: automatic: white finish	-	222.51	267.01	373.82	42.52
004	steel porcelain enamel: manual: white finish	-	-	-	404.31	45.56
005	stainless steel: automatic	-	271.89	326.27	526.36	48.59
approximate 10 seconds drying time						
006	metal: automatic: white finish	-	-	576.40	-	54.67
007	stainless steel: automatic	-	-	620.79	-	57.71

Each

Hand and face dryer: approximate 30 seconds drying time: 240 V AC

008	die cast aluminium: manual: white finish	-	-	362.07	480.19	42.52
009	die cast aluminium: automatic: white finish	239.24	287.08	401.93	501.41	48.59
010	steel porcelain enamel: manual: white finish	-	-	434.59	-	57.71
011	steel porcelain enamel: automatic: white finish	-	-	479.34	-	54.67
012	metal: automatic: polished chrome finish	-	-	549.64	592.71	51.63

Rate A				Rate B
1	2	3	4	5
Rating				
not exceeding 1.0 kW	1.0 kW to 1.5 kW	1.5 kW to 2.0 kW	2.0 kW to 2.5 kW	Any Type
£	£	£	£	£

Rate A				Rate B
1	2	3	4	5
Rating: exceeding 2.0 kW				
not exceeding 200 m³/hr	200 to 250 m³/hr	250 to 300 m³/hr	300 to 350 m³/hr	Any Type
£	£	£	£	£

Y89 SUNDRY COMMON ELECTRICAL ITEMS

INSECT KILLERS

Specification

Standard:

Comply with:

BS EN 60335: Household and similar electrical appliances.

BS EN 60335-2-59: Particular requirements for insect killers.

Item
Y89

Each

Insect killer: catchment tray: easy access for cleaning and service:
2m of cable and 13A BS 1363 plug: including UV lamp:

domestic: deep catchment tray: wall, ceiling or table top mounting:

013	32 m ² coverage: 13 W	71.73	-	15.19
014	40 m ² coverage: 16 W	65.28	-	18.22
015	80 m ² coverage: 30 W	88.96	-	21.26

commercial/industrial: micro switching drawer type catchment tray:
ceiling suspended, wall mounted or free standing:

016	30 m ² coverage: 6 W	-	117.76	18.22
017	40 m ² coverage: 16 W	81.83	173.43	21.26
018	65 m ² coverage: 26 W	-	117.59	24.30
019	80 m ² coverage: 30 W	93.94	192.63	27.33
020	98 m ² coverage: 39 W	-	136.44	30.37
021	130 m ² coverage: 50 W	136.38	236.78	33.41

Each

Ultraviolet UV lamp: insect killer: replacement tubes:

022	225 mm tube: 6 W	4.32	-	3.04
023	300 mm tube: 8 W	4.43	10.24	3.34
024	450 mm tube: 15 W	4.87	13.98	3.64
025	600 mm tube: 20 W	7.62	20.23	3.95
026	Circuline tube: 22 W	8.45	-	4.25
027	tight bend tube: 25 W	8.96	22.79	4.56

Rate A		Rate B
1	2	3
Voltage rating:		Any Type
220 - 240 V	240 V AC	
£	£	£

Rate A		Rate B
1	2	3
Replacement tube		Any Type
Standard tube	Shatter- proof	
£	£	£

Y89 SUNDRY COMMON ELECTRICAL ITEMS

CLOCKS

Specification

Standard:

Comply with:

BS EN 60335: Household and similar electrical appliances.

BS EN 60335-2-26: Particular requirements for clocks.

Item		Rate A	Rate B
		1	2
Y89	Each	£	£
	Wall clock: quartz: white plastic case: white arabic dial: including battery		
028	250 mm diameter: plastic lens: white arabic dial with seconds hand and minute markers	5.20	4.86
029	300 mm diameter: white case with chrome effect and glass lens: day/date display bezel and seconds hand	21.84	5.16
030	Wall clock: radio controlled: 300 mm diameter: fully automatic set up: white arabic dial with seconds hand and glass lens: including battery	13.52	5.47

Aviation Ground Lighting

GENERALLY

Dismantling and Removal

For dismantling and removing Items in this Section:

The Rates to be paid shall be the B Rates herein multiplied by the appropriate figure given hereunder:

Rate D: For scrap including disposal - *multiply by 0.40.*

Rate E: For re-use - *multiply by 0.70 .*

Definition of Terms

`A' Centres and `B' Centres: Buildings housing control and regulation equipment for Airfield Ground Lighting.

Method of measurement

Measure the following separately:

- i. Cables and wiring.
- ii. Accessories and equipment.
- iii. Cable terminations and joints.
- iv. Replacement parts.

The following is included elsewhere within other Items:

Baring conductors.

AVIATION GROUND LIGHTING

LUMINAIRES

GENERALLY

Rates for the following include

Installing:

For cleaning components including glass and reflector, inserting lamp, aligning and adjusting.

For connecting cables, plugs and sockets.

For testing and closing/sealing.

For removing existing blank cover plates as directed.

For fixing on existing seating.

For assembling at the store/workshop or at installation location as directed.

Installing on pole:

For cleaning components including glass and reflector, inserting lamp, aligning and adjusting.

For connecting cables.

For fixing to pole with brackets (supplied) including cutting and boring pole.

For assembling at store/workshop or at installation location as directed.

Overhauling:

For carrying out all work necessary in order to leave in as assembled, clean and serviceable condition (excluding supply of replacement parts).

For adjusting.

Renewing:

For dismantling as necessary, removing and replacing with new (excluding supply of replacement parts).

For cleaning, adjusting and re-aligning.

Removing (Rate D or Rate E):

For plugging unused holes in and bolting down seating cover plates as directed.

