



2010

wiring accessories cable management domestic circuit protection



Acknowledged as one of Britain's leading manufacturers of wiring accessories and circuit protection equipment. Crabtree's diverse product range is renowned for its outstanding quality and excellent value for money.

Specified worldwide, Crabtree products are designed to satisfy the needs of specifiers, wholesalers, contractors and end-users in domestic, commercial and industrial markets alike.







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Crabtree's reputation for pioneering new concepts in the electrical industry – right from the acclaimed Lincoln Switch in 1919 to the launch of the Starbreaker Modular Circuit Protection System, and Platinum low profile & flat plate wiring accessories, put us at the forefront of manufacturing technology. It is this insight into our customers' needs, together with the technical expertise to turn innovative ideas into top quality products that has made Crabtree a market leader.

Left Electrium's purpose built Commercial Centre in Cannock,

Staffordshire

Crabtree is part of Electrium, one of the UK's largest electrical groups, which has offices and manufacturing sites in the UK, India, China and the Middle East.

WIRING ACCESORIES 4 **CAPITAL** POWER & CONTROL 14 CAPITAL & MINDER LIGHTING CONTROL 22 DATAPAK DATA, VOICE & PATCH PANELS 26 **ANTI-MICROBIAL** SELECTION OF WIRING ACCESSORIES 30 **PART M** SELECTION OF WIRING ACCESSORIES 34 SEEK LIGHT PROVIDES NIGHT ILLUMINATION 36 PLATINUM WHITE MOULDED 42 **PLATINUM** LOW PROFILE & FLAT PLATE 58 **TRANSFORM** SELECTION OF WIRING ACCESSORIES 68 CAPITAL METAL PLATE 78 CAPITAL METALCLAD 82 ROCKERGRID MODULAR SYSTEM 90 WEATHERSEAL WATER & DUST PROTECTED 98 CAPITAL INTERIORS & PANEL MOUNTING 102 CAPITAL BOXES & SERVICE ITEMS 106 **LSC** LUMINAIRE SUPPORT COUPLERS 108 LDB LUMINAIRE DISTRIBUTION BOXES

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All Crabtree products comply with the applicable British Standard specification and should be installed by suitably qualified personnel in accordance with the requirements of relevant legislation, regulations (including IEE Wiring Regulations) and the accepted practice in the industry.

The products listed or described in this publication may be protected by one or more patents, and/or registered designs and/or applications. A full list of patents registered designs and applications may be obtained from the company secretary of Electrium Limited.



CAPITAL POWER & CONTROL

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Capital power and control accessories are fully design co-ordinated to offer consistent styling and inherent safety features across a broad range of applications.

The range of socket outlets, fused connection units and switches is complemented by products which cater for specific applications such as cooker control units, shaver units, fan control switches and shower control switches.





Wide concave rockers are easy to operate.

Two earth terminals are fitted as standard to the Switched Single and Twin Socket.



Unique labyrinth switch design minimises visible arc flash and prevents front access to live parts.

Positive drive switch action prevents balancing between the 'on' and 'off' position and gives reliable indication of the contact position.



Shutter mechanism is operated by earth pin of plug.





13A SWITCHED SOCKET OUTLETS

BS 1363		PACK QTY	
1 gang SP		10	4304
1 gang DP		10	4304/D
1 gang DP fitted	with neon indicator	10	4304/3D
2 gang SP		5	4306
2 gang DP		5	4306/D
2 gang DP fitted	with neon indicator	5	4306/3D
Dimensions Mounting boxes	1 gang 86mm x 86mm 2 gang 146mm x 86mm 1 gang 9047 surface, SB65 2 gang 9048 surface, SB66		

• Large capacity terminals for easy wiring.

• Shallow back projection for ease of installation in a 25mm deep box.

• Fitted with two Earth terminals for use where compliance with BS7671: 2008

regulation 543-7 (IEE wiring Regulations).





13A UNSWITCHED SOCKET OUTLETS	

BS 1363		PACK QTY	
1 gang unswitched	ł	10	7255
2 gang unswitched	ł	5	7257
Dimensions Mounting boxes	1 gang 86mm x 86mm 2 gang 146mm x 86mm 1 gang 9047 surface, SB65 2 gang 9048 surface, SB665		

• Complete with 1 Earth Terminal.

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13A FUSED	CONNECTION U	NITS	
BS 1363 PACK QTY			
DP Switched		10	4827
DP Switched with	neon indicator	10	4827/3
Unswitched		10	4828
Unswitched with neon indicator		10	4828/3
Dimensions Mounting boxes	86mm x 86mm 9047 surface, SB655 flu	sh galv. or SB619 c	dry lining

• Fitted with knock-out position in bottom edge of plate for use with or without cord outlet. Suitable for flexible cord up to 10mm outside diameter.

- Fused on the line side with a 13A fuse link.
- Fuse marked to BS1362. For spare fuse links see page 8.
- With fuse removed, carrier may be padlocked for extra on site 'maintenance' safety.
- Suitable padlock see page 143.
- Shallow back projection for ease of installation in a 25mm deep box.

13A SWITCHED	SOCKET OUTBOARD ROCKERS
BS 1363	PACK QTY

BS 1363	P	ΡΑϹΚ QTY	<i>,</i>
2 gang DP outboa	ard rockers	5	4307
2 gang DP outboa	rd rockers with neon indicator	5	4307/3
Dimensions	2 gang 146mm x 86mm		
NA			DCOO L L'.

 Mounting boxes
 2 gang 9048 surface, SB665 flush galv. or SB629 dry lining

 Large capacity terminals for easy wiring.

Shallow back projection for ease of installation in a 25mm deep box.

• Fitted with two Earth terminals for use where compliance with BS7671: 2008 regulation 543-7 (IEE wiring Regulations).



13A SAFETYSOCKET WITH RCD PROTECTION

BS 7288	PACK QTY	
2 gang switched with neon indicator 30mA tripping current	1	4406/A03

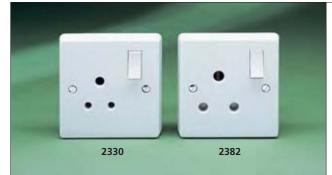
 Dimensions
 146mm x 86mm

 Mounting boxes
 9048 surface, SB665 flush galv. or SB629 dry lining

 See page 150 for further information

See page 159 for further information.

Can be installed to replace any 2 gang size socket outlet on 25mm deep box. All available with two earth terminals to enable installation to comply with BS7671: 2008 regulation 543-7 (IEE wiring Regulations).



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5A, 15A SWITCHED SOCKET OUTLETS

BS 546	PACK QTY	
5A Shuttered SP	10	2330
15A Shuttered SP	10	2382
Dimensions Mounting boxes	86mm x 86mm 2330 – 9047 surface, SB655 flush galv. or SB619 dry lining 2382 – 9041 surface, SB615 flush galv. or SB619 dry lining	

2A, 5A, SOCKET OUTLETS

BS 546 WHERE APP	LICABLE	PACK QTY	
2A Unswitched shu	ttered	10	7046
5A Unswitched shuttered		10	7047
Dimensions Mounting boxes	86mm x 86mm 7044, 7046, 7047 or SB619 dry lining	–9047 surface, SB655 fl J	ush galv.



15A 125V AMERICAN STANDARD SOCKET OUTLETS

NEMA CONFIGURA	TION 5-15	PACK QTY	
2 gang Horizontal		5	7062
Dimensions	2 gang 86mm x 146mm		
Mounting boxes	2 gang 9048 surface, SB665 flush galv. or SB629 dry lining		

Tunnel Type termination accepts 6.0mm² cable (7062).



BLANKING PL	ATES		
BS 5733 WHERE APP	PLICABLE	PACK QTY	
1 gang		20	4001
2 gang		20	4002
1 gang architrave		20	4003
2 gang architrave		20	4004
Dimensions1 gang 86mm x 86mm, 2 gang 146mm1 gang architrave 33mm x 86mm2 gang architrave 33mm x 146mm		ve 33mm x 86mm	86mm

Prabtree



13A FUSED RESILIENT PLUGS

BS 1363/A PACK QTY Fused at 13A – White 10

7222/WH

Live and neutral pins have moulded nylon sleeves for safety.

Cover in rubber material. Base in nylon.

Fitted with fuse-link marked to BS 1362, List No. 6920/13, see below.

13A NON-INTERCHANGEABLE PLUGS

	PACK QTY		
Fused at 13A – White	10	13NP	

Only for use with Britmac non-standard floor box sockets



13NP

2A,5	5A, 1	5A	PLU	GS
------	-------	----	-----	----

BS 546	PACK QTY	
2A	10	7011
5A	10	7111
15A	10	7211

Moulded from white thermoset plastic. Live and neutral pins have moulded nylon sleeves for safety. Round pin plugs are not fused.



FUSE LINKS

100	6920/3
100	6920/5*
100	6920/13
	100

Type tested to BS 1362 and ASTA certified.

* Price and delivery on application.

4018



3A CARD SWITCH

BS 5733

PACK QTY 3A Card Switch 5

Dimensions 86mm x 86mm SB655 flush galv. or SB619 dry lining Mounting boxes Controls energy consumption in installations such as hotels by ensuring that appliances

are not left on when rooms are unoccupied.

The switch is operated by a door entry card and controls the supply to a room via a suitably rated contactor.

Will accept door entry cards up to 86mm x 54mm x 1mm.

Mounting box must be minimum 25mm in depth.

Fitted with neon for illumination through Card Switch entry see page 170.

6A TP CONTROL SWITCHES

5	4017
5	4017/1
ish galv. or SB619	dry lining
	5 ish galv. or SB619

Enables repair or routine maintenance of fans. 240V only.

For full details of compliance with BS EN 60947-3 see Technical Data page 165.

20A DP CONTROL SWITCHES

BS EN 60669-1		PACK QTY	
20A DP Control Sw	itch	10	4015
Fitted with neon inc	dicator	10	4015/3
Fitted with neon inc 'water heater'	dicator and marked	10	4015/31
Dimensions Mounting boxes	86mm x 86mm 9047 surface, SB655	flush galv. or SB619	9 dry lining
Fitted with knock out po without cord outlet.	osition in bottom edge of p	late for use with or	

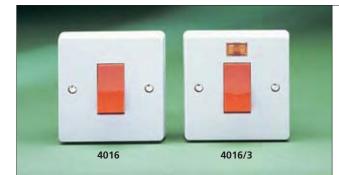
Cord outlet suitable for flexible cord up to 10mm outside diameter. Two earthing terminals are fitted to the switches.

32A DP CONTROL SWITCH

BS EN 60669-1		PACK QTY	
Fitted with neon inc	dicator	10	4013/3
Dimensions	86mm x 86mm		
Mounting boxes	9041 surface, SB615	flush galv. or SB619	9 dry lining

without cord outlet.

Cord outlet suitable for flexible cord up to 10mm outside diameter. Two earthing terminals are fitted to the switches.



45A DP CONTROL SWITCHES

BS EN 60669-1		PACK QTY	
45A DP Control S	witch	5	4016
With neon indicat	or	5	4016/3
Dimensions	86mm x 86mm		
Mounting boxes	9041 surface, SB615 flush	galv. or SB619 dry	y lining
Dual Screw Terminal .			

CAPITAL CONT ア \bigcirc









45A DP 'SLIM LINE' COOKER CONTROL UNITS

BS 4177 & BS	1363	PACK QT	Y
	witch and 13A switch socket te marked 'cooker'	1	4521/1
	witch and 13A switch socket v s. Faceplate marked 'cooker'	vith 1	4521/31
Dimensions	146mm x 86mm		

Mounting boxes 9054 surface, SB625 flush galv. or SB629 dry lining

• Same plate size as standard twin socket.

• Large capacity tunnel terminals on live and neutral take up to 10mm² cable.

• Two earth terminals are fitted.

• Separate double pole switching for both cooker and socket outlet.

45A DP COOKER CONTROL UNITS

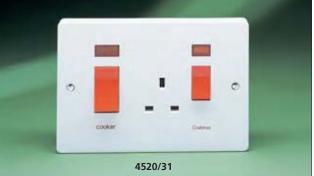
BS 4177 & BS 13	363	ΡΑϹΚ QT	(
	itch and 13A switch socket marked 'cooker'	1	4520/1
	itch and 13A switch socket v Faceplate marked 'cooker'	vith 1	4520/31
Dimensions	168mm x 114mm		
Mounting hoves	ODE2 surface or 0228/CV/ fluch		

Mounting boxes 9052 surface or 9338/GV flush

50A DP COOKER CONTROL UNITS

		PACK	QT	Y
Faceplate marke	d 'cooker'	1		4523
Faceplate marked and fitted with n		1		4523/3
Blank Faceplate		1		4211/BLANK
Dimensions Mounting boxes	165mm x 178mm For 'retro fit' applications -	- allows use o	f or	riginal flush box

• Durable white powder coated metal faceplate.





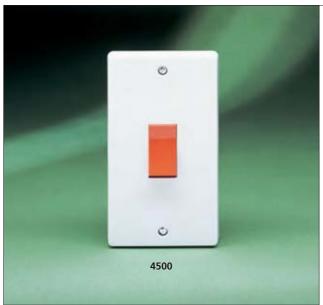
4506 rear view

4506 4507

45A CABLE OUTLETS BS 5733 PACK QTY 10 4506 With terminals and cable clamp Terminals will accept 2 x 10mm² cable With cable clamp 10 4507 Cable clamp will accept $1 \times 16 \text{mm}^2$ through cable Dimensions 86mm x 86mm Mounting boxes 9041 surface, SB615 flush galv. or SB632 dry lining

Cable knock-out in cover prevents access to terminals before outgoing cable is fitted.

CAPITAL CONTROL



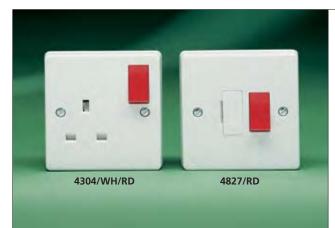
50A DP CONT	ROL SWITCHES		
BS EN 60669-1		PACK QTY	
50A DP Control Swi	tch	5	4500
Faceplate marked 'c	ooker'	5	4500/1
Fitted with neon ind	licator	5	4500/3
Faceplate marked 'c neon indicator	ooker' and fitted with	5	4500/31
Dimensions Mounting boxes	86mm x 146mm 9040 surface, SB625 fli	ush galv. or SB62	9 dry lining
BS EN 60947-3 rating 24	10V 50A category of duty AC	22.	



20A CORD	OUTLET

BS 5733		PACK QTY	
With cable clamp)	10	4075
Dimensions	86mm x 86mm		
Mounting boxes	9047 surface, SB655 flush ga	lv. or SB619 dry	lining
0 1 1 1 2 5	2 :1 44 1: 1		

Outgoing cable 2.5mm² max with 11mm diameter max outer sheath.



RED ROCKERS

For applications where essential supply systems are in use, sockets and fused connection units with red rockers are available to order. These are ideal for use in hospitals, computer installations, etc.

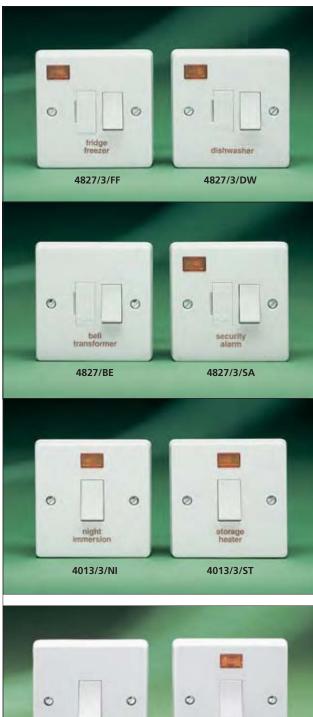
To order add suffix to List No.

ie 4306 with red rockers = 4306/WH/RD.

- 4304 with red rockers = 4304/**WH/RD**. 4827 with red rockers = 4827/**RD**.
- 4307 with red rockers = 4307/RD.

All the above come complete with two Earth terminals for use where compliance with BS7671: 2008 regulation 543-7 (IEE wiring regulations).

For Rockergrid switches with Red rockers see Rockergrid section page 86. For products with a Red Frontplate and Red Rocker please see selection in the Antimicrobial section (page 28). Crabtree



12

dorage beater

4015/ST

fridge

4304/D/FR

cupboard light

4015/3/CL

drye

4304/D/DY

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PRODUCT MARKING SERVICE

A wide range of markings can be added to 13A fused connection units and double pole control switches. The majority of these markings are consistent in style, colour and position with the standard Tampoprinted 'water heater' marking on List No.4015/31. All of the markings offer the same high level of durability.

To order any of the markings listed below, add suffix to List No. ie 4827 marked 'fridge freezer' = 4827/**FF**.

MARKING	SUFFIX	MARKING	SUFFIX
air conditioner	AC	humidity vent	HV
alarm	AL	intruder alarm	IA
appliance	APP	immersion heater	IH
bathroom	BA	infra red sauna	IRS
bell transformer	BE	jacuzzi	JA
bathroom extract fan	BEF	kitchen extract fan	KEF
bathroom heater	BH	light	LG
boiler	BO	lift	LI
boiler supply	BOS	loft light	LL
boost	BST	microwave	MW
British Telecom	BT	night immersion	NI
caravan	CA	off peak	OFFP
CCTV	CCTV	outside light	OL
central heating	СН	on peak	ONP
cooker	СК	oven	OV
cupboard light	CL	pelmet light	PEL
convector heater	CNH	plinth heater	PLH
day boost	DB	panel heater	PH
detector	DE	refrigerator	RF
downflow heater	DH	security alarm	SA
door bell	DO	socket below	SB
dish washer	DW	smoke detector	SD
dryer	DY	security equipment	SE
emergency circuit	EC	saniflo	SF
extractor fan	EF	shower	SH
extractor hood	EH	security light	SL
fire alarm	FA	shower pump	SP
for cleaners use only	FCO	storage heater	ST
fan coil unit	FCU	steam cabinet	STC
feature fire	FE	stair lift	STL
fridge/freezer	FF	tanning cabinet	тс
fan heater	FH	tumble dryer	TD
fire	FI	towel rail	TR
fan	FN	traditional sauna	TS
fridge	FR	TV amplifier	TVA
freezer	FZ	underfloor heating	UH
gas ignition	GI	underlights	UL
garden shed	GS	vent fan	VF
hand dryer	HA	water heater	WA
hob	HB	water cooler	WC
cooker hood	HD	waste disposal	WD
heating	HG	washing machine	WM
hair dryer	HI	washer	WS
heating isolator	HS		
heater	нт		

These popular markings are offered on a fast track service in the standard wiring accessories colour. For price and delivery information on other markings not listed above, contact our Technical Services Department.

ΗT

heater





SHAVER SUPPLY UNIT

BSEN 61558-2-5 240V 50Hz input 115V 50Hz output { 240V 50Hz PACK QTY

1

2400

Dimensions 86mm x 146mm

Mounting boxes 9053 surface, SB628 flush galv. or SB631 dry lining

Complies with the requirements of the IEE Wiring Regulations (BS 7671) for use in rooms containing a fixed bath or shower.

2402/E

LIGHT & SHAVER UNIT

B2 EN 6	51558-2-5, BS 4	4533-102.1	PACK QIY	
input	240V 50Hz	Unswitched	1	2402/E
output	{ 115V 50Hz 240V 50Hz			
60W 2	84mm tungsten	lamp		
Dimens	ions	492mm x 59mm x 70mi	m	
	s with the requirem ontaining a fixed ba	ents of the IEE Wiring Regu ath or shower.	ulations (BS 7671) for use in
	& SHAVER UNIT	all-moulded constructio	n	

- Diffuser is removed complete with lamp fitting to facilitate safer lamp changes.
- 60W lamp can be switched independently by a separate pull switch.
- Moulded back-plate may be used as a template.
- The transformer incorporated in this product has an isolating 20VA loading and outputs of 230V & 115V.
- Suitable for use for 'Mains shavers only'.
- Incorporates an automatic thermistor protection device.
- Accepts most standard British, Continental, American and Australian 2 pin plugs.
- Pull switch operates both lamp and socket.



16A CEILING SWITCHES

BS EN 60669-1		PACK QTY	
2 way SP		10	2161
1 way DP with neon indicator		10	2163
Dimensions Mounting boxes	68.5mm diameter x 42.5mm Integral pattress for surface mounting. Can be mounted to a small circular conduit box.		uit box.

Two way switch may be wired as one way.

Standard pull cord/acorn is 1.5m long, in white.

Fully rated for fluorescent or inductive loads.

Suitable for use with 16mm x 16mm mini-trunking.

50A CEILING S	WITCHES		
BS EN 60669-1		PACK QTY	
1 way DP with neon a mechanical indicator	and	1 2167	
Mounting boxes	Integral pattress for Can be mounted to	5	luit box.
Complies with the required isolating device. Terminals will accept up to Standard pull cord/acorn is Suitable for use with 25m Rated for non-inductive lo	o 10mm² cable. s 1.5m long, in white. m x 16mm trunking.	Regulations (BS 7671,) for use as an



For 6A ceiling switches see Capital Lighting section, page 17.



The extensive Capital lighting range of plate switches and ceiling accessories combines modern styling with advanced safety design features.

The standard range of ceiling accessories now offers a competitive alternative to the safety range.

The new compact fluorescent lampholder allows domestic dwellings to have some form of energy efficient lighting.



Wide concave rockers are easy to operate. Unique Labyrinth Switch design minimises visible arc flash and prevents front access to live parts



9

Design of the Safety lampholder body is common to both pendant and batten lampholders. This ensures that the lamp must be fully inserted before the lampholder contacts become 'live'.

MINDER PIR SENSORS

Minder passive infra red sensors (PIR) allow for the automatic control of lighting and other equipment.



Energy saving – Provides power only when movement is detected.



Courtesy – Automatic illumination of doorways to welcome visitors.

Security – Automatic lighting control to deter intruders.





10AX PLATE SWITCHES PS EN 60660 1

BS EN 60669-1	PACK QTY	
1 gang 1 way SP	10	4070
1 gang 2 way SP	10	4170
1 gang 1 way DP	10	4171
2 gang 2 way SP	10	4172
3 gang 2 way SP	10	4173
4 gang 2 way SP	5	4174
1 gang intermediate	10	4175
6 gang 2 way SP	5	4176
Dimensions 1–3 gang 86mm x 86mm		

1–3 gang 86mm x 86mm

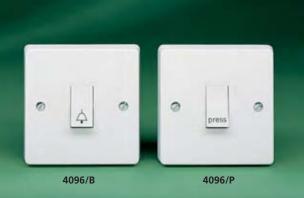
4-6 gang 146mm x 86mm Mounting boxes 1-3 gang 9043 surface, SB623 flush galv. or SB619 dry lining 4-6 gang 9048/1 surface, SB665 flush galv. or SB629 dry lining

Two way switches can be wired as one way.

Fully rated for fluorescent or inductive loads.

• All 86mm x 86mm switches will flush mount with seek light shown on page 35.

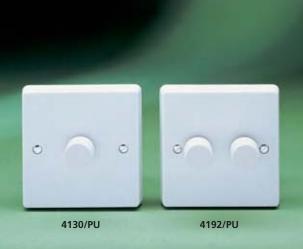




10A RETRACTIVE SWITCHES		
BS EN 60669-1	PACK QTY	
1 gang 1 way SP marked with bell symbol	10	4096/B
1 gang 2 way SP marked with bell symbol	10	4096/2WB
1 gang 2 way SP marked 'press'	10	4096/P
1 gang 2 way SP marked 'press' with Red Rocke	er 10	4096/P/RD
1 gang 2 way SP	10	4096/NM
1 gang 2 way SP marked 'press to exit' in Gree	en 10	4096/G/PE
Dimensions 86mm x 86mm Mounting boxes 9043 surface, SB623 flush galv. or	r SB619 dry li	ining

• All 86mm x 86mm switches will flush mount with seek light shown on page 35.

• Can be wired for normally open (N/O) or normally closed (N/C) circuits.



DIMMER	SWITCHES

BS EN 55014 BS EN 60669-2-1		
ROTARY MODULES	PACK QTY	
1 gang 250W - Push on/off	10	4130/PU
2 gang 250W - Push on/off	10	4132/PU
1 gang 400W - Push on/off	10	4190/PU
2 gang 400W - Push on/off	10	4192/PU
Dimensions1-2 gang 86mm x 86mmMinimum installation depth 35mm		

• Suitable for Tungsten filament lamps.

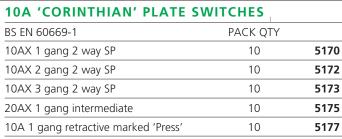
2 x 400W dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.



5176







Dimensions 86mm x 86mm

 Mounting boxes
 9047 surface, SB623 flush galv. or SB619 dry lining

 Intermediate switches require a 29mm back box.

10

Fully rated for fluorescent or inductive loads.

20AX 1 gang DP

Clip-on trim conceals fixing screws.Extra wide rocker makes Corinthian ideal for use in sheltered housing installations.

6A CEILING SWITCHES

BS EN 60669-1		PACK QTY	
1 way SP		10	2041
2 way SP		10	2141
Retractive SP		10	2147
Dimensions	68.5mm dia x 42.5mm		
Mounting boxes	Complete with pattress for surface mounting. Can be mounted to small circular conduit box.		5

Two way switch can be wired as one way.

Retractive switch can be wired for normally open (N/O) or normally closed (N/C) circuits. Standard pull cord/acorn is 1.5m long in white.

Retractive pull cord/acorn is 2m long in red.

Fully rated for fluorescent or inductive loads.

Variations to retractive switch are available to order.

For 16A & 50A ceiling switches see Capital Power & Control section, page 13.

10AX ARCHITRAVE SWITCHES

BS EN 60669-1		PACK QTY	
1 gang retractive	e SP marked with bell symbol	10	4097/B
1 gang retractive	e SP marked 'press'	10	4097/P
1 gang 2 way SP	1	10	4177
2 gang 2 way SP	1	10	4178
1 gang 1 way DF)	10	4179
1 gang intermed	iate	10	4180
Dimensions Mounting boxes	1 gang 32mm x 86mm 2 gang 32mm x 146mm 1 gang 4005 surface or 9257 flu 2 gang 4006 surface or 9258 flu		
,	an be wired as one way. scent or inductive loads.		

Fully rated for fluorescent or inductive loads.

Retractive switches can be wired for normally open (N/O) or normally closed (N/C) circuits. Retractive switches are 10A rated.

SHAVER SUPPL	YUNIT		
BS EN 61558-2-5		PACK QTY	
input 240V 50Hz	output {	1	2400

LIGHT & SHAVER U	NIT		
BS EN 61558-2-5, BS 4533-1	02.1	PACK QTY	
input 240V 50Hz output { 115V 50Hz 240V 50Hz 60W 284mm tungsten lamp	Unswitched	1	2402/E

For more information on the Shaver Unit see page 13.







SAFETY PENDANT LAMPHOLDERS

BS EN 61184, T2 RATING	PACK QTY	
Safety pendant lampholder	20	5850

Fixed terminals on pendant lampholder accept 1.0mm cable.

- 'Wipe clean' contacts avoid lamp seizure to pins making for safe and easy lamp replacement.
- Cord grip on pendant lampholder prevents strain on the terminal wiring.





SAFETY BATTEN LAMPHOLDERS

BS EN 61184, T2 RATING	PACK QTY	
Safety batten lampholder	1	5851
Home office shield	50	5801

Batten lampholder has terminals for live, neutral, loop in and protective earth. Fixing centres 50.8mm.

Fixed terminal strip on batten lampholder accepts 1.5mm cable. Home office shield supplied with the safety batten lampholder.

Base diameter 92mm.

• 'Wipe clean' contacts avoid lamp seizure to pins making for safe and easy lamp replacement.

SAFETY PENDANT SETS

BS67 BS EN 61184, T2 RATING	PACK QTY	
With 6" cord	10	5855
With 9" cord	10	5855/9
With 12" cord	10	5855/12

Comprises safety ceiling rose (List No. 5860) and safety pendant lampholder (List No. 5850), supplied with appropriate length of heat resistant 0.75mm² twin core circular cord to BS 6141 for service loads up to 2.5kg.

SAFETY HEAVY DUTY PENDANT SET

BS67 BS EN 61184, T2 RATING	PACK QTY	
With 6" cord	10	5856

Comprises heavy duty ceiling rose (List No.5861) and safety pendant lampholder (List No. 5850), supplied with appropriate length of heat resistant 0.75mm² twin core circular cord to BS 6141 for service loads up to 2.5kg.





SAFETY LAMPHOLDER PENDANT SET

BS67 BS EN 61184, T2 RATING	PACK QTY	
With 6" cord	10	5855/S
With 9" cord	10	5855/S9
With 12 " cord	10	5855/S12

Comprises standard ceiling rose (List No. 3443) and safety pendant lampholder (List No. 5850), supplied with appropriate length of heat resistant 0.7mm² twin core circular cord to BS 6141 for service loads up to 2.5kg.



LOW ENERGY LAMPHOLDERS

10/13W LOW ENERGY LAMPHOLDERS FOR 4 PIN CFLs

	PACK QTY	
6" pendant set with	1	3450/LECFL
compact fluorescent lampholder		
Compact fluorescent batten lampholder	1	5870/LECFL

• Lampshade requires 42mm diameter.

- Will accept 10/13W G24q1 or 18W G24q2, 4 pin plug in lamp (not supplied).
- See page 173 for Technical details.



5861

SAFETY CEILING ROSE

BS 67	PACK QTY	
Safety ceiling rose	10	5860
Terminals for live, neutral, loop in and pro	otective earth.	
Fixed terminal strip accepts 1.5mm cable.		
For service loads up to 2.5kg.		
Fixing centres 50.8mm.		
Base diameter 92mm.		

Cord grip prevents strain on the terminal wiring.

HEAVY DUTY CEILING ROSE BS 67 PACK QTY

Heavy duty ceiling rose	10	5861
Terminals for live, neutral, loop in and protective earth.		
Base diameter 81mm.		
• Two screw cover fixing giving strong secure fixing and	d automa	atic earthing

- Two screw cover fixing giving strong secure fixing and automatic earthing of decorative luminaires.
- 15kg load capacity.
- Integral pattress for surface mounting.
- Can be mounted on circular conduit box.



STANDARD CEILING ROSE

BS 67	PACK	QTY	
Ceiling rose with integral terminal block	1	0	3443

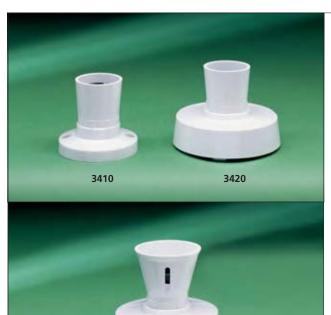
- Terminals accept up to 1.5mm² cable.
- Separate earth terminals with 6mm² capacity.
- 50.8mm fixing centres.
- 3 sets of knockouts.



STANDARD CEILING HALO

	PACK QTY	
Ceiling Halo	10	3443/HALO
The Ceiling Rose Halo gives a neat finish should the ceil	ing be damaged.	

• Outside diameter 120mm.



STANDARD ST	RAIGHT BATTEN	I LAMPHO	LDERS
BS EN 61184, T2 RAT	ſING	PACK QTY	
Batten lampholder, 3 wiring with short skir		10	3410
Batten lampholder, ir block with short skirt		10	3420
Batten lampholder, ir block with Home Off		10	3422
Replacement standar	d short skirt	50	3401
Dimensions	3410 - 64.2mm Dia 3420, 3422 - 89mm Dia	3	

• 50.8mm fixing centres.

• Non-rising terminals.

• Non-stick skirt.

• 3 sets of knockouts are supplied on units with integral terminal block.

• 3420, 3422 fitted with heat resistant tails.



3422

STANDARD ANGLE BATTEN LAMPHOLDERS

	PACK QTY	BS EN 61184, T2 RATING
3432	10	Angle batten lampholder, seperate 4 way terminal block with Home Office skirt
-	10	5

• Lampholder is fitted with heat-resistant tails.

• Supplied with integral backplate.

• 50.8mm fixing centres.

• Non-rising terminals.

• Non-rising skirt.



STANDARD PENDANT SETS & LAMPHOLDERS

PACK QTY	
10	3442
10	3450
10	3450/9
	10

Pendant sets comprise ceiling rose (List No 3443) and pendant lampholder (List No. 3442), supplied with appropriate length of heat resistant 0.75mm² twin core circular cord.

• Lampholder is constructed from one-piece thermoplastic interior.



STANDARD JUNCTION BOXES

BS 6220	PACK QTY	
20A 4 terminal junction box, white	10	3462/WH
20A 4 terminal junction box, black	10	3462/BK
30A 3 terminal junction box, white	10	3463/WH
30A 3 terminal junction box, black	10	3463/BK

• Slotted pillar-type terminals accept a maximum 4 x 4.0mm² (30A) or 4×1.5 mm² (20A) twin and earth cables.

• Shutters on cover close any entry holes not in use.

• clear symbols indicate which entries are open and closed.



MINDER 90°, 220° & 280° SENSORS				
IP55	PA	PACK QTY		
	otion detector which switches c nen sources of heat move within			
5	8 sensor, no remote control, 12M frontal, 6M lateral	1	6853	
5	IR sensor, c/w remote control, 16M frontal & lateral	1	6845	
5	IR sensor, c/w remote control, 16M frontal & lateral	1	6846	
Dimensions	102mm x 102mm x 182mm			

- Sensor head can be swivelled horizontally +/-65° • Can be wall or ceiling mounted
- Minder 90° and 220° offer rear-field "anti-creep" protection
- Maximum Switching current 16AX



IP55	PACK Q	ΓY
,	0 Deg PIR sensor, c/w remote 1 range 16M frontal & lateral	6849
Dimensions	102mm x 102mm x 182mm	
Sensor head can beCan be wall or ceili	rear-field "anti-creep" protection	

Full technical information - see page 168.

ANCILLIARY ITEMS

	PACK QTY	
Corner mounting bracket	1	6887
Manual remote control	1	6841
Service Manual remote control	1	6842





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FM-DAB

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Crabtrees Datapak range compliments the complete Capital and Platinum range of products.

The range consists of a wide variety of Communications, Data and co-axial outlets.







7081/2

7081

COMMUNICATION MODULES

	PACK QTY	
BT Master Voice	25	7080
BT Master Voice, Left Handed	25	7080/LH
BT secondary Voice, 6 wire	25	7071
RJ45 (single) module, 8 wire – Category 5e	25	7172
RJ45 (single) module, 8 wire – Category 6	25	7177
RJ45 ISDN terminated	25	7174
RJ11/12	25	7086
PABX Voice	25	7176
RJ45 (Twin) module	25	7173

Dimensions 25mm x 50mm (1 Module) Also available in Black - Add suffix **BK** to list No. ie: BT Master in Black = 7080/**BK**.

ie. Di Mastel III Diack = 7080/**BR**.

	PACK QTY	
BNC single module with 75 Ohm crimp connector	25	7074
TV outlet (male)	25	7065
TV outlet (female)	25	7067
F type Satellite	25	7069
Triplex Unit (TV, FM, Sat)	25	7063
Quadplexer with TV return (TV, TV return, FM, Sat1 & Sat 2)	10	7064
Quadplexer (TV, FM, Sat1 & Sat 2)	10	7066
TV outlet screened, return	25	7060
Phono (Female)	25	7087
Also available in Black - Add suffix BK to list No. ie: triplex unit in black = 7063/ BK .		
Dimensions 25mm x 50mm (1 Module) (except 7063, 7066 – 50mm x 50mm & 7064 – 75mm x 50mm)		

BLANK MODULES & ACCESSORIES

	PACK QTY	
¹ /2 module size	25	7081/2
1 module size	25	7081
2 module size	10	7082
IDC Tool	20	6915
IDC Crimp Tool	1	7915
Also available in Black - Add suffix BK to list No.	ie: 1 module blank in	black = 7081/ BK .
Dimensions 7081/2 12.5mm x 50mm		
7081 25mm x 50mm		

See page 172 for further Technical details.





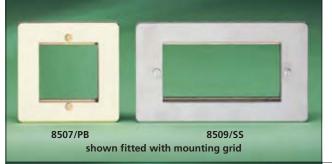
G PLATES CAPITAL	•	
e applicable	PACK QTY	
ded	10	7091
ded	10	7094
plate (fitted with grid)	5	8091/_
plate (fitted with grid)	5	8092/
plate (fitted with grid)	5	8094/
86mm x 146mm, 4 mod es 7091, 8091*, 8092*, 9041 surface, SB615 flue 7094, 8094*,	ule sh galv. or SB619	, ,
	E APPLICABLE ded ded plate (fitted with grid) plate (fitted with grid) plate (fitted with grid) 86mm x 86mm, 1 & 2 m 86mm x 146mm, 4 mod res 7091, 8091*, 8092*, 9041 surface, SB615 flus 7094, 8094*,	ded 10 ded 10 plate (fitted with grid) 5 plate (fitted with grid) 5 plate (fitted with grid) 5 86mm x 86mm, 1 & 2 module 86mm x 146mm, 4 module res 7091, 8091*, 8092*, 9041 surface, SB615 flush galv. or SB619

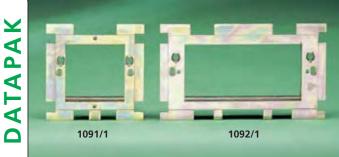
* Metal plates complete with mounting grid and available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC) and Polished Brass (PB) finishes.



	-

7507/SC 7509/HPC shown fitted with mounting grid





MOUNTING GRIDS – SEPARATE SALE

	PACK QTY	
2 module grid	10	8092/1
4 module grid	10	8094/1

Separate sale grids enable communications modules to be mounted in OEMs own decorative plates.

Supplied complete with earthing tag.

MOUNTING PLATES PLATINUM LOW PROFILE

BS 5733 WHERE APPLICABLE	PACK QTY	I
2 module	10	7507/
4 module	10	7509/

 Dimensions
 2 module 88mm x 88mm, 4 module 88mm x 148mm

 Finishes available are: Satin Chrome (SC) Highly Polished Chrome (HPC)
 8 Polished Brass (PB).

, onorica brass (, **_**).

MOUNTING PLATES PLATINUM FLAT PLATE

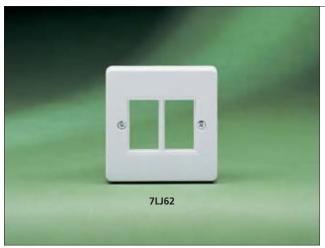
BS 5733 WHEF	RE APPLICABLE	PACK QTY	
2 module		10	8507/
4 module		10	8509/
Dimensions	2 module 86mm x 8	6mm, 4 module 86mm >	(146mm
Finishes available	are: Stainless Steel (SS) Pol	ished Stainless Steel (PSS)	

& Polished Brass (**PB**).

MOUNTING PLATES PLATINUM GRID

	PACK QTY	
2 module	10	1091/1
4 module	10	1092/1

Supplied complete with earth terminal.



MOUNTING PLATES LJU6C

		PACK QTY	
Mounting Pla	te 1 x LJU6C 1G	10	7LJ61
Mounting Pla	te 2 x LJU6C 1G	10	7LJ62
Mounting Pla	te 4 x LJU6C 2G	5	7LJ64
Dimensions	1 Gang 86mm x 86mm 2 Gang 86mm x 146mm		

Mounting boxes 9047 surface, SB655 flush galv. or SB619 dry lining

LJU6C cutout Dimensions 36.6mm x 22.2mm

265

CO-AXIAL SOCKET OUTLETS-DIRECT CONNECTION

BS 3041 WHERE	APPLICABLE	PACK QTY	
1 way direct con	nection	10	7265
2 way direct con	nection	10	7266
Dimensions Mounting boxes	86mm x 86mm 9047 surface, SB655	i flush galv. or SB619 dry lining	

CO-AXIAL SOCKET OUTLETS-ISOLATED

BS 3041 WHE	RE APPLICABLE	PACK QTY	
1 way isolated	d UHF, VHF	10	7267
2 way isolated	d UHF, VHF	10	7268
Dimensions	86mm x 86mm		

Mounting boxes 9047 surface, SB655 flush galv. or SB619 dry lining

Isolated UHF, VHF socket outlets for network systems (group aerials & sockets). Isolated units only suitable on installations with earth bond.



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7267

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7268

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TELEPHONE SOCKET OUTLETS

		1	
BS 7671		PACK QTY	
IDC tool		20	6915
Single master		10	7283
Single secondary		10	7284
RJ11 Telephone	socket	10	7286
Dual outlet adap	tor	10	7288
Dimensions Mounting boxes	86mm x 86mm 9047 surface, SB655 flush galv.	or SB619 dry lining	

BT approved by the Department for Trade and Industry.

DATAPAK





ANTI MICROBIAL

Crabtree have partnered with BioCote® to introduce a range of wiring accessories which offer a second level of protection against microbial cross-contamination.

The active ingredients used in BioCote® products are incorporated during the manufacturing process and are therefore present and active for the life of the product.

Infection control is becoming increasingly important within healthcare environments, the target being the prevention of Hospital Acquired Infections (HAIs).

BS ISO 22196:2007 Plastics measurement of antibacterial activity on plastic surfaces.

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3S 1363	ΡΑϹΚ (ŶŢĊ
13A 1 gang DP socket	10	AM4304/D
13A 2 gang DP socket	5	AM4306/D
13A 2 gang DP socket, Outboard Rockers	5	AM4307

All Switched Sockets come complete with two Earth terminals.



13A SOCKET OUTLETS COLOURED

BS 1363 P	PACK QTY	
13A 1 gang DP switched socket Green Rocke	er 10	AM4304/D/GRN
13A 1 gang DP switched socket all RED	10	AM4304/RED
13A 1 gang DP switched socket all BLUE	5	AM4304/DCE/BLUE*
13A 2 gang DP switched socket all RED	5	AM4306/RED
13A 2 gang DP switched socket all BLUE outboard rocker	5	AM4307/DCE/BLUE*
13A 1 gang unswitched socket all BLUE	10	AM7255/CE/BLUE*
13A 2 gang unswitched socket all BLUE	5	AM7257/CE/BLUE*

• All Switched Sockets come complete with two Earth terminals.

• Clean Earth sockets come with two isolated earth terminals.

* Blue Sockets available Summer 2010

13A FUSED CONNECTION UNITS

BS 1363	PACK QTY
13A DP switched Fused Connection Unit	10 AM4827
13A DP switch FCU + neon	10 AM4827/3
13A Un-switched Fused Connection Unit	10 AM4828
13A Un-switched FCU + neon	10 AM4828/3
13A DP switched FCU all RED	10 AM4827/RED
13A Un-switched FCU all RED	10 AM4828/RED

• Fitted with knock-out position in bottom edge of plate for use with or without cord outlet. Suitable for flexible cord up to 10mm outside diameter. • Fused on the line side with a 13A fuse link.