LUMINAIRES

Item AGL	Each	Rate B						
		1	2	3	4	5	6	7
		Blister pattern luminaire:		Elevated luminaire:				
		for runway	for taxiway	for runway; spigot mounted fixed to mounting plate:			for approach lighting: on spigot not exceeding 1.20 m long fixed to mounting plate:	
		£	£	single £	pair £	triplet £	single £	pair £
Luminaire:								
001	installing	74.41	74.41	34.93	50.11	65.30	57.71	71.37
002	overhauling service unit in workshop	62.26	41.00	41.00	57.71	123.00	39.48	56.19

AVIATION GROUND LIGHTING

LUMINAIRES - *continued*

Item AGL	Each	Rate B			
		1	2	3	4
		Not exceeding 2.00 m above ground:		2.00 to 14.00 m above ground:	
		single £	pair £	single £	pair £
	Approach lighting luminaire: spigot mounted on pole or mast:				
003	installing	44.04	63.78	50.11	71.37
004	overhauling service unit in workshop	54.67	71.37	-	-

AVIATION GROUND LIGHTING

POSTS, POLES AND MASTS

Note

Masts are mounted on concrete bases sized to suit the mast and ground conditions.

Rates for the following include

Generally:

For cutting to length, trimming and fitting top.

For supplying and applying preservative to

cut ends of posts, excavating and erecting perpendicular.

For erecting masts and setting perpendicular on concrete blocks with hinged bases bolted down to block as recommended by the manufacturer.

For the supply of galvanised bolts for casting-in and nuts, but exclude the supply of concrete bases (measured separately - see 'Builders Work' Section).

Item	AGL	Each	Rate B			
			1	2	3	4
			75 x 75 mm wood post:	Hinged glass-fibre mast:	Hinged aluminium mast:	
			not exceeding 3.00 m long	not exceeding 8.00 m long	not exceeding 4.00 m long	4.00 to 8.00 m long
			£	£	£	£
014		Erecting post or mast	25.82	104.78	130.60	154.89

		Rate B	
		1	
		£	
	Each		
	Re-aligning post, pole or mast:		
015	75 x 75 mm wood post: not exceeding 300 m long		30.37
016	light wood pole: not exceeding 1600 m long		48.59
017	glass-fibre or aluminium mast: not exceeding 800 m long		34.93
018	Fixing number plate or notice to pole or mast		3.64

		Rate B	
		1	2
		£	£
	Each		
	Moulded rubber socket outlet:		
019	installing	9.11	9.11
020	unbolting: disconnecting: removing to store	7.90	7.90

AVIATION GROUND LIGHTING

INDICATORS AND SIGNS

Rates for the following include

Renewing:

For dismantling as necessary and replacing with new (excluding supply of replacement parts).

For cleaning and adjusting.

Installing:

For cleaning components including glass and reflectors, inserting lamp and adjusting.

For connecting cables.

Item AGL	Each	Rate B
		1
		£
021	Renewing glass and/or lamp: to well-glass obstruction fitting	15.19
	Installing:	
022	holding position board	60.74
023	traffic signal unit	27.33
024	illuminated runway 'Distance To Go' or rotary hydraulic arrester gear marker	60.74
025	Precision Approach Path Indicator: on base provided	80.48

TRANSFORMERS

Rates for the following include

Excavation:

For disposal of excavated materials as ordered.

For earthwork support.

	Each	Rate B
		1
		£
	Isolating transformer: type TISE, TIPE or TSR: in concrete pit:	
026	installing: bonding to earth	9.11
027	replacing: disconnecting cables: reconnecting bonding to earth	41.00
028	ADD where in ground: excavating	9.11
	taking out and removing: cutting and sealing cable ends:	
029	from concrete pit	19.74
030	from ground: excavating	56.19

AVIATION GROUND LIGHTING

CONTROL EQUIPMENT IN 'A' AND/OR 'B' CENTRES

Rates for the following include

Generally:

For supplying cleats or other fixings.

For making connections at both ends of any length of measured cable.

Item AGL	Each	Rate B
		1 £
	Moving into final position within the 'A' or 'B' Centre: securing as necessary: connecting up: leaving in service condition:	
031	contactor rack: ref D22: approximate size 1400 x 500 x 550 mm: approximate weight 130 kg	59.22
032	battery charging panel	59.22
033	series circuit regulator: 650 V/12 A or 1300 V/12 A rating: approximate weight 400 kg	66.82
	constant Current Regulator:	
034	7.8 kVA rating: weight 165 kg	53.15
035	15.6 kVA rating: weight 215 kg	56.19
036	25.0 kVA rating: weight 370 kg	59.22
037	Mains Supply Transformer	53.15
038	Cable Termination Panel	109.34
039	Contactor Control Unit: type D20	42.52
040	480 mm rack for Modular Control System	25.82
	<i>Metre</i>	
	Cable not exceeding 1500 m long: laying in trench or duct:	
041	single-core 2000 V cable between regulator and Cable Termination Panel	4.25
042	3-core cable between Modular Control System rack and battery: socket at one end: connecting both ends	6.99

AVIATION GROUND LIGHTING

CONTROL EQUIPMENT IN 'A' AND/OR 'B' CENTRES - *continued*

Item		Rate B
AGL	Metre	1
		£
	Cable not exceeding 1500 m long: laying in trench or duct - <i>continued</i>	
043	6-core cable between Modular Control System rack and battery: socket at both ends: connecting both ends	13.67
044	6-core cable: between Modular Control System and Link Disconnecting Unit: plug at one end: connecting both ends (cores soldered to tag on Link Disconnecting Unit)	13.67
045	12-core cable: between regulator and Modular Control System rack: plug at each end: connecting both ends	5.47
046	25-core cable: between Modular Control System rack and Visual Control Room: plug at each end: connecting each end: labelling (labels provided)	5.47
047	25-core cable: between Modular Control System rack and Visual Control Room: socket at one end: connecting both ends: (cores soldered to tags on Visual Control Room panel)	6.07

JOINTS

Note

Joints in 2000 V single-core airfield lighting cable: kit provided by others

	Each	Rate B
		1
		£
048	Heat shrinkable through-joint on cable	9.11
049	Pre-stretched tubing through-joint on cable	9.11
050	Cast resin through-joint on cable	30.37

Builders work

EXCAVATING GENERALLY

Definition of terms

For earthwork support.

Unstable ground: Running silt, running sand, loose gravel or the like.

For multiple handling unless specifically ordered.

Rock: A material which can be removed only by means of wedges, special plant or explosives.

For compacting and trimming trench bottoms.

For backfilling with selected excavated material and compaction.

Rates for the following include

For disposal of surplus excavated materials off site.

Excavating:

For excavating by hand or machine any material encountered (including hardcore) except where otherwise stated.

For keeping excavations free of surface water.

Excavating below ground water level:

For removing and preserving or reinstating top soil and turf.

For keeping excavations free of ground water.

EXCAVATING TRENCHES

Item BW	Metre	Rate C						
		1	2	3	4	5	6	7
		Average depth						
		Not exceeding 0.5 m	0.5 to 0.75 m	0.75 to 1.00 m	1.00 to 1.25 m	1.25 to 1.50 m	1.50 to 1.75 m	1.75 to 2.00 m
		£	£	£	£	£	£	£
001	Excavating trench for service not exceeding 300 mm nominal size: starting from ground, stripped or reduced level	9.61	13.60	18.35	25.71	31.04	36.36	41.69
	ADD where							
002	curved	1.87	3.12	4.37	5.61	6.86	8.11	9.36
003	below ground water level	4.46	6.32	9.63	11.00	13.35	15.69	18.03
004	next to roadways	3.38	4.53	7.12	7.79	9.42	11.05	12.67
005	next to existing buildings	2.88	3.69	5.95	6.28	7.58	8.88	10.17
006	in unstable ground	3.74	5.12	7.96	8.85	10.72	12.59	14.46
007	Where hand excavation is specifically ordered - <i>multiply the foregoing Rates by 2.00.</i>							

EXCAVATING TRENCHES - *continued*

Rate C	
1	2
Breaking out	Reinstating to match existing
£	£

Rate C
1
£

400

BUILDERS WORK

EXCAVATING HOLES

Item BW	Cubic Metre	Rate C
		1
		£
022	Excavating hole for pole, stay block or other support: starting from ground, stripped or reduced level: any depth	67.36
023	Where hand excavation is specifically ordered - <i>multiply the foregoing Rates by 2.00.</i>	

PLAIN IN-SITU CONCRETE

Rates for the following include

For laying on any base.

In-situ concrete:

For finishing top surface with spade face.

For placing any location.

For all formwork including chamfered edges and the like.

For hand or machine placing and compacting.

		Rate C		
		1	2	3
		Thickness		
		Not exceeding 150 mm	150 to 300 mm	300 to 450 mm
		£	£	£
Cubic Metre				
Bed or surround: in trench				
024	10 N/mm ² : 20 mm aggregate	168.22	153.88	139.53
025	20 N/mm ² : 20 mm aggregate	169.08	154.73	140.38
Machine base				
026	20 N/mm ² : 20 mm aggregate	293.86	265.78	237.71
027	25 N/mm ² : 20 mm aggregate	296.30	268.22	240.15

		Rate C
		1
		£
028	Forming mortice: 50 x 50 x 50 mm deep: grouting with mortar.	3.86

BUILDERS WORK

MARKERS AND COVERS

Rates for the following include

Precast concrete:

For all necessary handling reinforcement.

For fair finish.

Item BW	Each	Rate C
		1
		£
	Precast concrete services marker block with legend: setting in position	
029	305 x 305 x 152 mm.	11.46
030	610 x 610 x 102 mm.	24.85
	Precast concrete services marker post with legend: setting in position	
031	152 x 63 x 610 mm long: rounded top: lettered lead plate.	19.54
032	240 x 150 x 1220 mm long: shaped: lettered aluminium plate.	28.75
	<i>Metre</i>	
033	Polythene warning tape: with legend: 150 mm wide x 0.10 mm thick: laid in trench . . .	0.29
	Vitrified clay interlocking cable covers: apex pattern	
034	114 x 51/32 mm.	3.04
035	229 x 63/38 mm.	4.76
	Plain precast concrete interlocking cable covers: flat pattern	
036	229 x 51 mm	5.55
037	305 x 51 mm	6.37
	Reinforced precast concrete interlocking cable covers: apex pattern	
038	152 x 63/38 mm.	3.70
039	178 x 63/38 mm.	4.07

BUILDERS WORK

CABLE DUCTS AND TROUGHS

Item		Rate C
BW	Metre	1
		£
Vitrified clay cable duct: extra strength: self-aligning joints: draw line: laid in trench		
	single way	
040	100 mm diameter: unglazed	9.23
041	100 mm diameter: glazed internally.	9.76
042	150 mm diameter: unglazed	17.22
043	150 mm diameter: glazed internally.	17.74
	single way: split type	
044	100 mm diameter: unglazed	12.25
045	100 mm diameter: glazed internally.	12.87
046	150 mm diameter unglazed.	23.43
047	150 mm diameter: glazed internally.	24.13
Steel tubing: medium gauge: galvanised: screwed and socketed joints: draw line:		
coated with bitumastic paint: laid in trench		
048	100 mm diameter	17.25
049	150 mm diameter	27.34
Unplasticised PVC pipe: rubber sealing rings: draw line: laid in trench or duct		
050	110 mm diameter	9.46
051	160 mm diameter	17.61
Polyethylene: twin wall duct: draw line: laid in trench or duct		
052	40 mm diameter	4.37
053	50 mm diameter	4.58
054	63 mm diameter	4.83
055	75 mm diameter	5.70
056	90 mm diameter	6.27
057	110 mm diameter	6.93
058	160 mm diameter	8.97
	Metre - per way	
Existing cable duct: any diameter		
059	cleaning: using existing draw line.	0.31
060	rodding	0.31
	Each	
Sealing end of duct with a proprietary sealing method:		
to form a barrier to water and gas		
061	50 mm diameter	3.02
062	100 mm diameter	3.68
063	150 mm diameter	4.75

BUILDERS WORK

CABLE DUCTS AND TROUGHS - *continued*

Item		Rate C
		1
BW	Each	£
	Sealing end of duct with a proprietary sealing method: to form a barrier to fire, water and gas	
064	50 mm diameter	4.70
065	100 mm diameter	6.03
066	150 mm diameter	9.59
	Reinforced precast concrete interlocking cable trough: 40 mm overall thick cover in two sections per unit	
067	100 x 100 mm internally	19.81
068	150 x 115 mm internally	21.42

BUILDERS WORK

METALWORK

FIXING SYSTEMS

Rates for the following include

Fittings: All bolts, heads, nuts, washers, screws or the like.