• Fuse ASTA certified and marked to BS1362. For spare fuse links see page 8.

10AX & 20AX CONTROL SW	/ITCHES
BSEN 60669-1	PACK QTY
20A DP switch	10 AM4015
20A DP switch + neon	10 AM4015/3
10AX 2 way 1 gang switch Flush	10 AM4170
10AX 2 way 2 gang switch Flush	10 AM4172
10AX Intermediate 1 gang switch Flush	10 AM4175



For Technical information on Crabtree Anti Microbial See page 174.

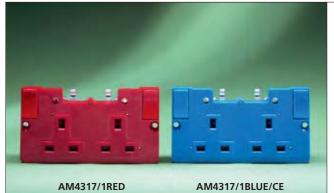




13A SOCKET INTERIORS		
BS 1363	PACK QT	Y
13A 1 gang SP switched socket	10	AM4314/1
13A 1 gang DP switched socket	10	AM4314/1D
13A 2 gang SP switched socket	5	AM4316/1
13A 2 gang SP switched socket c/w neon	5	AM4316/13
13A 2 gang DP switched socket	5	AM4316/1D
13A 2 gang DP switched socket o'board roc	ker 5	AM4317/1
2A 3 pin unswitched socket shuttered	10	AM8075/1

• All Switched Sockets come complete with two earth terminals.

13A SOCKET INTERIORS - COLOURED





BS 1363	PACK QTY
13A 2 gang SP switched socket Red Rocker	5 AM4316/1RD
13A 2 gang DP switched socket Red Rocker	5 AM4316/1D/RD
13A SOCKET INTERIORS - OU	TBOARD ROCKER
13A 2 gang DP switched socket all RED	5 AM4317/1RED
13A 2 gang DP switched socket all Blue Clean Earth	5 AM4317/1BLUE/CE
13A UNSWITCHED SOCKET IN	TERIORS
13A 2 gang unswitched socket all RED twin e	earth 5 AM8257/1RED/TE
13A 2 gang unswitched socket all BLUE Clean Earth	5 AM8257/1BLUE/CE

• All Switched Sockets come complete with two earth terminals.

• Clean Earth sockets come with two isolated earth terminals.

ROCKERGRID SWITCHES

BS EN 60669-1	PACK QTY	(
10AX 1 way	10	AM4430
Fuse unit fitted 13A ASTA certified fuse link	< 10	AM4436
20AX 1 way	10	AM4450
20AX DP	10	AM4460
20AX DP with Red Rocker	10	AM4460RD
20AX DP complete with key	10	AM4461
10A retractive	10	AM4489
Indicator - Red	10	AM4491
Blanking component	10	AM4492
20AX 2 way	10	AM4550
20AX 2 way and off	10	AM4552
20AX Retractive 2 way and off	10	AM4553

ROCKERGRID PLATES

	PACK QTY
Rockergrid Moulded Plate 1 gang	20 AM5571
Rockergrid Moulded Plate 2 gang	20 AM5572
Rockergrid Moulded Plate 3 gang	10 AM5573
Rockergrid Moulded Plate 4 gang	10 AM5574

• Grid Yokes not supplied with moulded plates see page 87 for selection.

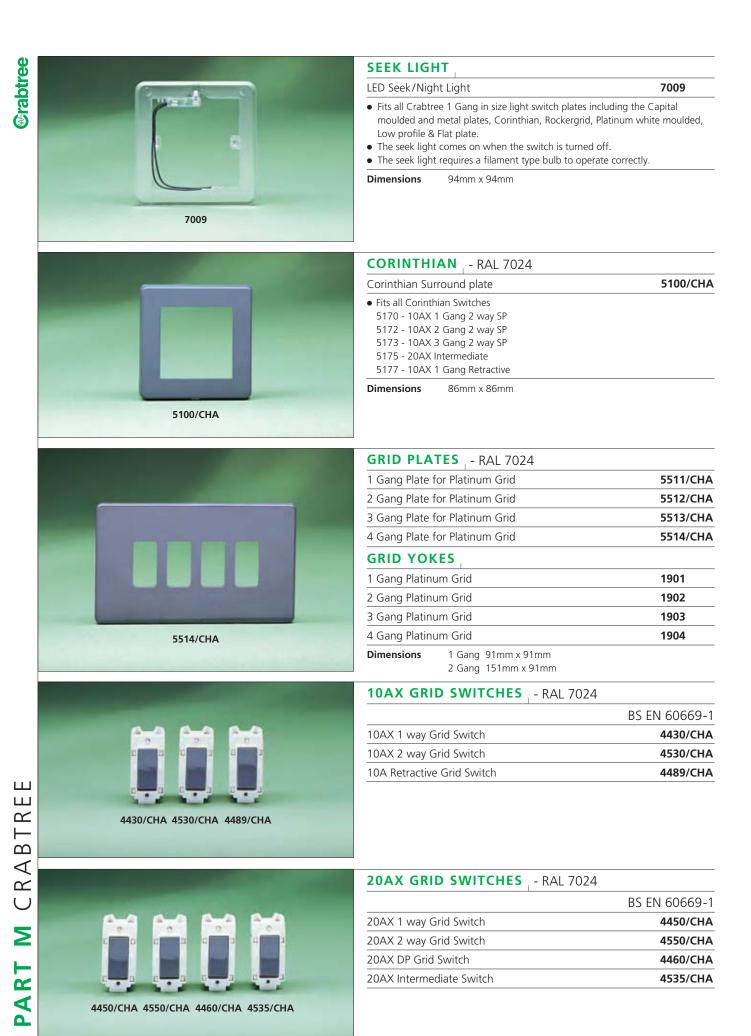


For Technical information on Crabtree Anti Microbial See page 174.





The Crabtree Seek Light as shown assists in the location of the light switches in the dark. Seek light comes on when the switch is turned off. Seek light fits all Crabtree 1 gang switches. The circuit has been designed to reduce the pulse effect of the LED light and give a constant light source.



For Complete range of Rockergrid switches in white please see page 86.

REPLACING A FACE PLATE



Select the wiring accessory front plate to be replaced.



Remove the existing front plate using a flat bladed screwdriver.



Checking it is correctly located push new plate into position. Prabtree



SOCKETS - RAL 7024

	P Switched Socket Front Plate latinum 7314/WH	5504/CHA
5	P Switched Socket with neon Front Plate latinum 7314/3WH	5504/3CHA
5	P Switched Socket Front Plate latinum 7316/WH	5506/CHA
	P Switched Socket with neon Front Plate latinum 7316/3WH	5506/3CHA
Dimensions	1 Gang 91mm x 91mm 2 Gang 151mm x 91mm	

LIGHT SWITCHES - RAL 7024

Switch Plate	5501/CHA
atinum 1 Gang 2 way Switch 7170/WH	
atinum 1 Gang Intermediate Switch 7175/	WH
	5502/CHA
atinum 2 Gang 2 way Switch 7172/WH	
1 Gang 91mm x 91mm	
	Switch Plate atinum 2 Gang 2 way Switch 7172/WH



5501/CHA

COMMUNICATION PLATE - RAL 7024 2 Euro Module 1 Gang Communication Plate 5507/CHA 2 Euro Module 1 Gang Communication Frame 1091/1

2 Euro Modul	e 1 Gang Communication Frame	1091/1
4 Euro Module 2 Gang Communication Plate 4 Euro Module 2 Gang Communication Frame		5509/CHA 1092/1
Dimensions	1 Gang 91mm x 91mm 2 Gang 151mm x 91mm	



COMMUN	ICATION MODULES	
RJ45 Cat 5e E	uro Module	7172
TV Outlet (ma	le)	7065
TV Outlet (fen	nale)	7067
F Type Satellit	e Euro Module	7069
Triplex unit (T	√, FM, Sat)	7063
Blank 1 Modu	le	7081
Blank 1/2 Mo	dule	7081/2
Dimensions	25 x 50mm (1 Module) (except 7063 - 50mm x 50mr	n)
Ear other Comp	aunication Modules plaase refer t	0 0000 22

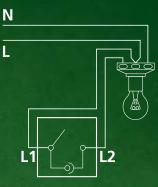
For other Communication Modules please refer to page 23.

SEEKLIGHT

The new Crabtree Seeklight assists in the location of light switches in the dark.

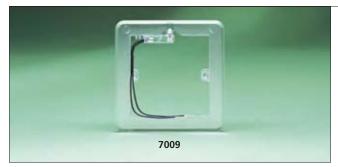
It fits all Crabtree one gang size switch plates including Capital moulded & metal plates, Corinthian, Rockergrid, and Platinum white moulded, low profile & Flat plate.

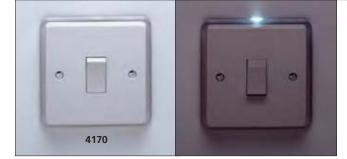
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SEEKLIGHT

Seeklight will only illuminate when light control is off on a single pole circuit. On a Double pole circuit the Seeklight will be permanently on. The light is an LED type, which has had a circuit board designed to reduce the pulse effect and give a constant light source The Seeklight requires a filament type bulb to operate correctly.

PACK		
SEEKLIGHT	10	7009

CAPITAL MOULDED SWITCHES

The above Seeklight will fit the following plates:	
1 gang 1 way 10AX SP	4070
1 gang 2 way 10AX SP	4170
1 gang 1 way 10AX DP	4171
2 gang 2 way 10AX SP	4172
3 gang 12 way 10AX SP	4173
1 gang Intermediate	4175

CAPITAL CORINTHIAN SWITCHES

The above Seeklight will fit the following plates:	
1 gang 2 way 10AX SP	5170
2 gang 2 way 10AX SP	5172
3 gang 2 way 10AX SP	5173
1 gang Intermediate 20AX	5175
1 gang 2 way 10AX DP	5176
1 gang retractive 10A	5177

CAPITAL METAL PLATE SWITCHES	
The above Seeklight will fit the following plates:	
1 gang 2 way 10AX SP	6170/
2 gang 2 way 10AX SP	6172/
3 gang 2 way 10AX SP	6173/
1 gang Intermediate 20AX	6175/
1 gang retractive 10A	6096/

PLATINUM LOW PROFILE & FLAT	PLATE SWITCHES
The above Seeklight will fit the following plate	S:
1 gang 2 way 10AX SP	7170/ or 8170/
2 gang 2 way 10AX SP	7172/ or 8172/
3 gang 2 way 10AX SP	7173/ or 8173/
1 gang Intermediate 20AX	7175/
1 gang retractive 10A	1096/1 & 7501/

ROCKERGRID MODULAR SYSTEM

The above Seeklight will fit the following plates:	
1 gang grid front plate moulded	5571
1 gang grid front plate metal finish	6571/
2 gang grid front plate moulded	5572
2 gang grid front plate metal finish	6572/

Please see technical wiring diagrams on page 169.

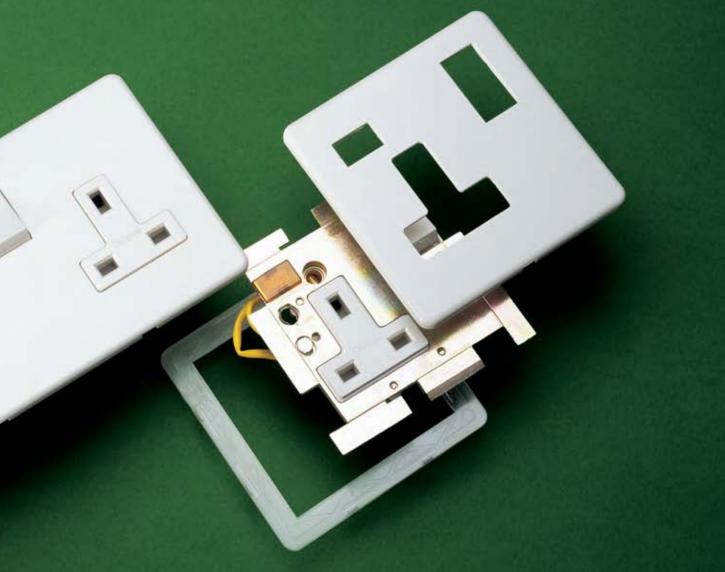


PLATINUM WHITE MOULDED

Platinum White Moulded

Crabtree Platinum White Moulded is a new addition to the already extensive range of Platinum Low Profile Wiring Accessories. A wide selection of Power, Control and Lighting accessories are now available in 'Screwless' Low Profile.

isolator /a





The front plate can be easily removed by using a flat bladed screwdriver. The Screwdriver should be inserted between the notch on the front plate and the ramp on the support frame.



The plate should now be gently eased away from the support frame.



Decoration can be safely completed without damage to the Wiring Accessory.



The front plate is easily clipped back into position on the clear plastic frame, surrounding the interior.



If required, the Platinum white moulded range can be upgraded by using standard Platinum low profile plates.



Three finishes are available: Satin Chrome, Polished Brass, and Highly Polished Chrome.



SOCKETS		BS1363
1 Gang 13A DP Switche	d Socket twin earth	7314/WH
1 Gang 13A DP Switched	d Socket + neon twin earth	7314/3WH
2 Gang 13A DP Switched	d Socket twin earth	7316/WH
2 Gang 13A DP Switched Socket + neon twin earth		7316/3WH
1 Gang 15A Round pin switched Socket		7272/WH
1 Gang 5A Round pin Unswitched Socket		7340/WH
Dimensions 1 gang 91 x 91mm 2 gang 151 x 91mm		
Installation Box dept	1 35mm	

FUSED CONNE		BS1363
13A DP Switched FC	U	7832/WH
13A DP Switched FCU + neon		7832/3WH
Dimensions	1 gang 91 x 91mm	
Installation Box de	pth 35mm	

CONTROL SWITCHI	ES	
6A TP ISOLATOR SWITCH	BS EN606	69-1, BS EN60947-3
6A Three Pole isolating swite	ch marked	7017/WH
20A DP CONTROL SWITCH	1	BS EN60669-1
20A DP Switch		7011/WH
20A DP Switch + neon		7011/3WH
32A DP CONTROL SWITCH	1	BS EN60669-1
32A DP Switch		7012/WH
32A DP Switch + neon		7012/3WH
45A DP CONTROL SWITCH	1	BS EN60669-1
45A DP Switch		7015/WH
45A DP Switch + neon		7015/3WH
45A COOKER CONTROL U	NIT	BS 4177 & BS1363
45A 2 Gang Cooker Contro	l Unit	7521/WH
	gang 91 x 91mm gang 151 x 91mm	

LIGHT SWITC	HES		BS EN60669-1
10AX 1 Gang 2 Wa	y plate Switch		7170/WH
10AX 2 Gang 2 Wa	y plate Switch		7172/WH
10AX 3 Gang 2 Wa	y plate Switch		7173/WH
10AX 1 Gang Interr	nediate plate Sv	vitch	7175/WH
DIMMERS		BS EN5501	4, BS EN60669-2-1
400W Dimmer 1 Ga	ang 2 Way		7400/D1WH*
400W Dimmer 2 Ga	ang 2 Way		7400/D2WH*
Dimensions	1 gang 9	1 x 91mm	
Installation Box d	epth switches	1&2 gang 16r	nm, 3 gang 25mm
Installation Box d	epth dimmers	40mm	
* Suitable for mains vo	ltage GLS		

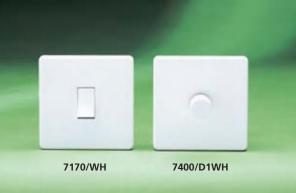
* Suitable for mains voltage GLS.

 $2 \ x \ 400 W$ dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.





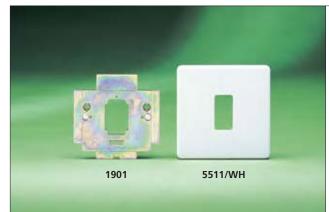














DUAL SHAVER SOCKET		BS EN61558-2-5
Shaver supply unit 240V	·	7411/WH
DATA ACCESSOR	RIES	BS 3041
Single Coaxial direct con	nection	7765/WH
Single BT Secondary		7783/WH
Single BT Master		7784/WH
BLANK PLATES		BS 5733
1 Gang Blank plate		1091/1 + 5575/WH
2 Gang Blank plate		1092/1 + 5577/WH
Dimensions	1 gang 91 x 91mm 2 gang 151 x 91mm	

COMMUNICATION PLATE

2 Euro Module 1 Gang Communication Plate		1091/1 + 5507/WH
4 Euro Module 2 Gang Communication Plate		1092/1 + 5509/WH
Dimensions	1 gang 91 x 91mm 2 gang 151 x 91mm	
Installation Box depth 35mm		

COMMUNICATION MODULES

	7080	
9	7172	
	7065	
	7067	
dule	7069	
	7063	
	7081	
	7081/2	
25 x 50mm (1 Module) (except 7063 - 50mm x 50mm)		
For other Communication Modules please refer to Page 23.		
	e dule 25 x 50mm (1 Module) (except 7063 - 50mm x	7080 e 7172 7065 7067 dule 7069 7063 7081 25 x 50mm (1 Module) (except 7063 - 50mm x 50mm)

GRID PLATES 1 Gang Plate for Rockergrid 5511/WH 2 Gang Plate for Rockergrid 5512/WH 3 Gang Plate for Rockergrid 5513/WH 4 Gang Plate for Rockergrid 5514/WH **GRID YOKES** 1 Gang Grid 1901 2 Gang Grid 1902 3 Gang Grid 1903 4 Gang Grid 1904 1-2 gang 91 x 91mm 3-4 gang 151 x 91mm Dimensions

GRID SWITCHES	BS EN60669-1
Grid Switch 10AX 1 Way	4430
Grid Switch 10AX 2 Way	4530
Grid Switch 10A Retractive	4489
Grid Switch 20AX 1 Way	4450
Grid Switch 20AX 2 Way	4550
Grid Switch 20AX Double Pole	4460
Grid Switch 20AX Intermediate	4535
Installation Box denth 35mm	

Installation Box depth 35mm For other Rockergrid products please refer to Page 86.

11	1-1
5504/3WH	5506/WH

5508/3WH

5545/WH

5508/WH

5505/WH

WHITE PLASTIC PLATES ONLY

SOCKET PLATES	
1 Gang DP Switched Socket	5504/WH
1 Gang DP Switched Socket + neon	5504/3WH
2 Gang DP Switched Socket	5506/WH
2 Gang DP Switched Socket + neon	5506/3WH
1 Gang 15A Switched Socket	5515/WH
1 Gang 5A Unswitched Socket	7579/WH

Comes Complete with clear plate frame.

FUSED CONNECTION UNIT PLATES	
13A DP Switched FCU	5508/WH
13A DP Switched FCU + neon	5508/3WH
Comes Complete with clear plate frame.	

CONTROL SWITCH PLATES	
6AX Three Pole Isolating Switch marked	5505/WH
20A DP Switch	5520/WH
20A DP Switch + neon	5520/3WH
32A DP Switch	5532/WH
32A DP Switch + neon	5532/3WH
45A DP Switch	5545/WH
45A DP Switch + neon	5545/3WH
45A 2 Gang Cooker Control Unit	5546/WH
Comes Complete with clear plate frame.	

LIGHT SWITCH PLATES

10AX 1 Gang 2 Way Plate Switch	5501/WH
10AX 2 Gang 2 Way Plate Switch	5502/WH
10AX 3 Gang 2 Way Plate Switch	5503/WH
DIMMER PLATES	
1 Gang Dimmer Plate	5561/WH
2 Gang Dimmer Plate	5562/WH

5510/WH

5507/WH

5509/WH

5565/WH

5583/WH

5575/WH

5577/WH 5543

5544

Comes Complete with clear plate frame.

2 module 1 Gang Communication Plate

4 module 2 Gang Communication Plate

OTHER ACCESSORIES Shaver Supply Unit

Co-axial

BT Master & Slave

1 Gang Blank Plate

2 Gang Blank Plate

1 Gang clear plastic frame 2 Gang clear plastic frame





Comes Complete with clear plate frame.

UPGRADE FROM WHITE PLASTIC TO METAL PLATE



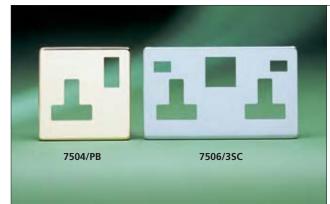
Platinum white moulded range can be upgraded to metal Platinum plates.



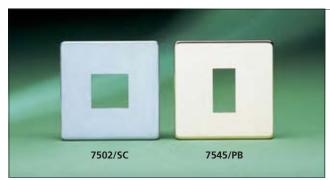
The plate should be gently eased away from the support frame.

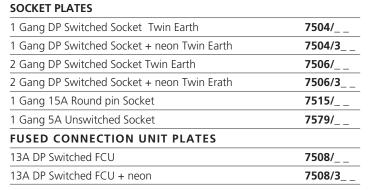


The replacement front plate simply clips back onto the support frame. **C**rabtree









CONTROL SWITCH PLATES	
6AX Three Pole Isolating Switch marked	7505/
20A DP Switch	7520/
20A DP Switch + neon	7520/3
32A DP Switch	7532/
32A DP Switch + neon	7532/3
45A DP Switch	7545/
45A DP Switch + neon	7545/3
45A 2 Gang Cooker Control Unit	7546/

LIGHT SWITCH PL	ATES	
10AX 1 Gang 2 Way P	late Switch	7501/
10AX 2 Gang 2 Way P	late Switch	7502/
10AX 3 Gang 2 Way P	late Switch	7503/
Plate Dimensions	1 gang 88 x 88mm 2 gang 148 x 88mm	

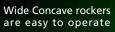


OTHER ACCESSORIES	
Shaver Supply Unit	7510/
2 module 1 Gang Communication Plate	7507/
4 module 2 Gang Communication Plate	7509/
1 Gang Plate	7575/
2 Gang Plate	7577/
1 Gang Plate for Rockergrid	7511/
2 Gang Plate for Rockergrid	7512/
3 Gang Plate for Rockergrid	7513/
4 Gang Plate for Rockergrid	7514/
1 Gang Dimmer Plate	7561/
2 Gang Dimmer Plate	7562/
1 Gang Plate for BT Master & Secondary	7583/
2 Gang Plate for Coax	7565/

Indicate the finish you require by adding Suffix to List No. Satin Chrome (SC), Highly Polished Chrome (HPC), and Polished Brass (PB),



٢



Positive drive switch action prevents balancing between the 'on' and 'off' position and gives reliable indication of the contact position

PL/(TINUM

An extensive range of power, control and lighting accessories, available in a range of high quality metal finishes as either screw-fit flat plate or clip-on screwless low profile plate.

With no compromises between style and function, the Platinum range is slim, stylish and packed with solid Crabtree engineering.



Satin Chrome



Stainless Steel



Polished Chrome



Polished Stainless Steel



Black Nickel





Polished Brass

Flat Plate

Polished Brass

Screwless Low Profile



COMPLETE ASSEMBLIES LOW PROFILE

FINISHES AVAILABLE

SC/WH-Satin Chrome White interior HPC-Highly Polished Chrome Black interior

PB-Polished Brass Black interior BKN-Black Nickel

Black interior

• Indicate the finish you require by adding Suffix to List No. ie: 13A 2 gang DP Switched Socket in Black Nickel = 7316/BKN

- Fully assembled products come complete with display packaging
- Will not fit a 2 gang dual back box

	13A SWITCHED SOCKET OUTLET	BS1363
	1 gang DP Switched Socket	7314/
1 gang DP Switched Socket with Neon		7314/3
	2 gang DP Switched Socket	7316/
	2 gang DP Switched Socket with Neon	7316/3_
	Dimensions 1 gang 88mm x 88mm 2 gang 148mm x 88mm	
	Installation Box donth 25mm	

Installation Box depth 35mm

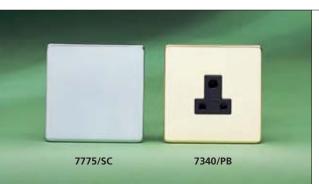
• All sockets are supplied as dual Earth



7316/3PB

7314/SC/WH





13A FUSED CONNECTION UNIT	BS1363
DP Switched	7832/
DP Switched with Neon	7832/3
Dimensions 88mm x 88mm	
Installation Box depth 35mm	
3A CARD SWITCH	BS5733
3A card Switch	7018/
Dimensions 88mm x 88mm	
Installation Box depth 25mm See page 170 for more information	
10AX PLATE SWITCH	BS EN 60669-1
1 gang 2 way	7170/
2 gang 2 way	7172/
3 gang 2 way	7173/
1 gang Intermediate	7175/

Installation Box depth 1 & 2 gang 16mm, 3 gang 25mm		
TOGGLE	SWITCHES	BS EN 60669-1
1 gang 2 way		7T70/
2 gang 2 way	,	7T72/
Dimensions	88mm x 88mm	
Installation B	ox depth 35mm	

BLANK PLATES Single Blank complete with grid Twin Blank complete with grid		BS5733
		7775/
		7777/
Dimensions	1 gang 88mm x 88mm 2 gang 148mm x 88mm	
5A ROUN	ID PIN SOCKET	
5A Round Pin Unswitched Socket		7340/
Dimensions	88mm x 88mm	
Installation B	ox depth 35mm	



7400/TD1BKN

7400/RD1PB







COMPLETE ASSEMBLIES LOW PROFILE

DIMMER-ROTARY BS EN 55014, BS EN 60669-2-1 7250/D1_ 250W 1 gang 2 way 7250/D2_ 250W 2 gang 2 way 250W 3 gang 2 way 7250/D3 400W 1 gang 2 way 7400/D1 400W 2 gang 2 way 7400/D2_ 1 & 2 gang 88mm x 88mm

Dimensions

Installation Box depth 40mm

Suitable for mains voltage GLS; 2 x 400W dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.

DIMMER-TOUCH	BS EN 55015, BS EN 60669-2
400W 1 gang 1 way	7400/TD1
DIMMER-REMOTE	BS EN 55015, BS EN 60669-2
400W 1 gang 1 way	7400/RD1
Dimensions 1 & 2 gang 88mm x 88	3mm
Installation Box depth 40mm	

Suitable for mains voltage GLS;

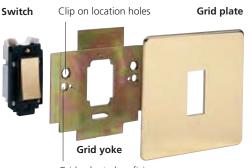
GU10 or similar HiSpot halogen bulbs up to the rating on the rear of the product.

CONTROL SWITCHES	
6A TP ISOLATOR SWITCH BS EN 60	947-3, BS EN 60669-1
6A Triple Pole Fan Isolator	7017/
20A DP CONTROL SWITCH	BS EN 60669-1
20A DP Control Switch	7011/
20A DP Control Switch with Neon	7011/3
45A DP CONTROL SWITCH	BS EN 60669-1
45A 1 gang DP Control Switch	7015/
45A 1 gang DP Control Switch with Neon	7015/3
45A 1 gang DP Control Switch with Neon Mounted on 2 gang vertical plate	7016/3
45A COOKER CONTROL UNIT	BS 4177 & BS1363
45A Cooker Control Unit	7521/
45A Cooker Control Unit with Neon	7521/3
DUAL SHAVER SOCKET	BS EN 61558-2-5
Dual Shaver Socket	7411/
Dimensions 1 gang 88mm x 88mm 2 gang 148mm x 88mm	

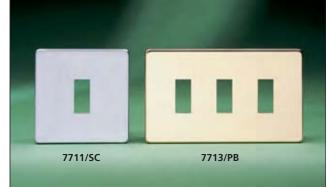
сомми	NICATION ACCESSORIES	BS 3041
Single Co-axi	al	7765/
BT Secondary	/ Socket	7783/
BT Master So	cket	7784/
Dimensions	1 gang 88mm x 88mm	

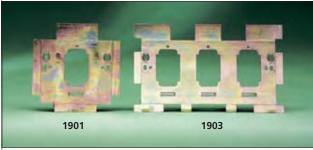
Crabtree

PLATINUM GRID



Grid yoke to box fixing screws







4430/7HPC 4450/7PB 4460/7PSS 4530/7SC 4550/7SS



Complete Assembly



GRID PLATES-LOW PROFILE

Plate for 1 gang	g grid	7711/
Plate for 2 gang grid		7712/
Plate for 3 gang	g grid	7713/
Plate for 4 gang grid		7714/
Plate for 6 gang grid		7716/
Plate for 8 gang	g grid	7718/
Dimensions	1-2 gang 88mm x 88mm 3-4 gang 148mm x 88mm 6-8 gang 148mm x 148mm	
All the following r	latos aro available in Satin Chrome (SC)	Polished Pross (PP)

All the following plates are available in Satin Chrome **(SC)**, Polished Brass **(PB)** and Highly Polished Chrome **(HPC)**

GRID YOKES

1 gang Yoke	1901
2 gang Yoke	1902
3 gang Yoke	1903
4 gang Yoke	1904
6 gang Yoke	1906
8 gang Yoke	1908

GRID SWITCHES-NO OUTER TRIM

BS EN 60669-1

4430/7 4530/7 4489/7
4489/7
4490/7
4553/7
4450/7
4550/7
4460/7
4535/7
4552/7

Installation Box depth 35mm

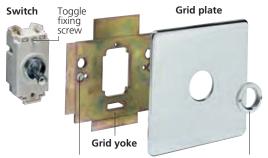
GRID KEY SWITCHES-NO OUTER TRIM BS EN 60669-1

20AX 1 way Grid Key Switch	4451/7/WH*
20AX 2 way Grid Key Switch	4551/7/WH*
20AX DP 1 way Grid Key Switch	4461/7/WH*

* For Key Switches marked 'Emergency Light Test' Please add **'ELT'** to the List No. eg. **4451/7/WH/ELT**

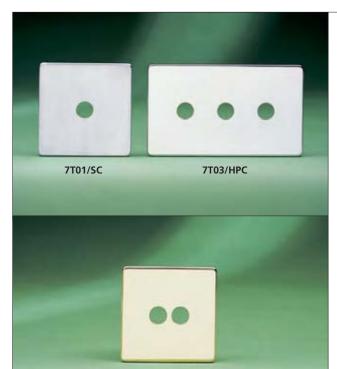
• For Key Switches with a black front moulding, please remove the **/WH** from the List No. eg. **4451/7**.

LOW PROFILE TOGGLE SWITCHES AND PLATES

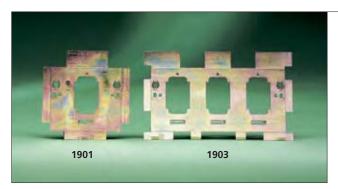


Grid yoke to box fixing screws

Securing ring



7T02/PB





Complete Assembly



TOGGLE PLATES-LOW PROFILE

Plate for 1 gan	g grid	7T01/_
Plate for 2 gan	g grid	7T02/_
Plate for 3 gan	g grid	7T03/_
Plate for 4 gan	g grid	7T04/_
Dimensions	1-2 gang 88mm x 88mm	
	3-4 gang 148mm x 88mm	
All the following	plates are available in Satin Chrome ((SC), Polished Brass (PB)

All the following plates are available in Satin Chrome (SC), Polished Brass (F and Highly Polished Chrome (HPC)

All plates come complete with toggle securing ring in appropriate finish

GRID YOKES

1 gang Yoke	1901
2 gang Yoke	1902
3 gang Yoke	1903
4 gang Yoke	1904

TOGGLE SWITCHES	BS EN 60669-1	
10AX 2 way Single Pole	5430/	
20AX 2 way Single Pole	5550/	
20AX 2 way and off Single Pole	5552/	
All the following switches are available in Satin Chrome (HPC), Polished Brass (PB)	e (SC) , Highly Polished Chrome	
Installation Box depth 35mm		
One fixing key supplied per pack of 10		

PLATINUM LOW PROFILE TOG G . ____ TIMS \cap Т Ш \sim \triangleright Ż Τ AT S

Crabtree

| ROCKERGRID FOR PLATINUM RANGE



Switch Clip on location holes Grid plate

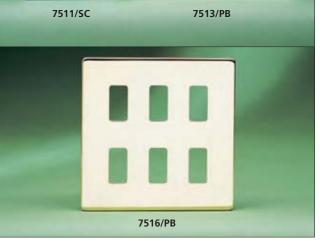
Grid yoke to box fixing screws

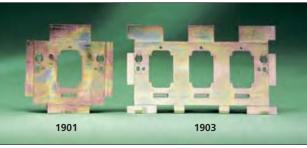


GRID PLATES - LOW PROFILE

Plate for 1 gang g	rid	7511/
Plate for 2 gang g	rid	7512/
Plate for 3 gang g	rid	7513/
Plate for 4 gang g	rid	7514/
Plate for 6 gang g	rid	7516/
Plate for 8 gang g	rid	7518/
Dimensions	1-2 gang 88mm x 88mm 3-4 gang 148mm x 88mm 6-8 gang 148mm x 148mr	n

All the following plates are available in Satin Chrome (SC), Polished Brass (PB) and Highly Polished Chrome (HPC)







4530/6HPC 4550/6PB 4460/6PSS 4450/6SC/WH 4430/6SS/WH

1901
1902
1903
1904
1906
1908

GRID SWITCHES	BS EN 60669-1
10AX 1 way	4430/6
10AX 2 way	4530/6
10A Retractive	4489/6
20AX 1 way	4450/6
20AX 2 way	4550/6
20AX double Pole	4460/6
20AX intermediate	4535/6
20A 2 way & Off	4552/6

All the following Switches are available in Satin Chrome **(SC/WH)**, Highly Polished Chrome **(HPC)**, and Polished Brass **(PB)**. **Installation Box depth** 35mm

The full range of Rockergrid items are shown on pages 86 & 87 and will fit onto all the above plates.



Interior

Clip on location holes

SECOND FIX LOW PROFILE

Standard

Plate

Finishes

Made to Order

HPC - Highly Polished Chrome - Black moulded insert SC/WH - Satin Chrome - White moulded insert PB - Polished Brass

HPC/WH - Highly Polished Chrome - White moulded insert SC - Satin Chrome

BS 1363

Plate

7515/_

BS 546

- Black moulded insert PB/WH - Polished Brass - White moulded insert

Indicate the finish you require by adding suffix to List No.
 ie: 13A 2 gang DP Switched Socket Interior in Satin Chrome = 1316/1<u>SC/WH</u>
 2 gang Switched Socket Plate in Satin Chrome = 7506/<u>SC</u>

- All interiors are supplied with appropriate fixing grids
- Will not fit a 2 gang dual back box

13A SWITCHED SOCKET

1 gang DP Switched Socket		1314/1 7504/
1 gang DP Switched Socket with Ne	on Interior Plate	1314/13 7504/3
2 gang DP Switched Socket	Interior Plate	1316/1 7506/
2 gang DP Switched Socket with Ne	ons Interior Plate	1316/13 7506/3
Dimensions 1 gang 88mm x 88mm 2 ga	ng 88mm x 148mm	

• All sockets are supplied as dual earth.

13A FUSED CONNECTION UNIT		BS 1363
13A Switched Fuse connection unit		1832/1 7508/
13A Switched Fuse connection unit with Neon		1832/13_ 7508/3
13A Switched FCU with cord outlet		1837/1 7533/
	Interior	4077/47

	Plate	/533/
13A Switched FCU with cord outlet & Neon		1837/13 7533/3
Dimensions 1 gang 88mm x 88mm Installation Box depth 35mm		

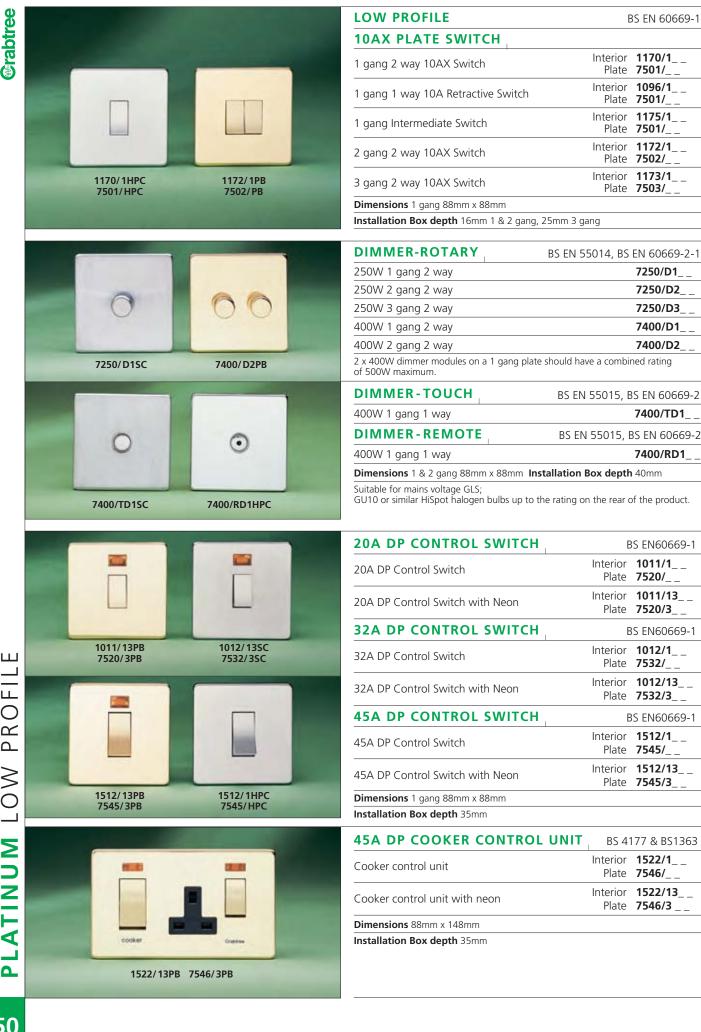
15A round pin Switched Socket	Interior	1272/1
15A ROUND PIN SWITCHED SOC	KET	BS 546

15A round pin Switched Socket Dimensions 1 gang 88mm x 88mm

5A round pin Unswitched Socket	Interior Plate	1340/1* 7579/
Dimensions 1 gang 88mm x 88mm		
Installation Box depth 35mm		
*Black moulded insert as standard. If required	with white moulded in	nsert add /WH .

2A UNSWITCHED SOCKET	1	BS 546
2A round pin unswitched socket	Interior Plate	1075/1* 7560/
Dimensions 1 gang 88mm x 88mm		
Installation Box depth 35mm		
*Black moulded insert as standard. If require	d with white moulded in	isert add /WH .
6A TP ISOLATOR SWITCH	BS EN60669-1, BS	5 EN60947-3
6A Triple Pole Isolator Switch	Interior Plate	1017/1 7505/
Dimensions 1 gang 88mm x 88mm		

Installation Box depth 35mm



50

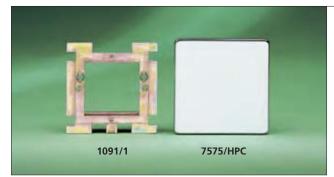


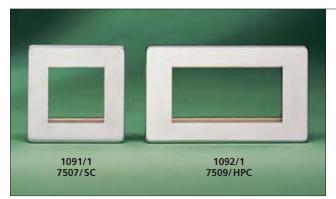
LOW PROFILE SHAVER SUPPLY UNIT BS EN 61558-2-5 Interior Shaver Supply Unit Plate

Dimensions 88mm x 148mm

Installation Box depth 55mm

* Black moulded insert as standard, if required with white moulded insert add /WH





BLANK PLATES	В	S 5733
1 gang Blank Plate	Grid Plate	1091/1 7575/
2 gang Blank Plate	Grid Plate	1092/1 7577/
Dimensions 1 gang 88mm x 88mm 2 gang 88mm x 148mm		

Installation Box depth 35mm

COMMUNICATION PLATES		
1 gang Communication Module Frame	Grid Plate	1091/1 7507/
2 gang Communication Module Frame	Grid Plate	1092/1 7509/
Dimensions 1 gang 88mm x 88mm 2 gang 88mm x 1	48mm	
Installation Box depth 35mm		





COMMUNICATION MODULES

25 25 25 25	7080 7071 7172 7174
25 25	7172
25	
	7174
; ,	
25	7065
25	7067
25	7069
25	7063
25	7060
25	7087
ES	
25	7081/2
25	7081
0mm)	
2200 23	
	25 25 25 25 25 25 ES 25

Prabtree

1410/1*

7510/_





COMPLETE ASSEMBLIES FLAT PLATE

FINISHES AVAILABLE

PB-Polished Brass Black interior **SS/WH**-Stainless Steel White interior

PSS -Polished Stainless Steel Black interior

- Fully assembled products come complete with display packaging
- Indicate the finish you require by adding suffix to List No. ie: 13A 2 gang DP Switched Socket in Stainless Steel = **8316/SS/WH**



13A SWITCHED SOCKET OUTLET		BS1363
		FLAT PLATE
1 gang DP Switched Socket		8314/
2 gang DP Switched Socket		8316/
Dimensions	1 gang 86mm x 86mm 2 gang 146mm x 86mm	
Installation P	av danth 2Emm	

Installation Box depth 35mm

8832/3PSS	8832/SS/WH

13A FUSED CONNECTION UNIT	BS1363
	FLAT PLATE
DP Switched	8832/
DP Switched with Neon	8832/3
Dimensions 86mm x 86mm	
here the line the set of the set	

Installation Box depth 35mm

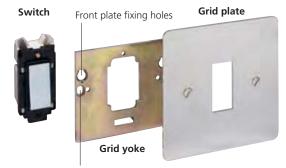
• 🖬 •	•	
	0	

FLAT PLATE
8170/
8172/
8173/



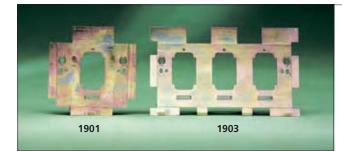
20A DP CONTROL SWITCH	BS EN 60669-1
!	FLAT PLATE
20A DP Control Switch	8011/
20A DP Control Sw + Neon	8011/3
Dimensions 86mm x 86mm	

PLATINUM GRID



Grid yoke to box fixing screws









Complete Assembly



GRID PLATE-FLAT PLATE

8711/
8712/
8713/
8714/
8716/
8718/
olished Brass (PB)

GRID YOKES

1 gang Yoke	1901
2 gang Yoke	1902
3 gang Yoke	1903
4 gang Yoke	1904
6 gang Yoke	1906
8 gang Yoke	1908
When mounting grid yokes for use with the flat plate remove the outer fixing ears	

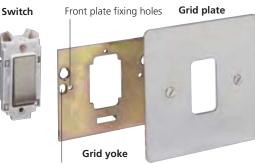
GRID SWITCHES-NO OUTER TRIM	BS EN 60669-1
10AX 1 way	4430/7
10AX 2 way	4530/7
10A Retractive	4489/7
10A Retractive-Bell symbol	4490/7
10A Retractive 2 way and Off	4553/7
20AX 1 way	4450/7
20AX 2 way	4550/7
20AX Double Pole	4460/7
20AX Intermediate	4535/7
20AX 2 way & Off	4552/7
All the following Switches are available in Polished Brass (PB), and Polished Stainless Steel (PSS)	Stainless Steel (SS) ,
Installation Box depth 35mm	

GRID KEY SWITCHES-NO OUTER TRIM BS EN 60669-1 20AX 1 way Grid Key Switch 4451/7/WH* 20AX 2 way Grid Key Switch 4551/7/WH* 20AX DP 1 way Grid Key Switch 4461/7/WH* * For Key Switchs marked 'Emergency Light Test' Please add 'ELT' to the List No. eg. 4451/7/WH/ELT • For Key Switchs with a black front moulding, please remove the /WH from the

• For Key Switches with a black front moulding, please remove the **/WH** from the List No. eg. **4451/7**.