Item		back				
BW	Metre	£	£	£		
Proprietary channel fixing system formed from rolled mild steel:						
associated fittings: spring nuts: galvanised						
channel section: fixed to any background by any means						
069	41 x 21 mm x 1.5 mm thick	15.87	16.06	-		
070	41 x 21 mm x 2.5 mm thick	19.22	19.11	27.56		
071	41 x 41 mm x 1.5 mm thick	16.82	17.04	-		
072	41 x 41 mm x 2.5 mm thick	20.54	20.54	31.36		
				Rate C		
				1		
				£		
insert: with anchor lugs: foam infill: in concrete: fixed to shuttering before pouring						
073	41 x 21 mm x 1.5 mm thick			3.95		
074	41 x 21 mm x 2.5 mm thick			4.41		
075	41 x 41 mm x 1.5 mm thick			5.09		
076	41 x 41 mm x 2.5 mm thick			5.54		
		Rate C				
		1	2	3	4	5
		Thread diameter				
		6 mm	8 mm	10 mm	12 mm	16 mm
		£	£	£	£	£
077	fitting: any type.	1.23	1.53	1.90	2.19	2.79

BUILDERS WORK

FABRICATED BRACKETS AND FRAMES

Item		Rate C
BW	Kilogramme	1
		£
	Bracket: mild steel: primed: fabricated from flat/rolled section: drilled: fixed to any background: total weight	
078	not exceeding 1 kg.	10.82
079	1 to 2 kg	9.33
080	2 to 5 kg	7.85
		Rate C
		1
	Kilogramme	£
	Frame: for mounting equipment and the like: mild steel: primed: fabricated from flat/rolled section: drilled: bolted: fixed to any background: total weight	
081	not exceeding 25 kg	5.53
082	25 to 50 kg	4.76
083	50 to 75 kg	3.99
084	Steelwork: prefabricated: supports, stands, platforming and the like: primed: erected on site	2.95
085	ADD to Items BW.078 to BW.083 for galvanising	0.81

		Rate C				
		1	2	3	4	5
		Thread diameter				
		10 mm	12 mm	16 mm	20 mm	24 mm
Each		£	£	£	£	£
Girder clamp: mild steel: any type: hanger fitting: drop rod threaded each end:						
double nuts and washers: drop						
086	not exceeding 150 mm.	13.29	15.35	20.51	26.23	34.30
087	150 to 300 mm.	13.95	16.43	22.29	29.17	39.15
088	300 to 450 mm.	14.60	17.51	24.07	32.10	44.00
089	450 to 600 mm.	15.26	18.59	25.85	35.04	48.84
090	600 to 750 mm.	15.91	19.68	27.63	37.98	53.69
091	750 to 900 mm.	16.57	20.76	29.41	40.92	58.54
standard eye bolt: locking nut and washer: drop						
092	not exceeding 150 mm.	6.18	5.63	10.33	13.29	17.73
093	150 to 300 mm.	6.84	6.71	12.11	16.23	22.58
094	300 to 450 mm.	7.49	7.79	13.89	19.17	27.43
095	450 to 600 mm.	8.15	8.87	15.67	22.11	32.27
096	600 to 750 mm.	8.80	9.95	17.45	25.04	37.12
097	750 to 900 mm.	9.46	11.04	19.23	27.98	41.97

BUILDERS WORK

FABRICATED BRACKETS AND FRAMES - *continued*

Item BW	<i>Each</i>	Rate C				
		1	2	3	4	5
		Thread diameter				
		10 mm	12 mm	16 mm	20 mm	24 mm
		£	£	£	£	£
	Girder clamp: mild steel: any type: hanger fitting: drop rod threaded each end - <i>continued</i>					
	Drilling clearance hole through section					
098	not exceeding 12 mm thick	3.68	3.98	4.72	5.91	6.80
099	12 to 20 mm thick	7.38	7.96	9.59	12.25	14.15
100	20 to 25 mm thick	9.43	10.32	12.37	15.62	17.98
101	ADD to Items BW.098 to BW.100 for countersinking . . .	0.47	0.47	0.59	0.70	0.82
	Drilling and tapping in or through section					
102	not exceeding 12 mm thick	7.81	8.54	10.01	12.59	14.45
103	12 to 20 mm thick	10.57	11.58	13.57	17.00	19.54
104	20 to 25 mm thick	14.24	15.59	18.31	22.94	26.37

SITE WELDING

		Rate C
		1
	<i>Metre</i>	£
	Site weld: mild steel: gas or arc: butt or fillet: 6 mm wide	
105	horizontal or vertical: single run.	19.08
106	ADD for each additional run	12.72

PAINTING METALWORK

		Rate C		
		1	2	3
		Preparing and one finishing coat on old painted work	Preparing, priming, one undercoat and one finishing coat on new or old untreated work	ADD for each additional undercoat
	<i>Square Metre</i>	£	£	£
107	General surfaces	6.58	10.29	3.08
	<i>Metre</i>			
	Pipe			
108	not exceeding 300 mm girth.	2.69	4.14	1.24
109	300 to 600 mm girth	4.48	6.98	2.09