PLATINUM FLAT PLATE GRID

ROCKERGRID FOR PLATINUM RANGE



Grid yoke to box fixing screws

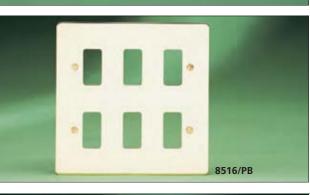




GRID PLATES-FLAT PLATE

Plate for 1 gang	ı grid	8511/
Plate for 2 gang grid		8512/
Plate for 3 gang	ı grid	8513/
Plate for 4 gang	ı grid	8514/
Plate for 6 gang grid		8516/
Plate for 8 gang	ı grid	8518/
Dimensions	1-2 gang 86mm x 86mm 3-4 gang 146mm x 86mm 6-8 gang 146mm x 146mm	
All the following p	lates are available in Stainless Steel (SS) D	alished Prace (DD)

All the following plates are available in Stainless Steel **(SS)**, Polished Brass **(PB)** and Polished Stainless Steel **(PSS)**



8514/SS





4530/6HPC 4550/6PB 4460/6PSS 4450/6SC/WH 4430/6SS/WH

GRID YOKES	
1 gang Yoke	1901
2 gang Yoke	1902
3 gang Yoke	1903
4 gang Yoke	1904
6 gang Yoke	1906
8 gang Yoke	1908
When mounting Grid yokes for use with the Flat plate, remo	ove the outer fixing ears

GRID SWITCHES	BS EN 60669-1
10AX 1 way	4430/6
10AX 2 way	4530/6
10A Retractive	4489/6
20AX 1 way	4450/6
20AX 2 way	4550/6
20AX double Pole	4460/6
20AX intermediate	4535/6
20A 2 way & Off	4552/6

All the following Switches are available in Stainless Steel **(SS/WH)**, Polished Brass **(PB)**, and Polished Stainless Steel **(PSS)** Installation Box depth 35mm

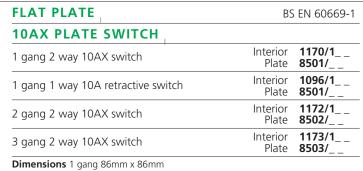
The full range of Rockergrid items are shown on pages 86 & 87 and will fit onto all the above plates.

8512/PSS

Crabtree

Interior Plate	SECOND FIX FLAT PLATE	
Plate to grid fixing screws	Standard Finishes: PSS - Polished Stainless Steel Black moulded insert	
	- Black moulded insert SS/WH - Stainless Steel	
	- White moulded insert	
	PB - Polished Brass - Black moulded insert	
	• Indicate the finish you require by adding suffix to List No.	
1316/13PB	ie 13A 2 gang DP Switched Socket Interior + Neon in Polish 2 gang Switched Socket Plate + Neon in Polished Brass	
8506/3PB	• All interiors are supplied with appropriate fixing grids	
Interior to box fixing screws		
	13A SWITCHED SOCKET	BS 1363
	1 gang DP switched socket	erior 1314/1 Plate 8504/_ _
	1 gang DP switched socket with peop	erior 1314/13 Plate 8504/3
	/ dang L)P switched socket	erior 1316/1 Plate 8506/
	2 gang DP switched socket with neons	erior 1316/13 Plate 8506/3
1314/13SS/WH 1316/1PSS 8504/3SS 8506/PSS	Dimensions 1 gang 86mm x 86mm, 2 gang 86mm x 146mr Installation Box depth 35mm	n
the second se		
	13A FUSED CONNECTION UNIT	
and the second		BS 1363 erior 1832/1
	130 switched tuse connection unit	Plate 8508/
	130 switched tuse connection unit with neon	erior 1832/13_ _ Plate 8508/3
	13A switched FCU with cord outlet	erior 1837/1 Plate 8533/_ _
1832/13P55 1832/1PB	130 switched F(11 with cord outlet & neon	erior 1837/13 Plate 8533/3
8508/3PSS 8508/PB	Dimensions 1 gang 86mm x 86mm	
	Installation Box depth 35mm	
	15A ROUND PIN SWITCHED SOCKET	
	15A round nin switched socket	erior 1272/1_ Plate 8515/_ _
	Dimensions 1 gang 86mm x 86mm	
	Installation Box depth 35mm	
	5A UNSWITCHED SOCKET	BS 546
	54 round nin unswitched socket	erior 1340/1*
1272/1PB	Dimensions 1 gang 86mm x 86mm	Plate 8579/
8515/PB	Installation Box depth 35mm	
	* Black moulded insert as standard, if required with White mo	oulded insert add /WH
	2A UNSWITCHED SOCKET	BS 546
		erior 1075/1*
0	2A round pin unswitched socket	Plate 8560/
	Dimensions 1 gang 86mm x 86mm	
	Installation Box depth 35mm * Black moulded insert as standard, if required with White mo	ulded insert add /WI
isolator		
	6A TP ISOLATOR SWITCH BS EN 60669	
		erior 1017/1 Plate 8505/
1017/ 1PSS 8505/ PSS	or thple pole isolator switch	





Installation Box depth 16mm 1 & 2 gang, 25mm 3 gang

• 0 •	• 00 •	
8250/D1PSS	8400/ D2PB	







DIMMER-ROTARY	BS EN 55015, BS EN 60669-2-1
250W 1 gang	8250/D1
250W 2 gang	8250/D2
400W 1 gang	8400/D1
400W 2 gang	8400/D2
Suitable for Tungsten Loads.	
Dimensions 1 & 2 gang 86mm x 86mm	n
Installation Box depth 40mm	
	a second se

 2 x 400W dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.

20A DP CONTROL SWITCH	BS EN 60669-1
20A DP control switch	Interior 1011/1 Plate 8520/_ _
20A DP control switch with neon	Interior 1011/13_ _ Plate 8520/3

32A DP CONTROL SWITCH	BS EN 60669-1		
32A DP control switch		1012/1 8532/	
32A DP control switch with neon		1012/13 8532/3	

45A DP CONTROL SWITCH	BS	EN 60669-1
45A DP control switch		1512/1 8545/
45A DP control switch with neon		1512/13 8545/3
Dimensions 1 gang 86mm x 86mm		
Installation Box depth 35mm		

45A DP COOKER CONTROL UNIT	BS 41	77 & BS1363
Cooker control unit		1522/1 8546/
Cooker control unit with neons		1522/13 8546/3
Dimensions 86mm x 146mm		
Installation Box depth 35mm		

Installation Box depth 35mm



LOW PROFILE

SHAVER SUPPLY UNIT

Shaver Supply Unit

Dimensions 88mm x 148mm

Installation Box depth 55mm

BS EN 61558-2-5

BS 5733 1091/1

8585/_

1092/1

8577/_

Grid

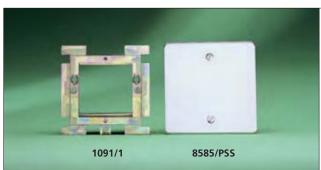
Plate

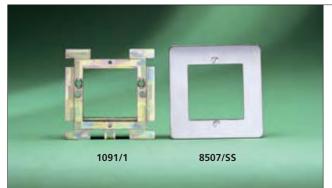
Grid

Plate

Interior 1410/1* Plate 8510/_

Crabtree









1 gang Communication Module Frame	Grid Plate	1091/1 8507/
2 gang Communication Module Frame	Grid Plate	1092/1 8509/
Dimensions 1 gang 88mm x 88mm 2 gang 88mm x 148mm		

 \star Black moulded insert as standard, if required with white moulded insert add /WH

Installation Box depth 35mm 1091/1 with outer fixing ears removed

COMMUNICATION MODULES

	PACK QTY	
BT Master Voice	25	7080
BT secondary Voice, 6 wire	25	7071
RJ45 (single) module, 8 wire – Category 5e	25	7172
RJ45 ISDN terminated	25	7174
DATA AND CO-AXIAL MODUL	.ES	
TV outlet (male)	25	7065
TV outlet (female)	25	7067
F type Satellite	25	7069
Triplex Unit (TV, FM, Sat)	25	7063
TV outlet screened, return	25	7060
Phono (Female)	25	7087
BLANK MODULES & ACCESSO	RIES	
¹ /2 module size	25	7081/2
1 module size	25	7081
Dimensions 25mm x 50mm (1 Module) (except 7063 – 50mm	x 50mm)	
7081/2 12.5mm x 50r 7081 25mm x 50mm	nm	
Add BK for Black - ie: 7172/BK	on Page 22	
A full selection of communication modules is shown	on Page 23.	

PLATINUM FLAT PLAT П



7069 7065 7067









Existing Wiring Accessory being replaced.

Choice of 3 different moulded finishes available, silver, black or white.



New Fascia plate of your choice snaps into place. This can be easily removed by use of a flat bladed screwdriver.

Black

New Fascia plate secured in position, see alternative finishes overleaf





Silver



Inspiration comes easy when its as simple as this...



Antique Copper

Glass

Vood

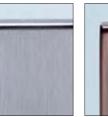
Crabtree

Transform The choice is yours...

INTERIORS

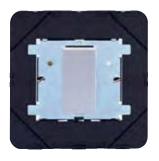
20A DP Switch Interior, c/w neon 1 45A DP Cooker Control Unit Interior, c/w neon 4 115//230V Shaver Socket Interior 4 ILGHTING CONTROL_ 1 10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 10AX 1 Gang Intermediate Switch Interior 1 250W 2 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 Co-axial Socket Interior 2 FRONT PLATES	POWER & CONTROL	Module size		
13A 1 Gang Unswitched Socket Interior 2 13A Switched Fused Connection Unit Interior, c/w neon 2 6A Triple Pole Fan Isolator Interior 2 20A DP Switch Interior, c/w neon 1 45A DP Switch Interior, c/w neon 2 45A DP Switch Interior, c/w neon 4 115V/230V Shaver Socket Interior 4 LIGHTING CONTROL 1 10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 2 10AX 1 Gang 1 way Switch Interior 2 10AX 1 Gang 1 way Switch Interior 1 10AX 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 1 G Dimmer 260W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION_ 2 BT Secondary Interior 2 1 Module 3001/WH 3001/WH 3001/SC 3001/WH 3001/SC 2 Module 3001/WH 3001/WH 3001/SC	13A 1 Gang DP Switched Socket Interior	2		
13A Switched Fused Connection Unit Interior, c/w neon 2 6A Triple Pole Fan Isolator Interior 2 20A DP Switch Interior, c/w neon 1 45A DP Cooker Control Unit Interior, c/w neon 2 45A DP Cooker Control Unit Interior, c/w neon 4 115V/230V Shaver Socket Interior 4 115V/230V Shaver Socket Interior 1 10AX 1 Gang 2 way Switch Interior 1 10AX 1 Gang 2 way Switch Interior 2 10AX 1 Gang 2 way Switch Interior 2 10AX 1 Gang 1 termediate Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 10AX 1 Gang Intermediate Switch Interior 1 250W 2 Gang Dimmer Switch 1 G Dimmer 260W 1 WWIMains 1 Way Touch Dimmer 2 200W 1 WMains 1 Way Touch Dimmer 2 200W 1 WMains 1 Way Remote Dimmer 2 200W 1 WMains 1 Way Remote Dimmer 2 200W 1 WMains 1 Way Remote Dimmer 2 200W 1 White Moulded Satin Chrome 400W 1 WMains 1 Way Remote Dimmer 2 200A 2 Socket Interior 3001/AC 3001/AC 3001/AC 3002/WH	13A 2 Gang DP Switched Socket Interior	4		
6A Triple Pole Fan Isolator Interior 2 20A DP Switch Interior, c/w neon 1 45A DP Switch Interior, c/w neon 2 45A DP Cooker Control Unit Interior, c/w neon 4 115V/230V Shaver Socket Interior 4 115V/230V Shaver Socket Interior 1 10AX 1 Gang 2 way Switch Interior 2 10AX 1 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 1 10AX 1 Gang Intermediate Switch Interior 2 2004 U Liv Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 50 Consult Socket Interior 3 50 Consult Socket Interio	13A 1 Gang Unswitched Socket Interior	2		
20A DP Switch Interior, c/w neon 1 45A DP Soutch Interior, c/w neon 4 115V/230V Shaver Socket Interior 4 115V/230V Shaver Socket Interior 4 10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 1 10AX 1 Gang 2 way Switch Interior 2 10AX 1 Gang 2 way Switch Interior 2 10AX 1 Gang 1 way Switch Interior 1 250W 2 Gang 2 way Switch Interior 1 250W 2 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Remote Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 Co-axial Socket Interior 2 Co-axial Socket Interior 2 FRONT PLATES White Moulded Satin Chrome Module 3001/WH 3001/SC 3001/AC 1 Module 3004/WH 3004/SC 3004/AC 1 Module 3004/WH 3004/SC 3004/AC	13A Switched Fused Connection Unit Interior, c/w neon	2		
4SA DP Switch Interior, c/w neon 2 4SA DP Cooker Control Unit Interior, c/w neon 4 115V/Z30V Shaver Socket Interior 4 LIGHTING CONTROL 1 10AX 1 Gang 2 way Switch Interior 1 10AX 3 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 3 Gang Dimmer Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 200W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 8 BT Secondary Interior 2 Co-axial Socket Interior 2 Vite Moulded Satin Chrome Antigue Cop I Module 3001/WH 3001/SC 3001/AC 2 Module 3004/WH 3004/SC 3004/AC	6A Triple Pole Fan Isolator Interior	2		
45A DP Cooker Control Unit Interior, c/w neon 4 115V/230V Shaver Socket Interior 4 LIGHTING CONTROL 10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 2 250W 2 Gang Dimmer Switch 2 G Dimmer 4 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 50 Co-axial Socket Interior 2 51 Secondary Interior 2 52 Co-axial Socket Interior 2 53 Secondary Interior 2 54 Secondary Interior 2 54 Secondary Interior 2 55 Secondary Interior 2 56 Secondary Interior 2 57 Secondary Interior 2 50 Secondary Interior 3 50 Seco	20A DP Switch Interior, c/w neon	1		
115//230V Shaver Socket Interior 4 LIGHTING CONTROL_ 1 10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION_ 2 BT Secondary Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 1 Module 3004/WH 3004/SC 3004/AC	45A DP Switch Interior, c/w neon	2		
LIGHTING CONTROL 10AX 1 Gang 2 way Switch Interior 10AX 2 Gang 2 way Switch Interior 10AX 3 Gang 2 way Switch Interior 10AX 1 Gang Intermediate Switch Interior 10AX 1 Gang Dimmer Switch 1 G Dimmer 250W 1 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION BT Secondary Interior 2 Void Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3002/WH 3002/WH 3002/WH 3002/WH 3002/WH 3002/WH 3002/WH 3005/WH 3005/WH	45A DP Cooker Control Unit Interior, c/w neon	4		
10AX 1 Gang 2 way Switch Interior 1 10AX 2 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 10AX 1 Gang Intermediate Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 2 BT Secondary Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC	115V/230V Shaver Socket Interior	4		
10AX 2 Gang 2 way Switch Interior 2 10AX 3 Gang 2 way Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 2 BT Secondary Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/WH 3001/SC 3001/AC 2 Module 3004/WH 3004/SC 3004/AC				
10AX 3 Gang 2 way Switch Interior 2 10AX 1 Gang Intermediate Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 2 BT Secondary Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3002/WH 3002/WH 3004/WH 3004/SC 3005/WH 3005/WH	10AX 1 Gang 2 way Switch Interior	1		
10AX 1 Gang Intermediate Switch Interior 1 250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 2 BT Secondary Interior 2 Co-axial Socket Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3002/WH 3002/SC 1 Module 3004/WH 3004/WH 3005/SC 1 Gang Dimmer 3005/WH	10AX 2 Gang 2 way Switch Interior	2		
250W 1 Gang Dimmer Switch 1 G Dimmer 250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 3 BT Secondary Interior 2 Co-axial Socket Interior 2 Co-axial Socket Interior 2 FRONT PLATES White Moulded 1 Module 3001/WH 3001/SC 2 Module 3004/WH 3004/SC 3005/WH 3005/SC 3005/AC	10AX 3 Gang 2 way Switch Interior	2		
250W 2 Gang Dimmer Switch 2 G Dimmer 400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION 3 BT Secondary Interior 2 Co-axial Socket Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC	10AX 1 Gang Intermediate Switch Interior	1		
400W LV/Mains 1 Way Touch Dimmer 2 400W LV/Mains 1 Way Remote Dimmer 2 COMMUNICATION _ BT Secondary Interior BT Secondary Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 2 Module 3002/WH 3002/WH 3002/SC 4 Module 3004/WH 3005/WH 3005/SC	250W 1 Gang Dimmer Switch	1 G Dimmer		
400W LW/Mains 1 Way Remote Dimmer 2 COMMUNICATION BT Secondary Interior 2 Co-axial Socket Interior 2 Co-axial Socket Interior 2 White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3002/WH 3002/SC 4 Module 3004/WH 3005/WH 3005/SC	250W 2 Gang Dimmer Switch	2 G Dimmer		
COMMUNICATION BT Secondary Interior 2 Co-axial Socket Interior 2 Image: Co-axial Socket Interior 3001/WH Satin Chrome Antique Cop 1 Module 3001/WH 3002/WH 3002/SC 3005/WH 3005/SC 3005/WH 3005/SC	400W LV/Mains 1 Way Touch Dimmer	2		
BT Secondary Interior 2 Co-axial Socket Interior 2 FRONT PLATES 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC	400W LV/Mains 1 Way Remote Dimmer	2		
Co-axial Socket Interior 2 FRONT PLATES_ White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3005/WH 3005/SC 3005/AC	COMMUNICATION			
FRONT PLATES White Moulded Satin Chrome Antique Cop 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC	BT Secondary Interior	2		
FRONT PLATES 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC	Co-axial Socket Interior	2		
FRONT PLATES 1 Module 3001/WH 3001/SC 3001/AC 2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC		White Moulded	Satin Chrome	Antique Copp
2 Module 3002/WH 3002/SC 3002/AC 4 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC				
4 Module 3004/WH 3004/SC 3004/AC 1 Gang Dimmer 3005/WH 3005/SC 3005/AC				3001/AC
1 Gang Dimmer 3005/WH 3005/SC 3005/AC				3002/AC
	·			



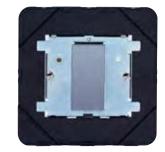




1 Module	3001/WH	3001/SC	3001/AC
2 Module	3002/WH	3002/SC	3002/AC
4 Module	3004/WH	3004/SC	3004/AC
1 Gang Dimmer	3005/WH	3005/SC	3005/AC
2 Gang Dimmer	3006/WH	3006/SC	3006/AC







White	Black	Silver Effect
3304/1WH	3304/1BK	3304/1MC
3306/1WH	3306/1BK	3306/1MC
3255/1WH	3255/1BK	3255/1MC
3827/13WH	3827/13BK	3827/13MC
3017/1WH	3017/1BK	3017/1MC
3015/13WH	3015/13BK	3015/13MC
3016/13WH	3016/13BK	3016/13MC
3521/13WH	3521/13BK	3521/13MC
3400/1WH	3400/1BK	3400/1MC

3170/1WH	3170/1BK	3170/1MC
3171/1WH	3171/1BK	3171/1MC
3173/1WH	3173/1BK	3173/1MC
3175/1WH	3175/1BK	3175/1MC
3130/PU/1WH	3130/PU/1BK	3130/PU/1MC
3132/PU/1WH	3132/PU/1BK	3132/PU/1MC
3400TD/1WH	3400TD/1BK	3400TD/1MC
3400RD/1WH	3400RD/1BK	3400RD/1MC

3824/1WH	3824/1BK	3824/1MC
3265/1WH	3265/1BK	3265/1MC

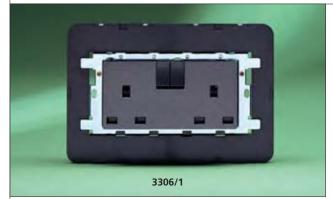


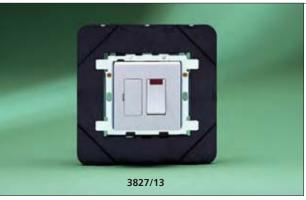


TRANSFORM INTERIORS ONLY

Wiring Accessory Interiors are available in the following finishes. Indicate the finish you require by adding suffix to List No. ie: 13A 1 Gang DP Switched Socket Interior in white = 3170/1WH

- WH White Interior
- BK Black Interior
- MC Silver effect Interior

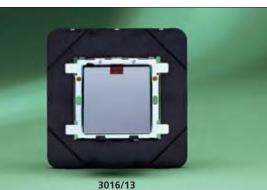




13A SOCKE	FOUTLETS		
BS 1363	·	Module size	List No.
13A 1 Gang DP S	witched Socket Interior	2	3304/1
13A 2 Gang DP S	witched Socket Interior	4	3306/1
13A Single Unsw	itched Socket Interior	2	3255/1
Dimensions 1 gang 122mm x 122mm 2 gang 172mm x 122mm			
Installation Box D	epth 35mm		

13A FUSED CONNECT	
BS1363	Module size

BS1363		Module size	List No.
13A Switched FC	U with Neon Interior	2	3827/13_
Dimensions	1 gang 122mm x 1	22mm	
Installation Box D	epth 35mm		

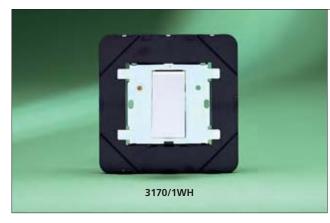


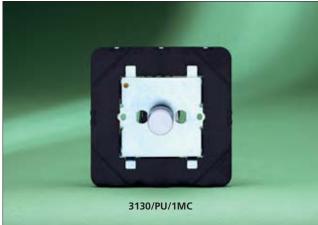
CONTROL SWITCHES

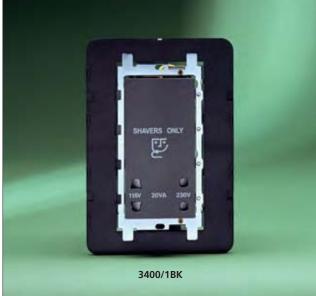
BSEN 60669-1, BSEN	60947-3	Module size	List No.
6A Triple Pole Fan Iso	lator Interior	2	3017/1
BSEN 60669-1		Module size	List No.
20A DP Switch with M	Neon Interior	1	3015/13
45A DP Switch with N	Neon Interior	2	3016/13
Dimensions 1 gang 122mm x 122mm			
Installation Box Depth 35mm			



COOKER CO	NTROL UNIT		
BS4177 & BS136	3	Module size	List No.
Cooker Control L	Init with Neon Interior	4	3521/13
Dimensions 2 gang 172mm x 122mm			
Installation Box Depth 45mm			









10AX PLATE SWITCH BSEN 60669-1 Module size List No. 10AX 1 Gang 2 way Switch Interior 1 3170/1__ 10AX 2 Gang 2 way Switch interior 2 3171/1_ 10AX 3 Gang 2 way Switch interior 2 3173/1__ 10AX 1 Gang Intermediate Switch Interior 1 3175/1__ Dimensions 1 gang 122mm x 122mm Installation Box Depth 16mm

DIMMER

BSEN 55014 & BSEN 60669-2-1	Module size	List No.
250W 1 Gang Dimmer Switch Interior	1 G Dimmer	3130/PU/1
250W 2 Gang Dimmer Switch Interior	2 G Dimmer	3132/PU/1
BSEN 55015 & BSEN 60669-2-1	Module size	List No.

D3 LIN 33013 & D31	11 00005 2 1	module Size	LIST NO.
400W LV/Mains 1	way Touch Dimmer	2	3400TD/1
400W LV/Mains 1	way Remote Dimmer	2	3400RD/1
Dimensions	1 gang 122mm x 122	mm	

Dimensions Installation Box Depth 35mm

Suitable for mains voltage GLS:

GU10 or similar Hispot halogen bulbs up to the rating on the rear of the product. 2 x 400W dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.

SHAVER SUPPLY UNIT

BSEN 61558-2-5 115/230V Shaver	Socket Interior	Module size	3400/1
Dimensions 1 gang 172mm x 122mr		mm	



3265/1WH

COMMUNICATION ACCESSORIES			
BS 3041 Where a	pplicable	Module size	List No.
BT Secondary Int	erior	2	3824/1
Co-axial Socket Interior		2	3265/1
Dimensions 2 gang 122mm x 122mm			
Installation Box Depth 30mm			

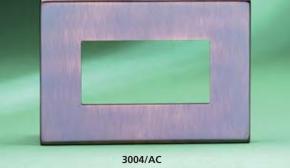


TRANSFORM FRONT PLATES ONLY WHITE MOULDED

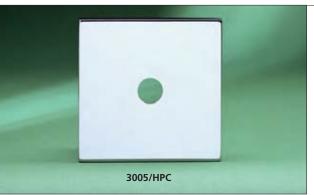
WHITE MOULDED	List No.
1 Module	3001/WH
2 Module	3002/WH
4 Module	3004/WH
1 Gang Dimmer	3005/WH
2 Gang Dimmer	3006/WH



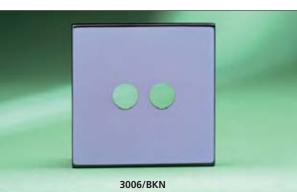
SATIN CHROME	List No.
1 Module	3001/SC
2 Module	3002/SC
4 Module	3004/SC
1 Gang Dimmer	3005/SC
2 Gang Dimmer	3006/SC



ANTIQUE COPPER	List No.
1 Module	3001/AC
2 Module	3002/AC
4 Module	3004/AC
1 Gang Dimmer	3005/AC
2 Gang Dimmer	3006/AC



List No.
3001/HPC
3002/HPC
3004/HPC
3005/HPC
3006/HPC



BLACK NICKEL	List No.
1 Module	3001/BKN
2 Module	3002/BKN
4 Module	3004/BKN
1 Gang Dimmer	3005/BKN
2 Gang Dimmer	3006/BKN



TRANSFORM FRONT PLATES ONLY

	List No.
1 Module	3001/LO
2 Module	3002/LO
4 Module	3004/LO
1 Gang Dimmer	3005/LO
2 Gang Dimmer	3006/LO



DARK OAK	List No.
1 Module	3001/DO
2 Module	3002/DO
4 Module	3004/DO
1 Gang Dimmer	3005/DO
2 Gang Dimmer	3006/DO



GLASS	List No.
1 Module	3001/GL
2 Module	3002/GL
4 Module	3004/GL
1 Gang Dimmer	3005/GL
2 Gang Dimmer	3006/GL





MIRRORED GLASS	List No.
1 Module	3001/MR
2 Module	3002/MR
4 Module	3004/MR
1 Gang Dimmer	3005/MR
2 Gang Dimmer	3006/MR

DIMENSIONS	
1 Module	122 x 122mm
2 Module	122 x 122mm
4 Module	172 x 122mm
1 Gang Dimmer	122 x 122mm
2 Gang Dimmer	122 x 122mm

CAPITAL METAL PLATE

The sophistication of Satin Chrome and Highly Polished Chrome, the elegance of Bronze and Polished Brass, along with durable Stainless Steel and Polished Stainless Steel finishes, provide stylish options to specifiers of a comprehensive matching range of wiring accessories.

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Polished Stainless Steel



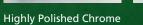
Stainless Steel



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Satin Chrome





Bronze







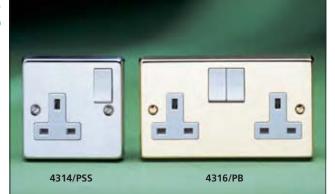
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Unique labyrinth switch design minimises visible arc flash and prevents front access to live parts whilst wide concave rockers are easy to operate.

CAPITAL METAL PLATE

All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Polished Brass (PB), Stainless Steel (SS) and Polished Stainless Steel (PSS). Indicate the finish you require by adding suffix to List No. ie: 4314 – 1 gang switch socket in Bronze = 4314/BZ. Products are also available with Black interiors unless specified, Add Suffix BK to List No. ie: 4316/SC 13A 2 gang Switched Socket in Satin Chrome with Black interior = 4316/SC BK.



13A FLUSH	SOCKET	OUTLETS

BS 1363		PACK QTY	
1 gang SP switch	ned	10	4314/
2 gang SP switch	ned	5	4316/
1 gang SP switch	ned fitted with neon indicator	10	4314/3
2 gang SP switch	ned fitted with neon indicator	5	4316/3
Dimensions	1 gang 86mm x 86mm 2 gang 146mm x 86mm		

Mounting boxes 1 gang 9221/BG surface, SB615 flush galv. or SB619 dry lining 2 gang 9223/BG surface, SB625 flush galv. or SB629 dry lining

Double pole switched versions are available to order – Add suffix **D** to List No.

ie Double pole 4314/BZ = 4314/**D**BZ.

• All switched sockets are Dual Earth.

13A FLUSH SOCKET OUTLETS WITH METAL ROCKERS

BS 1363		PACK QT	Y
1 gang SP swit	ched	10	4314//6
2 gang SP swit	ched	5	4316//6
1 gang SP swit	ched fitted with neon indicator	10	4314/3/6
2 gang SP swit	ched fitted with neon indicator	5	4316/3/6
Dimensions 1 gang 86mm x 86mm 2 gang 146mm x 86mm			

 Mounting boxes
 1 gang 9221/BG surface, SB615 flush galv. or SB619 dry lining

 2 gang 9223/BG surface, SB625 flush galv. or SB629 dry lining

Double Pole switched versions available to order-Add suffix ${f D}$ to List No.-

ie: Double Pole 4316/3SC/6 = 4316/3**D**SC/6.

For Black Interior, Add Suffix **BK** to List No. ie: 4314/SC**BK**/6.

• All switched sockets are Dual Earth.

13A FLUSH FUSED CONNECTION		5
BS 1363	ΡΑϹΚ QTY	/
Unswitched	10	4831/
Unswitched with neon	10	4831/3_
DP switched	10	4832/
DP switched with neon indicator	10	4832/3_
Unswitched with cord outlet	10	4836/
DP switched with cord outlet	10	4837/
DP switched with cord outlet and neon indicat	or 10	4837/3
Dimensions 86mm x 86mm Mounting boxes 9221/BG surface, SB615 flush ga	lv. or SB619	dry lining

All fused connection units:

Fused on the line side with 13A fuse link ASTA certified and marked to BS 1362. For spare fuse links see page 8. Cord outlet suitable for flexible cord up to 10mm outside diameter.

Two earthing terminals are fitted to the unit.

13A FLUSH FUSED CONNECTION UNITS WITH METAL ROCKER

BS 1363	PACK QTY	
DP switched	10	4832//6
DP switched with neon indicator	10	4832/3/6
DP switched with cord outlet	10	4837//6
DP switched with cord outlet & neon indicat	or 10	4837/3/6
Dimensions86mm x 86mmMounting boxes9221/BG surface, SB615 flush	galv. or SB619 d	dry lining

For Black Interior, Add Suffix BK to List No. ie: 4832/3SCBK/6.

For full specification details of finishes see Technical Data page 173.





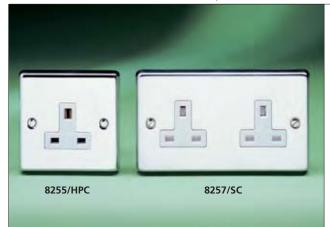
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4832/HPC/6

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4832/3SCBK/6

All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Polished Brass (PB), Stainless Steel (SS), and Polished Stainless Steel (PSS). Indicate the finish you require by adding suffix to list No. ie 2340 – 5A 3 pin switched in Satin Chrome = 2340/SC. Products are also available with Black interior unless specified. Add suffix BK to List No. ie 2340/SC 5A 3 pin switched socket with Black interior = 2340/SC/BK.



13A UNSWITCHED SOCKET OUTLET				
BS 1363		PACK QT	Y	
1 gang unswitche	ed	10	8255/	
2 gang unswitche	ed	5	8257/	
Dimensions Mounting boxes	1 gang 86mm x 86mm 2 gang 146mm x 86mm 1 gang 9221/BG surface, SB615 2 gang 9223/BG surface, SB625			



13A HINGED FLOOR SOCKET

BS 1363		PACK QT	Y
1 gang unswitche	ed	1	8256/
Dimensions	83mm x 89mm		
Mounting boxes	SB615 flush galvanised.		

Available in Satin Chrome **(SC)**, Highly Polished Chrome **(HPC)**, and Polished Brass **(PB)**. Not available with Black Interior.



5A & 15A SWITCHED FLUSH	SOCKET OUTLETS
BS 546	PACK QTY

00 0 10		in tert qr	
5A 3 pin switche	d socket	10	2340/*
15A 3 pin switch	ed socket	10	2372/#
Dimensions	86mm x 86mm		
Mounting boxes	9221/BG surface, SB615 flush galv. or SB619 dry lining		

* Available with black inserts, Add suffix **BK** to List No. ie 2340/SC**BK**.

Not available with Black Interior.



2A UNSWITCHED FLUSH SOCKET OUTLETS PACK QTY 2A 3 pin upswitched socket 10 8075/

za s pin unswitched socket		10	6075/#
Dimensions	86mm x 86mm		
Mounting boxes	9221/BG surface, SB615 flush	galv. or SB6	19 dry lining
# Not available with Bla	ack Interior.		

Prabtree

All the following list numbers are available in Satin Chrome (**SC**), Bronze (**BZ**), Highly Polished Chrome (**HPC**), Polished Brass (**PB**), Stainless Steel (**SS**), and Polished Stainless Steel (**PSS**). Indicate the finish you require by adding suffix to List No. ie 6170 - 1 gang Plate Switch in Bronze = 6170/**BZ**. Products are also available with Black interiors, Add suffix **BK** to List No. ie 6170 - 1 gang 2 way Plate Switch in Satin Chrome with Black interior = 6170/**SCBK**.





BS EN 60669-1		PACK QTY	
1 gang 2 way		10	6170/
2 gang 2 way		10	6172/
3 gang 2 way		10	6173/
1 gang Intermediate	9	10	6175/
1 gang retractive (p	ress) 10A	10	6096/
Dimensions Mounting boxes	86mm x 86m 9043 surface	nm , SB623 flush galv. or SB6	19 dry lining

Two way switches can be wired as one way.

Fully rated for fluorescent or inductive loads. (Except 6096, 10A only)

Retractive switch can be wired for normally open (N/O) or normally closed (N/C) circuits. Seeklight facility available, see page 34 for details.

DIMMER SWITCHES - FLUSH

BS EN 60669-2-1	PACK QTY	
1 gang Dimmer 250W	1	1250W/
1 gang Dimmer 400W	1	1400W/
2 gang Dimmer 250W	1	2250W/
2 gang Dimmer 400W	1	2400W/

Suitable for tungsten mains voltage & GU10 or similar HiSpot halogen bulb.**Dimensions**1-2 gang 86mm x 86mm

Mounting boxes 1-2 gang 9221/BG surface, SB615 flush galv. or SB619 dry lining 2 x 400W dimmer modules on a 1 gang plate should have a combined rating of 500W maximum.





10A CORINTHIAN METALISED PLATE SWITCH BS EN 60669-1 PACK OTY

B2 EN 60668-1	PACK QTY	
10AX 1 gang 2 way SP	10	5170/
10AX 2 gang 2 way SP	10	5172/
10AX 3 gang 2 way SP	10	5173/
20AX 1 gang Intermediate	10	5175/
10AX 1 gang retractive Press	10	5177/
Dimensions 86mm x 86mm		

Mounting boxes 9047 Surface, SB623 Flush galv. or SB619 dry lining.

Only available in Highly Polished Chrome (**HPC**). Not available in Black.

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3A CARD SWITCH

		PACK QTY	,
3A Card Switc	h	5	4018/
Dimensions	86mm x 86mm		

Mounting boxes SB655 flush galv. or SB619 dry lining

Controls energy consumption in installations such as hotels by ensuring that appliances are not left on when rooms are unoccupied.

The switch is operated by a door entry card and controls the supply to a room via a suitably rated contactor.

Will accept door entry cards up to 86mm x 54mm x 1mm.

Mounting Box must be minimum 25mm in depth.

Fitted with neon for illumination through card switch entry. See page 170.

All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Polished Brass (PB), Stainless Steel (SS), and Polished Stainless Steel (PSS). Indicate the finish you require by adding suffix to List No. ie 4011 - 20A DP Control Switch in Satin Chrome = 4011/SC. Products are also available with Black interiors, Add suffix **BK** to List No.



e 40	011/SC - 20A DP Contro	ol Switch in Satin Chi	ome with Black interic	or = 4011/ SCBK .	
	6A TP CONTROL SWITCH				
	BS EN 60669-1 BS	EN 60947-3	PACK QT	Y	
	6A Three Pole Isol	ating switch	10	6017/	
	Provides local isolation remains live.	of Fans with or with	out timers, whilst the res	st of the circuit	
	Enables repair or routi	ne maintenance of Fa	ns. 240V only.		
	Dimensions	86mm x 86mm			
	Mounting boxes	9043 surface, SB6	23 flush galv. or SB619	9 dry lining	
	For Technical details see page 165.				
	Not available with Black Interior.				



SHAVER	SUPPLY	UNIT

PACK QTY 2411/ Prabtree

240V 50Hz input 1 2411/ 115V 50Hz 230V 50Hz } output	Dimensions	86mm x 146mm		
	•		1	2411/

9053 surface, SB628 flush galv. or SB631 dry lining Mounting boxes

Not available with Black Interior

BS EN 61558-2-5



ZUA DP COI	NTROL SWITCHES			
BS EN 60669-1		PACK QTY		
DP switch		10	4011/	
DP switch with n	eon indicator	10	4011/3	
DP switch with neon indicator marked 'Water Heater'		10	4011/31_	
DP switch with n	eon indicator and cord outlet	10	4014/3	
Dimensions 86mm x 86mm Mounting boxes 9047 surface, SB655 flush galv. or SB619 dry lining			ning	
Cord outlet suitable for flexible cord up to 10mm outside diameter.				



32A DP CONTROL SWITCH BS EN 60669-1 PACK QTY DP switch with neon indicator 10 4012/3_ Dimensions 86mm x 86mm Mounting boxes 9041 surface, SB615 flush galv. or SB619 dry lining Two earthing terminals are fitted to the switches.

CAPITAL METAL PLATE

All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Polished Brass (PB), Stainless Steel (SS), and Polished Stainless Steel (PSS). Indicate the finish you require by adding suffix to List No. ie 4522/3 - Cooker Switch in Bronze = 4522/3BZ. Products are also available with Black interiors, Add suffix BK to List No. ie 4522/3SC - Cooker Control Switch in Satin Chrome with Black interior = 4522/3SCBK.



BS 7288		ΡΑϹΚ QTY	
FLUSH			
2 gang switched v 30mA tripping cu	with neon indicator rrent	1	4416/A03
Dimensions Mounting boxes	146mm x 86mm 9048 surface, SB665 flush ga	alv. or SB62	9 dry lining
See page 159 for furt	her information.		
	ninals for easy wiring		

Large capacity terminals for easy wiring.

• Shallow back projection for ease of installation in a 25mm deep box.

13A SAFETY SOCKETS – RCD PROTECTION

- Fitted with two Earth terminals for use where compliance with BS7671: 2008 regulation 544-7 (IEE wiring Regulations).
- Not available with black insert



45A DP SLIM LINE COOKER CONTROL UNIT RS 4177 & RS 1363

45A DP main switch and 13A Switched socket outlet	1	4522/3
Faceplate marked 'COOKER'		
Dimensions 146mm x 86mm		
Mounting boxes 9054 surface, SB625 fl	ush galv. or	SB629 dry lining

• Large capacity tunnel terminals on live and neutral take up to 10mm² cable.

• Two earth terminals are fitted.

• Separate double pole switching for both cooker and socket.



50A DP CONTROL SWITCHES

For associated cable outlets see page 10.

For Black Interior, Add Suffix BK to List No. ie: 4512/3SCBK.



METAL CAPPE	D 50A CEILING SWITCHES			
BS EN 60669-1 PACK QTY				
1 way DP with neon mechanical indicator	and 1 2167/			
Mounting boxes	Integral pattress for surface mounting. Can be mounted to a large circular conduit box.			
Complies with the require isolating device. Terminals will accept up t Standard pull cord/acorn Suitable for use with 25m Rated for non-inductive lo	is 1.5m long, in white. m x 16mm trunking.			
Available in the follwing finishes: Satin Chrome (SC), Polished Brass (PB), Highly Polished Chrome (HPC) & Black Nickel (BKN).				

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PACK QTY

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All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Stainless Steel (SS) and Polished Stainless Steel (PSS) Indicate the finish you require by adding suffix to List No. ie 8265 - Co-axial socket in Bronze = 8265/BZ.

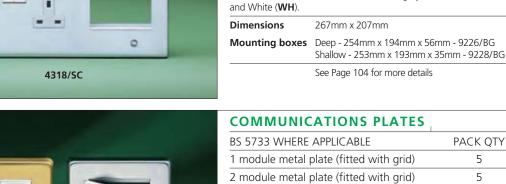
MULTI MEDIA PLATE

The plate comprises 2 Dual Earth, Double pole, twin switched sockets and has provision for up

Multi Media Plate

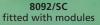
to six Euro modules.







8092/BZ fitted with modules





The following finishes are available, please add suffix to List No. Satin Chrome (SC),

Stainless Steel (SS), Polished Brass (PB), Highly Polished Chrome (HPC)

The metal plates listed above accept any of the Datapak range of modules. See page 23 for full product selection details.