BUILDERS WORK

PAINTING METALWORK - *continued*

Item		Rate C		
		1	2	3
		Preparing and one coat of heat resisting paint on old painted work	Preparing, priming and one coat of heat resisting paint on new or old untreated work	ADD for each additional coat
BW	<i>Square Metre</i>	£	£	£
110	General surfaces	5.64	8.86	2.93
111	Radiator	6.65	10.30	3.36
	<i>Metre</i>			
	Pipe			
112	not exceeding 300 mm girth.	2.28	3.54	1.16
113	300 to 600 mm girth	3.83	5.99	1.97

		Rate C	
		1	
		£	
	<i>Square Metre</i>		
114	Preparing and two coats of aluminium paint to galvanised steel ductwork.		8.07
115	ADD for each additional coat.		3.76

		Rate C		
		1	2	3
		Previously painted work	New work	Add for each additional coat
		£	£	£
	<i>Square Metre</i>			
116	Preparing and two coats of tank paint: interior surface of cylinder, tank and the like.	9.30	8.47	4.05

BUILDERS WORK

IDENTIFICATION OF SERVICES

Specification

Identification of services:

Colour code pipes: direction of flow indicated by arrows.

Item BW	Each	Rate C	
		1	
		£	
	Two coat work		
	coloured band: minimum 400 mm wide: on pipe or pipe insulation		
117	not exceeding 300 mm girth.		5.64
118	300 to 600 mm girth		8.33
119	arrow: 100 mm long		3.85
120	coloured triangle: not exceeding 150 mm wide at base		4.30
121	Self adhesive letter or numeral - <i>per 25 mm of height</i>		1.67

CUTTING AWAY AND MAKING GOOD

Note

Engineering brickwork:

Price at the Rates for brickwork multiplied by 2.00.

	Metre	Rate C			
		1	2	3	4
		Cross sectional area			
		Not			
		exceeding	1250 to	3750 to	5000 to
		1250mm ²	3750mm ²	5000mm ²	10000mm ²
		£	£	£	£
	Cutting chase in				
122	brickwork or blockwork.	5.02	7.43	9.29	13.24
123	concrete.	6.04	8.94	11.15	15.91
124	reinforced concrete	7.03	10.45	13.04	18.60
125	stonework	5.46	8.36	10.68	14.17
126	ADD for making good	3.77	5.62	7.02	9.87

BUILDERS WORK

CUTTING AWAY AND MAKING GOOD - *continued*

Item BW	<i>Each</i>	Rate C						
		1	2	3	4	5	6	7
		For pipe or the like			For duct or the like			
		Nominal size			Girth			
		Not exceeding 55 mm	55 to 110 mm	110 to 300 mm	Not exceeding 1.00 m	1.00 to 2.00 m	2.00 to 3.00 m	3.00 to 4.00 m
		£	£	£	£	£	£	£
	Cutting hole through							
	brickwork							
127	102 mm thick.	3.37	5.46	15.32	8.71	15.67	23.81	30.31
128	215 mm thick.	5.34	8.12	22.76	14.52	30.99	47.25	60.26
129	327 mm thick.	6.73	10.80	29.25	19.62	41.91	63.86	81.39
	blockwork							
130	100 mm thick.	2.33	3.48	5.93	6.50	13.93	21.25	27.06
131	150 mm thick.	3.25	5.11	8.36	8.59	18.47	28.10	35.88
132	215 mm thick.	4.30	6.73	10.92	11.15	24.03	36.57	46.68
	<i>Each - per side</i>							
133	ADD for making good fair face or facings	1.39	1.91	2.86	3.13	6.35	8.94	12.54
	<i>Each - per 25 mm of thickness</i>							
	Cutting hole through							
134	concrete.	3.95	7.90	11.84	9.86	17.77	26.94	34.38
135	reinforced concrete	5.93	11.84	17.77	14.87	26.71	40.40	51.55
136	stonework	4.55	9.08	13.63	11.35	20.43	30.98	39.52
	mild steel sheet							
137	1 mm thick	8.39	14.68	21.95	18.54	33.32	50.52	64.46
138	2 mm thick.	9.64	16.87	25.36	22.23	39.99	60.62	77.28
139	3 mm thick.	13.91	20.53	30.83	27.09	48.74	73.85	94.25
	<i>Each - per side</i>							
	ADD for making good fair face							
140	concrete.	1.26	2.16	4.02	2.71	5.51	7.75	10.88
141	stonework	1.62	2.81	5.22	3.53	7.15	10.08	14.17

BUILDERS WORK

CUTTING AWAY AND MAKING GOOD - *continued*

		Rate C
Item		1
BW	<i>Each - per 25 mm of girth</i>	£
Notching		
142	softwood	0.25
143	hardwood	0.39
144	manufactured board	0.22
145	manufactured board: plastics faced	0.45
146	plasterboard	0.17

Rate C						
1	2	3	4	5	6	7
For pipe or the like			For duct or the like			
Nominal size			Girth			
Not exceeding 55 mm	55 to 110 mm	110 to 300 mm	Not exceeding 1.00 m	1.00 to 2.00 m	2.00 to 3.00 m	3.00 to 4.00 m
£	£	£	£	£	£	£

<i>Each</i>		£	£	£	£	£	£	£
Cutting through								
147	softwood	2.24	3.27	4.50	4.50	6.20	8.66	10.68
148	hardwood	3.27	4.72	6.53	6.53	9.11	12.71	15.71
149	manufactured board	1.96	2.81	3.90	3.90	5.34	7.87	9.44
150	manufactured board: plastics faced.	2.70	3.87	5.34	5.34	7.32	10.25	12.98
151	plasterboard and skim: making good.	3.48	5.06	6.98	6.98	9.59	10.43	11.03
152	lath and plaster: making good.	4.32	5.89	7.82	7.82	10.43	11.27	11.87