COMMUNICATION MODULES

	PACK QTY	
BT Master Voice	25	7080
BT Master Voice, Left Handed	25	7080/LH
BT secondary Voice, 6 wire	25	7071
RJ45 (single) module, 8 wire – Category 5e	25	7172
DATA AND CO-AXIAL MODUL	ES	
BNC single module with 75 Ohm crimp connector	25	7074
TV outlet (male)	25	7065
TV outlet (female)	25	7067
F type Satellite	25	7069
Triplex Unit (TV, FM, Sat)	25	7063
Quadplexer with TV return (TV, TV Return, FM, Sat 1 & Sat 2)	10	7064
TV outlet screened, return	25	7060
Phono (Female)	25	7087
BLANK MODULES & ACCESSO	RIES	
¹ /2 module size	25	7081/2
1 module size	25	7081
IDC Tool	20	6915
IDC Crimp Tool	1	7915
Also available in Black - Add suffix BK to List No. ie:	tain lass south in Dia als	- 7062/ PK

For full specification details of finishes see Technical Data page 172.

Crabtree

All the following list numbers are available in Satin Chrome (SC), Bronze (BZ), Highly Polished Chrome (HPC), Polished Brass (PB) Stainless Steel (SS) and Polished Stainless Steel (PSS). Indicate the finish you require by adding suffix to List No. ie 8265 Co-axial socket in Bronze = 8265/BZ.



TELEPHONE PLATES

BS 7671		PACK QTY	
Telephone Maste	er	10	8283/
Telephone Secor	ndary	10	8284/
Dimensions Mounting boxes	86mm x 86mm 9047 surface, SB655 flush galv. or SB619 dry lining		

CO-AXIAL SOCKET OUTLETS

BS 3041 WHERE APPLICABLE	PACK QTY	
1 way direct connection	10	8265/
2 way direct connection	10	8266/
1 way isolated UHF, VHF	1	8267/
2 way isolated UHF, VHF	1	8268/

Dimensions 86mm x 86mm

Mounting boxes 9047 surface, SB655 flush galv. or SB619 dry lining *Isolated units only suitable on installations with earth bond.*



RED ROCKERS

For applications where essential supply systems are in use, sockets and fused connection units with red rockers are available to order. These are ideal for use in hospitals, computer installations, etc. To order, add suffix to List No.

ie 4316/SC with red rockers = 4316/SC/RD.

For Rockergrid switches with red rockers see Rockergrid section page 86-87.



BLANKING PLATES

BS 5733 WHE	RE APPLICABLE	PACK QTY	
1 gang		20	6575/
2 gang		20	6577/
Dimensions	1 gang 86mm x 86mm		
	2 gang 146mm x 86mm		



SUFFIX

HD HG

HI HS IH KEF LG LI LL MW NI

OFFP OL

ONP OV PEL PLH RF SA SD SE

> SH SL

SP ST STC

TD TR TVA UH VF WA WC WD

WМ

WS



PRODUCT MARKING SERVICE

A wide range of markings can be added to 13A fused connection units and double pole control switches. The majority of these markings are consistent in style, colour and position with the standard Tampoprinted 'water heater' marking on List No.4011/31___. All of the markings offer the same high level of durability.

To order any of the markings listed below, add suffix to List No. ie 4832/SC marked 'fridge freezer' = 4832/SC/FF.

MARKING	SUFFIX	MARKING
air conditioner	AC	cooker hood
alarm	AL	heating
bathroom	BA	hair dryer
bell transformer	BE	heating isolator
bathroom extract fan	BEF	heater
bathroom heater	BH	immersion heater
boiler	BO	kitchen extract fan
boiler supply	BOS	light
boost	BST	lift
British Telecom	BT	loft light
caravan	CA	microwave
CCTV	CCTV	night immersion
central heating	CH	off peak
cooker	СК	outside light
cupboard light	CL	on peak
convector heater	CNH	oven
day boost	DB	pelmet light
detector	DE	plinth heater
downflow heater	DH	refrigerator
door bell	DO	security alarm
dish washer	DW	smoke detector
dryer	DY	security equipment
emergency circuit	EC	shower
extractor fan	EF	security light
extractor hood	EH	shower pump
fire alarm	FA	storage heater
for cleaners use only	FCO	steam cabinet
fan coil unit	FCU	tumble dryer
feature fire	FE	towel rail
fridge/freezer	FF	TV amplifier
fan heater	FH	underfloor heating
fire	FI	vent fan
fan	FN	water heater
fridge	FR	water cooler
freezer	FZ	waste disposal
gas ignition	GI	washing machine
hand dryer	HA	washer
hob	HB	

These popular markings are offered on a fast track service in the standard wiring accessories colour. For price and delivery information on other markings not listed above, contact our Technical Services Department.



METALCLAD

In tough conditions the sturdily built Capital Metalclad range is ideal for use in industry, commerce and the home.



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- Tough durable finish which is resistant to premature ageing, discolouration and corrosion.
- Finishing process is highly automated and controlled to ensure a consistent level of performance.
- Production line tested for quality of gloss finish and uniform coverage of coating.





BS 1363		PACK QTY			
1 gang SP		10	4214/BG		
2 gang SP		5	4216/BG		
1 gang SP with neon indicator		10	4214/3BG		
2 gang SP with neon indicator		5	4216/3BG		
Dimensions	1 gang 86.7mm x 86.7mm x 44mm				
2 gang 143.9mm x 86.9mm x		n x 86.9mm x 44mm			

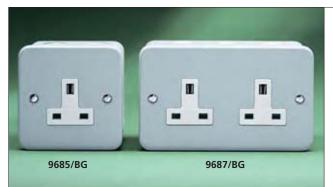
For sockets with plain boxes – Add suffix **P** to List No.

eg 4216/BG with plain box = 4216/**P**BG. Double pole available to order – Add suffix **D** to List No.

eg Double pole 4216/BG = 4216/DBG.

• All switched sockets are Dual Earth.









13A UNSWITCHED SOCKET OUTLETS BS 1363 PACK QTY 1 gang unswitched 10 **9685/BG** 2 gang unswitched 5 **9687/BG** Dimensions 1 gang 86.7mm x 86.7mm x 44mm 2 gang 143.9mm x 86.9mm x 44mm

For sockets with plain boxes – Add suffix **P** to List No. eg 4216/BG with plain box = 4216/**P**BG.

13A FUSED CONNECTION UNITS

BS 1363 WHERE APPLIC	ABLE	PACK QTY	
Unswitched		10	4841/BG
Unswitched with neon in	ndicator	10	4841/3BG
DP switched		10	4842/BG
DP switched with neon i	indicator	10	4842/3BG
Unswitched with cord o	utlet	10	4846/BG
DP switched with cord c	outlet	10	4847/BG
DP switched with cord c neon indicator	outlet and	10	4847/3BG
Dimensions 8	36.7mm x 86.7mm x 44	mm	
For fused connection units w eg 4842/BG with plain box = Fused on the line side with a	4842/ P BG.		o BS 1362.

For spare fuse links see page 8.

Cord outlets suitable for flexible cord up to 10mm outside diameter.

Two earthing terminals are fitted to the unit.



13A SAFETYSOCKET WITH RCD PROTECTION

• Shallow back projection for ease of installation in a 25mm deep box

BS 7288		PACK QT	Y
2 gang switched 30mA tripping c	with neon indicator urrent flush mounting	1	4416/A03BG
2 gang switched 30mA tripping c	with neon indicator urrent surface mounting	1	4426/A03BG
Dimensions Mounting boxes	Flush –146mm x 86mm Sur 4414 & 4416 series 9223/BG surface,SB665 flus		

• Fitted with two earth terminals for use where compliance with BS7671: 2008 regulation 543-7 (IEE Wiring Regulations)

For boxes less knockouts see page 104. For further information see page 159.

• Large capacity terminals for easy wiring

4416/A03BG











15A SWITCHED SOCKET	OUTLETS	
46	PACK QTY	,
huttered SP	10	2240/BG

BS 546	PA	CK QT	Y
5A shuttered SP		10	2240/BG
15A shuttered SP		10	2272/BG
Dimensions	86.7mm x 86.7mm x 44mm		
For boxes less knockouts	see name 101		

For *k* ss knockouts see page 104.

5A,

10AX SWITCHE	S		
BS EN 60669-1	PA	CK QT	Υ
10AX 1 gang 2 way		10	4581/BG
10AX 2 gang 2 way		10	4582/BG
10AX 3 gang 2 way		10	4583/BG
Dimensions	86.7mm x 86.7mm x 44mm		

20A DP CONTROL SWITCHES

BS EN 60669-1		PACK QT	PACK QTY		
DP Switch with ne	on indicator	10	4020/3BG		
DP Switch with ne cord outlet	on indicator and	10	4021/3BG		
Dimensions	86.7mm x 86.7mm :	x 44mm			
Surface box fitted with e	flexible cord up to 10mm outsic earth terminal. poxes add suffix P to List No. ie		n box = 4020/3 P BG.		

50A DP CONTROL SWITCHES

BS EN 60669-1		ΡΑϹΚ ΟΤΥ		
DP Switch		10	4512/BG	
DP Switch with neon indicator		10	4512/3BG	
Dimensions	142mm x 82mm x 42mm			
BS EN 60947-3 rating 24	10V 50A category of duty AC22			

For full specification details of finishes see Technical Data page 173.



6A TP CONTROL SWITCHES

BS EN 60669-1, BS EN60947-3 PACK QTY

10A Three Pole Isolating Switch

Provides local isolation of fans with or without timers whilst the rest of the circuit remains live. Enables repair or routine maintenance of fans. 240V only.

10

4587/BG

Dimensions 86.7mm x 86.7mm x 44mm

For full details of compliance with BS EN 60947-3 see Technical Data page 165.



4216/BG/RD	

TRIPLE POLE & NEUTRAL 415V, 50HZ AC

	PAG	CK Q	ΤY
32A with Switched	Neutral, for surface mounting	1	1932
32A with Switched	1	1932/F	
• Terminal capacity 10m	m.		
Dimensions	133mm x 114mm x 61mm		

RED ROCKERS

For applications where essential supply systems are in use, sockets and fused
connection units with red rockers are available to order.
These are ideal for use in hospitals, computer installations, etc.

PART No.	ΡΑϹΚ ΟΤΥ	
Single switched socket	10 4214/BG/RD	
Twin switched socket	5 4216/BG/RD	

For Rockergrid switches with red rockers see Rockergrid section page 86.

• All switched sockets are Dual Earth.



BLANKING PLATES FOR SURFACE REPLACEMENT BOXES

PA	CK Q	ΓY
	5	3809BG
	10	3899BG
1 gang 86.7mm x 86.7mm 2 gang 143 9mm x 86.9mm		
		10 1 gang 86.7mm x 86.7mm

CAPITAL METALCLAD

For full specification details of finishes see Technical Data page 173.

ROCKERGRID MODULAR SYSTEM

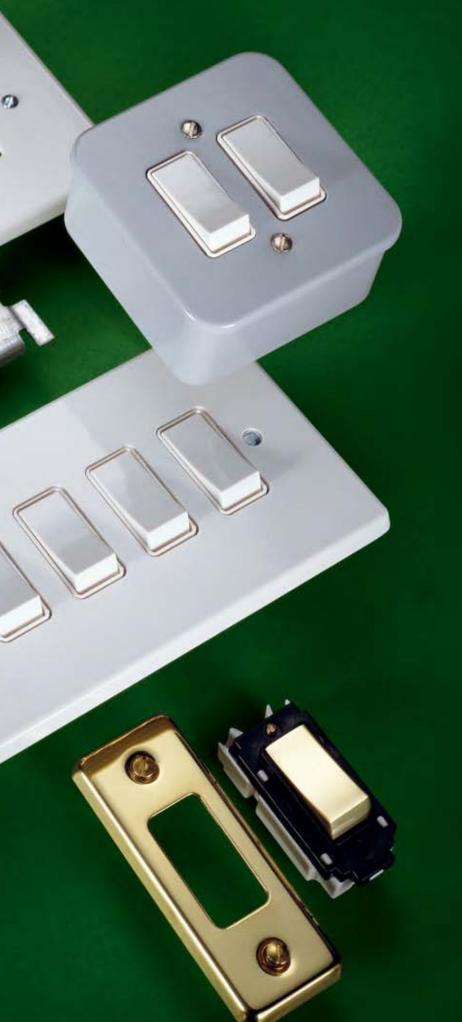
Rockergrid provides the design versatility of a modular switch range whilst incorporating Capital styling and safety features which benefit the user and installer alike.

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Polished Brass

Satin Chrome

Highly Polished Chrome

Polished Stainless Steel

Bronze



White





Birch Grey

- Unique labyrinth switch design minimises visible arc flash and prevents front access to live parts.
- Positive drive switch action prevents balancing between the 'on' and 'off' position and gives reliable indication of the contact position.
- Silver alloy contacts for longer life and low contact resistance.

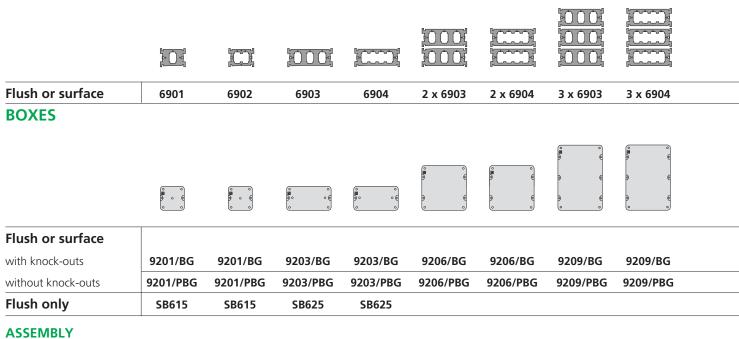
ROCKERGRID MODULAR SYSTEM

Crabtree

SELECTION TABLE PLATES

	• •		•	•		· · · ·			
Gang	1	2	3	4	6	8	9	12	
Surface									
BIRCH GREY Engraved 'Water Heater'	6581/BG 6581/1BG	6582/BG 6582/1BG	6583/BG	6584/BG	6586/BG	6588/BG	6589/BG	6580/BG	
Flush									
MOULDED WHITE	5571	5572	5573	5574	5576				
WHITE METAL						6578/WH	6579/WH	6570/WH	
BRONZE Engraved 'Water Heater'	6571/BZ 6571/1BZ	6572/BZ 6572/1BZ	6573/BZ	6574/BZ	6576/BZ	6578/BZ	6579/BZ	6570/BZ	
SATIN CHROME Engraved 'Water Heater'	6571/SC 6571/1SC	6572/SC 6572/1SC	6573/SC	6574/SC	6576/SC	6578/SC	6579/SC	6570/SC	
HIGHLY POLISHED CHROME	6571/HPC	6572/HPC	6573/HPC	6574/HPC	6576/HPC	6578/HPC	6579/HPC	6570/HPC	
POLISHED STAINLESS STEEL	6571/PSS	6572/PSS	6573/PSS	6574/PSS	6576/PSS	6578/PSS	6579/PSS	6570/PSS	
POLISHED BRASS	6571/PB	6572/PB	6573/PB	6574/PB	6576/PB	6578/PB	6579/PB	6570/PB	

GRIDS





1 Install box and enter cables.

 Boxes, grids & switches common to flush & surface installations.



from grid for surface installations.

• When Flush mounting do not remove 'ears'.

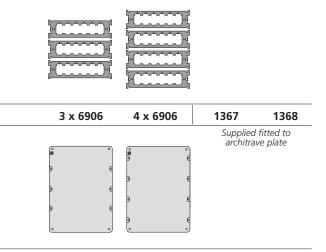


3 Fix switches into grid.

• Single screw switch fixing. Fingerproof shrouding around terminals.



	• • • • • • • • • • • • • • • • • • • •		itrave
10000 18	24	1	2
6580/18BG	6580/24BG		
6570/18WH	6570/24WH	6591/WH	6592/WH
6570/18BZ	6570/24BZ	6591/BZ	6592/BZ
6570/18SC	6570/24SC	6591/SC	6592/SC
6570/18HPC	6570/24HPC	6591/HPC	6592/HPC
6570/18PSS	6570/24PSS	6591/PSS	6592/PSS
6570/18PB	6570/24PB	6591/PB	6592/PB



Metal rocker finishes: Satin Chrome (SC/WH) , Bronze (BZ) , Polished Brass (PB) ,	
Highly Polished Chrome (HPC), Polished Stainless Steel (PSS)	
and Stainless Steel (SS/WH) .	_

SWIT	CHES	ROCKER	
		MOULDED	METAL
10AX	1 way	4430	4430/6*
10AX	2 way	4530	4530/6*
10A	Retractive	4489	4489/6*
10A	Retractive marked with bell symbol	4490	4490/6*
10A	Retractive 2 way and off	4553	4553/6*
20AX	1 way	4450	4450/6*
20AX	1 way key switch c/w key	4451	
20AX	2 way	4550	4550/6*
20AX	2 way key switch c/w key	4551	
20AX	2 way and off	4552	4552/6
20AX	Intermediate	4535	4535/6*
20AX	Double pole	4460	4460/6*
20AX	Double pole marked 'ON'	4469	
20AX	Double pole key switch c/w key	4461	
Switche	es are available in Black (BK) eg: 4460/BK, 4	4460/6PBBK	

ACCESSORIES

ACCESSORIES		
Cord outlet	4435	
13A fused connection unit	4436	
Neon indicator (Red)	4491	
Neon indicator (Green)	4493	
Neon indicator (Amber)	4494	
Socket outlet 2.5–16A	4499†	
Blanking component	4492	
Spare key	6940 (Metal)	
Accesories are available in Black (BK) eg: 4436/BK		
t Available for export use only.		
Geolitade una electrar		

Switch modules:

- Tough impact-resistant thermoplastic moulded construction.
- Metal plate switch modules incorporate double insulation.
- Suitable for panel mounting and OEM applications.
- IP66 protected Rockergrid switch enclosures are available, see Weatherseal section page 77.

9209/18BG	9209/24BG		
9209/18PBG	9209/24PBG		
		9341/GV	9342/GV



- 4 Connect wires to relevant switches & earth terminals.
- Large capacity, easy-to-wire terminals. • Diagrammatic
- marking on rear of switch.



- 5 Fix wired switch/grid assembly into box.
- Automatic grid alignment with horizontal adjustment.



6 Fix face plate onto grid.

 Robust impact resistant construction, high quality moulded & metal parts.



10AX SWITCHES – MOULDED ROCKER

BS EN 60669-1	PACK QTY	
1 way SP	10	4430
2 way SP	10	4530
Retractive 10A	10	4489
Retractive – bell symbol 10A	10	4490
Retractive 2 way and off 10A	10	4553

Available as made to order in Black (BK) eg: 4530/BK

Fully rated for fluorescent and inductive loads (except List No.4553, 4490 & 4489). 4490 Retractive switch can be wired for normally open (N/O) or normally closed (N/C) circuits. (except List No. 4553)



20AX SWITCHES – MOULDED ROCKER

BS EN 60669-1	PACK QTY	
1 way	10	4450
1 way complete with key	10	4451
1 way with key marked "Emergency Lighting Te	st" 10	4451/ELT
Double Pole	10	4460
Various markings - See page 89	10	4460/
DP complete with key	10	4461
DP with key marked "Emergency Lighting Test	:" 10	4461/ELT
DP marked 'ON'	10	4469
Intermediate	10	4535
2 way	10	4550
2 way complete with key	10	4551
2 way with key marked "Emergency Lighting Tes	t" 10	4551/ELT
2 way and off	10	4552
Spare key	10	6940
Available as made to order in Plack (PK) og: 4550/PK		

Available as made to order in Black (BK) eg: 4550/BK

ACCESSORIES - MOULDED

BS 5733 WHERE APPLICABLE	PACK QTY	
Cord outlet – 10mm diameter aperture, con with earthing terminal and cable clamp	nplete 10	4435
Fuse unit fitted with 13A ASTA certified fu	use link 10	4436
Indicator – Red	10	4491
Blanking component	10	4492
Indicator – Green	10	4493
Indicator – Amber	10	4494

Available as made to order in Black (BK)





4492

4494

OTHER SWITCH VARIATIONS

The following n	nodules are av	ailable with bla	ck mouldings.	
Black rockers	4430/BK	4491/BK		
	4450/BK	4493/BK		
	4490/BK	4550/BK		
Red rockers	4430/RD	4530/RD	4450/RD	4535/RD
	4460/RD	4550/RD	4490/RD	

4436

4491

0

For full specification details of finishes see Technical Data page 173.

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R O

CKERGRID MODULAR SYSTEM

Prabtree

All the following metal plate switches are available with Satin Chrome (SC/WH), Bronze (BZ), High Polished Chrome (HPC) Polished Brass (PB) Polished Stainless Steel (PSS) and Stainless Steel (SS/WH) rockers. Indicate the finish you require by adding the suffix to List No. eg 4430/6 with Bronze rocker = 4430/6BZ.



BS EN 60669-1 PACK QTY				
1 way	10	4430/6_		
Retractive 10A	10	4489/6_		
Retractive 2 way and off 10A	10	4553/6_		
2 way	10	4530/6_		

Available with Black moulding Trim eg: 4530/6SC

Fully rated for fluorescent and inductive loads (except List No. **4489/6**__ & **4553/6**__). Retractive switches can be wired for normally open (N/O) or normally closed (N/C) circuits.



4460/6HPC 4535/6PB 4550/6SS/WH 4450/6SC/WH 4460/6PSS

20AX SWITCHES – METAL PLATE ROCKER			
BS EN 60669-1	PACK QTY	1	
1 way	10	4450/6_	
Double Pole	10	4460/6_	
Intermediate	10	4535/6_	
2 way	10	4550/6_	
2 way and off	10	4552/6_	
Available with White moulding Trim eg: 4530/6SC/ W . Available with Black moulding Trim eg: 4530/6SC			

Fully rated for fluorescent and inductive loads.



GRID DIMMERS

BS EN 60669-2-1, BS EN 55015	PACK QTY	
250W White	10	4425
250W Black	10	4425/BK
400W White	10	4440
400W Black	10	4440/BK
ILLUMINATED GRID DIMMERS	1	
250W White	10	4425/BL
250W Black	10	4425/BKBL
400W White	10	4440/BL
400W Black	10	4440/BKBL

• For Technical details of grid dimmers & Illuminated grid dimmers see page 170.

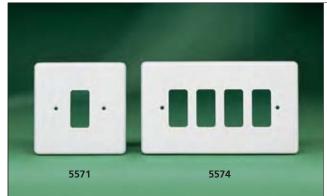
• Dimensions on page 191.



GRIDS			
1 gang		20	6901
2 gang		20	6902
3 gang		10	6903
4 gang		10	6904
6 gang		10	6906
Dimensions	1–2 gang 81mm x 58mm 6 gang 202mm x 58mm	3–4 gang 141mm	ı x 58mm
14/h and an and for		the finite of the second shares	I - I - I

When required for surface mounting assemblies, the fixing ears should be removed or bent inwards at 90°.

Complete with earth terminal.



FLUSH MOULDED PLATES

		PACK QTY	
1 gang		20	5571
2 gang		20	5572
3 gang		10	5573
4 gang		10	5574
6 gang		1	5576
Dimensions	1–2 gang 86mm x 86mm		

3–4 gang 146mm x 86mm 6 gang 147mm x 147mm

FLUSH METAL PLATES

		PACK QTY	
1 gang		20	6571/
1 gang facep	plate printed 'water heate	r' 20	6571/1
2 gang		20	6572/
2 gang facep	plate printed 'water heate	r' 20	6572/1
3 gang		10	6573/
4 gang		10	6574/
6 gang		1	6576/
8 gang		1	6578/*
9 gang		1	6579/*
12 gang		1	6570/*
18 gang		1	6570/18*
24 gang		1	6570/24*
1 gang archi	trave complete with grid	10	6591/*
2 gang architrave complete with grid		10	6592/*
Dimensions 1–2 gang 86mm x 86mm 18 gang 207mm x 3–4 gang 146mm x 86mm 24 gang 207mm x 24 gang 207mm x 6–8 gang 147mm x 147mm 1 gang architrave 3 2 gang architrave 3 9–12 gang 147mm x 207mm 2 gang architrave 3 3		267mm 35mm x 86mm	

Add to List No. - BZ for Bronze finish, SC for Satin Chrome finish, HPC for Highly Polished Chrome finish, PB for Polished Brass finish, PSS for Polished Stainless Steel finish.

*Available in White Finish. Add WH to List No.

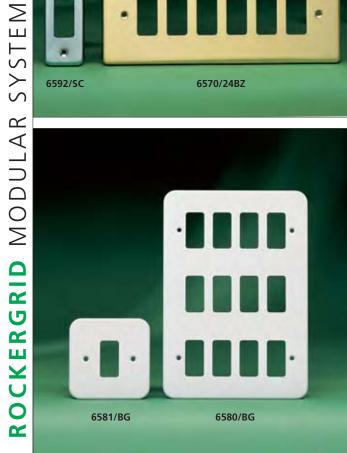
SURFACE METALCLAD PLATES

	PA	CK QTY	
1 gang		20	6581/BG
1 gang faceplate printed 'water h	ieater'	20	6581/1BG
2 gang		20	6582/BG
2 gang faceplate printed 'water h	ieater'	20	6582/1BG
3 gang		10	6583/BG
4 gang		10	6584/BG
6 gang		1	6586/BG
8 gang		1	6588/BG
9 gang		1	6589/BG
12 gang		1	6580/BG
18 gang		1	6580/18BG
24 gang		1	6580/24BG
Dimensions 1–2 gang 77mm x 77m	9	ig 137mn	n x 197mm

3–4 gang 137mm x 77mm 6–8 gang 137mm x 137mm

18 gang 197mm x 257mm 24 gang 197mm x 257mm







BOXES			
		PACK QTY	/
1 and 2 gar	ng surface or flush	10	9201/BG
3 and 4 gar	ng surface or flush	5	9203/BG
6 and 8 gar	ng surface or flush	1	9206/BG
9 and 12 ga	ang surface or flush	1	9209/BG
18 gang sui	rface or flush	1	9209/18BG
24 gang sui	rface or flush	1	9209/24BG
1 gang architrave flush only		10	9341/GV
2 gang architrave flush only		10	9342/GV
Dimensions	9201/BG 73mm x 73mm x 40mm 9203/BG 133mm x 73mm x 40mm 9206/BG 133mm x 133mm x 40mm 9209/BG 133mm x 194mm x 40mm 9209/18BG 194mm x 254mm x 56mr 9209/24BG 194mm x 254mm x 56mr 9341/GV 27mm x 70mm x 35mm 9342/GV 27mm x 130mm x 35mm		

16mm knock-outs in 1 and 2 gang box and architrave boxes. 20mm and 25mm knock-outs in 3–24 gang boxes.

Note: BG boxes fitted with earth terminal. Spare earth terminal (List No.**6989**) see page 104.



BOXES LESS KNOCKOUTS

	PACK QTY	
1 and 2 gang surface or flush	10	9201/PBG
3 and 4 gang surface or flush	5	9203/PBG
6 and 8 gang surface or flush	1	9206/PBG
9 and 12 gang surface or flush	1	9209/PBG
18 gang surface or flush	1	9209/18PBG
24 gang surface or flush	1	9209/24PBG
Dimensional 0201/DDC 72		

Dimensions 9201/PBG 73mm x 73mm x 40mm 9203/PBG 133mm x 73mm x 40mm 9206/PBG 133mm x 133mm x 40mm 9209/PBG 133mm x 194mm x 40mm 9209/18PBG 194mm x 254mm x 56mm 9209/24PBG 194mm x 254mm x 56mm

Note: BG boxes fitted with earth terminal. Spare earth terminal (List No. 6989) see page 104.



20AX DOUBL	E POLE SW	ITCH MARKING	I
"boiler"	4460/BO	"cooker hood"	4460/HD
"dishwasher"	4460/DW	"extractor fan"	4460/EF
"fridge"	4460/FR	"freezer"	4460/FZ
"fridge freezer"	4460/FF	"hob"	4460/HB
"heating system"	4460/HT	"microwave"	4460/MW
"tumble dryer"	4460/TD	"waste disposal"	4460/WD
"washer dryer"	4460/WDR	"washing machine"	4460/WM
"water heater"	4460/WA		

• can be used with 13A fuse units to build bespoke kitchen/utility room control panel.

All of the above are supplied in pack quantities of 10.

For full specification details of finishes see Technical Data page 173. For panel cut out detail, see dimensions on page 189. Crabtree









WEATHERSE/\L

WATER & DUST PROTECTED

Water and dust protected to IP56, Weatherseal is ideal for all environments.

Especially suitable for use in the garden, workshop or Industry as the robustly designed socket outlets retain their IP56 rating when used with a moulded on 13A plug which is standard fitment on many power tools and appliances.

- Socket outlets retain their IP56 rating when used with any standard 13A plug.
- 1 gang, 2 gang and retractive surface switches all retain their IP56 rating even when in use.
- Communication enclosures will accept Euro modules featured in the Datapak range.



• Socket lid is automatically retained in the open position, enabling the plug to be easily inserted. A simple push down until the fixing click is heard is all that is necessary to create a waterproof seal, safeguarding your family and home.



SWITCHES

	1		
IP56 BSEN 6066	9-1	PACK QTY	
20AX 1 gang 2	way switch	1	9700
20AX 2 gang 2	way switch	1	9702
20A Retractive	witch marked 'Press'	1	9703
Dimensions	1 gang 96mm (Height) x 96mr	m (Width) x 70mm (D	epth)

Supplied as ready assembled units, with two earth terminals in the back box Knockouts - 1 gang 4x 20mm Dia, one on each edge

13A SOCKETS

IP56 BS1363	P		(
1 gang Unswitch	ed Socket	1	9704
2 gang DP Switch	ned Socket c/w twin earth terminals	1	9706
Dimensions	1 gang 126mm(Height) x 96mm(Wid 2 gang 143mm(Height) x 164mm(Wid	,	

The Sockets retain their IP56 rating when used with any standard 13A plug, including flexed plugs

Supplied as ready assembled units, with two earth terminals in the back box Knockouts - 1 gang 4x 20mm Dia, one on each edge

2 gang 6x 20mm Dia, two on the top and bottom, and one on each side



13A SAFETY SOCKETS WITH RCD PROTECTION

IP56 BS7288		PACK QTY	
2 gang DP Swit	ched SRCD c/w neon indicator	1	9708
Dimensions	2 gang 143mm(Height) x 164mm	(Width) x 81mm	(Depth)

30mA tripping current

Socket complete with twin earth terminals

RCD sockets are all passive control electromechanical operation and will not trip on loss of mains supply

The Sockets retain their IP56 rating when used with any standard 13A plug, including flexed plugs

Supplied as ready assembled units, with two earth terminals in the back box Knockouts - 2 gang 6x 20mm Dia, two on the top and bottom, and one on each side See page 159 for further information.

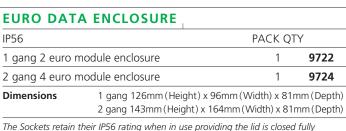


13A SWITCHED FCU

IP56 BS1363		PACK QTY	,
13A 1 gang Sw	ritched FCU c/w cord outlet	1	9707
Dimensions	1 gang 126mm (Height) x 96mm	(Width) x 81mm	n (Depth)

Fused on the line side with a 13A fuse to BS1362

Cord outlet on the front plate is suitable for flexible cord up to 10mm outside diameter Supplied as ready assembled units, with two earth terminals in the back box Knockouts - 1 gang 4x 20mm Dia, one on each edge



PACK QTY

1

1

9722

9724

Prabtree

Supplied as ready assembled units, with two earth terminals in the back box Knockouts - 1 gang 4x 20mm Dia, one on each edge

2 gang 6x 20mm Dia, two on the top and bottom, and one on each side

DATA AND CO-AXIAL MODULES

		PACK QT	Ý
BNC single module with 75	Ohm crimp connector	25	7074
TV outlet (male)		25	7065
TV outlet (female)		25	7067
F type satellite		25	7069
Triplex Unit (TV, FM, Sat)		25	7063
TV outlet screened, return		25	7060
Phono (female)		25	7087
Quadplexer (TV, FM, Sat 1 &	Sat 2)	10	7066
Quadplexer with TV return (TV, TV return, FM, Sat 1 & S	at 2)	10	7064
Also available in Black - Add suffix ie: Triplex unit in black = 7063/ BK			
	0mm (1 Module) 063 & 7066 - 50mm x 50	mm)	

(except 7063 & 7066 - 50mm x 50mm) (except 7064 - 75mm x 50mm 3 Module) D



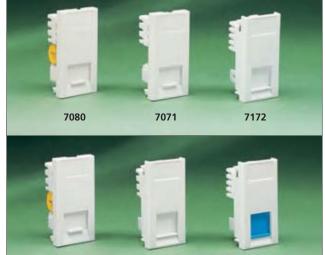


7069

7067



7065



7086

7174

7176

COMMUNICATION MODULES

PACK QTY	/
25	7080
25	7080/LH
25	7071
25	7172
25	7174
25	7086
25	7176
25	7173
25	7081/2
25	7081
10	7082
	25 25 25 25 25 25 25 25 25 25 25 25

25mm x 50mm (1 Module) Dimensions

Crabtree

The individual switches and sockets listed on this page are supplied as ready assembled units on shallow enclosures. The switched socket combination unit and RCD protected socket outlets are pre-wired and supplied as ready assembled units on appropriate enclosures.





10A SURFACE SWITCHES

BS 3676 BS 549	90 IP66	PACK QTY
9561	1 gang 1 way	4
9562	2 gang 1 way	2
Dimensions	1 gang 101mm x 101mm x 76mm 2 gang 197mm x 101mm x 76mm	

Padlock off facility provided. See page 143 for suitable padlock. Terminals accepted 2.5mm² cable.

13A PLUGS, SURFACE SOCKETS & COMBINATION UNITS

		PACK QTY
9565	Single socket outlet	4
9567	Switched socket combination	2
Dimensions	1 gang size 101mm x 101mm x 76mm 2 gang size 197mm x 101mm x 76mm	

Sockets incorporate transparent flap which automatically snaps shut when the plug is withdrawn.

Terminals accept maximum 10mm² cable.



RCD PROTECTED 13A SOCKETS

SOCKET BS 1363 RCD BS EN 61008	PACK	OTY
9571	40A 30mA RCD protecting one 13A socket	. 1
9572	40A 30mA RCD protecting two 13A sockets	1
Dimensions	3 gang size 296mm x 102mm x 104mm 4 gang size 199mm x 199mm x 104mm	

Sockets incorporate transparent flap which automatically snaps shut when the plug is withdrawn.

RCD terminals accept 25mm² cable. RCD is Type AC operation.



RCD PROTECTED 16A 240V SOCKET SOCKET BS 4343 RCD BS EN 61008 PACK QTY

9579	40A 30mA RCD protecting 16A 2P + E		
	240V splashproof socket	I	1
RCD terminals	accept 25mm ² cable.		

RCD is Type AC operation.

Common to 110V and 240V BS 4343 splashproof sockets IP44 protection is maintained when plug is inserted. IP66 is maintained when cover flap is closed.

Polycarbonate is a highly durable material which is ideal for use in most environments, however seek advice before installing in environments where chemicals or harsh cleaners are likely to be used.

MODULAR SELECTION

The popular items listed on the page opposite in ready-assembled form can also be built up from separate modules to allow greater stock flexibility, whilst additional separate sale switch, socket and cover modules with enclosures up to 6 gang size enable the installer to provide high IP-rated combinations to suit individual applications.





The table below lists the modular equivalents to the popular items supplied as ready assembled units.

READY-ASSEMBLED UNITS	MODULAR EQUIVALENT SELECTION			
DESCRIPTION	LIST No	COVER MODULE(S)	ENCLOSURE	RCD
10A switch – 1 gang 1 way	9561	9561/1L	9561/ES	_
10A switch – 2 gang 1 way	9562	9561/1L x 2	9562/ES	_
13A single socket outlet	9565	9565/L	9561/ES	_
13A switched socket	9567	9567/L	9562/ES	_
13A single socket with 40A 30mA RCD	9571	9570/2 + 9565/L	9563/E	224/030
13A twin socket with 40A 30mA RCD	9572	9570/2 x 1 + 9565/L x 2	9564/E	224/030
16A 2P + E 240V socket – BS 4343	9579	9570/2 + 9569/L	9563/E	224/030
The table below lists module selection details for sor	ne additional popular	combinations.		
DESCRIPTION		COVER MODULE(S)	ENCLOSURE	RCD
13A twin socket outlet with single switch		9565/L x 2 + 9561/DL	9563/E	_
13A twin-switched socket outlet		9567/L x 2	9564/E	_
13A single-switched socket with 40A 30mA R	CD	9570/2 × 1 + 9567/L	9564/E	224/030

SWITCH MODULES

		PACK QTY
9561/1L	10A 1 way switch	4
9561/DL	20A DP switch	4
9573/L	32A TP switch	4
9573/RL	32A TP switch – yellow/red	4
Can be assemble	d in shallow enclosures.	

9573/L 9561/2L 9573/R

13A SOCKET MODULES

		PACK QTY
9565/L	13A single unswitched socket	8
9567/L	13A switch/socket combination	2

Can be assembled in shallow enclosures.



WEATHE 刀 SEAL WATER & DUST PROTE \cap \Box



9569/L

SOCKET MODULES

BS 4343		PACK	QTY
9569/L	16A 2P + E 240V splashproof socket		4
9591/L	16A 2P + E 110V splashproof socket		4
9593/L	16A 3PN + E 415V splashproof socket		4

Should be assembled in deep enclosures.

IP44 protection is maintained when plug is inserted, on 110V and 240V sockets. IP66 is maintained when plug is inserted, on 415V sockets.

ROCKERGRID COVER MODULES

		PACK QTY
9581/RG	1 gang	4
9582/RG	2 gang	4

• Suitable for any Rockergrid module.

• Rockergrid modules fix directly into moulded-in grid with single screw fixing.

• Enables a wide range of switch variations in IP66 rated enclosures.

• Can be used to provide 2 gang switching option where space is insufficient for standard Weatherseal module.



9581/RG

9582/RG

The selection table below lists some of the popular IP66 combinations which can be assembled from the Weatherseal and Rockergrid ranges.

MODULE SELECTION

DESCRIPTION	ROCKERGRID module(s)	WEATHERSEAL cover module	WEATHERSEAL enclosure
10AX 2 gang 1 way switch – single module size	4430 x 2	9582/RG	9561/ES
10AX retractive switch	4489	9581/RG	9561/ES
13A switched FCU	4460 + 4436	9582/RG	9561/ES
13A unswitched FCU + neon	4436 + 4494	9582/RG	9561/ES
20A intermediate switch	4535	9581/RG	9561/ES
20A DP switch + neon	4460 + 4494	9582/RG	9561/ES
20A DP key switch	4461	9581/RG	9561/ES
20A 2 gang 1 way switch – single module size	4450 x 2	9582/RG	9561/ES
See page 86 for full range of Rockergrid switches.			



9570/2

RCD mounting cradle shown in deep enclosure

RCD COVER MODULE

		PACK	QTY
9570/2	2 gang RCD cover with neon assembly		
	and RCD mounting cradle		2
Should be asser	mbled in deep enclosures.		

• Suitable for any 2 module RCD from the Lifestar range – see page 158.

BLANK COVER MODULES

		PACK QTY
9561/L	1 gang blank cover	8
9562/L	2 gang blank cover	4
9563/L	3 gang blank cover	3



ENCLOSURES

					PA	СК	QTY
9561/E	1 ga	ang					4
9561/ES	1 ga	ang shallow					8
9562/E	2 ga	ang					2
9562/ES	2 ga	ang shallow					4
9563/E	3 ga	ang					3
9564/E	4 ga	ang					1
9566/E	6 ga	ang					1
2 gang encl	osure ow enclosure osure	H W D 103 x 102 x 63 101 x 101 x 40 198 x 102 x 63 198 x 102 x 63 197 x 101 x 40	4 ga	ang enclosi ang enclosi ang enclosi	ure 199 x	199	x 63
SOCKET	REAR KNOCK-OUTS	SIDE CONDUIT ENTRIES	32/25 REDUCER	25/20 REDUCER	DIVIDER	BRI	DGE
9561/E	1x32/25	1x25, 1x32	1	1	-	-	
9561, 9565 9561/ES	1x25/20	2x25	-	1	-	-	
9562/E†	1x25, 1x32	1x25, 1x32	1	1	-	1	
9562, 9567 9562/ES	2x25/20	2x25	-	1	-	1	
9563/E*	2x25, 1x32	1x25, 1x32	1	1	-	2	
9564/E*	2x25 1x32, 1x40	2x25, 4x32	1	1	2	2	
9566/E*	2x25 2x32, 2x40	2x25, 4x32	1	1	4	3	

* Also supplied with 1 neutral & 1 earth connector. **†** Also supplied with 1 earth connector.

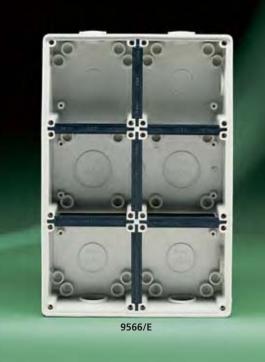
To maintain IP66 rating, cover all fixing screws with caps provided.

Seal bridge/divider slots with suitable silicon sealant.

Check all conduit entry points are tight before use.

Threaded conduit entries can be fitted to all popular metal and moulded metric conduit using a variety of proprietory adaptors (less locking ring), reducers, and adhesive where appropriate.





CAPITAL INTERIORS & PANEL MOUNTING

Interiors and panel mounting products, which complement the extensive Capital and Rockergrid ranges, are available to suit many applications.

The Capital range of Switched Sockets and Fused Control Units are available with metal capped rockers. Most Capital Products can also be supplied in black as standard – ideal for brassware manufacturers.



13A SWITCHED SOCKET OUTLETS

	PACK QTY	/
1 gang SP	10	4314/1
2 gang SP	5	4316/1
1 gang SP complete with neon and lens	10	4314/13
2 gang SP complete with neon and lens	5	4316/13

Black mouldings also available – Add suffix **BK** to List No.

Double pole switching also available to order – Add suffix **D** to List No. eg 4314/1 switched in Black = 4314/1 **DBK**

• Supplied Complete with two earth terminals



13A UNSWITCHED SOCKET OUTLETS

	PACK QT	Ý
1 gang unswitched	10	8255/1
2 gang unswitched	5	8257/1
1 gang round socket with side entry terminals and north/south fixings	10	7259*

The 7259 panel mounting socket is suitable for use in any panel or trunking material up to 2.5mm thickness and can be incorporated into a minimum overall internal depth of only 22.5mm. Black mouldings also available, Add Suffix **BK** to List No. eg 8255/1**BK**.

* Not available in Black.



FUSED CONNECTION UNITS

P		ſ
13A unswitched	10	4831/1
13A DP switched	10	4832/1
13A DP switched complete with neon and lens	10	4832/13
13A unswitched with cord outlet	10	4836/1
13A DP switched with cord outlet	10	4837/1
13A DP switched with cord outlet complete with neon and lens	10	4837/13
Black interiors also available – Add suffix BK to List No. eg	4832/1 swi	itched in Black

Black interiors also available – Add suffix **BK** to List No. eg 4832/1 switched in Black = 4832/1**BK**

4416/A103

13A SAFETYSOCKET WITH I	RCD PROTEC	TION
BS 7288	PACK QTY	
2 gang switched with neon indicator 30mA tripping current	1	4416/A103
See page 159 for further information. • Supplied Complete with two earth terminals		

For panel cut-out details see pages 188, 189 & 190.



4314/16/SC

4316/16BK/PB

METAL CAPPED ROCKERS 13A SWITCHED SOCKET OUTLETS

PACK OTY

	I ACK QII	
1 gang SP	10	4314/16/
2 gang SP	5	4316/16/
1 gang SP complete with neon and lens	10	4314/136/
2 gang SP complete with neon and lens	5	4316/136/

Black mouldings also available – Add suffix BK to List No.

Double pole switching also available to order – Add suffix **D** to List No.

eg 4314/1 switched = 4314/16**DBK/SC**

Finishes available are: Satin Chrome (SC), Bronze (BZ), Polished Brass (PB), Highly Polished Chrome (HPC) & Stainless Steel (SS).

• Supplied Complete with two earth terminals

METAL CAPPED ROCKERS FUSED CONNECTION UNITS

PA	CK QTY	/
13A DP switched	10	4832/16/
13A DP switched complete with neon and lens	10	4832/136/
13A DP switched with cord outlet	10	4837/16/
13A DP switched with cord outlet complete with neon and lens	10	4837/136/

Black interiors also available – Add suffix **BK** to List No.

Finishes available are: Satin Chrome (SC), Bronze (BZ), Polished Brass (PB), Highly Polished Chrome (HPC) & Stainless Steel (SS).



4831/13

4832/16BK/PB



2A, 5A ROUND PIN SOCKET OUTLETS

	PACK QT	Ϋ́
5A shuttered SP	10	2240/1*
2A 3 pin unswitched shuttered	10	8075/1*

* Black mouldings also available – Add suffix BK to List No.

-	-				
			8		
		-	-		

45A DP 'SLIMLINE' COOKER CONTROL UNITS

	PACK QTY	
45A DP main switch and 13A switch socket outlet	5	4522/1
45A DP main switch and 13A switch socket outlet with neon indicators	5	4522/13

Black interiors also available – Add suffix **BK** to List No.

PANEL MOUNTING



10AX SWITCHES

	PACK QTY	
1 gang retractive marked 'press'	10	6096/1
1 gang 2 way	10	6170/1
2 gang 2 way	10	6172/1
3 gang 2 way	10	6173/1
4 gang 2 way	10	6174/1
1 gang intermediate	10	6175/1

Interiors with Black rockers available – Add suffix BK to List No.

20A/32A DP SWITCHES

	PACK QTY	
20A DP	10	4011/1
20A DP complete with neon and lens	10	4011/13
32A DP	10	4012/1
32A DP complete with neon and lens	10	4012/13
Interiors with Plack reckers available Add suffix	K to List No	

Interiors with Black rockers available – Add suffix BK to List No.

50A DP SWITCHES

	PACK QTY	
50A DP	10	4512/1
50A DP with neon indicator	10	4512/13

Black interiors also available – Add suffix **BK** to List No.



4011/1BK

4011/1

	PACK QTY	
1 way direct connection	1	8265/1
2 way direct connection	1	8266/1
1 way isolated VHF, UHF	1	8267/1
2 way isolated VHF, UHF	1	8268/1
Isolated units only suitable on installations with earth	bond.	



826

8265/1

TELEPHONE OUTLETS

	PACK QTY	
Master	10	8283/1
Secondary	10	8284/1
Black interiors also available – Add suffix BK to List No Supplied with loose earth terminal.		

For panel cut-out details see pages 188, 189 & 190.



AVIAL COCKET OUTLETS **C**O

	CO-AXIAL SOCKET OUTLETS	
		PAC
	1 way direct connection	
5	2 way direct connection	
0 0	1 way isolated VHF, UHF	
	2 way isolated VHF, UHF	
	Isolated units only suitable on installations with earth bo	ond.
66/1		

INSTALLATION BOXES & SERVICE ITEMS

-

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10

The comprehensive range of white moulded patresses offers a facility to surface mount Capital wiring accessories





SURFACE MOULDED BOXES FOR CAPITAL WIRING ACCESSORIES

TOR CALIFICE WIRING ACCESSO		
BS 5733 P	ACK QTY	
20mm deep For Capital single gang moulded architrave switches Will accept 16mm x 16mm mini-trunk	10 ing	4005
Dimensions 33mm x 87mm x 20mm		
For Capital double gang moulded architrave switches Will accept 16mm x 16mm mini-trunk	10 ing	4006
Dimensions 33mm x 147mm x 20mm		
34mm deep For 50A Capital switches and Rockergrid 3 and 4 gang moulded assemblies Fitted with cable clamp	5	9040*
Dimensions 87mm x 147mm x 34mm		
44mm deep For 15A socket outlets, 32A DP switches and Rockergrid 1 and 2 gang moulded assemblies	10	9041
Dimensions 87mm x 87mm x 44mm		
20mm deep With earth terminal For 10AX Capital moulded and metalplate,	10	9043
Dimensions 87mm x 87mm x 20mm		
29mm deep Dual box for two single gang size accessories Fixed dividing barrier with knockouts	5	9044*
Dimensions 174mm x 87mm x 29mm		
For single gang size moulded accessories	10	9047
Dimensions 87mm x 87mm x 29mm		
For double gang size moulded accessories	5	9048*
Dimensions 147mm x 87mm x 29mm		
With earth terminal For Capital 4 to 6 gang switches	5	9048/1*
Dimensions 147mm x 87mm x 29mm		
32mm deep Skirting Backbox Multipurpose box for single gang size accessorio	es 5	9049*
Dimensions 88mm x 165mm x 32mm		
Multipurpose box for double gang size accessor	ries 2	9050*
Dimensions 148mm x 165mm x 32mm		
45mm deep For 45A cooker control units Fitted with cable clamp	1	9052*
Dimensions 169mm x 115mm x 45mm		
49mm deep For shaver supply unit Will accept 25mm x 16mm mini-trunking	5	9053*
Dimensions 87mm x 147mm x 49mm		
45mm deep For slimline cooker control units Will accept 25mm x 16mm mini-trunking Fitted with cable clamp	5	9054*
Dimensions 89mm x 147mm x 45mm		
20mm deep 2 gang Surface conversion patresses Converts 1 gang Flush box to 2 gang Surface	5	9406
Dimensions 147mm x 87mm x 20mm		
Can be secured to flush mounting steel boxes having 60.	3mm accesso	ory fitting centre

Crabtree



9211/BG

9214/BG



9228/BG



9221/PBG

9223/BG

REPLACEMENT STEEL BOXES FOR CAPITAL SURFACE WIRING ACCESSORIES

BS 5733	PACK QTY	
43mm deep 20mm knockouts Replacement box for 5, 13 and 15A single ga surface accessories	10 ang size	9211/BG
As above less knockouts	10	9211/PBG
Dimensions 82.3mm x 82.3mm x 41.6mm		
43mm deep 20mm knockouts Replacement box for 13A gang size surface accessories	5	9214/BG
As above less knockouts	5	9214/PBG
Dimensions 139.5mm x 82.6mm x 41.5mm		

MULTI MEDIA PLATE BACK BOX

56mm deep 20/25mm knockouts Multi media plate back box	1	9226/BG
Dimensions 254mm x 194mm x 56mm		
35mm deep 20mm knockouts Multi media plate back box	1	9228/BG
Dimensions 253mm x 193mm x 35mm		

COOKER CONTROL UNIT BACK BOX

Use with 4520/1 or 4520/31	1	9338/GV
Dimensions 155mm x 101mm x 42mm		

SURFACE STEEL BOXES FOR CAPITAL FLUSH WIRING ACCESSORIES

TOR CATTIAL LEOST WIRING	ACCESSOR	
BS EN 60669-1	PACK QTY	
36mm deep With 20mm knockouts For surface mounting single gang size flush accessories	10	9221/BG
As above less knockouts	10	9221/PBG
Dimensions 86mm x 86mm x 36mm		
36mm deep With 20mm knockouts For surface mounting double gang size flush accessories	5	9223/BG
As above less knockouts	5	9223/PBG
Dimensions 146mm x 86mm x 36mm		



SPARE EARTH TERMINALS		
Brass (for use with 4 lug metal box)	100	6988
Brass	100	6989









7410/RD



ACCESSORY FIXING SCREWS M3.5mm

			PACK QT	Y
Platinum long fixing screw 50mm			100	735050
20mm long (vandal resistant)		100	735009/*/VR	
25mm long (vandal resistant)		100	735010/*/VR	
30mm long (vandal resistant)		100	735011/*/VR	
25mm long	735010*	20mm long	100	735032
30mm long	735011*	23mm long	100	735038
50mm long	735012*	25mm long	100	735033
40mm long	735013*	30mm long	100	735023
* Add finish re	equired i.e.73501	IOSC.		

SUNDRY SCREWS & SPACERS

4.0.0	
100	706124
100	735006/ZP
100	735007
100	735008/*
100	705094/*
100	705094/*/VR
1	6913
	100 100 100

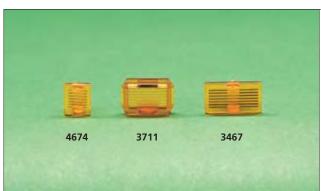
*All screws are available to match the appropriate Capital Metal Plate and Rockergrid finishes.

CAPITAL CEILING SWITCH ACCESSORY ITEMS

1.5m long white pull cord and acorn	6900
2m long red pull cord and acorn	6900/1RD
2m long white pull cord with red acorn	6900/1WH
100m ball of white pull cord	6900/2
100m ball of red pull cord	6900/2RD
Ceiling switch acorn red	7410/RD
Ceiling switch acorn white	7410/WH

CAPITAL NEON INDICATORS

For 13A moulded & metal plate sockets, 13A fuse connection 20A, 32A, 45A capital switches	on units, 3713
For 13A safetysockets & slimline cooker control units	100215



CAPITAL NEON LENSES	
For all 50A DP switches & large plate cooker control unit (larger lens) & 32A TP & N switches	3467
For 13A moulded & metal plate sockets, fuse connection units, 20A capital switches & slimline cooker control unit (smaller lens)	3711
For slimline cooker control unit (large lens) & capital 45A switches	3767
For 50A ceiling switch & large plate cooker control unit (smaller lens)	4674

LUMINAIRE SUPPORT COUPLERS

Crabtree luminaire support couplers, LSCs, provide flexibility and versatility to meet the demands of many domestic, commercial and industrial lighting applications.

The range conforms to BS 7001 and BS 5733 and provides an effective plug-in connection with arrangements including 3 and 4 pin versions.



Ceiling assembly cover secures to outlet with assembly offering either standard or safety lampholder options



Ceiling outlet can be easily assembled to pattress and plug provides a simple plug in connection



CEILING ASSEMBLIES 3 PIN

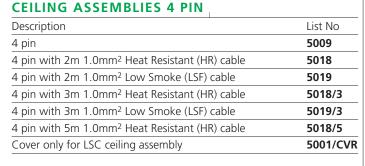
Description	List No
3 pin	5001
3 pin with 2m 1.0mm ² Heat Resistant (HR) cable	5002
3 pin with 2m 1.0mm ² Low Smoke (LSF) cable	5017
3 pin with 3m 1.0mm ² Heat Resistant (HR) cable	5002/3
3 pin with 3m 1.0mm ² Low Smoke (LSF) cable	5017/3
3 pin with 5m 1.0mm ² Heat Resistant (HR) cable	5002/5
3 pin with 5m 1.0mm ² Low Smoke (LSF) cable	5017/5

• Ceiling assemblies supplied as outlet, LSC plug and cover.

• Other lengths and cable options available upon request.



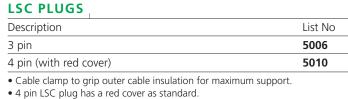




PENDANT SETS

Description	List No
Surface mounting pattress	5005





• Prewired versions are available, please contact Technical Services.



CEILING OUTLETS & INTERIORS

Description List No	
3 pin ceiling outlet	5003
4 pin ceiling outlet	5011

For further details of pattress see Technical page 172.

LUMINAIRE DISTRIBUTION BOXES

1

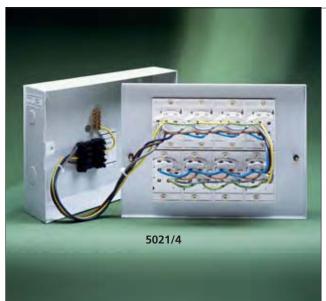
67

The LSC Interiors are mounted in a combination of 6, 8 and 10 outlet configurations contained within a steel fabricated enclosure to provide a Luminaire Distribution Box, LDB.

- Internal connections are made to a terminal block for ease of wiring
- Sufficient side and rear knockouts allow entries for cable or conduit

8

• Raised mounting feet allow for installation on uneven surfaces



-		-	
	-		
1		hit	



4 PIN LUMINAIRE DISTRIBUTION BOXES Description List No 5020/4 4 pin 6 way 5021/4 4 pin 8 way 5022/4 4 pin 10 way

LSC PLUGS	
Description	List No
3 pin	5006
3 pin C/W 2m HR cable	5006/2
3 pin C/W 3m HR cable	5006/3
3 pin C/W 4m HR cable	5006/4
4 pin (with red cover)	5010
4 pin C/W 2m HR cable	5010/2
4 pin C/W 3m HR cable	5010/3
4 pin C/W 4m HR cable	5010/4
• Cable clamp to grip outer cable insulation for maximum support.	

• 4 pin LSC plug has a red cover as standard.

3 pin LSC plugs can be installed into all LSC interiors. Different lengths & types of cable are available please contact Technical Services.

For Dimensions see page 191.



WARWICK

PVC modular trunking range which can be mounted at either Dado or Skirting level, available in 2 different sizes (50mm x 170mm) or (50mm x 212mm).

QUICK GUIDE TO FIVE PVC PROFILES

	WARWICK 1 Ref No	WARWICK 2 Ref No	WARWICK 3 Ref No	WARWICK 4 Ref No	WARWICK 5 Ref No
Trunking Pack	BCL1	BCL2	BCL3	BCL4	BCL5
Internal Bend	BCL1/IB	BCL2/IB	BCL3/IB	BCL4/IB	BCL5/IB
External Bend	BCL1/EB	BCL2/EB	BCL3/EB	BCL4/EB	BCL5/EB
Flat Angle 90° (Downward)	BCL1/FAD	BCL2/FAD	BCL3/FAD	BCL4/FAD	BCL5/FAD
Flat Angle 90° (Upward)	-	BCL2/FAU	-	BCL4/FAU	BCL5/FAU
Flat Tee (Downward)	BCL1/FTD	BCL2/FTD	BCL3/FTD	BCL4/FTD	BCL5/FTD
Flat Tee (Upward)	_	BCL2/FTU	-	BCL4/FTU	BCL5/FTU
Stop End - Left	BCL1/SEL	BCL2/SEL	BCL3/SEL	BCL4/SEL	BCL5/SEL
Stop End - Right	_	BCL2/SER	_	BCL4/SER	BCL5/SER
Coupler Pack	BCL1/CP	BCL2/CP	BCL3/CP	BCL4/CP	BCL5/CP
Standard Cable Retainer	BCL/SCR	BCL/SCR	BCL/SCR	BCL/SCR	BCL/SCR
Square Cable Retainer	_	BCL/SQCR	BCL/SQCR	BCL/SQCR	BCL/SQCR
Single Gang Accessory Box - 30mm deep	BCL/SGB	BCL/SGB	BCL/SGB	BCL/SGB	BCL/SGB
Twin Gang Accessory Box - 30mm deep	BCL/TGB	BCL/TGB	BCL/TGB	BCL/TGB	BCL/TGB



Pack Quantity 5 x 3m BCL/BE Pack Quantity 1 BCL/ADPL Pack Quantity 1 (RCD not Included)

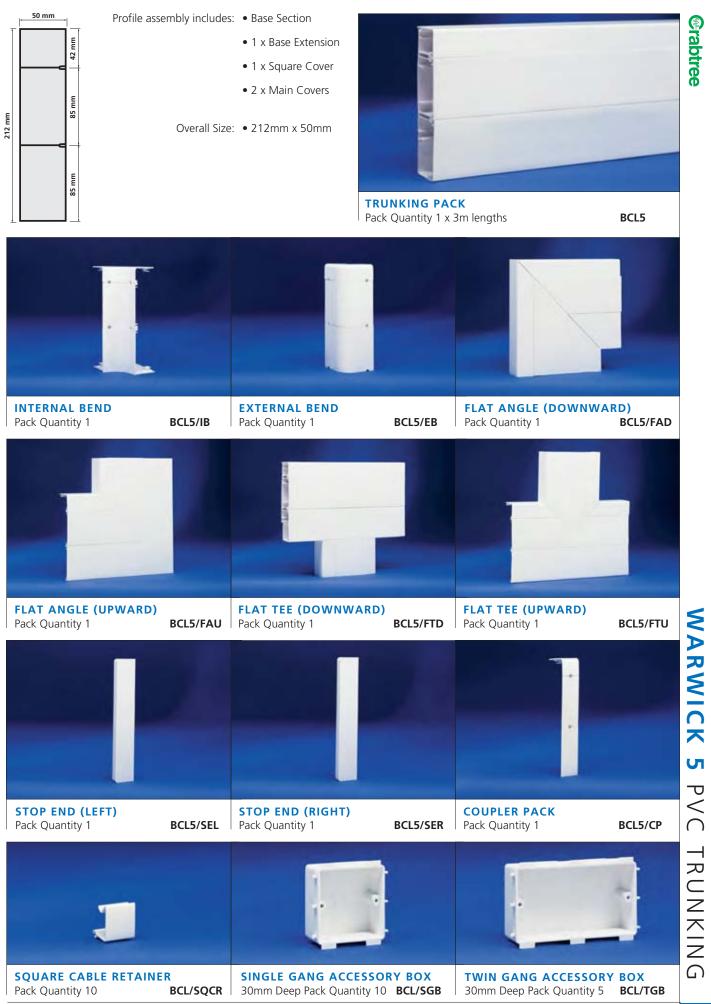
BCL/RCD













Britmac

POWERTRACK UNDERFLOOR SYSTEM AND FLOORBOXES

Britmac

POWER TRACK UNDERFLOOR SYSTEM

The Britmac underfloor power track system has undergone some radical changes to meet the ever increasing power requirements of the workplace. The system consists of a series of fully enclosed single phase busbar module units and is designed to be assembled directly onto the floor slab of a cavity floor installation using the integral floor fixing brackets. The track modules have a simple and quick push fit connection allowing for rapid on site assembly. The modules are available as standard 2P+E, Clean Earth 2P+E+CE and dual system 4P+E+CE. The system has been designed with minimal parts to assist the contractor fitting out on site.

- Direct to floor assembly
- Universal cable feeder unit
- Standard Earth 2P+E Blue
- Clean Earth 2P+E+CE Yellow
- Dual system 4P+E+CE Brown





The Power track module is a 63A single phase busbar unit with the facility to accept a tap-off unit every 300mm, this allows the removal or addition of tap off units without the need to isolate the complete system. The system has been designed with the electrical contractor in mind, where speed and ease of installation are paramount, with push fit connectors on both the track connections and feed units. There is a keying system on the track end which operates the shutter mechanism and allows correct location.



The modules come in standard lengths, all compatible with standard floor modules and cavity floor trunking sizes. Each length comes complete with an innovative method of track fixing. The fixing bracket simply swivels out to enable solid fixing to the floor screed.



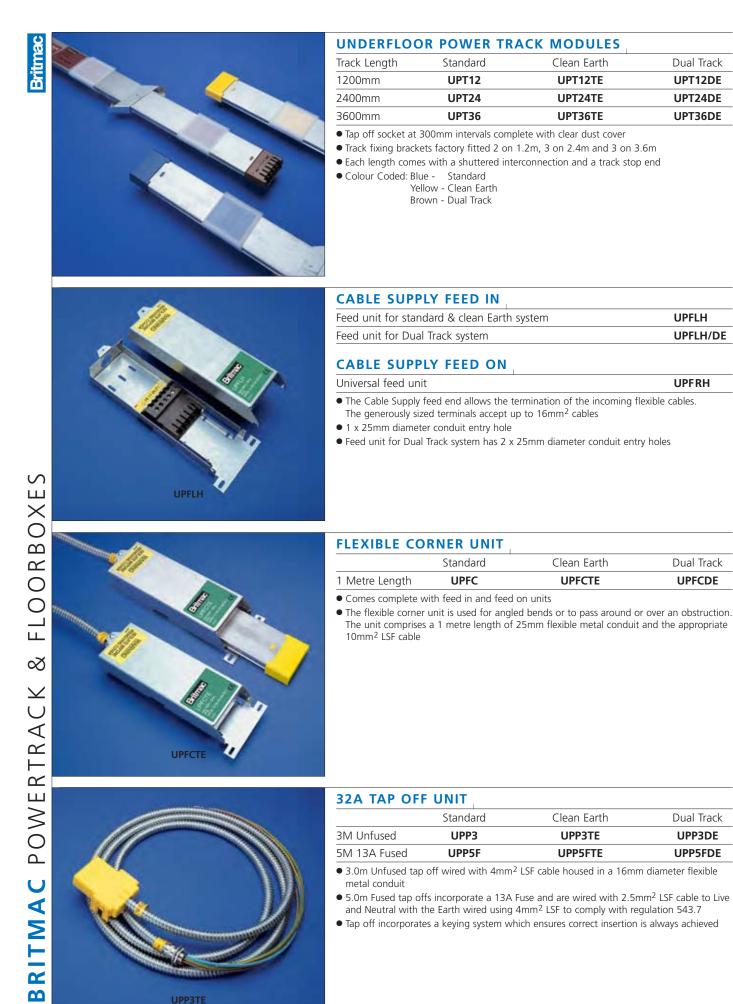
The standard tap off units comprises a 32A unfused plug fitted with flexible metal conduit. Where lengths longer than 3m are required, a fused tap off unit is fitted and wired with the appropriate length of cable. All tap offs have a keying system which ensures that the correct tap off is fitted



Transparent dust covers are provided to enable easy recognition of the system installed. The dust cover slides along the track length to enable tap off plug insertion.



- Push fit
- Colour coded
- 50mm minimum clearance height
- Non interchangeable pin configuration
- Pre-wired tap off unit
- Complies with BS 7671: 2008 regulation 543.7



UPP3TE

TECHNICAL DATA UNDERFLOOR POWER TRACK MODULES

Conditional Short Circuit Rating

TRACK

Short circuit protection provided by fuselinks $\mathsf{BS}\text{-}88$ and $\mathsf{BS}\ 1361\ 100$ amp maximum.

Prospective current 16.5kA Mechanical withstand 10kA peak Thermal withstand 1200A for 0.1 seconds

TAP-OFF UNITS

Mechanical withstand 10kA peak Thermal withstand 1200A for 0.1 seconds

Earth Fault Loop Impedance (measured at 1.0A)

The IEE Wiring Regulations require accurate determination of the total earth loop impedance, which must be low enough to ensure that the protective device will operate within the specified time, which for circuits incorporating socket outlets is 0.4 seconds. The values for the Britmac System for calculating the earth fault loop impedance are as follows:

Phase busbar	1.97mV/m
Earth busbar to housing	1.38mV/m
Earth busbar (Clean Earth)	1.97mV/m
Track connector	0.37mV
Supply connector	0.24mV
32A tap-off (4mm ² x 3m), line	9.92mV

Volt Drop, Combined Phase & Neutral (measured at 1.0A)

Busbar (line & neutral)	3.94mV/A/m
Track connector	0.74mV/A
Supply connector	0.48mV/A
32A tap-off (4mm ² x 3m), line & earth	19.84mV/A/m

Cable Capacity of Terminals

Supply connector 16mm² csa stranded conductor

Construction

TRACK

 Body extrusion
 Galvanised Steel

 Track base
 Galvanised steel

 Busbar
 High conductivity copper

 Degree of protection Track IP4X; In-feed housing IP3X C

TAP-OFF UNITS

Standard, Clean Earth and Dual Track tap-offs are non-interchangeable. All types available in fused and unfused versions.

32A tap-off unit

The 32A tap-off is unfused with 3 metres of 16mm diameter flexible conduit and 4mm² cables to BS 6004:2000 which are terminated in the tap-off via welded connections.

Fused tap-off unit

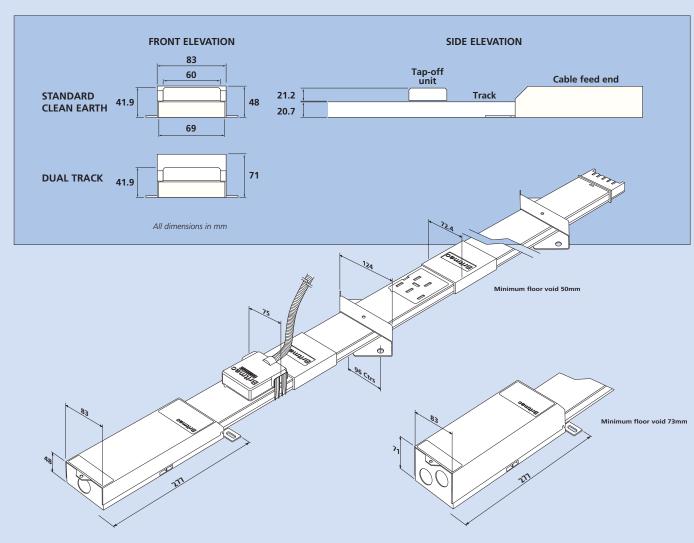
Required where conduit lengths greater than 3 metres are used. The tap-off unit is used as standard at 13 amps and is fitted to the specified length of 16mm diameter conduit and 2.5mm² cables to BS 6004:1995 which are terminated in the tap-off via welded connections. The flexible conduit is manufactured to BSEN 50086-1

STANDARDS

BSEN 60439: Part 1 & Part 2. The track system enables compliance with the latest IEE Wiring Regulations, BS 7671:2008.

TRACK CURRENT RATING

63 amps, 240V ac; 50Hz single phase ambient temperature 25C.





FLOOR BOX DISTRIBUTION

The Britmac range of cable management products have been utilised in the design and installation of electrical systems in commercial and industrial projects for many years. The comprehensive fast-fit floor box provides a wide choice from which to select the most appropriate for a specific application. Units can be supplied fitted with accessories pre-wired to customers' requirements and fully factory tested in the UK prior to delivery. The products are supported by a nationwide team of Sales Engineers and Stockists.



- Large capacity cable routing guides ensure cables exit the box safely and neatly
- Lid hinge design ensures that lid will always self-close
- Snap-out facility enables the lid to be removed for access to accessory plates
 - Pre-wired saving time during site installation









3 COMPARTMENT FLOOR BOX & ACCESSORIES

TRIM (COLOU	JR						I	LIST No
Grey								(GR03G
			~		,		~		

 The most popular size of raised access floor box for use in commercial office applications where power, voice and data services are required.

• Utilises 87mm wide accessory plates.

For Floor Box Dimensions See page 129.

SWITCHED 13A SOCKETS

	LIST No
13A 2 Gang switched socket TWIN EARTH	GB3SS2/BG
13A 2 Gang switched socket CLEAN EARTH	GB3SS2CE/BG
13A 2 Gang switched socket NON-STD TWIN EARTH	GB3SSN2/BG
13A 2 Gang switched socket NON-STD CLEAN EARTH	GB3SSN2CE/BG
13A 2 Gang switched safety socket 30mA	GB3SRCD30/BG
 Closp Earth has a normal and an isolated earth 	

Clean Earth has a normal and an isolated earth.

UNSWITCHED 13A SOCKETS

	LIST No
13A 2 Gang unswitched socket TWIN EARTH	GB3S2/BG
13A 2 Gang unswitched socket CLEAN EARTH	GB3S2CE/BG
13A 2 Gang unswitched socket NON-STD	GB3SN2/BG

• Clean Earth has a normal and an isolated earth.

DATA AND COMMUNICATIONS

	LIST No
Accessory plate 4 knockout LJU6C/RJ45	GB3J6C/BG
Accessory plate to accept 6x LJU6C/RJ45	GB3J6C/6BG
Accessory plate to accept 2x 1G standard accessory	GB3J3/BG
Accessory plate to accept 2G standard accessory	GB32G/BG
Blank plate	GB3BP/BG
Accessory plate to accept 4x Alpha	GB3ALPHA/BG
Accessory plate to accept 2x Euro module (Will accept 4x Crabtree communication modules 25mm x 50mm).	GB3EURO/BG

• All plates 87mm x 173mm.

• All accessory plates are supplied with fixing screws.



GB3J6C/6BG



GB32G/BG GB3J3/BG





LIST No







GBEURO/BG GBALPHA/BG

4 COMPARTMENT FLOOR BOX & ACCESORIES

TRIM COLOUR

Grey

• Compact 4 compartment unit - utilises 66mm wide accessories.

• 4 compartment units can provide an attractive and economical solution for applications, where power, voice and data systems are to be accessed, particularly where both clean and utility power outlets are required or where more than one type of data system is required.

For Floor Box Dimensions See pages 128 & 129.

SWITCHED 13A SOCKETS

	LIST No
13A 2 Gang switched socket TWIN EARTH	GBSS2/BG
13A 2 Gang switched socket CLEAN EARTH	GBSS2CE/BG
13A 2 Gang switched socket NON-STD TWIN EARTH	GBSSN2/BG
13A 2 Gang switched socket NON-STD CLEAN EARTH	GBSSN2CE/BG
Power sockets supplied with rear entry terminals as standard	

• Clean earth have a normal and an isolated earth.

• Only two 13A 2 gang Sockets can be fitted per Floor Box, in centre compartment only.

DATA AND COMMUNICATIONS

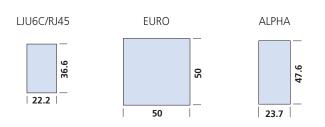
	LIST No
Plate to accept 4 LJU6C voice or 4 RJ45 data outlets	GBJ6C/BG
Blank plate for on-site piercing	GBBP/BG
Plate to accept 4x Alpha	GBALPHA/BG
Plate to accept 2x Euro modules (Will accept 4x Crabtree communication modules 25mm x 50mm).	GBEURO/BG

• All plates 66mm x 173mm.

• All accessory plates are supplied with fixing screws.

13A accessory plates are supplied with the appropriate interior fitted.

KNOCKOUT DIMENSIONS



BRITMAC POWERTRACK & FLOORBOXES



98351-1/H/1

	NG
Lid assembly, Grey	200013GY
GROSVENOR SPARES	
Trim piece (plain), Grey	98950-1/A/2
Trim piece (bandle) Cray Complete	98347-1/A/
Trim piece (handle), Grey - Complete	98347-1/A/2
Cable flap, Grey	98351-1/H/ ⁻
Cable retainer, Black	98496-2/E/1



98496-2/E/1

FLOOR GROMMET

In the modern office environment where flexibility is vital, the BRITACCESS floor grommet can accommodate most requirements for accessing cables on flexible conduits up to cable managed desks etc.

If the requirement is for a basic access point the top element will satisfy that need. To allow a desk module to pass through from a floor void whether it be a 3 core flexible cable or a flexible conduit, the BRITACCESS grommet is suitable for the job.

FLOOR ACCESS GROMMET

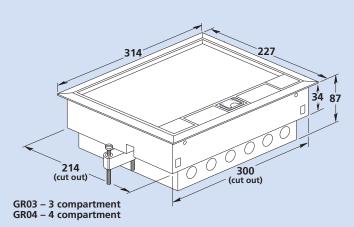
Top Grommet Only	BAG150
Floor Grommet c/w Switched 1G Socket & Back box	BAGSS







GROSVENOR 'FAST FIT' RAISED ACCESS FLOOR BOXES



BRITMAC FLOOR DISTRIBUTION SYSTEMS

Materials

All systems are constructed from high quality materials and are designed to meet relevant British and International Standards including the installation requirements of the IEE Wiring Regulations.

Raised Access Floors

Throughout this catalogue the term Raised Access Floor has been used to describe any modular flooring system which is supported on adjustable pedestals providing a service void. Other names frequently used are Cavity Floor, False Floor, Platform Floor, Access Floor, Computer Floor, etc.

GROSVENOR RAISED ACCESS FLOOR BOXES

Floorboxes

The Grosvenor floorbox has been designed to withstand working loads of the PSA MOB PF2 PS/SPU specification for raised floors.

The floorboxes listed within this catalogue are capable of accepting a very wide range of accessories fitted in any compartment. However, certain combinations do impose restrictions on positioning, due to the clashes of connectors, plug tops or the cables themselves.

Accessories

All accessory plates are supplied complete with the appropriate thread cutting screws. Each fixing hole in the unit frames is unthreaded and deep plunged for ease of location of fixing.

The minimum plug clearance between accessory plate and underside of floor is 34mm.

POWER (13A)

Twin Earth sockets. Non-standard sockets. Clean Earth sockets.

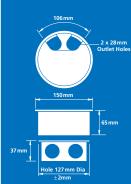
TELEPHONE

Components for most British Telecom, Mercury and other national and international systems.

DATA

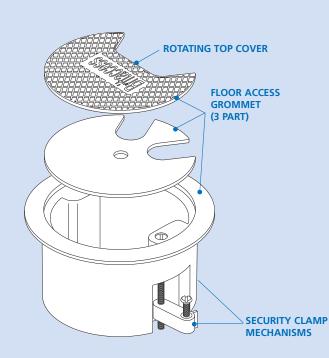
A wide range of components to suit virtually all systems in current use. These include IBM, Wang, Phillips, ICL and many others.

All dimensions in mm Tolerance on cut-out dimensions is ±1mm



SPECIFICATION Top Element (Grommet Only)

Dimensions:	
O/A Diameter	150mm
Internal Diameter	120mm
Depth	65mm
Material:	High Impact AB
Colour:	RAL 7016



<u>St, RBREAKER</u>

ASSEMBLED INSULATED & METALCLAD CONSUMER UNITS

Many configurations including Main Switch, Split-Load, High Integrity and Dual RCCB combined with the New range of Starbreaker MCBs and RCBOs provide installers with an option for all their domestic circuit protection requirements. Meets the requirements of BSEN 60439-3.





MAIN SWITCH INSULATED UNITS

	Total MCB/		
MS Rating	RCBO Ways	Main Switch	LIST No
40A	2	2	402/2B*
63A	2	2	402/26B*
100A	4	4	404/2B
100A	7	7	407/2B
100A	10	10	410/2B
100A	13	13	413/2B
100A	18	18	418/2B

RCBOs are not recommended for use within 402 units.



SPLIT LOAD) INSULATED L	JNITS 100A SW	ITCH 63A	30mA RCCB
MS Rating	Total Ways	Main Switch	RCCB	LIST No
100A	4	2	2	404/2263B
100A	7	2	5	407/2263B
100A	7	3	4	407/2363B
100A	7	4	3	407/2463B
100A	7	5	2	407/2563B
100A	10	3	7	410/2363B
100A	10	4	6	410/2463B
100A	10	5	5	410/2563B
100A	10	6	4	410/2663B
100A	10	7	3	410/2763B
100A	15	5	10	415/2563B
100A	15	6	9	415/2663B
100A	15	7	8	415/2763B
100A	15	8	7	415/2863B
100A	15	9	6	415/2963B
100A	15	10	5	415/2163B
Both MCBs and	RCBOs may be includ	led for final circuit po	sitions that a	re not protected by

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

SPLIT LOAD INSULATED UNITS 100A SWITCH 80A 30mA RCCB

MS Rating	Total Ways	Main Switch	RCCB	LIST No
100A	7	2	5	407/2283B
100A	7	3	4	407/2383B
100A	7	4	3	407/2483B
100A	7	5	2	407/2583B
100A	10	3	7	410/2383B
100A	10	4	6	410/2483B
100A	10	5	5	410/2583B
100A	10	6	4	410/2683B
100A	10	7	3	410/2783B
100A	12	6	6	412/2683B*
100A	15	5	10	415/2583B
100A	15	6	9	415/2683B
100A	15	7	8	415/2783B
100A	15	8	7	415/2883B
100A	15	9	6	415/2983B
100A	15	10	5	415/2183B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs. * Available only as a complete assembly.

SPLIT LOAD INSULATED UNIT 100A TIME DELAY RCCB & 63A 30mA RCCB

Incoming RCCB Rating	Total MCB Ways	RCCB 1 (100mA TD)	RCCB 2 (30mA)	LIST No	
100A 100mA TD	10	5	5	410/3563TDB	

SPLIT LOAD INSULATED UNITS 100A TIME DELAY RCCB & 80A 30mA RCCB

Incoming RCCB Rating	Total MCB Ways	RCCB 1 (100mA TD)	RCCB 2 (30mA)	LIST No
100A 100mA TD	10	5	5	410/3583TDB
100A 100mA TD	15	8	7	415/3883TDB

For components selection & dimensions see Starbreaker Components page 140.













HIGH INTEGRITY DUAL RCD INSULATED UNITS

			RCCB 1	RCCB 2	
MS Rating	Total Ways	Main Switch	63A 30mA	63A 30mA	LIST No
100A	8	2	3	3	408/226363B
100A	13	2	6	5	413/226665B
100A	13	2	7	4	413/226764B
100A	13	2	8	3	413/226863B
100A	13	3	5	5	413/236565B
100A	13	3	6	4	413/236664B
100A	13	3	7	3	413/236763B
100A	13	4	5	4	413/246564B
100A	13	4	6	3	413/246663B
100A	13	5	4	4	413/256464B
100A	13	5	5	3	413/256563B
100A	13	6	4	3	413/266463B
Both MCBs and RCBOs may be included for final circuit positions that are not protected by					

Born MCBs and RCBUS may be included for final circuit positions that are not protected i resident RCCBs. RCCB rating variations are available upon request.

			RCCB 1	RCCB 2		
MS Rating	Total Ways	Main Switch	80A 30mA	80A 30mA	LIST No	
100A	9	1	4	4	409/218484B*	
100A	9	2	4	3	409/228483B*	
Both MCBs and RCBOs may be included for final circuit positions that are not protected by						

resident RCCBs.
* Available only as a complete assembly.

DUAL RCD SPLIT LOAD INSULATED UNITS

					-
	Total MCB		RCCB 1	RCCB 2	
MS Rating	Ways	Main Switch	63A 30mA	63A 30mA	LIST No
100A	13	0	7	6	413/2637636B
100A	13	0	8	5	413/2638635B
100A	13	0	9	4	413/2639634B

MS Rating	Total MCB Ways	Main Switch	RCCB 1 80A 30mA	RCCB 2 63A 30mA	LIST No
100A	8	0	4	4	408/2834634B
100A	13	0	7	6	413/2837636B
100A	13	0	8	5	413/2838635B
100A	13	0	9	4	413/2839634B

ASSEMBLED SPINE BACKPLATES

MS Rating	Total MCB/ RCBO Ways	Main Switch	LIST No
100A	13	13	H913/2WB
100A	18	18	H918/2WB



MS Rating	Total Ways	Main Switch	RCCB	LIST No	
100A	10	4	6	H910/2463WB	
100A	10	5	5	H910/2563WB	
100A	10	6	4	H910/2663WB	
Both MCBs and RCBOs may be included for final circuit positions that are not protected by					

resident RCCBs.

SPLIT LOAD 100A SWITCH 80A 30mA RCCB

MS Rating	Total Ways	Main Switch	RCCB	LIST No
100A	10	4	6	H910/2483WB
100A	10	5	5	H910/2583WB

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

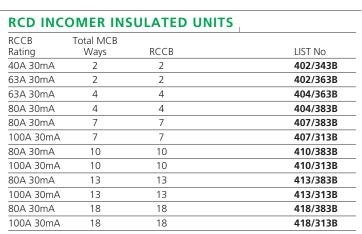
Starbreaker spine backplates (H) accept both MCBs and single module RCBOs.

DUAL RCD SPLIT LOAD

100A	8	0	4		908/2834634WB
MS Rating	Total Ways	Main Switch	RCCB 1 80A 30mA	RCCB 2 63A 30mA	LIST No

For components selection & dimensions see Starbreaker Components page 140.







RCCB	Total MCB				
Rating	Ways	RCCB	MCB1(B)	MCB2(B)	LIST No
40A 30mA	2	2	6A	32A	402/343GU
63A 30mA	2	2	6A	32A	402/363GU
63A 30mA	2	2	50A	-	402/363SU



DUAL TARIFF INSULATED UNITS

Total MCB/ RCBO Ways	Main Switch 100A Tariff 1	Main Switch 100A Tariff 2	LIST No
5	3	2	405/232B
8	3	5	408/232B
8	4	4	408/242B
8	5	3	408/252B
8	6	2	408/262B
11	4	7	411/242B
11	5	6	411/252B
11	6	5	411/262B
11	7	4	411/272B
11	8	3	411/282B
16	6	10	416/262B
16	7	9	416/272B
16	8	8	416/282B
16	9	7	416/292B
16	10	6	416/212B
16	11	5	416/2112B



MULTI TARIFF INSULATED UNITS					
	Main Switch 100A Tariff 1				
9	4	1	4		

RCBO Wavs		100A Tariff 2		LIST No
ICDO Ways	TOUA TAITIT T	TOUA TAITIT Z	TOUA TAILIT J	LIST NO
9	4	1	4	409/242124B
14	8	1	5	414/282125B
14	7	1	6	414/272126B

SPLIT LOAD DUAL TARIFF UNITS

MS Rating	Total Maria	Main Curitala		Main Switch	
	TOLAT VVAYS	Main Switch	63A 30MA	100A Tariff 2	LIST INO
100A	8	2	3	3	408/22623B
100A	13	5	2	6	413/25626B
100A	13	3	6	4	413/23624B
Dath MCDa as		an impluded for	Cincle Lainer vite and	aitiana that are	mat mystastad by

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

MS Rating	Total MCB/ RCBO Ways	Main Switch		Main Switch 100A Tariff 2	LIST No
100A	13	3	6	4	413/23824B
Both MCBs ar	nd RCBOs may b	e included for a	final circuit po	sitions that are	not protected by

resident RCCBs. For components selection & dimensions see **Starbreaker** Components page 140.