BUILDERS WORK

REMOVING AND REFIXING EXISTING

Item BW	Metre	Rate C
		1
		£
	Taking up cable covers: any size	
153	placing into store.	2.62
154	setting aside for reuse: replacing.	4.74
	<i>Each</i>	
	Taking up cable marker slab: any size	
155	placing into store.	1.31
156	setting aside for reuse: replacing.	2.92
	Taking up service marker post: any size	
157	placing into store.	2.92
158	setting aside for reuse: replacing.	4.74
	Taking up pit cover: any size	
159	setting aside for reuse: replacing.	2.32
	<i>Square Metre</i>	
160	Taking up floor boarding: any type: setting aside for reuse: adapting as necessary: refixing	10.13
	<i>Each</i>	
	Removing duct access panel: setting aside: refixing	
161	not exceeding 0.10 m ²	2.12
162	0.10 to 0.50 m ²	4.84
163	0.50 to 1.00 m ²	6.96
	Taking down suspended ceiling tile: setting aside: refixing: any type	
164	isolated or first tile in group	4.64
165	ADD for each additional tile in group	1.71
	<i>Square Metre</i>	
	Taking up flexible mineral wool insulation: setting aside: relaying (measured over joists)	
166	laid between joists	1.81
167	laid across joists.	0.81

Appendix 1

ENCLOSURES - IP RATINGS

SOLIDS First characteristic numeral	Degree of protection	LIQUID Second characteristic numeral	Degree of protection
0	No protection of persons against contact with live or moving parts. No protection of equipment against ingress of solid foreign bodies.	0	No protection.
1	Protection against accidental or inadvertent contact with live or moving parts inside the enclosure by a large surface of the human body, for example a hand, but not protection against deliberate access to such parts. Protection against ingress of large solid foreign bodies.	1	Protection against drops of condensed water. Drops of condensed water falling on the enclosure shall have no harmful effect.
2	Protection against contact with live or moving parts inside the enclosure by fingers. Protection against ingress of medium size foreign bodies.	2	Protection against drops of liquid. Drops of falling liquid shall have no harmful effect when the enclosure is tilted at an angle up to 15° from the vertical.
3	Protection against contact with live or moving parts inside the enclosure by tools, wires or such objects of greater thickness than 2.5 mm. Protection against ingress of small foreign bodies.	3	Protection against rain. Water falling as rain at an angle up to 60° with respect to the vertical shall have no harmful effect.
4	Protection against contact with live or moving parts inside the enclosure by tools, wires or such objects of greater thickness than 1 mm. Protection against ingress of small foreign bodies.	4	Protection against splashings. Liquid splashed from any direction shall have no harmful effect.
5	Complete protection against contact with live or moving parts inside the enclosure. Protection against harmful deposits of dust. The ingress of dust is not totally prevented, but dust cannot enter in an amount sufficient to interfere with satisfactory operation of the equipment enclosed.	5	Protection against water jets. Water projected by a nozzle from any direction under stated conditions shall have no harmful effect.
6	Complete protection against contact with live or moving parts inside the enclosure. Protection against ingress of foreign bodies.	6	Protection against conditions on ships' decks (deck watertight conditions). Water from heavy seas shall not enter the enclosure under prescribed conditions.
		7	Protection against immersion in water. It must not be possible for water to enter the enclosure under stated conditions of pressure and time.
		8	Protection against indefinite immersion in water under specified pressure. It must not be possible for water to enter the enclosure.

Index

	Page		Page
Abbreviations	6	Cable glands	207
Access control	89	Cable guards	247
accessories	92	Cable joints	217
Accessory boxes	375	Cable ladder	240
Adaptable boxes	139	Cable terminating and jointing sockets	216
Aerials	63	Cable terminations	
Air terminals, lightning protection	116	heat shrinkable plastic	222
Air thermostats	130	terminal blocks	223
Alarms, fire		11000 V	222
control and indicating panel	100	Cable tray	
sounders and visible	104	steel	232
Amenity lighting	312	UPVC	236
Amplifiers, public address equipment	56	wire basket	238
Architrave switches	356	Cable trunking	148
Audio-frequency induction loop systems	60	Cables and wiring	
Automatic fire detectors	104	aviation ground lighting	204
Automatic release mechanism	106	bell wire	204
Aviation ground lighting		coaxial	68, 71
control equipment in 'A' and/or 'B' centres	396	control	198 - 199
indicators and signs	395	data	76
joints	397	festoon	177, 204
luminaires	392	fire resistant	
posts, poles and masts	394	power cables	189
transformers	395	wiring cables	181 - 184
Batten fluorescent luminaires	300	flexible cables	173
Battery equipment	46	flexible cords	171 - 172
Bell equipment	373	high temperature	184
Bell wire	204	information technology	
Bell, fire alarm	104, 105, 106	instrumentation	200
Boards		local area network	
distribution	282 - 286	category 5 and 6	75
modular panel	250 - 255	computer	78
panel	256 - 258	data	76
Bollards, street lighting	312	ethernet	72, 79
Boxes		IBM	79
accessory	375	public address / sound amplification	61
conduit		structured	75
insulating materials	141	instrumentation	
steel conduit	134	armoured	201
junction	374	non-armoured	200
Builders work		low smoke and fume	
cable ducts and troughs	403	flexible cables	173
concrete work	401	wiring cables	179
cutting away and making good	409	medium voltage	193
excavating	399	mineral insulated	195
identification of services	415	optical fibre	73
markers and covers	402	paper insulated	202
metalwork	405	power	
paintwork	407	armoured	185
removing and refixing existing	412	non-armoured	191
Busbar trunking systems		telecommunication	51
lighting	226	television aerial / video	68
low power	227	wiring cables	176
medium power	228	Call points, manual, fire alarm	102
Busbar chambers	281	Card swipe access system	91
Cable support systems	232 - 247	Cartridge fuse links	274 - 277
Cable cleats and hangers	243	Catenary suspension	247
Cable ducts and troughs	403	Chambers, busbar	281
		Change-over switches	269
		Chart, identification, completing	385