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RCBOs Type B and Type C



DESCRIPTION	RATING	MODULES	LIST No
Main switch disconnector	40A DP	2	40/MI2
Main switch disconnector	63A DP	2	63/MI2
Main switch disconnector	100A DP	2	100/MI2
Main switch disconnector	100A SP	1	100/SP1
Main switch disconnector c/w tap off terminal	100A DP	2	100/2MT
Direct connection unit	100A DP	2	100/DC2
Direct connection unit	100A SP	1	100/DC1
• IEC 60947-3	• 50mm ² terminal c	apacity.	
RCCBs		RCD TYPE AC	RCD TYPE A
DESCRIPTION	RATING	LIST No	LIST No
Main incoming RCCB	25A DP, 30mA	325/030	325/A030
Main incoming RCCB	40A DP, 30mA	340/030	340/A030
Main incoming RCCB	40A DP, 100mA	340/100	-
Main incoming RCCB	63A DP, 30mA	363/030	-
Main incoming RCCB	80A DP, 30mA	380/030	380/A030
		200/400	-
Main incoming RCCB	80A DP, 100mA	380/100	-
Main incoming RCCB Main incoming RCCB	80A DP, 100mA 100A DP, 30mA	380/100 310/030	310/A030
	,		310/A030 -
Main incoming RCCB	100A DP, 30mA	310/030	310/A030 - -
Main incoming RCCB Main incoming RCCB	100A DP, 30mA 100A DP, 100mA	310/030 310/100	310/A030 - - 363/AS030
Main incoming RCCB Main incoming RCCB Main incoming TD RCCB	100A DP, 30mA 100A DP, 100mA 100A DP, 100mA	310/030 310/100 310/100TD	-
Main incoming RCCB Main incoming RCCB Main incoming TD RCCB Split-load RCCB	100A DP, 30mA 100A DP, 100mA 100A DP, 100mA 63A DP, 30mA	310/030 310/100 310/100TD 363/5030	-



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		LIST No	
RATING	MODULES	Туре В	Type C
6A	1	61/B06	61/C06
10A	1	61/B10	61/C10
16A	1	61/B16	61/C16
20A	1	61/B20	61/C20
32A	1	61/B32	61/C32
40A	1	61/B40	61/C40
50A	1	61/B50	61/C50

• Type B classification (3–5In). Type C classification (5–10In).

• 25mm² terminal capacity.

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

	LIST No		
MODULES	30mA Type B	30mA Type C	
1	61/B10630	61/C10630	
1	61/B11030	61/C11030	
1	61/B11630	61/C11630	
1	61/B12030	61/C12030	
1	61/B13230	61/C13230	
1	61/B14030	61/C14030	
1	61/B15030	61/C15030	
	MODULES	MODULES 30mA Type B 1 61/B10630 1 61/B1030 1 61/B11030 1 61/B11630 1 61/B12030 1 61/B13230 1 61/B14030	

• EN 61009-1, IEC61009-1.

• 230 (240) V AC 50/60 Hz. • 16mm² terminal capacity.

CAUTION

These devices are electronic units and should be disconnected from the supply during insulation and earth fault loop impedance testing.

ACCESSORIES

Blanking Plate	443	
Blanking Unit	CSB1	
Blanking Plate twist fit	CSBC	
MCB Padlocking Device	MCBLD	
For Tochnical information		

For Technical information see pages 178-181.

Trabtree



MAIN SWITCH METAL UNITS

MS Rating	Total MCB/ RCBO Ways	Main Switch	LIST No
40A	2	2	802/2B*
63A	2	2	802/26B*
100A	4	4	804/2B
100A	7	7	807/2B
100A	10	10	810/2B
100A	13	13	813/2B
100A	18	18	818/2B

RCBOs are not recommended for use within 802 units.

SPLIT LOAD METAL UNITS 100A SWITCH 63A 30mA RCCB



Total Ways	Main Switch	RCCB	LIST No
4	2	2	804/2263B
7	2	5	807/2263B
7	3	4	807/2363B
7	4	3	807/2463B
7	5	2	807/2563B
10	3	7	810/2363B
10	4	6	810/2463B
10	5	5	810/2563B
10	6	4	810/2663B
10	7	3	810/2763B
15	5	10	815/2563B
15	6	9	815/2663B
15	7	8	815/2763B
15	8	7	815/2863B
15	9	6	815/2963B
15	10	5	815/2163B
	4 7 7 7 7 10 10 10 10 10 10 10 15 15 15 15 15 15	$\begin{array}{c cccccc} 4 & 2 \\ \hline 7 & 2 \\ \hline 7 & 3 \\ \hline 7 & 4 \\ \hline 7 & 5 \\ \hline 10 & 3 \\ \hline 10 & 4 \\ \hline 10 & 5 \\ \hline 10 & 6 \\ \hline 10 & 7 \\ \hline 15 & 5 \\ \hline 15 & 6 \\ \hline 15 & 7 \\ \hline 15 & 8 \\ \hline 15 & 9 \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

SPLIT LOAD METAL UNITS 100A SWITCH 80A 30mA RCCB

MS Rating	Total Ways	Main Switch	RCCB	LIST No
100A	7	2	5	807/2283B
100A	7	3	4	807/2383B
100A	7	4	3	807/2483B
100A	7	5	2	807/2583B
100A	10	3	7	810/2383B
100A	10	4	6	810/2483B
100A	10	5	5	810/2583B
100A	10	6	4	810/2683B
100A	10	7	3	810/2783B
100A	15	5	10	815/2583B
100A	15	6	9	815/2683B
100A	15	7	8	815/2783B
100A	15	8	7	815/2883B
100A	15	9	6	815/2983B
100A	15	10	5	815/2183B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

TWO BANK SPLIT LOAD METAL UNITS

			RCCB	
MS Rating	Total Ways	Main Switch	80A 30mA	LIST No
100A	20	10	10	820/283B
100A	26	13	13	826/283B
100A	36	18	18	836/283B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.



Flush metal units available upon request. For components selection & dimensions see **Starbreaker** Components page 140.







			RCCB 1	RCCB 2	
MS Rating	Total Ways	Main Switch	63A 30mA	63A 30mA	LIST No
100A	8	2	3	3	808/226363B
100A	13	2	6	5	813/226665B
100A	13	2	7	4	813/226764B
100A	13	2	8	3	813/226863B
100A	13	3	5	5	813/236565B
100A	13	3	6	4	813/236664B
100A	13	3	7	3	813/236763B
100A	13	4	5	4	813/246564B
100A	13	4	6	3	813/246663B
100A	13	5	4	4	813/256464B
100A	13	5	5	3	813/256563B
100A	13	6	4	3	813/266463B

HIGH INTEGRITY DUAL RCD METAL UNITS

Both MCBs and RCBOs may be included for final circuit positions that are not protected by

DUAL RCD SPLIT LOAD METAL UNITS

	Total MCB		RCCB 1	RCCB 2	
MS Rating	Ways	Main Switch	63A 30mA	63A 30mA	LIST No
100A	13	0	7	6	813/2637636B
100A	13	0	8	5	813/2638635B
100A	13	0	9	4	813/2639634B





	Total MCB		RCCB 1	RCCB 2	
MS Rating	Ways	Main Switch	80A 30mA	63A 30mA	LIST No
100A	8	0	4	4	808/2834634B
100A	13	0	7	6	813/2837636B
100A	13	0	8	5	813/2838635B

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813/2839634B

833/26383B

DUAL RCD SPLIT LOAD METAL UNITS

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100A

100A

13

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TWO B	ANK DU	AL RCD S	PLIT LOA	D META	
MS Rating	Total MCB/ RCBO Ways	Main Switch	RCCB 1 63A 30mA	HCCD L	LIST No
100A	17	0	7	10	817/26383B
100A	23	0	10	13	823/26383B

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resident RCCBs. RCCB rating variations are available upon request.

	Total MCB		RCCB 1	RCCB 2	
MS Rating	Ways	Main Switch	63A 30mA	63A 30mA	LIST No
100A	13	0	7	6	813/2637636B
100A	13	0	8	5	813/2638635B
100A	13	0	9	4	813/2639634B

Flush metal units available upon request. For components selection & dimensions see Starbreaker Components page 140.

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Crabtree



RCD INC	OMER ME	TAL UNITS	
RCCB Rating	Total MCB Ways	RCCB	LIST No
40A 30mA	2	2	802/343B
63A 30mA	2	2	802/363B
80A 30mA	4	4	804/383B
80A 30mA	7	7	807/383B
80A 30mA	10	10	810/383B
100A 30mA	10	10	810/313B
80A 30mA	13	13	813/383B
100A 30mA	13	13	813/313B
80A 30mA	18	18	818/383B
100A 30mA	18	18	818/313B



RCD INC	OMER MET		rs with	H MCBs	L
RCCB Rating	Total MCB Ways	RCCB	MCB 1(B)	MCB2(B)	LIST No
40A 30mA	2	2	6A	32A	802/343GU
63A 30mA	2	2	6A	32A	802/363GU
63A 30mA	2	2	50A	-	802/363SU



DUAL TARIFF METAL UNITS

Total MCB/ RCBO Ways	Main Switch 100A Tariff 1	Main Switch 100A Tariff 2	LIST No
5	3	2	805/232B
8	3	5	808/232B
8	4	4	808/242B
8	5	3	808/252B
8	6	2	808/262B
11	4	7	811/242B
11	5	6	811/252B
11	6	5	811/262B
11	7	4	811/272B
11	8	3	811/282B
16	6	10	816/262B
16	7	9	816/272B
16	8	8	816/282B
16	9	7	816/292B
16	10	6	816/212B
16	11	5	816/2112B



MULTI TARIFF METAL UNITS

Total MCB/ RCBO Ways		Main Switch 100A Tariff 2		LIST No
9	4	1	4	809/242124B
14	7	1	6	814/272126B
14	8	1	5	814/282125B

SPLIT LOAD DUAL TARIFF METAL UNITS

MS Rating	Total Wavs	Main Switch		Main Switch 100A Tariff 2	LIST No
100A	8	2	3	3	808/22623B
100A	13	5	2	6	813/25626B
100A	13	3	6	4	813/23624B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

MS RatingTotal WaysMain SwitchRCCBMain SwitchMain Switch100A13364813/23824B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

Flush metal units available upon request.

For components selection & dimensions see Starbreaker Components page 140.

STARBREAKER METAL CONSUMER UNITS

			6, 1	
				-
•				()
100/MI2	100/2MT	100/SP1	100/DC1	100/DC2



RATING	MODULES	LIST No
40A DP	2	40/MI2
63A DP	2	63/MI2
100A DP	2	100/MI2
100A SP	1	100/SP1
100A DP	2	100/2MT
100A DP	2	100/DC2
100A SP	1	100/DC1
• 50mm ² terminal of	capacity.	
	RCD TYPE AC	RCD TYPE A
RATING	LIST No	LIST No
25A DP, 30mA	325/030	325/A030
40A DP, 30mA	340/030	340/A030
40A DP, 100mA	340/100	-
63A DP, 30mA	363/030	-
80A DP, 30mA	380/030	380/A030
80A DP, 100mA	200/400	
OUA DF, TUUIIIA	380/100	-
100A DP, 30mA	310/030	- 310/A030
,		- 310/A030 -
100A DP, 30mA	310/030	
100A DP, 30mA 100A DP, 100mA	310/030 310/100	
100A DP, 30mA 100A DP, 100mA 100A DP, 100mA	310/030 310/100 310/100TD	-
100A DP, 30mA 100A DP, 100mA 100A DP, 100mA 63A DP, 30mA	310/030 310/100 310/100TD 363/S030	-
	40A DP 63A DP 100A DP 100A SP 100A SP 100A DP 100A SP • 50mm ² terminal • RATING 25A DP, 30mA 40A DP, 30mA 40A DP, 100mA 63A DP, 30mA	40A DP 2 63A DP 2 100A SP 1 • 50mm² terminal caracity. I • 50mm² terminal caracity. I RATING IST No 25A DP, 30mA 325/030 40A DP, 100mA 340/030 40A DP, 100mA 340/100 63A DP, 30mA 363/030 80A DP, 30mA 380/030

MAIN INCOMING & SPLIT-LOAD DEVICES



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RCBOs Type B and Type C

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		LIST No	
RATING	MODULES	Type B	Type C
6A	1	61/B06	61/C0
10A	1	61/B10	61/C1
16A	1	61/B16	61/C1
20A	1	61/B20	61/C2
32A	1	61/B32	61/C3
40A	1	61/B40	61/C4
50A	1	61/B50	61/C5

• Type B classification (3–5In). Type C classification (5–10In).

• 25mm² terminal capacity.

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

		LIST No				
RATING	MODULES	30mA Type B	30mA Type C			
6A	1	61/B10630	61/C10630			
10A	1	61/B11030	61/C11030			
16A	1	61/B11630	61/C11630			
20A	1	61/B12030	61/C12030			
32A	1	61/B13230	61/C13230			
40A	1	61/B14030	61/C14030			
50A	1	61/B15030	61/C15030			
• EN 61009-1	IEC 61009-1					

EN 61009-1, IEC61009-1.
230 (240) V AC 50/60 Hz.

16mm² terminal capacity.

CAUTION

These devices are electronic units and should be disconnected from the supply during insulation and earth fault loop impedance testing.

ACCESSORIES

Blanking Plate	443
Blanking Unit	CSB1
Blanking Plate twist fit	CSBC
MCB Padlocking Device	MCBLD

For Technical information see pages 178-181.



Crabtree



ST, RBREAKER

COMPONENTS

The Starbreaker domestic circuit protection range was born of an innovative modular concept.

By employing a unique busbar system a balance is achieved between the conventional factory built approach and the time consuming on-site assembly of many individual components.

Starbreaker consumer units can be quickly and easily made up on site by selection of an enclosure, busbar, main incoming device and, if required, RCCBs.



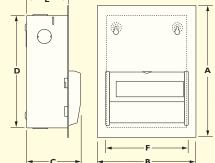




830/2AF



FLUSH METAL CASED ENCLOSURES - E



ENCLOSURES

The range of enclosures from 4 to 20 modules as all insulated and 4 to 40 modules as metal cased with a steel front cover, all finished in a stylish semi-matt finish.

- Type tested to BS 5486 Part 13: 1989 and BS EN 60439-3 when fully assembled. • All enclosures are supplied ready prepared for the unique busbar to be easily fitted into place.
- Each enclosure is supplied complete with: 35mm metal DIN rail.
- Factory-fitted 16mm² flexible neutral connection.
- Installation instructions, unique circuit identification labels and user guide.
- 16mm² earth and neutral bar terminal assembly. • The neutral lead fitted to all enclosures facilitates siting the main incoming device on the left hand side.
- Suitable for use with control modules.

ALL INSULATED ENCLOSURES

	Н	W	D	
4 Modular ways	160	117	102	404/0A*
6 Modular ways	230	190	120	406/0A
9 Modular ways	230	243	120	409/0A
12 Modular ways	230	294	120	412/0A
15 Modular ways	230	344	120	415/0A
20 Modular ways	230	439	120	420/0A

• Large selection of knock-outs suiting any cable routing – also readily accommodates mini-trunking.

* Includes Busbar. RCBOs are not recommended for use within 4 mod. enclosures.

SURFACE METAL CASED

	н	W	D	
4 Modular ways	185	130	97	804/0A*
6 Modular ways	261	188	122	806/0A
9 Modular ways	261	242	122	809/0A
12 Modular ways	261	292	122	812/0A
15 Modular ways	261	343	122	815/0A
20 Modular ways	261	438	122	820/0A
24 Modular ways 2 Bank	506	295	121	824/2A
30 Modular ways 2 Bank	506	345	121	830/2A
40 Modular ways 2 Bank	506	440	121	840/2A

• Ample wiring space.

• Adequate knock-outs in robust metal box for side or rear entry of wiring.

* Includes Busbar. RCBOs are not recommended for use within 4 mod. enclosures.

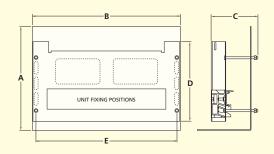
FLUSH METAL CASED

Modular size	А	В	С	D	Е	F	
6	300	223	121	255	93	181.5	806/0AF
9	300	276	121	255	93	235	809/0AF
12	300	327	121	255	93	286	812/0AF
15	300	377	121	255	93	336	815/0AF
20	300	472	121	255	93	431	820/0AF
24	540	325	121	500	93	286	824/2AF
30	540	375	121	500	93	336	830/2AF
40	540	472	121	500	93	431	840/2AF

SPINE BACKPLATE CHASSIS

Modular size	А	В	С	D	Е	
15	235	335	106	180	319.5	H915/0W
20	235	448	105	180	435	H920/0W

SPINE BACKPLATES



142





DESCRIPTION	RATING	MODULES	LIST No
Main switch disconnector	40A DP	2	40/MI2
Main switch disconnector	63A DP	2	63/MI2
Main switch disconnector	100A DP	2	100/MI2
Main switch disconnector	100A SP	1	100/SP1
Main switch disconnector c/w tap off terminal	100A DP	2	100/2MT
Direct connection unit	100A DP	2	100/DC2
Direct connection unit	100A SP	1	100/DC1
• IEC 60947-3	 50mm² terminal ca 	apacity.	
RCCBs		RCD TYPE AC	RCD TYPE A
DESCRIPTION	RATING	LIST No	LIST No
Main incoming RCCB	25A DP, 30mA	325/030	325/A030
Main incoming RCCB	40A DP, 30mA	340/030	340/A030
Main incoming RCCB	40A DP, 100mA	340/100	-
Main incoming RCCB	63A DP, 30mA	363/030	-
Main incoming RCCB	80A DP, 30mA	380/030	380/A030
Main incoming RCCB	80A DP, 100mA	380/100	-
Main incoming RCCB	100A DP, 30mA	310/030	310/A030
Main incoming RCCB	100A DP, 100mA	310/100	-
Main incoming TD RCCB	100A DP, 100mA	310/100TD	-
Split-load RCCB	63A DP, 30mA	363/\$030	363/AS030
Split-load RCCB	63A DP, 100mA	363/\$100	-
Split-load RCCB	80A DP, 30mA	380/S030	380/AS030
Split-load RCCB	80A DP, 100mA	380/S100	380/AS100
• BS EN 61008.	 Electro-mechanical 	. • 50mm ² terr	minal capacity



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RCBOs Type B and Type C

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	MINIATU	RE CIRCUIT BREA	KERS
			LIST No
2)	RATING	MODULES	Type B
	6A	1	61/B06
COLUMN 2	10A	1	61/B10
(in the second	16A	1	61/B16
	20A	1	61/B20
	32A	1	61/B32
	40A	1	61/B40
0	50A	1	61/B50
61/B50	· · · · · · · · · · · · · · · · · · ·	6kA – 240V 50Hz.	···· (= + ot)

• Type B classification (3–5In). Type C classification (5–10In).

• 25mm² terminal capacity.

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

		LIST No		
RATING	MODULES	30mA Type B	30mA Type C	
6A	1	61/B10630	61/C10630	
10A	1	61/B11030	61/C11030	
16A	1	61/B11630	61/C11630	
20A	1	61/B12030	61/C12030	
32A	1	61/B13230	61/C13230	
40A	1	61/B14030	61/C14030	
50A	1	61/B15030	61/C15030	
EN 61009-1	IEC 61009-1			

EN 61009-1, IEC61009-1.
230 (240) V AC 50/60 Hz.

• 16mm² terminal capacity.

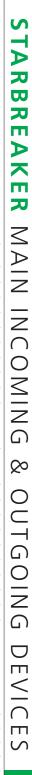
CAUTION

These devices are electronic units and should be disconnected from the supply during insulation and earth fault loop impedance testing.

ACCESSORIES

Blanking Plate	443
Blanking Unit	CSB1
Blanking Plate twist fit	CSBC
MCB Padlocking Device	MCBLD
For Tochnical information a	170 101

For Technical information see pages 178-181.



Туре С

61/C06 61/C10 61/C16 61/C20 61/C32 61/C40 61/C50

Prabtree

ALL-INSULATED

		Consumer	Surface	+	+ 🙀 + Main	+	
	Available	unit	moulded		incoming		
	ways	List No	enclosure	Busbar	device	RCCB 1	RCCB 2
	2	402/2B	404/0A	Included	40/MI2		
200	2	402/26B	404/0A	Included	63/MI2		
	4	404/2B	406/0A	9060	100/MI2		
	7	407/2B	409/0A	9090	100/MI2		
AX	10	410/2B	412/0A	9120	100/MI2		
	13	413/2B	415/0A	9150	100/MI2		
	18	418/2B	420/0A	9200	100/MI2		
410/2B	·						
	2 + 2	404/2263B	409/0A	9530	100/MI2	363/S030	
	2 + 5	407/2263B	412/0A	9560	100/MI2	363/S030	
	3 + 4	407/2363B	412/0A	9650	100/MI2	363/S030	
	4 + 3	407/2463B	412/0A	9740	100/MI2	363/S030	
	5 + 2	407/2563B	412/0A	9830	100/MI2	363/S030	
tes .	$\frac{3+7}{1-5}$	410/2363B	415/0A	9680	100/MI2	363/S030	
	$\frac{4+6}{5-5}$	410/2463B	415/0A	9770	100/MI2	363/S030	
	$\frac{5+5}{6+4}$	410/2563B	415/0A	9860	100/MI2	363/S030	
	$\frac{6+4}{7}$	410/2663B	415/0A	9950	100/MI2	363/S030	
	$\frac{7+3}{5-40}$	410/2763B	415/0A	9104	100/MI2	363/S030	
	$\frac{5+10}{6}$	415/2563B	420/0A	9811	100/MI2	363/S030	
410/2563B	6+9 7+9	415/2663B	420/0A	9910	100/MI2	363/S030	
	$\frac{7+8}{8+7}$	415/2763B	420/0A	9109	100/MI2	363/S030	
	$\frac{8+7}{9+6}$	415/2863B	420/0A 420/0A	9118	100/MI2	363/S030	
	9 + 6 10 + 5	415/2963B 415/2163B	420/0A 420/0A	9127 9136	100/MI2 100/MI2	363/S030 363/S030	
	10 + 5	415/21056	420/0A	9150	TOU/IVIIZ	202/2020	
	2 + 5	407/2283B	412/0A	9560	100/MI2	380/S030	
	3+4	407/2383B	412/0A	9650	100/MI2	380/S030	
- Inter	4 + 3	407/2483B	412/0A	9740	100/MI2	380/S030	
	5 + 2	407/2583B	412/0A	9830	100/MI2	380/S030	
	3 + 7	410/2383B	415/0A	9680	100/MI2	380/S030	
Contraction of the local division of the loc	4+6	410/2483B	415/0A	9770	100/MI2	380/S030	
	5 + 5	410/2583B	415/0A	9860	100/MI2	380/S030	
445 (20025	6 + 4	410/2683B	415/0A	9950	100/MI2	380/S030	
415/2883B	7 + 3	410/2783B	415/0A	9104	100/MI2	380/S030	
	5 + 10	415/2583B	420/0A	9811	100/MI2	380/S030	
	6 + 9	415/2683B	420/0A	9910	100/MI2	380/S030	
	7 + 8	415/2783B	420/0A	9109	100/MI2	380/S030	
	8 + 7	415/2883B	420/0A	9118	100/MI2	380/S030	
	9 + 6	415/2983B	420/0A	9127	100/MI2	380/S030	
	10 + 5	415/2183B	420/0A	9136	100/MI2	380/S030	
	$\frac{2+3+3}{2}$	408/226363B	415/0A	-	100/2MT	363/S030	363/030
1mm	$\frac{2+6+5}{2}$	413/226665B	420/0A	9576/ST	100/2MT	363/S030	363/030
	$\frac{2+7+4}{2+5+5}$	413/226764B	420/0A	9585/ST	100/2MT	363/S030	363/030
Statement and statement of	$\frac{3+5+5}{2+6+4}$	413/236565B	420/0A	9666/ST	100/2MT	363/S030	363/030
	$\frac{3+6+4}{3+7+3}$	413/236664B 413/236763B	420/0A 420/0A	9675/ST 9684/ST	100/2MT 100/2MT	363/S030 363/S030	363/030
	$\frac{3+7+3}{4+5+4}$	413/246564B	420/0A 420/0A	9765/ST	100/2MT	363/S030	363/030
	$\frac{4+5+4}{4+6+3}$	413/246663B	420/0A 420/0A	9774/ST	100/2MT	363/S030	363/030
413/236565B	$\frac{4+0+3}{5+4+4}$	413/256464B	420/0A 420/0A	9855/ST	100/2MT	363/S030	363/030
	5+5+3	413/256563B	420/0A 420/0A	9864/ST	100/2MT	363/S030	363/030
	$\frac{5+5+5}{6+4+3}$	413/266463B	420/0A	9957/ST	100/2MT	363/S030	363/030
			120,071	5557751	100/21111		
	7 + 6	413/2637636B	420/0A	9387/ST	100/2MT	363/S030	363/030
	8 + 5	413/2638635B	420/0A	9396/ST	100/2MT	363/S030	363/030
	9 + 4	413/2639634B	420/0A	9315/ST	100/2MT	363/S030	363/030

Grabtree

ALL-INSULATED



Consumer

unit List No

Available

ways

4 + 4

7 + 6

8 + 5

9 + 4

13

4 + 6

5 + 5

6+4

4 + 6

5 + 5

4 + 4

2

2

4

4

7

7

10

10

13

13

18

18

3 + 2

3 + 6 + 4

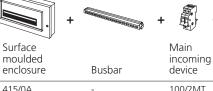
413/23824B

420/0A











J T Z	403/2320	40 <i>5</i> /0A	5550	100/1012 22		
3 + 5	408/232B	412/0A	9560	100/MI2x2		
4 + 4	408/242B	412/0A	9650	100/MI2x2		
5 + 3	408/252B	412/0A	9740	100/MI2x2		
6 + 2	408/262B	412/0A	9830	100/MI2x2		
4 + 7	411/242B	415/0A	9680	100/MI2x2		
5 + 6	411/252B	415/0A	9770	100/MI2x2		
6 + 5	411/262B	415/0A	9860	100/MI2x2		
7 + 4	411/272B	415/0A	9950	100/MI2x2		
8 + 3	411/282B	415/0A	9104	100/MI2x2		
6 + 10	416/262B	420/0A	9811	100/MI2x2		
7 + 9	416/272B	420/0A	9910	100/MI2x2		
8 + 8	416/282B	420/0A	9109	100/MI2x2		
9 + 7	416/292B	420/0A	9118	100/MI2x2		
10 + 6	416/212B	420/0A	9127	100/MI2x2		
11 + 5	416/2112B	420/0A	9136	100/MI2x2		
4 + 1 + 4	409/242124B	415/0A	9414/M	100/MI2x3		
7 + 1 + 6	414/272126B	420/0A	9716/M	100/MI2x3		
8 + 1 + 5	414/282125B	420/0A	9815/M	100/MI2x3		
2 + 3 + 3	408/22623B	415/0A	9233/ST	100/MI2x2	363/S030	
5 + 2 + 6	413/25626B	420/0A	9837/ST	100/MI2x2	363/S030	
3 + 6 + 4	413/23624B	420/0A	9675/ST	100/MI2x2	363/S030	

9675/ST

100/MI2x2

380/S030



RCCB 2

RCCB 1

413/2837636B



H913/2WB



411/262B



STARBREAKER

CONSUMER UNIT COMPONENT

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ELECTION GUID

METAL CASED

			-	+	+	+	+
		Consumer	Surface		Main	Ter	The second
	Available	unit List No	metal enclosure	Busbar	incoming device		RCCB 2
	ways					RCCB 1	KCCB Z
	2	802/2B	804/0A	Included	40/MI2		
	2	802/26B	804/0A	Included	63/MI2		
	4	804/2B	806/0A	9060	100/MI2		
	7	807/2B	809/0A	9090	100/MI2		
	10	810/2B	812/0A	9120	100/MI2		
	13	813/2B	815/0A	9150	100/MI2		
	18	818/2B	820/0A	9200	100/MI2		
	2 + 2	804/2263B	809/0A	9530	100/MI2	363/S030	
	2 + 5	807/2263B	812/0A	9560	100/MI2	363/\$030	
	3 + 4	807/2363B	812/0A	9650	100/MI2	363/S030	
	4 + 3	807/2463B	812/0A	9740	100/MI2	363/S030	
-	5 + 2	807/2563B	812/0A	9830	100/MI2	363/S030	
	3 + 7	810/2363B	815/0A	9680	100/MI2	363/S030	
	4 + 6	810/2463B	815/0A	9770	100/MI2	363/S030	
	5 + 5	810/2563B	815/0A	9860	100/MI2	363/S030	
	6 + 4	810/2663B	815/0A	9950	100/MI2	363/S030	
	7 + 3	810/2763B	815/0A	9104	100/MI2	363/S030	
-	5 + 10	815/2563B	820/0A	9811	100/MI2	363/S030	
	6 + 9	815/2663B	820/0A	9910	100/MI2	363/S030	
	7 + 8	815/2763B	820/0A	9109	100/MI2	363/S030	
	8+7	815/2863B	820/0A	9118	100/MI2	363/S030	
	9+6	815/2963B	820/0A	9127	100/MI2	363/S030	
	10 + 5	815/2163B	820/0A	9136	100/MI2	363/S030	
	2 + 5	807/2283B	812/0A	9560	100/MI2	380/S030	
	3 + 4	807/2383B	812/0A	9650	100/MI2	380/S030	
	4 + 3	807/2483B	812/0A	9740	100/MI2	380/S030	
	5 + 2	807/2583B	812/0A	9830	100/MI2	380/S030	
	3 + 7	810/2383B	815/0A	9680	100/MI2	380/S030	
	4+6	810/2483B	815/0A	9770	100/MI2	380/S030	
	$\frac{5+5}{6+4}$	810/2583B	815/0A	9860	100/MI2	380/5030	
	$\frac{6+4}{7+3}$	810/2683B 810/2783B	815/0A 815/0A	9950 9104	100/MI2 100/MI2	380/S030 380/S030	
	5 + 10	815/2583B	815/0A 820/0A	9811	100/MI2	380/5030	
	6 + 9	815/2683B	820/0A	9910	100/MI2	380/5030	
	7 + 8	815/2783B	820/0A	9109	100/MI2	380/S030	
	8 + 7	815/2883B	820/0A	9118	100/MI2	380/S030	
	9 + 6	815/2983B	820/0A	9127	100/MI2	380/S030	
	10 + 5	815/2183B	820/0A	9136	100/MI2	380/S030	
- 10	10 + 10	820/283B	824/2A	9120 X2	100/2MT	380/030	
	13 + 13	826/283B	830/2A	9150 X2	100/2MT	380/030	
	18 + 18	836/283B	840/2A	9200 X2	100/2MT	380/030	
	2 + 3 + 3	808/226363B	815/0A	-	100/2MT	363/S030	363/030
	2 + 6 + 5	813/226665B	820/0A	9576/ST	100/2MT	363/S030	363/030
	2 + 7 + 4	813/226764B	820/0A	9585/ST	100/2MT	363/S030	363/030
	$\frac{3+5+5}{2}$	813/236565B	820/0A	9666/ST	100/2MT	363/S030	363/030
	3+6+4	813/236664B	820/0A	9675/ST	100/2MT	363/S030	363/030
	$\frac{3+7+3}{4+5+4}$	813/236763B	820/0A	9684/ST	100/2MT	363/S030	363/030
	$\frac{4+5+4}{4+6+3}$	813/246564B	820/0A	9765/ST	100/2MT	363/5030	363/030
	$\frac{4+6+3}{5+4+4}$	813/246663B 813/256464B	820/0A 820/0A	9774/ST 9855/ST	100/2MT 100/2MT	363/S030 363/S030	363/030
	$\frac{5+4+4}{5+5+3}$	813/256563B	820/0A 820/0A	9855/ST 9864/ST	100/2MT	363/5030	363/030
	$\frac{5+5+5}{6+4+3}$	813/266463B	820/0A	9957/ST	100/2MT	363/S030	363/030
			n request. Flush metal			555,5050	200,000

2.5

810/2B



807/2363B



826/283B



808/226363B

Flush metal units are available upon request. Flush metal enclosures can be seen on Page 142.

METAL CASED

		=	+	+		+
			(aer			
Available	Consumer unit	Surface metal		Main incoming		
ways	List No	enclosure	Busbar	device	RCCB 1	RCCB 2
7 + 6	813/2637636B	820/0A	9387/ST	100/2MT	363/S030	363/S030
8 + 5	813/2638635B	820/0A	9396/ST	100/2MT	363/S030	363/S030
9 + 4	813/2639634B	820/0A	9315/ST	100/2MT	363/S030	363/S030
4 + 4	808/2834634B	815/0A	-	100/2MT	380/S030	363/S030
7 + 6	813/2837636B	820/0A	9387/ST	100/2MT	380/S030	363/S030
8 + 5	813/2838635B	820/0A	9396/ST	100/2MT	380/S030	363/S030
9 + 4	813/2839634B	820/0A	9315/ST	100/2MT	380/S030	363/S030
7 + 10	817/26383B	824/2A	9380/D & 9120) 100/2MT	363/S030	380/S030
<u>7 + 10</u> 10 + 13	823/26383B	824/2A 830/2A	9380/D & 9120 9311/D & 9150		363/5030	380/5030
15 + 8	833/26383B	840/2A	9316/D & 9200		363/S030	380/5030
13 + 0	033/203030	040/27	22 1010 Q 2200	100/2111	0000000	2002020
2	802/343B	804/0A	Included	340/030		
2	802/363B	804/0A	Included	363/030		
4	804/383B	806/0A	9060	380/030		
7	807/383B	809/0A	9090	380/030		
10	810/383B	812/0A	9120	380/030		
10	810/313B	812/0A	9120	310/030		
13	813/383B	815/0A	9150	380/030		
13	813/313B	815/0A	9150	310/030		
18	818/383B	820/0A	9200	380/030		
18	818/313B	820/0A	9200	310/030		
3 + 2	805/232B	809/0A	9530	100/MI2x2		
3 + 5	808/232B	812/0A	9560	100/MI2x2		
4 + 4	808/242B	812/0A	9650	100/MI2x2		
5 + 3	808/252B	812/0A	9740	100/MI2x2		
6 + 2	808/262B	812/0A	9830	100/MI2x2		
4 + 7	811/242B	815/0A	9680	100/MI2x2		
5 + 6	811/252B	815/0A	9770	100/MI2x2		
6 + 5	811/262B	815/0A	9860	100/MI2x2		
7 + 4	811/272B	815/0A	9950	100/MI2x2		
8 + 3	811/282B	815/0A	9104	100/MI2x2		
6 + 10	816/262B	820/0A	9811	100/MI2x2		
7 + 9	816/272B	820/0A	9910	100/MI2x2		
8 + 8	816/282B	820/0A	9109	100/MI2x2		
9 + 7	816/292B	820/0A	9118	100/MI2x2		
10 + 6	816/212B	820/0A	9127	100/MI2x2		
11 + 5	816/2112B	820/0A	9136	100/MI2x2		
4 + 1 + 4	809/242124B	815/0A	9414/M	100/MI2x3		
7 + 1 + 6	814/272126B	820/0A	9716/M	100/MI2x3		
8 + 1 + 5	814/282125B	820/0A	9815/M	100/MI2x3		
2 + 3 + 3	808/22623B	815/0A	9233/ST	100/MI2x2	363/S030	
5 + 2 + 6	813/25626B	820/0A	9837/ST	100/MI2x2	363/S030	
3+6+4	813/23624B	820/0A	9675/ST	100/MI2x2	363/S030	
3 + 6 + 4	813/23824B	820/0A	9675/ST	100/MI2x2	380/S030	
5+0+4	013/23024D	620/0A	9075/31	100/1012.82	560/3030	



813/2637636B



817/26383B



807/383B



811/282B

Flush metal units are available upon request. Flush metal enclosures can be seen on Page 142.

STARBREAKER CONSUMER UNIT COMPONENT SELECTION GUIDE



DOMESTIC CIRCUIT PROTECTION

The inherent flexibility of Loadstar Domestic Circuit Protection enables simple on site configuration of a variety of consumer unit arrangements.

A REAL PLAT

LELE .



MAIN SWITCH UNITS

Total MCB/ RCBO Ways	MS Rating	Insulated	Metal
1	63A	18LC1*	
2	40A	18LC2*	
2	63A	18LC2/63*	18PS2*
5	100A	18LC5	18PS5
8	100A	18LC8	18PS8
11	100A	18LC11	18PS11
14	100A	18LC14	18PS14
19	100A	18LC19	18PS19

Supplied with Main Switch and Busbar.

Flush Metal versions are available upon request. *Single module RCBOs are not recommended for use within 1 & 2 way units.

FLEXIBLE SPLIT LOAD UNITS

12 3 to 9 3 to 9 18LC12SL 18PRSL1					
9 3 to 6 3 to 6 18LC9SL 18PRSL0 12 3 to 9 3 to 9 18LC12SL 18PRSL1	Total Ways			Insulated	Metal
12 3 to 9 3 to 9 18LC12SL 18PRSL1	6	2 to 4	2 to 4	18LC6SL	-
	9	3 to 6	3 to 6	18LC9SL	18PRSL09
17 5 to 12 5 to 12 18LC17SL 18PRSL 1	12	3 to 9	3 to 9	18LC12SL	18PRSL12
	17	5 to 12	5 to 12	18LC17SL	18PRSL17

Supplied with Main Switch, DP RCCB and Busbar.

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

Flush Metal versions are available upon request.



18PRSL12

FLEXIBLE HIGH INTEGRITY DUAL RCD UNITS

	100A	80A 30mA	80A 30mA		
Total Ways	Main Switch	RCCB 1	RCCB 2	Insulated	Metal
10	2 to 5	2 to 5	2 to 5	18LC10HI	18PSHI10
15	2 to 9	2 to 9	2 to 9	18LC15HI	18PSHI15

Supplied with Main Switch, Two DP RCCBs and Busbar.

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

Flush Metal versions are available upon request.



FLEXIBLE DUAL RCD SPLIT LOAD UNITS

Total MCB	100A	80A 30mA	80A 30mA		
Ways	Main Switch	RCCB 1	RCCB 2	Insulated	Metal
10	-	4 to 6	4 to 6	18LC10DR	18PSDR10
15	-	6 to 9	6 to 9	18LC15DR	18PSDR15

Supplied with Main Switch, Two DP RCCBs and Busbar. Flush Metal versions are available upon request.

For dimensions see page 195.



OMER UNITS		
RCCB Rating	Insulated	Metal
		IVIELAI
		18PR2/63/30
		18PR5/80/30
80A 30mA	18LC8/80/30	18PR8/80/30
80A 30mA	18LC11/80/30	18PR11/80/30
80A 30mA	18LC14/80/30	18PR14/80/30
80A 30mA	18LC19/80/30	18PR19/80/30
	RCCB Rating 63A 30mA 63A 30mA 80A 30mA 80A 30mA 80A 30mA 80A 30mA	RCCB Insulated Rating Insulated 63A 30mA 18LC1/63/30 63A 30mA 18LC2/63/30 80A 30mA 18LC5/80/30 80A 30mA 18LC5/80/30 80A 30mA 18LC11/80/30 80A 30mA 18LC11/80/30 80A 30mA 18LC11/80/30

Supplied with DP RCCB and Busbar.



18SB12SL

ASSEMBLED SPINE BACKPLATES

MAIN SWITCH

14	14	18SB14
RCBO Ways	Main Switch	LIST No
Total MCB/	100A	

Supplied with Main Switch and Busbar.

FLEXIB	LE SPLIT LO	AD	
Total Ways	100A Main Switch	80A RCCB	LIST No
12	3 to 9	3 to 9	18SB12SL

Supplied with Main Switch, DP RCCB and Busbar.

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.



FLEXIBLE HIGH INTEGRITY DUAL RCD

10	2 to 5	2 to 5	2 to 5	18SB10HI
Ways	Main Switch	RCCB 1	RCCB 2	LIST No
Total	100A	80A	80A	

Supplied with Main Switch, Two DP RCCBs and Busbars. Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

FLEXIBLE DUAL RCD SPLIT LOAD

10	-	4 to 6	4 to 6	18SB10DR
Ways	Main Switch	RCCB 1	RCCB 2	LIST No
Total MCB	100A	80A	80A	

Supplied with Main Switch, Two DP RCCBs and Busbars.

For dimensions see page 195.

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MINIATURE CIRCUIT BREAKERS RATING POLES MODULES Type B Type C 6A 1 1 6MSB06 6MSC06 10A 1 1 6MSB10 6MSC10 16A 1 1 6MSB16 6MSC16

6A	1	1	6MSB06	6MSC06
10A	1	1	6MSB10	6MSC10
16A	1	1	6MSB16	6MSC16
20A	1	1	6MSB20	6MSC20
32A	1	1	6MSB32	6MSC32
40A	1	1	6MSB40	6MSC40
50A	1	1	6MSB50	6MSC50

• BS EN 60898; 6kA-240V 50Hz

• Type B classification (3-5 In). Type C classification (5-10In)

• 25mm² terminal capacity

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

			LIST No	
RATING	POLES	MODULES	30mA Type B	30mA Type C
6A	1	1	6FSR06/30B	6FSR06/30C
10A	1	1	6FSR10/30B	6FSR10/30C
16A	1	1	6FSR16/30B	6FSR16/30C
20A	1	1	6FSR20/30B	6FSR20/30C
32A	1	1	6FSR32/30B	6FSR32/30C
40A	1	1	6FSR40/30B	6FSR40/30C
50A	1	1	6FSR50/30B	6FSR50/30C

• BS EN 61009

- 230 (240)V AC 50/60 Hz
- 16mm² terminal capacity (outgoing)

SP & SWN RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

			LIST No
RATING	POLES	MODULES	30mA Type C
6A	2	2	6FSNR063/C
10A	2	2	6FSNR103/C
16A	2	2	6FSNR163/C
20A	2	2	6FSNR203/C
32A	2	2	6FSNR323/C
40A	2	2	6FSNR403/C
• BS EN 61009		• 16mm ² terminal ca	pacity (outgoing)

• 230 (240)V AC 50/60 Hz

ACCESSORIES

LIST No
MCBLD
443
CSB1
CSBC

TRIPLE POLE & NEUTRAL 415V 50Hz AC

Description BS EN 60947-3	LIST No
With switched Neutral for surface mounting within a metal enclosure. 133mm x 114mm x 61mm	1932
With switched Neutral for flush mounting within a metal enclosure. 150mm x 125mm x 61mm	1932/F

DP DOMESTIC SWITCH FUSE

Description	LIST No
DP Domestic Switch Fuse complete with 63A fuse	191002/63
DP Domestic Switch Fuse complete with 80A fuse	191002/80
DP Domestic Switch Fuse complete with 100A fuse	191002/100
	1.1

The Crabtree Domestic Switch Fuse has a robust steel construction and is complete with a 100A Double Pole Isolator and either 63A, 80A or 100A BS88 Fuse. Approximate dimensions: Height 305mm, Width178mm, Depth 76mm

For Technical Information see pages 178-181







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MODULAR ONTROL

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and the

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S

EC 947.4 AC3

IEC 1095

VOE 0000

35mm DIN rail mounting control devices including contactors, time switches and bell transformers.

819

2

Visite Differential control Differential control <th>X</th> <th></th> <th>SILEN</th> <th>OPERATIO</th> <th></th> <th>LLATION</th> <th>CONTA</th> <th>CIOR</th> <th>15</th> <th></th>	X		SILEN	OPERATIO		LLATION	CONTA	CIOR	15	
View 0.75 MC 1 2 1 Model CR2222 CR24 25 7.33 4 3 0 2 Model CR22232 CR40 40 5.57 11 3 0 2 Model CR22232 CR40 40 5.57 15 3 0 2 Model CR22232 CR23 3 Model CR22332 CR23 CR23 <th></th> <th></th> <th></th> <th>Thermal</th> <th>Motor</th> <th>Rating</th> <th></th> <th></th> <th></th> <th></th>				Thermal	Motor	Rating				
View 0.75 MC 1 2 1 Model CR2222 CR24 25 7.33 4 3 0 2 Model CR22232 CR40 40 5.57 11 3 0 2 Model CR22232 CR40 40 5.57 15 3 0 2 Model CR22232 CR23 3 Model CR22332 CR23 CR23 <th>ō</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Pole Conf</td> <td>iguratio</td> <td>n</td> <td></td>	ō						Pole Conf	iguratio	n	
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View 0.75 MC 1 2 1 Model CR2222 CR24 25 7.33 4 3 0 2 Model CR22232 CR40 40 5.57 11 3 0 2 Model CR22232 CR40 40 5.57 15 3 0 2 Model CR22232 CR23 3 Model CR22332 CR23 CR23 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
VP CK40 20 CK43 20 CK43 20 CK44 20 20 CK44 20 20 CK44 20	•		CIK22	20	1.3 NO	-	2	0	1 Mad	CIK22-20
VICUAL CIRC24 2.2 2.2 4 4 0 0 CIRC24-00					0.75 NC				I IVIOd -	CIK22-11
Visc 23 23 0 2 Model 0 Cited 2 Model 2 Cited 2 Model 2 <t< td=""><th></th><td>65 0030 A ANA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		65 0030 A ANA								
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VPE CR202 CR204 CR60 S5 11 4 0 3 Model CR604031 CR02 CR204 CR63 63 5.0* 15 4 0 4 3 Model CR63493 CR03 CR3 5.0* 15 4 0 4 0 4 CR63493 Audiary 220% 400% 20% 7 0 4 0 4 0 4 CR63493 CR634933 <td< td=""><th></th><td></td><td></td><td></td><td>1.3*</td><td></td><td>3</td><td></td><td>2 Mod -</td><td>CIK24-31</td></td<>					1.3*		3		2 Mod -	CIK24-31
VPE CR202 CR204 CR60 S5 11 4 0 3 Model CR604031 CR02 CR204 CR63 63 5.0* 15 4 0 4 3 Model CR63493 CR03 CR3 5.0* 15 4 0 4 0 4 CR63493 Audiary 220% 400% 20% 7 0 4 0 4 0 4 CR63493 CR634933 <td< td=""><th></th><td>Guetter Carton</td><td></td><td></td><td></td><td></td><td>Ó</td><td>2</td><td></td><td>CIK24-22 CIK24-04</td></td<>		Guetter Carton					Ó	2		CIK24-22 CIK24-04
VIC 3/7 1 3 4 3 Mod Circle 3/8 CIRC2 02 CIR24-00 CIRC3-40		CROAD CONTRACTOR CONTRACTOR		40		11				
Visit Visit <th< td=""><th></th><td>Carl Contraction of the Contract</td><td>CIK40</td><td>40</td><td>5.5 2.7*</td><td>11</td><td>4</td><td></td><td></td><td></td></th<>		Carl Contraction of the Contract	CIK40	40	5.5 2.7 *	11	4			
CK22.02 CK24.40 CK63-40 CK22.02 CK24.40 CK63-40 Auxilary 230V 400V Auxilary 230V 400V CK22.02 CK24.40 CK63-40 Auxilary 230V 400V CK22.02 CK24 CK24 CK22.02 CK24 CK40 CK23 CK22 CK24 MAXIMUM NUMBER OF LAMPS PER POLE CK23 MAXIMUM NUMBER OF LAMPS PER POLE CK63 MAXIMUM NUMBER OF LAMPS PER PO		ENGED			5.7**		2	2	3 Mod -	
CK22.02 CK24.40 CK63-40 CK22.02 CK24.40 CK63-40 Auxilary 230V 400V Auxilary 230V 400V CK22.02 CK24.40 CK63-40 Auxilary 230V 400V CK22.02 CK24 CK24 CK22.02 CK24 CK40 CK23 CK22 CK24 MAXIMUM NUMBER OF LAMPS PER POLE CK23 MAXIMUM NUMBER OF LAMPS PER POLE CK63 MAXIMUM NUMBER OF LAMPS PER PO							ō	4		CIK40-22
CK22.02 CK23-02 CK63-40 CK63-40 SO SO<				62	0.5	1 Г				
CK22.02 CK24.40 CK63-40 20 2 3 3000 CK683-24 Aviilary 230V 400V - - 1 1 CH683-24 Aviilary 230V 400V - - 1 1 CHH5LA11 Aviilary 230V 400V - - 1 0 CHH5LA11 Aviilary 230V 400 50 - - 1 0 CH53247 * Data for single-phase power is valid for version-22 CK24 CK40 CK63 - - - 1 0 20 20 40 50 - 20 10 20 20 40 50 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10			CIK63	63	8.5 5.0 *	15	4			
Notice: Action Action Action Action Action * Data for single-phase power is valid for version-22 MAXIMUM NUMBER OF LAMPS PER POLE Pressure Click2 Click2 <thclick2< th=""> Click2 Click</thclick2<>					5.0"		2	2	3 Mod -	CIK63-22
Audiary Crick 03 8 3 0Ny 200/ ACTS 400/ ACTS • Data for single-phase power is valid for version-20 MAXIMUM NUMBER OF LAMPS PER POLE Incandescent lamps 600/ 9 000/ 20 20 33 33 33 40 500/ 500/ 1000/ 1		CIK22-02 CIK24–40 CIK63–40					ō	4		CIK63-04
Contacts AC15 Citicata & 53 0 migle-phase power is valid for version-22 WAXIMUM NUMBER OF LAMPS PER POLE VECCUS CIC4 CIC42 CIC43										
Stand G 4 - - 1 0 CHHSLAID * Data for single-phase power is valid for version-22 MAXIMUM NUMER OF LAMPS PER POLE TYPE CIR22 CIR22 CIR23 CIR22 CIR23 CIR22 CIR23 CIR22 CIR23 CIR22 CIR23 CIR22 CIR23 CIR23 CIR22 CIR23 CIR2			Auxiliary	230V 400V						
Bit Sorthy 0 n										
* Data for single-phase power is valid for version-22 MAXMUM NUMERO FLAMPS FER POLE MAXMUM NUMERO FLAMPS FER POLE TYPE CIIC22 CIIC24 CII			(CIK40 &	6 1	_	_	1	1		
* Data for single-phase power is valid for version-22 MAXMUM NUMERO FLAMPS FER POLE MAXMUM NUMERO FLAMPS FER POLE TYPE CIIC22 CIIC24 CII			63 Only)	0 4			2	ó		CHHSLA20
TYPE CIK22 CIK24 CIK40 CIK63 10000 13 33 65 85 10000 10 10 20 40 50 10000 1 1 4 50 10000 1 1 4 50 10000 1 1 4 50 100000 1 1 4 50 100000 1 1 4 50 100000 1 10 20 150 100000 10 10 20 25 1100000 3 3 8 10 100000 1 1 4 5 100000 1 1 4 5 100000 1 1 1 1 100000 1 1 1 1 100000 1 3 4 10 137 1 1 1			+ Data fa	a standa tabana a		£		0		
TYPE CIK22 CIK24 CIK40 CIK63 Incandescent lamps 100W 20 23 24 45 200W 10 10 20 25 500W 3 3 8 10 100W 1 1 4 5 500W 3 3 8 10 11W 30 40 100 140 15W 20 30 85 115 20W 17 22 65 85 Halogen lamps 200W 6 6 13 16 500W 3 3 4 10 13 Halogen lamps 200W 7 9 23 30 100W 1 10 10 20 30 135W 3 4 10 13 136W 3 4 10 13 137W 3 4 10			" Data fo	single-phase p	Jower is valid					
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Incandescent lamps 60W 33 33 35 65 85 200W 10 10 20 25 500W 3 3 8 10 1000W 1 1 4 5 500W 3 8 10 1000W 1 1 4 5 500W 11 4 5 Energy saving lamps 7W 40 100 140 140 140 11W 30 40 100 140		ТҮРЕ			CIK22	CIK24		CIK40		CIK63
Second			6)\//						
Store 200w 10 10 20 25 Energy saving lamps 7W 40 50 120 160 11W 30 40 100 140 1000W 10 10 20 25 300W 6 6 13 16 1000W 1 1 4 5 1200W 13 3 8 10 133W 7 9 23 30 90W 4 5 14 19 135W 7 9 23 30 135W 7 18 26 13 135W 3 4 10 13 136W 1		incancescent iamps								
SOUN 3 3 8 10 Energy saving lamps 7W 40 50 120 160 11W 30 40 100 140 15W 20 30 85 115 20W 17 22 65 85 Halogen lamps 200W 10 10 20 25 000W 6 6 13 16 500W 3 3 8 10 1000W 1 1 4 5 4 10 13 12WW 7K 9 23 30 90W 4 5 14 19 13SW 7 9 23 30 30 30 30 30 13SW 3 4 10 13 13 14 19 140W 3 4 10 13 16 16 16 150W 5 6 1										
Image: Second										
Energy saving lamps 7W 40 50 120 160 11W 30 40 100 140 15W 20 30 85 115 Halogen lamps 200W 10 10 20 25 Halogen lamps 200W 10 10 20 25 1000W 6 6 13 16 500W 3 3 8 10 1000W 1 1 4 5 30 90W 4 5 14 19 135W 7 9 23 30 30 13 16 1000W 1 1 1 13 13 14 19 13 13 16 13 16 13 16 13 14 19 13 14 10 13 13 16 13 16 13 16 15 100W 16 13 16 10 1										
Visit 11W 30 40 100 140 15W 20W 17 22 65 85 Halogen lamps 200W 17 22 65 85 Halogen lamps 200W 10 20 25 15 300W 6 6 13 16 5 1000W 1 1 4 5 10 1000W 7 9 23 30 90W 4 5 14 19 1000W 1 140 13 14 19 13 14 19 110W 3 4 10 13 13 14 19 13 14 19 140 13 14 19 140 13 14 19 140 13 14 14 14 16 14 16 15 15 16 15 15 16 16 10 16 10										
Image: Note of the second se		Energy saving lamps								
Vertical Problem 20W 17 22 65 85 Halogen lamps 300W 6 6 13 16 300W 6 6 13 16 100 100 10 10 10 10 10 10 10 10 10 10 10 10 11 14 5 55 7 9 23 30 90 90W 4 5 15 15 15 10 13 13 13 13 13 13 13 11 1										
Halogen lamps 200W 10 10 20 25 Malogen lamps 300W 6 6 13 16 500W 3 3 8 10 1000W 1 1 4 5 Low pressure sodium-vapour lamps (uncompensated) 55W 7 9 23 30 90W 4 5 14 19 13 14 10 13 135W 3 4 10 13 16 16 17 22 High pressure sodium-vapour lamps (uncompensated) 50W 12 12 24 38 26 110W 8 7 18 26 250W 3 4 10 13 1000W - 1 3 3 3 22 36 8 100 10 10 10 10 11 16 12 135W - - 4 7 135W 1 1										
Store 300W 6 6 13 16 1000W 1 1 4 5 1000W 4 5 14 19 90W 4 5 14 13 135W 3 4 10 13 1360W 3 4 10 13 135W 3 4 10 13 1360W 3 4 10 13 136W 3 4 10 13 136W 1 1 11 16 150W 5 6 17 22 100W - - 4 7 11 11 11 16 11			20	W						85
SPOUL Solve 3 3 8 10 Low pressure sodium-vapour lamps (uncompensated) 35W 7 9 23 30 90W 4 5 14 19 180W 3 4 10 13 High pressure sodium-vapour lamps (uncompensated) 50W 12 12 24 38 110W 3 4 10 13 4 10 13 High pressure sodium-vapour lamps (uncompensated) 70W 10 10 20 30 110W 8 7 18 26 25 250W 3 4 10 13 400W 2 2 6 8 11 1 11 16 135W 1 1 11 16 3 3 22 13 12 13 12 13 12 13 12 11 16 11 16 10 14 16 12		Halogen lamps	20	W00	10	10		20		25
Image: Not pressure sodium-vapour lamps (uncompensated) 1 1 4 5 VOTUDE Low pressure sodium-vapour lamps (uncompensated) 55W 7 9 23 30 90W 4 5 14 19 34 10 13 135W 3 4 10 13 13 14 10 13 180W 3 4 10 13 14 10 13 High pressure sodium-vapour lamps (uncompensated) 70W 10 10 20 30 150W 5 6 17 22 6 8 150W 5 6 17 22 6 8 150W 1 1 11 16 16 16 133W 1 1 11 11 16 13 3 1400W 2 3 18 27 135W 1 1 11 16 16 10 16			30	W00	6	6		13		16
Image: Not pressure sodium-vapour lamps (uncompensated) 1 1 4 5 VOTUDE Low pressure sodium-vapour lamps (uncompensated) 55W 7 9 23 30 90W 4 5 14 19 34 10 13 135W 3 4 10 13 13 14 10 13 180W 3 4 10 13 14 10 13 High pressure sodium-vapour lamps (uncompensated) 70W 10 10 20 30 150W 5 6 17 22 6 8 150W 5 6 17 22 6 8 150W 1 1 11 16 16 16 133W 1 1 11 11 16 13 3 1400W 2 3 18 27 135W 1 1 11 16 16 10 16			50	W00				8		10
Vertical Low pressure sodium-vapour lamps (uncompensated) 35W 55W 55W 5W 10000 7 4 9 55W 4 23 55W 4 30 4 High pressure sodium-vapour lamps (uncompensated) 50W 12 12 12 24 38 High pressure sodium-vapour lamps (uncompensated) 50W 110W 10 00 30 High pressure sodium-vapour lamps (uncompensated) 70W 10 10 20 30 110W 8 7 18 26 250W 3 4 10 13 400W 2 2 6 8 1000W 1 1 16 1000W - 1 3 3 22 6 8 1000W - 1 1 11 16 1 11 16 90W 1 1 1 1 11 16 2 1 10 1 1 16 1 1 16 1 1 1 16 1 1 1			10	W00W		1		4		
Image image <th< td=""><th></th><td>Low pressure sodium-vapour</td><td>31</td><td>5W</td><td>7</td><td>9</td><td></td><td>23</td><td></td><td>30</td></th<>		Low pressure sodium-vapour	31	5W	7	9		23		30
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		For dimensions see page 198	. 2			5		20		

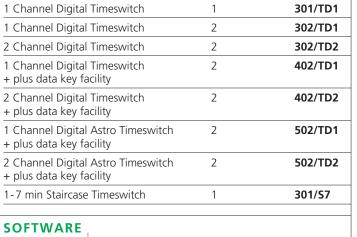
SILENT OPERATION INSTALLATION CONTACTORS

For dimensions see page 198

LIST No







MODULES

DESCRIPTION	LIST No
Software	USB/S
Data Key	4/5DK
Data Key	6DK



ANALOGUE TIMERS		
DESCRIPTION	MODULES	LIST No
24hr Analogue Quartz	1	301/TQ24
24hr Analogue Quartz	3	303/TQ24
7 Day Analogue Quartz	3	303/TQ7
24hr Analogue Synchronous	1	301/TS11
24hr Analogue Synchronous	3	303/TS24



BELL TRANSFORMER

DELL INANSFURIER		
DESCRIPTION	MODULES	LIST No
12V bell transformer	2	303/B12
6V bell transformer	1	301/B6
8V bell transformer	1	301/B8
12V bell transformer	1	301/B12
With overload protection.		
TWILIGHT SWITCH		
DESCRIPTION	MODULES	LIST No
2–2000 lux c/w sensor	3	303/P2
 Sensor to IP54. Control modules can be installed in Starbrea 	line and a sum a state of	oo wort of th

• Control modules can be installed in Starbreaker enclosures either as part of the consumer unit or separately mounted.

For dimensions see page 198

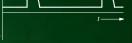


RESIDUAL CURRENT DEVICES



Pulsating dc (half wave rectified) waveform

Pulsating dc (chopped) waveform



Pulsating dc (chopped) waveform with a constant dc component

TYPE AC \sub

Normal ac waveform

Lifestar offers you the protection of Residual Current Devices (RCDs) for any industrial, commercial or domestic application. RCDs rated from 13A to 100A are available in sensitivities from 10mA to 300mA providing safe, secure protection against fire or shock risks caused by earth fault currents.



Suitable for screw fixing or DIN rail mounting. Wide range of enclosures available for separately mounting RCCBs, MCBs and RCBOs.



2 POLE RESIDUAL CURRENT CIRCUIT BREAKERS ТҮРЕ АС ╱ SENSITIVITY CURRENT RATING (A) MODULES 30mA 100mA 300mA 32 2 223/030 -40 2 224/030 224/100 224/300 63 2 226/030 226/100 226/300 80 2 228/030 228/100 -2 221/030 221/100 100 221/300

2 POLE TYPE AC TIME DELAY

	-	SENSITIVITY		
CURRENT RATING (A)	MODULES		100mA	
100	2		221/100TD	







4 POLE RESIDUAL CURRENT CIRCUIT BREAKERS

ТҮРЕ АС	-	SENSITIVITY		
CURRENT RATING (A)	MODULES	30mA	100mA	300mA
32	4	243/030	-	-
40	4	244/030	244/100	244/300
63	4	246/030	246/100	246/300
100	4	241/030	241/100	241/300

4 POLE TYPE AC TIME DELAY

	_	SENSITIVITY		
CURRENT RATING (A)	MODULES		100mA	
100	4		241/100TD	

2 POLE RESIDUAL CURRENT CIRCUIT BREAKERS

	<	SENSITIVITY		
CURRENT	_			
RATING (A)	MODULES		10mA	30mA
16	2		216/A010	-
32	2		223/A010	-
40	2		-	224/A030
63	2		-	226/A030
80	2		-	228/A030
100	2		-	221/A030

4 POLE RESIDUAL CURRENT CIRCUIT BREAKERS

	<	SENSITIVITY	
CURRENT	_		
RATING (A)	MODULES	10mA	30mA
40	4	-	244/A030
63	4	-	246/A030
100	4	-	241/A030

SP & SWN RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

RATING	MODULES	TYPE C 30mA
6	2	2FSNR063/C
10	2	2FSNR103/C
16	2	2FSNR163/C
20	2	2FSNR203/C
32	2	2FSNR323/C
40	2	2FSNR403/C

For dimensions see page 197

Crabtree

13A SAFETY SOCKETS WITH RCD PROTECTION

The Lifestar safety socket is available in 2 gang versions with 30mA sensitivity, enabling products to be precisely matched to specific applications. All safety sockets incorporate pulsating dc fault current protection (Type A operation).

- Double pole operation, 3mm contact gap.
- Trip free mechanism for automatic disconnection of supply.
- Enables mounting in standard 25mm deep box (moulded variant).
- Mechanical indication of contact position.
- Unique labyrinth switch design minimises visible arc flash and prevents front access to live parts.
- Surface mounted units supplied with Birch Grey mounting box.
- Interior units available for mounting into OEM equipment.
- Comply with BS 7288.
- RCD sockets are all passive in operation and will not trip on loss of mains supply.

Statement in the second second	Տախխյչ.	
	MOULDED	PACK QTY
	2 gang switched with neon indicator. 30mA tripping of	current 1 4406/A03
	Dimensions 146mm x 86mm Mounting boxes 9048 surface, SB665 flush galv. or	r SB629 dry lining
4406/A03		
	FLUSH METAL PLATE*	PACK QTY
	2 gang switched with neon indicator, 30mA tripping of Dimensions 146mm x 86mm Mounting boxes 9223/BG surface, SB625 flush galw * Metal plate variants available in Satin Chrome (SC), Bron Stainless Steel (PSS) – Add suffix to List No. eg 4416/A03 S For further specification details of finishes see page 202.	v. or SB629 dry lining nze (BZ) and Polished
4416/A03BZ		
	INTERIOR	ΡΑϹΚ QTY
	2 gang switched with neon indicator, 30mA tripping curre	
4416/A103	For dimensions see page 197	
	2 gang switched with neon indicator, 30mA tripping cur	PACK QTY rrent 1 4426/A03BG
	Dimensions 142mm x 82mm x 44mm	
4426/A03BG		
and the second se	FLUSH METALCLAD	PACK QTY
	2 gang switched with neon indicator, 30mA tripping cur Dimensions 146mm x 86mm Mounting boxes 9223/BG surface, SB625 flush galv	
4416/A03BG		

All complete with two earth terminals.

LITERAL

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FETY SOCKETS

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DIN ENCLOSURES

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35mm DIN rail enclosures to accept modular devices.

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IDDIE AIA

LIST No 744/3

CBE/3









MODULAR ENCLOSURES

3 MODULE

DESCRIPTION

General purpose enclosure (IP20)

• Complete with DIN rail.

- Supplied with cut-out of 2 module size.
- Converts to 3 module by removing half blanks.
- All purpose enclosure (IP65)
- Complete with DIN rail.
- Features sealable cover and hinged protective cover.
- Polycarbonate construction.
- Accessories available.
- Self-adhesive way label provided.

Note

Max cable capacity 10mm². For increased cable sizes use 4 module enclosure List No. **CBE/4** (up to 25mm²).

4 MODULE	
DESCRIPTION	LIST No
General purpose enclosure (IP20)	744/4
 Complete with DIN rail. Supplied with cut-out of 3 module size. Converts to 4 module by removing half blanks. 	
All purpose enclosure (IP65) CBE/4	
 Suitable for all ratings. Complete with DIN rail. Features sealable cover and hinged protective cover. Polycarbonate construction. Accessories available. Self-adhesive way label provided. 	
Fabricated steel enclosure (IP20)	844/4
 Suitable for all ratings. Complete with DIN rail and earth terminal. 	

• Supplied with blank plates for converting to 2 module opening.



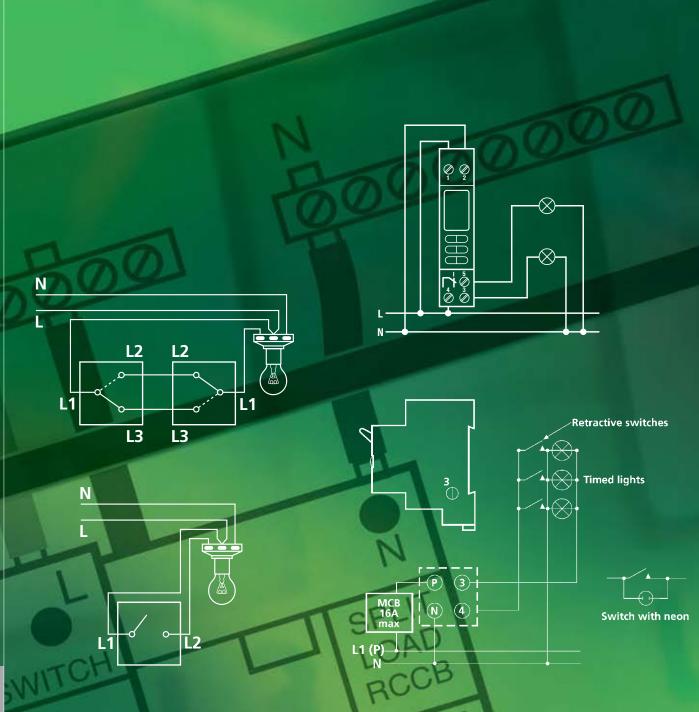
ACCESSORIES FOR ALL PURP	OSE ENCLOSURES
EARTH TERMINAL	LIST No
5 way, 3 module	CBE3/EK
7 way, 4 module	CBE4/EK
NEUTRAL TERMINAL	
5 way, 3 module	CBE3/NK
7 way, 4 module	CBE4/NK
Blanking strip	CBE/BS
External fixing bracket	ME/FB

Dimensions see page199.

TECHNICAL DATA



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IP RATINGS

The IP (International Protection) rating given to an enclosure states the degree of protection it offers by means of two digits. A summary of these is shown below; for a more detailed definition, see IEC 529: 1989, BS EN 60529: 1992.

FIRST DIGIT

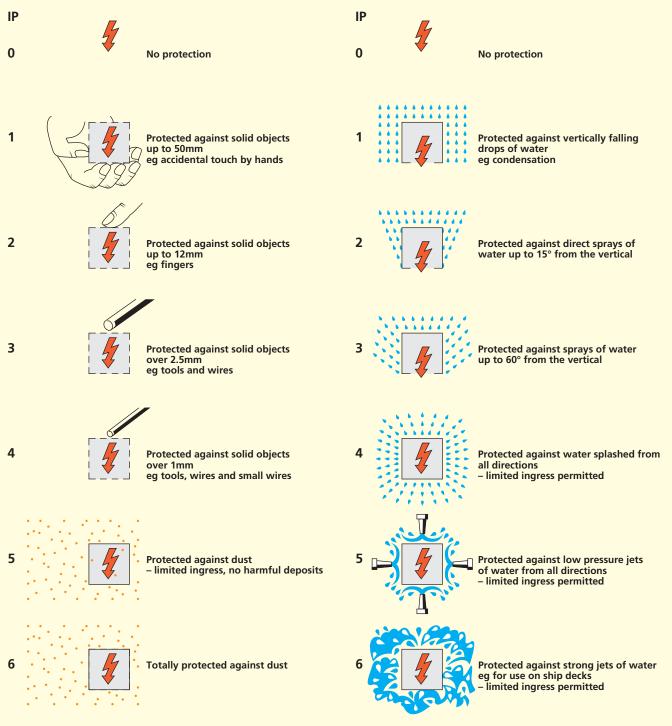
Protection against solid foreign objects and access to hazardous parts

The first digit covers protection against penetration by solid objects, which includes hands and tools such as screwdrivers. At the lowest of seven levels, 0, no protection is offered, either of the equipment itself from damage by intrusion or of a person contacting live or moving parts. At the highest, 6, there shall be no entry of dust.

SECOND DIGIT

Protection against ingress of water

The second digit covers the degree of protection against the entry of water, on a progressive scale. For example, number 1 indicates that dripping water shall have no harmful effect, and number 6, that water projected in powerful jets against the enclosure from any direction shall have no harmful effects.



The letter X can be used in place of the first or second digit to indicate that tests have either not been made or are not applicable.

NOTE

In the event of additional holes being drilled/pierced or knockouts removed, suitable measures should be taken to restore the products to the original ratings.

IEC 529, BS EN 60529 does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gases, fungi or vermin. In certain cases equipment designed to be mounted in an enclosure will contribute towards the stated IP rating (eg pushbuttons mounted in an enclosure). Different parts of enclosures can have different degrees of protection and still conform to the standard (eg enclosures with pre-drilled conduit entry).

WIRING ACCESSORIES – GENERAL

BRITISH STANDARDS

An unqualified reference to the British Standards in this product catalogue indicates that the products referred to are marked with the British Standard and therefore comply in all respects with the standard stated.

Where a qualification is given against the British Standard, eg BS 3676 where applicable, this means that there is no specific standard for the product in question and it has been tested as far as possible for compliance with the standard indicated.

TERMINAL CAPACITIES (mm²)

Product	Quantity and gauge of cable accepted by terminals
13A Capital/Platinum socket outlets	
13A Capital safety sockets	3 x 2.5mm ² , 2 x 4mm ² , 2 x 6mm ²
13A Capital/Platinum fused conn. units	
13A Panel mounting socket	3 x 2.5mm², 2 x 4mm², 1 x 6mm²
10AX Capital/Platinum plate switches	4 x 1mm², 3 x 1.5mm²,
10A Capital architrave switches	1 x 2.5mm ²
20A Capital/Platinum DP switches	3 x 2.5mm², 2 x 4mm²,
32A Capital/Platinum DP switches	1 x 6mm ² , 1 x 10mm ²
32A Capital TP & N switches	2 x 6mm², 1 x 10mm², 1 x 16mm²
45A Capital/Platinum DP switches	
50A Capital DP switches	
45A Capital/Platinum cooker control units	2 x 6mm ² , 1 x 10mm ² , 1 x 16mm ²
Capital/Platinum shaver supply unit	
Capital light/shaver unit	4 x 1mm ² , 3 x 1.5mm ²
6A Capital ceiling switches	
16A Capital ceiling switches	2 x 2.5mm ² max
	3 x 2.5mm², 2 x 4mm²,
50A Capital ceiling switch	1 x 6mm ² , 1 x 10mm ² ,
Capital ceiling roses	4 Faran 2 and Minary
Capital safety batten lampholder	1.5mm ² multiway
Capital safety pendant lampholder	1 x 1mm ² flexible cable
16A Minder PIR sensor	6 x 1mm², 4 x 1.5mm², 2 x 2.5mm²

6A TP ISOLATING SWITCH

LIST No. 4017, 4017/1, 6017/__, 7017/__, 1017/1__, IN/3017/1__& 4587/BG

Complies fully with requirements of BS EN 60947-3 for switch disconnectors.

Rated SC making capacity Rated conditional short circuit current

Rated insulation voltage Rated impulse withstand voltage Rated duty Maximum switching rate Rated short time withstand current Utilisation category 300A 6kA (when protected by Starbreaker 6A mcb) 300V 2.5kV Uninterrupted 120 switch cycles per hour 100A for 1 second AC 23B, 6A 250V 50Hz

A POINT ON TESTING

When installations incorporating electronic devices of the semi-conductor type are being tested, care must normally be taken to ensure that they are not subjected to the output voltage of an insulation tester. However, dimmer switches complying with BS 5518 will not be damaged by the application of a normal 500V insulation resistance test. In all other cases where electronic items are fitted, they should be disconnected whilst the insulation of the installation is tested. A notice, drawing attention to the fact that electronic devices are incorporated in the installation, should always be affixed at the intake position. This also applies to any neon indicators fitted.

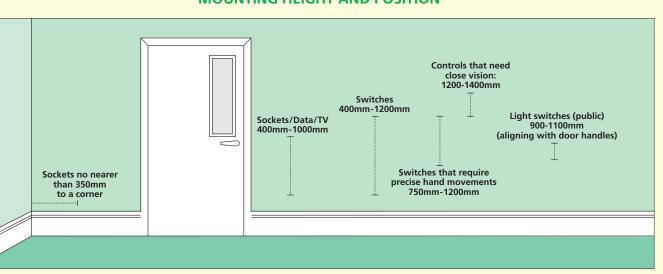
BUILDING REGULATIONS APPROVED DOCUMENT PART M - ACCESS TO AND THE USE OF BUILDINGS

There are a number of considerations that need to be met by the specifier or contractor of a buildings installation when covering reasonable provision for the access to and use of a buildings structure and facilities for a disabled person whether visiting, working or dwelling in them. Crabtree have continually been introducing and developing products throughout their range of wiring accessories to enable compliance with Part M.

Part M can be split into four sections:

● Height ● Visibility ● Operation ● Freedom from obstruction

MOUNTING HEIGHT AND POSITION



- Socket outlets, Telephone points and TV sockets are mounted at 400 - 1000mm with a preference for the lower range.
- Switches should be mounted at 400 1200mm unless needed at a higher level for particular appliances.
- Switches and controls that require precise hand movement (eg: Central Heating Controls) at 750 -1200mm.

DESIGN CONSIDERATIONS

- There should be a consistent relationship with the doorways and corners to reinforce the ease with which people manipulate switches and controls.
- All users should be able to locate a control, know which setting it is on and use it without inadvertently changing its setting.
- Controls that contrast with their surroundings are more convenient for the visually impaired as are light switches that are activated by a large touch pad.

Visibility

- Front plates should contrast visually with their backgrounds.
- Mains and circuit isolator switches should indicate clearly if they are on or off.
- Switched socket outlets should indicate whether they are on.

Some may consider these requirements refer to the complete product contrasting with a wall, whilst others

- Controls that need close vision at 1200 1400mm so that readings may be taken by a person sitting or standing.
- Light Switches for use by the general public align horizontally with door handles within the range 900 1100mm.
- Sockets no nearer than 350mm from room corners.
- It is an advantage if individual switches on panels and multiple socket outlets are well separated, or in the form of large touch plates to avoid the incorrect selection of an adjacent control by visually impaired people and people with limited dexterity.
- The colours red and green should not be used in combination as indicators of "on" and "off" for switches and controls. It may be useful to use text or a pictogram to clarify.

may consider it is the switch that should contrast with its frontplate. The regulation states that switches, outlets and controls will satisfy requirement M1 if: front plates contrast visually with their background.

The Crabtree Seek light assists in locating light switches in the dark.

Crabtree have considered both options in their product range of Platinum, the products can either have contrasting rocker to frontplate which then could contrast with the back wall, or just contrast of frontplate and wall.

Captree

BUILDING REGULATIONS APPROVED DOCUMENT PART M - ACCESS TO AND THE USE OF BUILDINGS

Operation

• Light switches, which are to be used by the general public are encouraged to have large rockers at a height corresponding to the door handle, within the 900 - 1100mm range.

This would enable people with a physical disability or visual impairment to both locate and activate them easily.

The Crabtree range of electrical wiring accessories all come with a large concave rocker, with the 'Corinthian' range having an extra wide rocker.

Freedom from obstruction

- Light switches and controls should be 'well separated' or activated by a large push pad to prevent inadvertent operation.
- The operation of switches, outlets and controls does not require the simultaneous use of both hands, except where this mode of operation is necessary for safety reasons.

Where several switches on panels are required. In addition the Crabtree Rockergrid range provides a wide choice of switch options.

CRABTREE PRODUCT SELECTOR



Corinthian

A range of wide rocker 10AX lighting switches with clip on surrounds that can be provided in alternative colours to meet a variety of LRV values.

Seek Light

The Crabtree Seek Light as shown above assists in the location of the light switches in the dark. Seek light comes on when the switch is turned off. Seek light fits all Crabtree 1 gang switches. The circuit has been designed to reduce the pulse effect of the LED light and give a constant light source.



Rockergrid

This modular system of boxes, grids, plates and switches can be quickly and easily assembled to customers' individual specifications enabling several circuits to be controlled from a single position.

The switches are a modular design that has a large concave rocker with a barrier between to avoid inadvertent selection of adjacent controls.



Platinum White Moulded

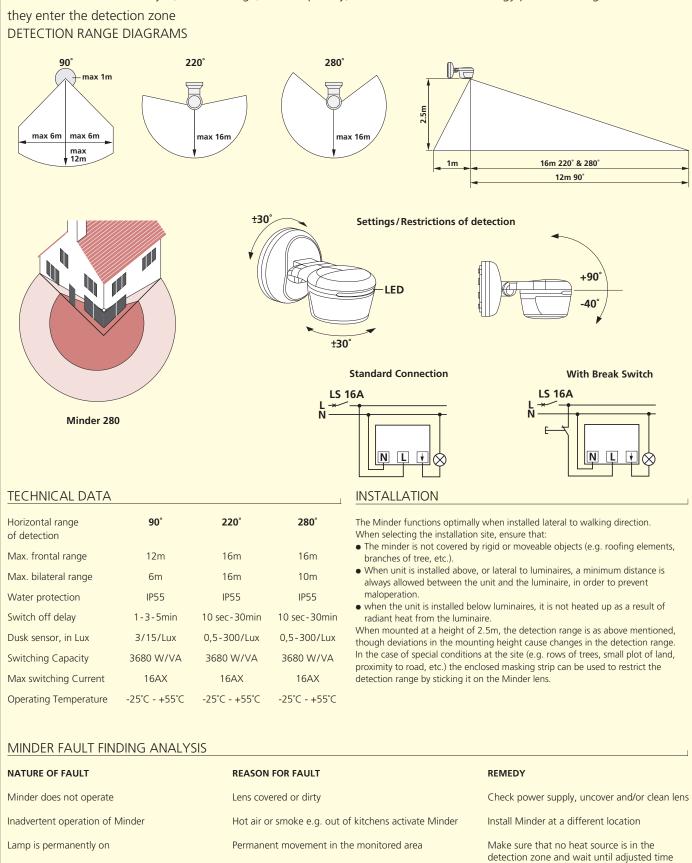
A range of power, control and lighting accessories offering a low profile clip on moulded front plate.

This range can be supplied with alternative colour front plates to contrast with the moulded rocker or can be combined with the Platinum decorative plates and interiors to provide a visual contrast.

Although the product ranges mentioned aim to meet the design considerations for Part M compliance, Crabtree would be prepared to discuss any future development on a project by project basis and assist, where possible, with any other requirements.

MINDER PASSIVE INFRA RED SENSORS

The Minder is a multi-adjustable, passive infrared movement detector. People and animals radiate heat, which is invisible to the human eye (infrared range). Consequently, the recorded infrared energy pattern changes when



Minder is bridged to manual operation by additional switch

lapse has run down.. For control purposes, please cover the lens completely.

Switch to automatic operation

RS

PIR SENSO

ECHNICAL DATA

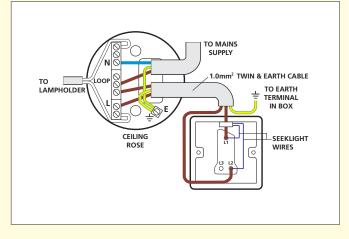
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SEEKLIGHT

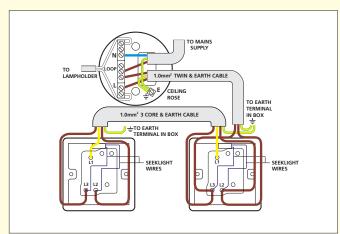
- 1 Before commencing work switch off the power supply by removing the fuse in the fuse box, or should isolate at main switch as neutral is a live conductor.
- 2 Connect seeklight wires as shown in diagrams below. Ensure terminal screws are properly tightened and no bare wire is visible. Push back unit into mounting box making sure conductors are not trapped.
- 3 Screw the unit to the mounting box.
- 4 Note: With the standard wiring configurations as described in the diagrams the Seeklight will only illuminate when the light it controls is off.
- 5 These products must be installed in accordance with the latest Building and IEE wiring regulations. If in any doubt, please contact a qualified electrician

PLEASE NOTE The LED 'Seeklight' must be disconnected when carrying out insulation testing to avoid a false reading

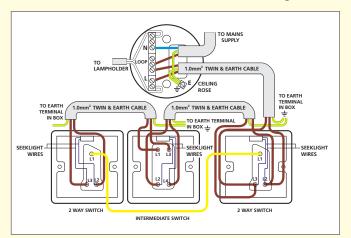
1 Gang 1 Way 10AX Switch with Seeklight



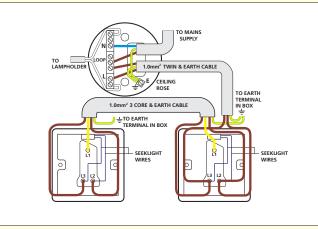
2 Gang 2 Way 10AX Switch with Seeklight



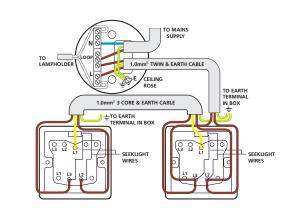
10AX Intermediate Switch with Seeklight



1 Gang 2 Way 10AX Switch with Seeklight



3 Gang 2 Way 10AX Switch with Seeklight



GRID DIMMER

GRID LED BACKLIGHT ILLUMINATION





LED Illumination with Dimmer knob fitted



Dimmer shown fitted to Grid

Dimmer knob SPECIFICATION AND PERFORMANCE

LED Illumination without

Model No. (2-way Push Sw) See Page 89 for Selection Rated Voltage /V ac Supply Frequency /Hz Rated Current /A Rated Power /W & VA Neutral Required No Fluorescent compatible No GU10 Mains Halogen compatible Yes LV Transformer compatible 2 Way Switch Turn On/Off operation style **Dimming operation Outline Dimensions** Standards & Approval **Special Feature RoHS** Compliant Yes

230-240V ac - 10% +6% 50Hz / 60 Hz 1.5A max. 60W to 250W & 60W to 400W Yes, Limited Electronic & Electromagnetic Standard Two-Way switch for On/Off function Push On/Push Off Full rotary travel by smooth turning See Drawing EN60669-2-1, EN55015, EN61547, EN61000 Blue LED backlight option

ENERGY SAVING CARD SWITCH

BS 60669-12



Card switch shown illuminated. Insertion of the card turns the neon off. Ideal for helping locate card switch in hotel corridors. Available in Crabtree Capital moulded, Capital Metal Plate & Platinum Low Profile.

Controls energy consumption in installations such as hotels by ensuring that appliances are not left on when rooms are unoccupied.

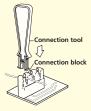
Mains Voltage Card Switch is operated by a door entry card and controls the supply to a room via a suitably rated contactor. Will accept door entry cards up to 86mm x 54mm x 1mm.

CAPITAL TELEPHONE SOCKET OUTLETS

The Crabtree Capital range of Telephone Socket Outlets has been developed primarily for use in telephone systems using British Telecom standards. The products are similar in specification to units available from British Telecom.

TERMINATIONS

All telephone outlets should be wired in accordance with the wiring diagrams shown below. Connection of these telephone outlets is by the IDC (Insulation Displacement Connection) method allowing one or two equal size cables (0.40–0.68mm) to be terminated per connection block, using Crabtree connection tool List No.6915 as shown below.