	Page		Page
Ceiling roses	329	Dismantling and removal	
Circuit breakers		access control	89
miniature	289	accessories for electrical services	353
moulded case	259 - 264	aviation ground lighting	391
residual current operated	289	busbar trunking system	225
switch	265	cables and wiring	169
Clamps, earthing	109	conduit and trunking	133
Cleats, cable	243	contactors and starters	293
Closed circuit television	64	control components	129
Code input access systems	92	data transmission	69
Columns, street lighting	348 - 350	earthing and bonding	107
Compact fluorescent lamps	340	emergency lighting	37
Compensators	131	fans	121
Compression connectors	216	fire detection and alarm	99
Concrete work	401	fuse pillars	23
Conduit		jointing and terminations, cable and wiring	205
insulating material		lightning protection	115
flexible	146	luminaires and lamps	299
pliable	146	packaged sub-stations	19
rigid	141	photovoltaics	7
metallic		public address	55
flexible	144	radio / tv / cctv	63
rigid	134	security detection and alarm	93
Connection units, fuse	362	support components, cables	231
Connections, cable		switchgear and distribution boards	
to existing data equipment, fixed by others	84	HV	19
to existing equipment, fixed by others	223	LV	249
Connectors		telecommunications	49
BNC	80	transformers	19
copper compression	216	uninterruptible power supply	29
D-type	80	wind generation	7
N-series ethernet	82	Distribution boards	
telecommunication	53	fuseboards	282 - 286
television aerials	68	miniature circuit breaker	289
twin axial	81	Dolly operated switches	356
universal data	80		
wall plate system	82	Earth electrodes	112
XLR type	62	Earth tags	211
Consumer units	287	Earthing	
Contactors	294	bonding links	108, 109
Control equipment, aviation ground lighting	396	clamps	109 - 111
Control gear		electrodes	112
compact fluorescent lamps	332	bars, plates, pits	113
fluorescent lamps	331	protective conductors	108
high intensity discharge	333	tapes	116 - 119
Control panels, fire alarms	100	Electricity meters	273
Control selector switches	295	Electro-magnetic door holders	106
Controllers, fan	127 - 128	Emergency lighting	37
Controllers, temperature	131	Enclosures	
Cooker control units	370	IP Ratings	413
Cord outlets	371	MCB / RCB	289 - 290
Cut-outs, fused	279	miscellaneous	292
Cutting away and making good	409	Entry phone	90
		Excavating	399
Data transmission	69		
Detectors		Fans	
automatic fire	104	bathroom and toilet extractors	122
heat and smoke	103	controllers	127, 128
temperature and humidity	129	kitchen canopies	125
Dimmer switches	356	kitchen extractors	123 - 124
Disabled toilet alarm system	98	ceiling sweep	125
Discharge		extractors, commercial	126 - 128
lamps	341 - 345	Festoon lighting	204
luminaires		Fire alarm installations	
amenity	312	equipment	100
floodlight	321	checking	382
industrial	315	Fireman's emergency switch-disconnector	268

	Page		Page
Flexible cable	173	Junction boxes	374
Flexible conduit	144, 146	Labels, identification	385
Flexible cords	171	Ladder rack, cable support	240
Floodlighting	321 - 324	Lampholders	329
Fluorescent		Lamps	
lamps	337 - 340	compact fluorescent	340
luminaires	300	discharge	341
starters	331	fluorescent	337
Fuseboards, distribution	282	heat	346
Fuse carriers	277 - 278	LED	336
Fuse combination units	270	metal halide	343
Fuse connection unit	362	sodium vapour	
Fuse links	274	high pressure	344
Fuse pillars	24 - 28	low pressure	345
Fuse-switches	270	tungsten	
Fuse unit	278	halogen	341
Fused cut-outs	279	Lanterns, street lighting	
Fuses	274	die-cast aluminium	319
Glands, cable		glass reinforced plastic	319
accessories	211	LED	
hazardous area	210	lamps	336
metallic	207	luminaires	311, 322, 328
mineral insulated cable	213	Lighting	
polymeric	209	columns	348 - 350
Grid switches	357	bollard	312
Guards, cable	247	emergency	37
Hangers, cable	243	flood	321
Hazardous area		precinct	312 - 315
emergency luminaires	47	road and street	319 - 320
luminaires	325	switches	354
testing	383	Lightning protection	
Heat detectors	103	air terminals	116
Heat shrink terminations	222	earth tapes	116 - 119
Heating controls	131	test and junction clamps	119 - 120
Horn speaker, public address	59	Load-shedding contactor pillar	27
Hour meters	362	Local area network, cables	
Humidity detector	129	category 5 and 6	75
Identification		computer	78
labels and notices	385	data	76
of services, painting	386	ethernet	72, 79
Indicators, aviation ground lighting	395	IBM	79
Induction loop systems	60	Loudspeakers	58
Industrial cables, flexible	174	Low smoke and fume	
Inspecting and checking		flexible cables	173
earthing	382	wiring cables	179
equipment	382	Luminaires	
fire alarm installations	382	amenity, precinct and security	312 - 315
lightning protection	382	aviation ground lighting	392 - 393
public address installations	383	display	317
sundries	383	emergency	38
work in hazardous areas	383	floodlight	321
Inspection pits, earthing and bonding	113	fluorescent	
Instrumentation cables	200 - 201	batten	300
Intruder alarm systems	95	recessed	304
Inverters	30	surface	302
IP Ratings, enclosures	413	suspension sets	305
Isolating transformers, low voltage	372	general lighting	
Jointing, cable		batten	300, 311
600/1000 V	217	bedlight	311
11000 V	219	bulkhead	306
aviation ground lighting	397	decorative	307
mineral insulated	221	domestic	307
		downlighter	309
		mirror light	307
		picture light	309

	Page		Page
Luminaires - <i>continued</i>		Public address equipment	55
striplight	310	Push-button controls	296
task light	311	Recessed luminaires	304
hazardous area	325	Removing and refixing existing, builders work	412
industrial	315	Residual current devices	289 - 290
LED		Ring main units	20
batten	311	Road and street lighting	319 - 320
floodlight	322		
weatherproof/corrosion resistant	328	Security detection and alarm	93 - 98
recessed	304	Security lighting	312 - 315
road and street	319	Shaver points	374
task light	311	Shrouds, gland	211, 215
track mounted	318	Signs, aviation ground lighting	395
Manual call points, fire alarms	102	Sirens, fire alarms	106
Markers and covers	402	Smoke detectors	103
Masts, aviation ground lighting	394	Socket outlets	
Metalwork	405	13 A	363 - 364
Meter, electricity	273	data	82
Microphones, public address	57	industrial	364 - 370
Mineral insulated		service, underfloor trunking	161
cable	195	telecommunication	53
jointing	221	television and aerial	68
terminations	213	Sounders, fire alarms	104
Miniature circuit breakers	289	Sparkless assemblies	360
Modular panelboards	250 - 255	Splices, cable jointing sockets	216
Motor starters		Starters	
direct on line	297	fluorescent lamp	331
star delta	298	motor	297
Moulded case circuit breakers		Street lighting, road and	319 - 320
accessories	263	Street lighting	
category A	259	bollards	312
category B	261	columns	348 - 350
Mounting boxes	375	cut-out	279
		Sub-stations, packaged	21
Nurse call systems	96	Support components, cables	
		wire basket	238 - 239
Optical fibre cables	73	cable guards	247
Optimisers	131	cable ladder	240 - 242
Outlets		cable tray	
13 A socket	363	steel	232 - 235
cord	371	UPVC	236 - 237
data	82	catenary suspension	247
shaver socket	374	cleats and hangers	243 - 246
industrial socket	364	Surface fluorescent luminaires	302 - 303
service, underfloor trunking	161	Suspension sets, fluorescent luminaires	305
telecommunication	53	Switchgear	
television and aerial	68	HV supply	20
		LV	250
Packaged sub-stations	21	Switches	
Paintwork	407	architrave	356
Panelboards		change-over	269
modular	250 - 255	dimmer	356
pan assembly, and	256 - 258	dolly operated	356
Patch panel	76	door	359
Photovoltaic		exterior	360 - 361
controllers	10	grid	357 - 359
modules and panels	8	interior - general purpose	355 - 357
support structure	11	key	357
Pillars, fuse	24	plate	355 - 356
PIR detectors	94	position	295
Plate switches	355	pull cord	359
Poles and masts, aviation ground lighting	394	push-button, control	296
Position switches	295	rotary	295
Precinct lighting	312 - 315	sparkless	360
Protective conductors, earthing and bonding	108	time	361 - 362
Proximity access control systems	91	Switch-disconnectors	265 - 268

	Page		Page
Switch-disconnectors fireman's emergency	268	Uninterruptible power supplies	29 - 35
Switch-fuses	272	Universal data connectors	80
Taking up / down, existing, builders work	412		
Tapes, earthing and bonding	116 - 119	Visible alarms	104 - 106
Task lighting	311		
Telecommunication cables	51 - 52	Welding	407
Telecommunication connectors	53	Wind	
Television / video cables	68	monitoring	14 - 15
Television / video connections	68	turbine generators	15 - 18
Temperature detectors	129	Wiring cables	
Terminal blocks	223	fire resistant	181 - 184
Terminating and jointing sockets, cable	216	high temperature	184
Terminations		low smoke and fume	179 - 180
cable glands	207 - 212	non-armoured	176 - 178
heat shrink plastic	222		
seals and glands, mineral insulated	213 - 215		
Testing			
continuity	379		
earth electrode resistance	379		
earth fault loop impedance	380		
fault simulation	381		
insulation resistance	380		
polarity	381		
prospective short circuit current	381		
work in hazardous areas	383		
Thermostats	130		
Time switches	361 - 362		
Track mounted luminaires	318		
Transformers			
aviation ground lighting	395		
distribution	21		
for LV luminaires	346 - 347		
safety isolating, low voltage	372		
Trays, cable			
steel	232 - 235		
UPVC	236 - 237		
Trunking, cable			
insulating material			
architrave	166		
bench	166		
cornice	167		
dado	165		
skirting	165		
surface	163 - 164		
under-floor	167 - 168		
steel			
bench	157		
dado	158		
lighting	155 - 156		
skirting	156		
surface	148 - 154		
under-floor	159 - 162		
Trunking system, busbar	225 - 230		
Tungsten			
lamps			
halogen	341		
Twin axial cable	71 - 72		
Twin axial connectors	81		

OUR CAPABILITY

Carillion's Consultancy Group provides a comprehensive range of cost consultancy services for projects of all types and values.

We have a nationwide team of professional quantity surveyors whose aim is to achieve total client satisfaction by providing a high quality, cost effective service that fully meets clients' objectives.

We have an excellent record of controlling budgets, advising on value for money, meeting tight deadlines and providing a properly resourced service.

Our services include:

- early cost advice and target costs
- cost planning & pre contract cost control procurement advice
- preparing tender & contract documents including bills of quantities
- tender selection & appraisal
- interim valuations
- construction cost control
- preparing & negotiating final accounts

In addition we also offer the following:

- project audits and evaluations
- forensic quantity surveying services
- whole life cost studies
- schedules of rates related services
- insurance reinstatement cost assessments

OUR CLIENTS

We have a track record of working with public and private sector clients that is backed by excellent customer feedback.

Clients include local authorities, government departments, police authorities, BAA, BT, Telewest, Metronet & HSBC.

CLIENT BENEFITS

We always provide clients with an experienced, named professional quantity surveyor to lead our cost consultancy services

We fully appreciate the importance of understanding our clients' objectives and tailor our cost consultancy services accordingly

We use our experience, systems and procedures to help provide cost certainty and to manage risk

We aim to provide our clients with measurable long term value for money

We use our unique public sector expertise to ensure the high standards required for public accountability are achieved

OUR CONTACT DETAILS

For further details of our services and to discuss how our professional quantity surveyors could help you, please contact

Tony Griffiths
5th Floor, Interchange
81-85 Station road
Croydon
CR0 2AJ

Tel: 0870 128 5220

E-mail: griffiths.tony@tpsconsult.co.uk