Allow 50mm cable 'tails' at each connection block Push home in direction of arrow with connection tool

Excess cable may be trimmed using wire cutters

WIRING COLOUR CODE

Pin number	Base colour/stripe
1	Green/White
2	Blue/White
3	Orange/White
4	White/Orange
5	White/Blue
6	White/Green

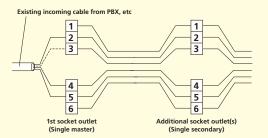
WIRING DIAGRAMS

Example of typical connections:

1 Connections to 2 & 5

As seen from rear

- 2 Earth recall (when used) connect to terminal 43 Connection to terminal 3 is not usually required
- S Connection to terminal 5 is not usually require
- NB (a) Standard 4 wire cable is shown below as incoming cable. If terminals 1 and 6 (normally unused) are required, 6 wire cable may be used.
 (b) All as dot as distance triane and in a second s
 - (b) All socket outlet connections are in parallel any number of socket outlets can be connected, but it is recommended that only a maximum of 5 telephones be used at any one time on one line.



WARNING NOTES

In order to comply with current Wiring Regulations, metal faceplate telephone socket outlets must be within the 'equipotential zone' of the building they are located in. Therefore an earth terminal is fitted to metal plate units which should be connected to the electrical installation's earthing system.

Testing

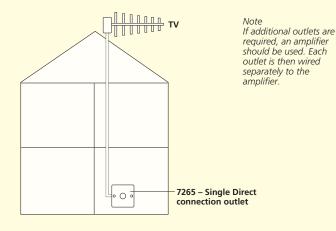
- (a) Connect cables as shown in wiring diagram
- (b) Plug in telephones
- (c) Lift receivers and check for dial tone
- (d) Make an incoming call to check bells work
- (e) If circuit does not work, disconnect and check thoroughly before reconnecting

Note

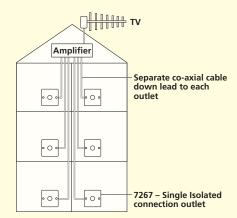
Unauthorised connection of telephone socket outlets to wiring owned by British Telecom is an offence. Further information concerning the requirements of a telephone system installation can be obtained from the Department of Industry or the telephone equipment supplier.

CO-AXIAL SOCKET OUTLETS

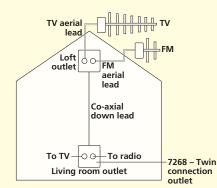
In order to comply with the latest EMC directives, all installations containing amplification systems or comprising multiple co-axial socket outlets must be fitted with appropriate earth bonding. Isolated Co-Axial Sockets are isolated 2kV.



Single connection outlet Domestic installation



Co-axial outlet installation Communal aerial system eg flats, hotels etc



TV/FM outlet installation

TV and FM aerial connections use a twin connection outlet (7268) and one co-axial down lead. 1 Fit a co-axial connector to the TV and FM aerial cables 2 Plug connectors into 7268 in loft. *3* Connect a co-axial cable run between back of 7268 in loft and back of 7268 in the living room, then plug TV and FM radio into front of plate.

Crabtree

LUMINAIRE SUPPORT COUPLERS



Technical details:

 Terminal capacity: 4x2.5mm², 2x4mm², 1x6mm² per outlet terminal

 Standards:
 BS7001

 BS5733 general electrical requirements

 Note: BS 6972 only covers LSC's rated upto 6A 250V

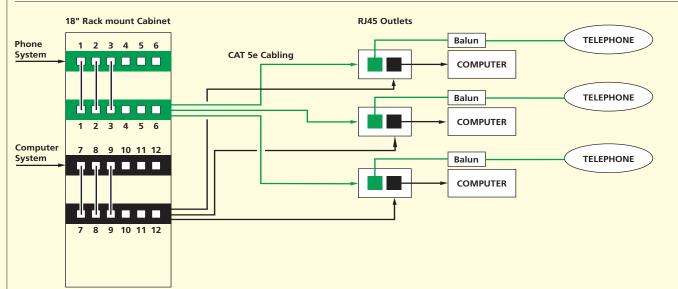
 Rating:
 max 10A 250V per socket, 16A max per distribution box

 Static load:
 5kg

The LSC is forming an integral part of design installations for many major projects. In new installations the specifier may choose LSCs to offer a versatile lighting system. However, in projects where refurbishment is being undertaken the LSC system is seen as an ideal cost effective solution where hard wiring may already be in place.

5012 rear view

DATAPAK TYPICAL USE OF PATCH PANELS, PATCH LEADS & DATA OUTLETS



TELECOM MODULES

Master voice module - BT 601 master IDC connectors (Krone style) Capacitor, lightning protection, resistor PABX voice module - IDC connectors

Capacitor, no lightning protection, (resistor optional)

Secondary voice module - IDC connectors

Master voice module (left handed) - BT 601 master IDC connectors Capacitor, lightning protection, resistor Accepts left handed plug

DATA MODULES

- RJ45 Cat 5e IDC connector blocks
 - Colour coding socket/cable/patch panel
 - Tie wrap facility Use as socket on ISDN system, multiple sockets "daisy-chained"
- ISDN Terminated (blue shutter) RJ45 socket with 100 ohm resitor between pins 4 & 5 and one between pins 3 & 6 Ratio 8:1 use
- RJ11/12 clasified as data outlet, but used as telecom socket in Eire & USA No capacitor accepts 6p6c plug (RJ12) and 6p4c plug (RJ11)

MEDIA MODULES AND ACCESSORIES

Triplex unit - TV/SAT/FM splitter. One cable in, carrying combined signals, splits signal back into 3 parts. Each socket is screened, reducing susceptability to noise distortion thus improving picture reception. 50mm x 50mm (double mod size)

- TV return screened TV module, used in conjunction with a distribution amplifier to distribute signals to other rooms
- BNC (female) accepts BNC male plug, 50 ohm or 70 ohm, as found on co-axial data systems (RG58, Ethernet) and CCTV installations.

BAND WIDTH/CAT

Cat 4 -	20Mhz
Cat 5 -	100Mhz
Cat 5e -	160Mhz
Cat 6 -	250Mhz

CAPITAL



Capital Bronze (BZ) Base metal Mild Steel

Process 1 Linished and brushed 2 Electrophoretically lacquered 3 Stoved



Capital Satin Chrome (SC) Base metal Mild Steel Process 1 Linished and brushed

2 Nickel-chrome plated
2 and lanolin wiped



Highly Polished Chrome (HPC) Base metal Mild Steel

Process 1 Polished plate 2 Electrophoretically laquered 3 Stoved



Capital Polished Brass (PB) Base metal Mild Steel Process 1 Polished plate 2 Electrophoretically laquered 3 Stoved



Polished Stainless Steel (PSS)Base metal Stainless SteelProcess1 Polished plate



Industrial Grey (BG) Base metal Mild Steel Process 1 Iron phosphated 2 Epoxy polyester powder coated



Stainless Steel (SS) Base metal Stainless Steel

PLATINUM LOW PROFILE



Satin Chrome (SC) Base metal Mild Steel White interior as standard



Polished Brass (PB) Base metal Mild Steel Black interior as standard



Highly Polished Chrome (HPC) Base metal Mild Steel Black interior as standard



Black Nickel (BKN) Base metal Mild Steel Black interior as standard

PLATINUM FLAT PLATE



Stainless Steel (SS) Base metal Stainless Steel White interior as standard



Polished Brass (PB) Base metal Mild Steel

Black interior as standard



Polished Stainless Steel (PSS) Base metal Stainless Steel Black interior as standard

CFL COMPACT FLUORESCENT LAMPHOLDER

The design of the Lampholder accepts an industry standard 4 pin 10,13 and 18W G24q¹ and q² lamp. This reduces the power consumption, when compared to an equivalent incandescent lamp, by up to 80%.

The Lampholder is designed to European standards and has a diameter of 42mm, which is larger than the typical Lampholder which is 29mm.

A Safety feature which protects the installation will disconnect the supply to the Lampholder:-During a lamp change, when no lamp is present, or in the case of lamp failure at the end of lamp life. This Safety feature is reset by switching the supply to the fitting off for 10 to 15 seconds. Prabtree

Crabtree wiring accessories prefixed with AM have all been independently tested to BS ISO 22196:2007, which is for the measurement of antibacterial activity on plastic surfaces.

Crabtree use Biocote technology which has undergone 25 years life cycle testing.

The Heartlands study showed a 94.5% reduction in bacteria on Crabtree products as opposed to other untreated switches/sockets.

BIOCOTE REDUCES BACTERIA LEVELS BY OVER 95% IN WARD AT HEARTLANDS HOSPITAL

The first ever study to investigate the effectiveness of silver at reducing levels of bacteria in an environment has published its initial findings. The environmental trial compares two out-patient wards in the Heart of England NHS Foundation Trust, one at Heartlands Hospital, containing furniture and equipment with BioCote[®] antimicrobial protection and one containing standard, untreated items.

BioCote[®] protected products contain silver, a natural antimicrobial, with a high Efficacy against bacteria, mould and fungi. When micro-organisms come into contact with the silver, their ability to reproduce is inhibited and they die.

Results from the trials show that **the facility at Heartlands**, which contained BioCote[®] protected products had 95.8% less bacteria present in the environment, than the standard ward with no BioCote[®] present. The products tested in the trials included waste bins, blinds, tiles, door handles and light switches.

Initial indications show that using silver-based products in a hospital environment can lead to a reduction in bacterial colonisation, resulting in a more hygienic environment for patients. With fewer bacteria in the environment, it is logical that the risks of cross contamination are reduced and consequently the risks of patients being infected with "superbugs" such as MRSA are reduced.

In addition, the results showed that **within the facility at Heartlands, furniture and equipment with BioCote® protection harboured 92.6% less bacteria than those without protection.** These results prove that silver can complement cleaning and hygiene practices, working in-between cleans to reduce levels of bacteria on BioCote® protected equipment.

The study also showed that BioCote[®] protected products can help reduce bacteria counts on unprotected product s within their vicinity, thus reducing the overall levels of bacteria in the complete environment. **Standard equipment** and furniture which were in the ward alongside BioCote[®] protected products saw a 43.5% reduction in bacteria on their surfaces, than standard products in the ward without Biocote[®].

The collaboration between the Heart of England NHS Foundation Trust and BioCote Ltd began in May 2006, when Heartlands Hospital was the first in the UK to equip an out-patient facility with furniture and equipment that had BioCote antimicrobial protection. As soon as the facility had been in use for 12 months, tests began to compare the products with and without BioCote[®] protection and also to compare the facility to a similar ward which only contains standard hospital equipment.

To make the study as consistent as possible, both environments were out-patient wards with a similar through-flow of patients. All testing was carried out at an independent laboratory. The study has concentrated on bacteria counts on the surface of objects, in the form of Total viable count and does not identify actual organisms at this stage.

The Managing Director at BioCote Ltd comments, "We believe that this initial study in conjunction with the NHS helps to justify the use of BioCote[®] protected products. These initial findings indicate that the NHS should be increasing their use of BioCote[®] protected products to help support hygiene practices within healthcare environments, leading to reduced HCAI rates".

With NHS Trusts facing increased pressure from The Healthcare Commission to improve hygiene standards, BioCote[®] protected products can complement cleaning and hand hygiene practices by lowering bacteria counts in ward environments.

STANDARDS

Manufactured to comply with the requirements of BS4678: Part 4 (1982) and BSEN 50085-1 (1999). The Electrium group of companies is registered for assessed capability to ISO 9001: 2000 & ISO 14001: 2004. The WARWICK range complies with all requirements of the 17th Edition of the IEE Regulations.

MANUFACTURE

All trunking components are manufactured from PVCu material. Base sections, covers and bus-bar base sections are extruded.

Bends, corners, stop ends, joint covers and accessory boxes are formed by injection moulding. Flat angles and tees are factory pre-fabricated from standard profiles.

STRENGTH

High impact resistant. The material is formulated to comply with BS4678 Part 4 (1982). Temperature classification -5 to +60°C for permanent application range.

FINISH

Manufactured in White Semi-gloss finish.

FIRE RESISTANCE

The PVCu used in WARWICK trunking is non-propagating and complies with the requirements of BS476 parts 5 & 7 and BS4678 Part 4.

DEGREE OF PROTECTION

IP4X

THERMAL PROPERTIES

Water Absorbtion	_	Negligible
Mineral Acids	_	Excellent
Detergents		Excollopt

Detergents – Excellent Note:

Some solvents such as Ketones, Aromatics and Hydrocarbons should not be used on PVC trunking

CABLE CAPACITIES

Please refer to the IEE Wiring Regulations 17th Edition

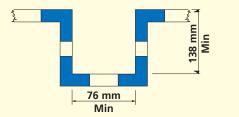
INSTALLATION RECOMMENDATIONS

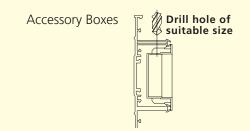
- 1) The base section and extension base (if used) should be plug and screw fixed to the wall ensuring washers are used behind the screw head for a more secure fix.
- 2) All joints should have a 5mm gap to allow for expansion and base section corners should be mitred. The cutting of the base sections is not critical as the manufactured fittings cover the joints and overlap the trunking lids.
- 3) For cutting it is recommended that a fine tooth tenon or hacksaw is used. Use a sharp knife or file for trimming.
- 4) Socket and data boxes can be positioned and wiring can begin.
- 5) On completion of all wiring, the covers, joint covers etc can be inserted.
- 6) Finally, all power/data/telephone accessories can be wired and fixed.

The Earth Loop Impedance Test can now be carried out.

INSTALLATION TIPS

Installation around columns.



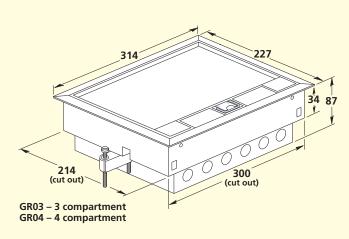


All boxes are on the same plain. Therefore, holes should be drilled from top or bottom to accommodate data and telephone cabling.

BRITMAC FLOOR DISTRIBUTION SYSTEMS



GROSVENOR 'FAST FIT' RAISED ACCESS FLOOR BOXES



Materials

All systems are constructed from high quality materials and are designed to meet relevant British and International Standards including the installation requirements of the IEE Wiring Regulations.

Raised Access Floors

Throughout this catalogue the term Raised Access Floor has been used to describe any modular flooring system which is supported on adjustable pedestals providing a service void. Other names frequently used are Cavity Floor, False Floor, Platform Floor, Access Floor, Computer Floor, etc.

GROSVENOR RAISED ACCESS FLOOR BOXES

Floorboxes

The Grosvenor floorbox has been designed to withstand working loads of the PSA MOB PF2 PS/SPU specification for raised floors.

The floorboxes listed within this catalogue are capable of accepting a very wide range of accessories fitted in any compartment. However, certain combinations do impose restrictions on positioning, due to the clashes of connectors, plug tops or the cables themselves.

Accessories

All accessory plates are supplied complete with the appropriate thread cutting screws. Each fixing hole in the unit frames is unthreaded and deep plunged for ease of location of fixing.

The minimum plug clearance between accessory plate and underside of floor is 34mm.

POWER (13A)

Twin Earth sockets. Non-standard sockets. Clean Earth sockets.

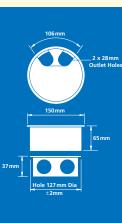
TELEPHONE

Components for most British Telecom, Mercury and other national and international systems.

DATA

A wide range of components to suit virtually all systems in current use. These include IBM, Wang, Phillips, ICL and many others.

All dimensions in mm Tolerance on cut-out dimensions is ±1mm

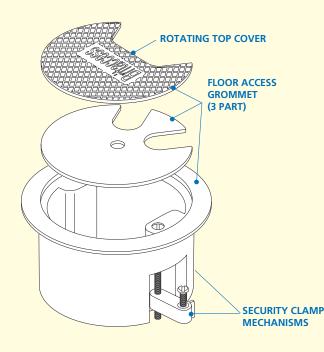


SPECIFICATION Top Element (Grommet Only)

Dimensions:

O/A Diameter Internal Diameter 120mm Depth Material: **Colour:**

150mm High Impact ABS RAL 7016



Conditional Short Circuit Rating

TRACK

Short circuit protection provided by fuselinks $\mathsf{BS-88}$ and BS 1361 100 amp maximum.

Prospective current16.5kAMechanical withstand10kA peakThermal withstand1200A for 0.1 seconds

TAP-OFF UNITS

Mechanical withstand 10kA peak Thermal withstand 1200A for 0.1 seconds

Earth Fault Loop Impedance (measured at 1.0A)

The IEE Wiring Regulations require accurate determination of the total earth loop impedance, which must be low enough to ensure that the protective device will operate within the specified time, which for circuits incorporating socket outlets is 0.4 seconds. The values for the Britmac System for calculating the earth fault loop impedance are as follows:

Phase busbar	1.97mV/m
Earth busbar to housing	1.38mV/m
Earth busbar (Clean Earth)	1.97mV/m
Track connector	0.37mV
Supply connector	0.24mV
32A tap-off (4mm ² x 3m), line	9.92mV

Volt Drop, Combined Phase & Neutral (measured at 1.0A)

Busbar (line & neutral)	3.94mV/A/m
Track connector	0.74mV/A
Supply connector	0.48mV/A
32A tap-off (4mm ² x 3m), line & earth	19.84mV/A/m

Cable Capacity of Terminals

Supply connector 16mm² csa stranded conductor

Construction

TRACK

Body extrusionGalvanised SteelTrack baseGalvanised steelBusbarHigh conductivity copperDegree of protectionTrack IP4X; In-feed housing IP3X C

TAP-OFF UNITS

Standard, Clean Earth and Dual Track tap-offs are non-interchangeable. All types available in fused and unfused versions.

32A tap-off unit

The 32A tap-off is unfused with 3 metres of 16mm diameter flexible conduit and 4mm² cables to BS 6004:2000 which are terminated in the tap-off via welded connections.

Fused tap-off unit

Required where conduit lengths greater than 3 metres are used. The tap-off unit is used as standard at 13 amps and is fitted to the specified length of 16mm diameter conduit and 2.5mm² cables to BS 6004:1995 which are terminated in the tap-off via welded connections. The flexible conduit is manufactured to BSEN 50086-1

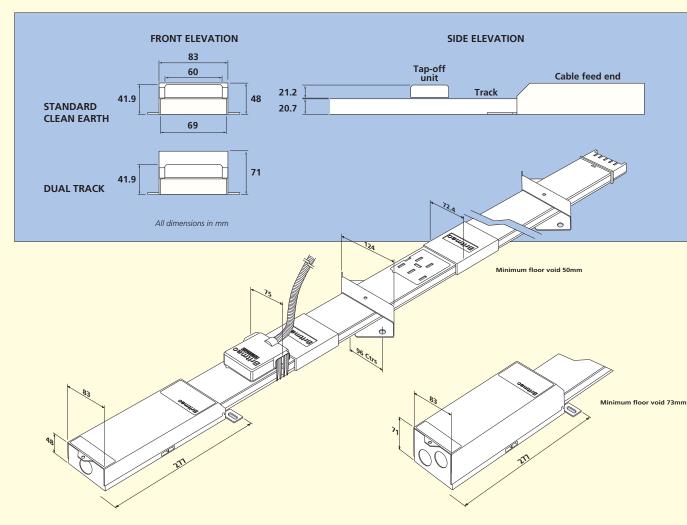
STANDARDS

BSEN 60439: Part 1 & Part 2.

The track system enables compliance with the latest IEE Wiring Regulations, BS 7671:2008.

TRACK CURRENT RATING

63 amps, 240V ac; 50Hz single phase ambient temperature 25C.



MINIATURE CIRCUIT BREAKERS

Crabtree MCBs comply fully with BS EN 60898 and therefore enable the requirements of BS 7671 to be met.

TYPE CLASSIFICATION

BS EN 60898 specifies different tripping characteristics for different types of MCB, depending on the level of overload current required to make the MCB trip out in less than 100 milliseconds. Crabtree MCBs within this publication are available as types B and C, enabling installation designers to choose an MCB with a characteristic closely matched to the circuit requirement.



FAULT LEVELS

Regulation 432.1 of BS 7671 requires that a device providing protection against overload currents and fault currents shall be capable of breaking any overcurrent up to and including the prospective fault current at the point where the device is installed.

In domestic situations this could be as high as 16kA, in industrial situations it could be even higher.

According to regulation 434.5.1, the prospective fault current can be higher than the breaking capacity of the protective device if another protective device having the necessary breaking capacity is installed on the supply side. This means that MCBs can be backed up by devices of greater capacity such as HRC fuses.

When providing back-up protection, consideration must be given to discrimination. Discrimination is said to occur when the device nearest the fault operates first.

AMBIENT TEMPERATURE CONSIDERATIONS

Starbreaker and Loadstar MCBs are calibrated to meet the requirements of BS EN 60898, 30°C Reference Calibration Temperature. At other temperatures the following rating factors should be used:

At 40°C 0.9 At 20°C 1.0 At 0°C 1.1

Adjacent thermal-magnetic MCBs should not be continuously loaded at or approaching their nominal rated currents when mounted in enclosures. It is good engineering practice to apply generous de-rating factors or make provision for adequate free air between devices. In these situations, and in common with other manufacturers, we recommend a 70% diversity factor is applied to the MCB nominal rated current where it is intended to load the MCBs continuously (in excess of 1 hour).

OPERATING CHARACTERISTICS FOR MCBs

MCB type	BS EN 60898 type	Instantaneous trip current range	Typical application
3	В	3–5 <i>I</i> n	Domestic
C	С	5–10 <i>I</i> n	Commercial Light Industrial
D	D	10–20 <i>I</i> n	General Industrial
1*	_	2.7–4 <i>I</i> n	Domestic
2*	-	4–7 <i>I</i> n	Commercial
3*	_	7–10 <i>I</i> n	General Industrial

* MCBs, type 1,2 & 3 to BS 3871

FAULT PROTECTION

BS 7671, formerly the IEE Wiring Regulations requires that measures are taken to protect against the risk of electric shock, which can be the result of contact with live parts.

MCBs can be used in conjunction with earthed equipotential bonding to achieve disconnection times of 0.4 seconds (411.3.2.2) for final circuits not exceeding 32A and 5 seconds (411.3.2.3) for final circuits exceeding 32A (TN Systems).

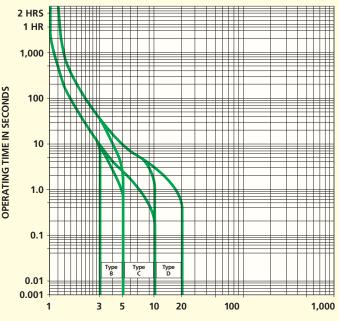
EARTH FAULT LOOP IMPEDANCES ($Z_{\rm S}$ OHMS) TO GIVE COMPLIANCE WITH BS 7671 REGULATION 411.3.2.2 AND 411.3.2.3 AT 230V

Maximum earth fault loop impedance in ohms for instantaneous operation of devices giving compliance with the 0.4 second disconnection time of Regulation 411.3.2.2 and 5 second disconnection time of Regulation 411.3.2.3.

		1	RATINGS	5				
DEVICE	BS EN	6A	10A	16A	20A	32A	40A	50A
МСВ Туре В	60898	7.666	4.599	2.874	2.299	1.439	1.149	0.919
МСВ Туре С	60898	3.829	2.299	1.439	1.149	0.719	0.569	0.459
RCBO 30mA Type B	61009	1667	1667	1667	1667	1667	1667	1667
RCBO 30m Type C	61009	1667	1667	1667	1667	1667	1667	1667

 The values in these tables should be modified to allow for the cable temperature at time of test

 RCBO values reflect the rated residual operating current characteristics of the device (table 41.5). For the overcurrent characteristics read as related MCB values.



RMS PROSPECTIVE CURRENT AS A MULTIPLE OF RATED CURRENT

MINIATURE CIRCUIT BREAKERS

Standard			BSEN 60898
Tripping characteristic			B, C
Rated voltages Un			230/400
Operational voltage	min.	V AC/DC	24
	max.	V DC/pole	60
	max.	V AC	250
Rated short circuit capacity Icn		kA AC	6
Insulation coordination			
 Rated insulation voltage 		V AC	250
Degree of pollution for overvoltage	category		2/111
Touch protection acc. to EN50274			Yes
Handle end position, sealable			Yes
Degree of protection acc. to EN605	529		IP20
CFC silicone - free			Yes
Terminals			
 Terminal tightening torque 		Nm	2.5 3
Conductor cross-section			
 Solid and stranded 		mm ²	0.75 25
 Finely stranded, with end sleeve 		mm ²	0.75 25
Mounting position			Any
Service life on average, with rated lo	ad		20000 actuations
Ambient temperature		°C	-25+45, occasionally +55, max 95% humidity,
			Storage temperature: -40 +75

APPLICATIONS

Single pole MCBs with Type B characteristics (3-5In) are suited for use on loads with little or no switching surges, such as occur on domestic applications. In addition, a Type B MCB will give fault risk protection at higher levels of earth loop impedance. All ratings are also available in Type C classification (5–10In). MCBs with type C characteristics are suited for use where fluorescent lighting circuits, small motors etc. may produce switching surges which would operate a type B circuit breaker.

GENERAL CONSTRUCTION

Starbreaker and Loadstar MCBs are of the thermal-magnetic current limiting type, having a compact construction which has been achieved by not only minimising the number of parts but also the number of welded joints and connections. Critical material selection ensures reliability and durability. The MCB has an easy to operate handle with a trip-free toggle mechanism – so even when the handle is held in the 'on' position the MCB is free to trip.

BACK-UP PROTECTION

Back-up protection is required only if the prospective short circuit current at the point of installation exceeds the breaking capacity of the MCB. When providing back-up protection consideration must be given to discrimination between the MCB and fuse.

DISCRIMINATION

It is desirable that the protective device nearest the fault should operate first. The low energy let through of Starbreaker and Loadstar MCBs provides better discrimination with HRC fuse back-up than is given by earlier types of MCB.

METHOD OF OPERATION

1 Moderate overload conditions

Detection of moderate overload conditions is achieved by the use of a thermo-metal element which deflects in response to the current passing through it. The thermo-metal element moves against the trip bar releasing the trip mechanism.

2 Short circuit conditions

When the current flowing through the MCB reaches a predetermined level, the solenoid directly pulls in the plunger which forcibly separates the contacts and simultaneously releases the trip mechanism.

3 Establishment of arc between fixed and moving contacts

As the moving contact moves away from the fixed contact, an arc is established. The arc runs along the arc runner to the arc chamber where it is split up between the plates and extinguished.

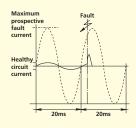
The low inertia and consequent high speed of the moving contact has a limiting effect on the flow of fault current. The rapid development of the arc, together with its accelerated extinction in the arc chamber, gives a typical operating time of 3.5–5 milliseconds.

CURRENT LIMITING ACTION

The high speed current limiting action ensures that the MCB operates before the full prospective fault current is allowed to develop.

Under fault conditions, damage can be sustained to the installation and associated equipment due to the amount of energy that passes before the current is completely interrupted. The total energy let-through depends on the value of current and the time for which it flows, and is denoted by the symbol I²t. The high speed current limiting action of Starbreaker and Loadstar MCBs ensures that the energy let-through and any subsequent damage is minimised. This reduced energy let-through assists greatly with both back-up and discrimination considerations.

CURRENT LIMITING EFFECT



I²t ENERGY LET-THROUGH

Typical values of I^2t energy let-through for Starbreaker MCBs are given in the table below:

MCB rating (A)	Total I ² t let-th Type B	nrough (A² s) Type C	MCB rating (A)	Total <i>I</i> ²t let-th Type B	rough (A ² s) Type C
6	10,220	14,890	32	31,760	32,470
10	17,900	18,750	40	31,760	32,470
16	22,260	23,820	50	45,160	44,270
20	22,260	32,470			

Prospective short circuit test current 6000A

MOUNTING THE MCB

In Crabtree consumer units the MCBs are mounted on standard 35mm top hat rail to BS 5584: 1978 EN 50022 giving a projection within the Standard of 70mm. Due to the method of connection onto the busbar it is not possible to use the Starbreaker range for custom built panels.

MAIN SWITCH

Starbreaker	100/MI2 & 100/2MT
 Loadstar (Domestic) 	100SW2
 Specification 	IEC 60947-3
Rating	100A 230V 50Hz
 Utilisation category 	AC-22A
• Туре	Double pole switch disconnector
 Insulation voltage 	250V
 Impulse withstand voltage 	4kV
Rated duty	Continuous
 Short-time withstand current 	2kA for 1 second
 Short-circuit making capacity 	3.5kA (peak)
Conditional short-circuit current	16kA when protected by 100A HRC fuse
	to BS 1361
 Pollution degree 	3

RESIDUAL CURRENT DEVICES (RCCBs, RCBOs and SRCDs)

SPECIFICATION

Crabtree

• BS EN 61008 RCCBs • EN 61009-1, IEC61009-1 RCBOs

•	BS 7288 SRCDs	
	Dange of current r	

- Range of current ratings • Range of sensitivities
- Pole configurations
- Voltage ratings
- 13-100A 10-300mA SP&N, DP & 4P DP SRCD - 230V 1 & 2 Module SP & N - 230V 2 & 3 Module DP - 230V 4 Module 4P - 400V
- Frequency rating

50Hz • Tripping principle employed Electro-mechanical (2, 3 & 4 Module RCCBs) Electronic (1 & 2 Module RCBOs)



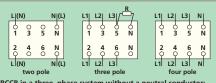


OPERATION

The RCD employs the current balance principle which involves the supply conductors to the load (phase and neutral) being wound onto a common transformer core to form the primary windings. The secondary winding of the current transformer is then connected to the trip mechanism, either an electromagnetic relay in the case of 2, 3 and 4 module RCCBs or an electronic relay in the case of 1 and 2 module RCBOs. Under healthy circuit conditions, the current in the phase conductor is equal to the current in the neutral and the vector sum of the current is zero. In the event of an earth fault, an amount of current will flow to earth, creating an out of balance situation in the transformer assembly. This out of balance is detected by the secondary winding of the transformer and at a pre-determined level of out of balance will activate the trip mechanism.

Single phase and neutral or three phase and neutral units (suitable for 3 or 4 wire systems) are available, the latter being suitable for balanced or unbalanced 3 phase loads.

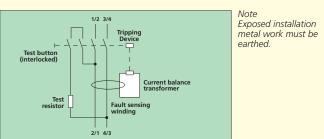
The RCD trip mechanism will operate at a residual current of between 50-100% of its rated residual operating current (sensitivity).



Note Exposed installation metal work must be earthed.

RCCB in a three-phase system without a neutral conductor: The N terminal should be connected to terminal 5 or 6 via the R resistor, depending on the supply side, in order to keep 230V power supply voltage of the test circuit. Test current is wrong if the value of the R resistor is incorrect or if only a wire connection is used instead.

RCD circuit diagrams (four pole)



RCD circuit diagram (two pole)

TEST BUTTON

A test button is provided on all RCDs to enable the operation of the device to be checked.

It is recommended that an RCD is tested at least guarterly. (See BS 7671 Regulation 514-12-2)

TERMINAL CAPACITIES

Lifestar RCCBs 50mm² Lifestar SRCDs

Starbreaker RCBOs 16mm² Loadstar RCBOs 16mm²

APPLICATIONS

a) Residual Current Devices (RCDs) may be required to ensure the compliance of an installation with BS 7671, formerly the IEE Wiring Regulations.

3 x 2.5mm²

3 x 4mm² 2 x 6mm²

An RCD (30mA) meeting the requirements of Regulation 415.1.1 must be used for circuits and cable installations covered by Regulation 411.3.3 (socket outlets), 522.6.6, 522.6.7, 522.6.8 (wiring systems), and 701.411.3.3 (locations containing a bath or shower). Where a high earth fault loop impedance disgualifies the use of overcurrent protection devices as a means of providing the necessary automatic disconnection in the case of a fault, an RCD may be used to satisfy the requirements of Regulation 411.3.2.2 (411.4.9). To comply with Regulation 411.5.3 the earth fault loop impedance in Ohms multiplied by the rated tripping current of the RCD in Amperes must not exceed 50(V). With the RCD having a sensitivity of 30mA, the maximum permissible earth fault loop impedance is calculated as follows: Z_{s} (max)=50/0.03=1666 Ohms

Rated residual	Maximum earth fault loop Impedance Z _S Ohms
operating current (mA)	120V <uo≤230< td=""></uo≤230<>
30mA	1667
100mA	500
300mA	167

(b) to provide a higher level of protection than that given by direct earthing, against fire or shock risks caused by earth leakage currents. Overcurrent protection devices cannot detect earth fault currents below their

operating current. If they are the only means of earth fault protection, it is possible for sufficient earth fault current to flow undetected to constitute a fire risk.

By using an RCD, the flow of the sustained earth fault current, above the tripping current of the RCD, is prevented. The shock risk associated with these earth fault currents is also greatly reduced.

To provide complete personnel protection, a high sensitivity RCD to a Type A classification with a maximum tripping current of 30mA should be used. This is particularly important with portable appliances where there is a danger of losing earth continuity due to damage or fatigue.

Residual current devices are completely selective in their operation. They are unaffected by parallel earth paths and are thus ideally suitable for the protection of installations in modern high density dwellings or office blocks. They are virtually tamperproof and provide a predetermined level of protection. Even if earthing conditions deteriorate substantially, they will continue to provide a higher level of protection than would have been given by direct earthing.

SENSITIVITIES

10mA provides the highest degree of personal protection, for use in sensitive areas such as laboratories, schools and workshops where potential hazards exist from electrical faults caused through misuse, accidental damage or failure of electrical appliances

30mA provides a high degree of personal protection, satisfying the requirement of Regulation 415-1 for additional protection. (when an operating time not exceeding 40 ms at 5 times rated residual operating current is proven

100mA provides a high level of fire risk protection and a degree of fault protection

300mA provide fire risk protection.

TRANSIENT EARTH LEAKAGE CURRENTS

All Crabtree residual current devices incorporate a high level of immunity to tripping when subjected to transient earth leakage currents. Such transients can occur when there is a significant level of capacitance to earth as can result from cable capacitance (particularly MICC) or RF filter networks. Crabtree RCDs are therefore less susceptible to nuisance tripping due to transient earth leakage currents.

RCDs (RCCBs, RCBOs AND SRCDs)

Technical Specifications (RCBOs)		up to 50A
Standards			EN 61009-1, IEC 61009-1
Approved acc.to			IEC/EN 61543
Rated voltages Un		V AC	230(240)
Rated frequency fn		Hz	50 60
Rated currents In		А	6, 10, 16, 20, 32, 40, 50
Rated residual currents /I	n	mA	30
Rated switching capacity		kA	6
Energy limitation class			3
Terminals/conductor cros	ss-sections		
Solid and stranded		mm ²	0.75 35
• Finely stranded, with end	sleeve	mm ²	0.75 25
Outgoing		mm ²	0.75 16
Terminal tightening torq	ue	Nm	2
Mains connection			Bottom
Mounting position			Any
Degree of protection	acc. to EN60529		IP20 with connected conductors
Touch protection	acc. to EN50274		Finger and back-of-hand safe
Service life	Test cycle acc. to IEC/EN 61009	switching cycles	.10000 actuations
Storage temperature		°C	-40+45
Ambient temperature		°C	-25+45
Resistance to climate acc.	to IEC60068-2-30		28 cycles (55°C; 95% rel. air humidity
CFC and silicone free			Yes
-			

APPLICATIONS

RCBOs provide both earth fault and over current protection. The MCB element of Starbreaker and Loadstar devices are available as Type B or Type C making them suitable for domestic or light commercial applications. These Type A Voltage dependent devices are single pole with solid neutral one module wide (18mm) with a flying lead. During interruption of the neutral conductor the protective function is guaranteed when FE and PE conductors are connected. The use of Starbreaker and Loadstar 30mA RCBOs provides independent RCD protection to individual circuits offering both the degree of additional protection that may be required by Regulation 415.1 and the minimum of inconvenience following a single earth fault (Regulation 314.1).

INSTALLATION TESTING - CAUTION

As Starbreaker and Loadstar RCBOs employ electronic components they should be disconnected when carrying out the following tests on the electrical installation

(a) Earth fault loop impedance test

The load terminals should be disconnected if it is intended to parallel-out the unit for test purposes.

It may incur damage if mains potential is maintained on the load terminals of this unit after the trip mechanism has operated.

(b) Insulation test

Whilst RCBOs can withstand the effects of normal insulation testers without damage, false readings may be given on the test instrument. For this reason it is recommended that the device is disconnected during this test.

FAULT CURRENT SENSITIVITY

Semi-conductor devices are now incorporated in equipment used throughout industry, commerce and in the home. Typically, the purpose of these semiconductor devices is for monitoring and controlling industrial equipment eg speed controls for small motors and temperature controls, along with extensive use in computers, VDUs, printers, washing machines, etc. As the equipment is fed from the mains electrical supply, in the event of an earth fault the presence of semi-conductors may result in the normal ac waveform being replaced by a non-sinusoidal fault current. In some cases the waveform may be rectified or chopped. These waveforms are said to contain a pulsating dc component which can either partially desensitise or totally disable a standard Type AC RCD.

International standards IEC 61008 (RCCBs) and IEC 61009 (RCBOs) divide RCDs into two performance classes:

Type AC

RCDs for which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly arising.

Type A

RCDs for which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly arising.

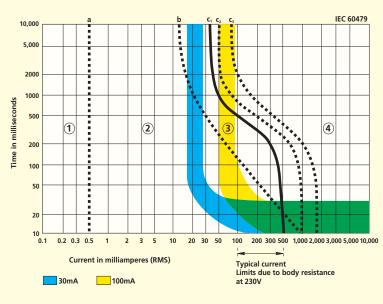
To ensure the correct level of protection, check for the following symbols:



Crabtree RCCBs are available as both Type AC and Type A devices.

IEC PUBLICATION (60479) CURVES WITH CRABTREE RCD CHARACTERISTICS SUPERIMPOSED

TIME/CURRENT ZONES OF EFFECTS OF AC CURRENT (15-100Hz) ON PERSONS



Zone Physiological effects

- 1 Usually no reaction effects.
- Usually no harmful physiological effects.
- Usually no organic damage to be expected. Likelihood of muscular contraction and difficulty of breathing, reversible disturbances of formation and conduction of impulses in the heart, and transient cardiac arrest without ventricular fibrillation increases with current magnitude and time.

In addition to the effects of zone 3, probability of ventricular fibrillation increased up to 5% (Curve C2) up to 50% (Curve C3) and above 50% beyond Curve C3. Increasing with magnitude and time, pathyphysiological effects such as cardiac arrest, breathing arrest and heavy burns may occur.



REQUIREMENTS FOR ELECTRICAL INSTALLATIONS.

SOCKET CIRCUITS 411.3.3

Crabtree

RCDs are now required to provide additional protection. To be recognised as providing additional protection the RCD must be rated at 30mA or less and operate within 40ms when tested at 5x rated residual operating current.

- RCDs are now required for all general use socket outlets rated up to 20A. Two exceptions are allowed for ;
- 1. Socket outlets used under supervision of skilled or instructed persons.
- 2. A socket outlet suitably identified for connection of a particular item of equipment.

Additional protection must be provided in the event of failure of the provision of basic protection and/or the provision of fault protection or carelessness by users of the installation. Protection by 30mA RCD will be required for;

- Downstairs ring circuit
- Upstairs ring circuit • Kitchen ring circuit

- Cooker control unit c/w socket outlet

CABLES 522.6.6 522.6.7 522.6.8 Regulation 522.6.6

A cable concealed in a wall or partition at less than 50mm from the surface shall;

- 1. Incorporate an earthed metallic covering suitable for service as the circuit CPC - or
- 2. Be enclosed in earthed conduit or
- 3. Be enclosed in trunking or ducting or
- 4. Be mechanically protected against damage from penetration by nails or screws and the like or
- 5. Be installed in the prescribed zones.

Regulation 522.6.7 Where 522.6.6 applies and the installation is not intended to be under the supervision of skilled or instructed persons, cables installed in accordance with 522.6.6(5) but not having mechanical protection of 1,2,3 or 4 shall be provided with additional protection by means of a 30mA RCD.

In the majority of domestic situations cables installed beneath a plaster surface within partition walls without mechanical protection will require additional protection by 30mA RCD regardless of their routing.

- Upstairs lighting
- Downstairs lighting Smoke alarm
- Immersion heater • Burglar alarm

Bathrooms

- Section 7 Special installations or Locations.
- Section 701 Locations containing a bath or shower.
- Zone 3 has been removed.
- Suitable equipment can be within 600mm of a bath, excluding 13A sockets to BS1363 which must be 3m from the edge of a bath or shower
- Additional protection shall be provided by the use of one or more residual current device with a rated operating current not exceeding 30mA (701.411.3.3).
- Supplementary bonding is not required so long as any Protective Equipotential Bonding has been installed (411.3.1.2).
- Additional protection must be provided by one or more 30mA RCDs. lighting circuit
- shower circuit
- Heating circuit
- Ventilation circuit

Chapter 31

314.1 Requires that; Every installation shall be divided into circuits, as necessary, to:

- i. Avoid danger and minimise inconvenience in the event of a fault ii. Facilitate safe inspection, testing and maintenance
- iii. Take account of danger that may arise from the failure of a single circuit such as a lighting circuit

iv. Reduce the possibility of unwanted tripping of residual current devices (RCDs) due to excessive protection conductor currents produced by equipment in normal operation.

British Standards and IEE regulations are subject to change and amendment. This guide to Crabtree consumer units is not a substitute for the regulations which should always be used for all types of electrical installation design, and installation work.

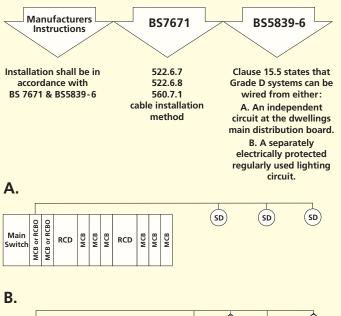
MAINS SUPPLIES FOR SMOKE ALARMS WITHIN DOMESTIC SETTINGS

Clause 7.1 of BS 5839-6 defines a Grade D system as: "A system of one or more mains-powered smoke alarms, each with an integral standby supply (The system may in addition, incorporate one or more mains-powered heat alarms each with an integral standby supply).

The 17th Edition of the wiring regulations do not cover every item of Electrical Equipment likely to be installed. They do not specifically mention Smoke Alarms. However:

CHAPTER 13 REGULATION 134.1.1 states that electrical equipment shall be installed in accordance with the instructions of the manufacturer of the equipment.

CHAPTER 51 REGULATION 510.2 states that every item of electrical equipment shall be selected and erected so as to allow compliance with the regulations stated in this chapter and the relevant regulations in other parts of BS7671 and shall take account of manufacturers instructions.





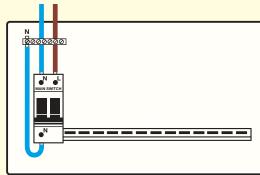
Elements of Electrical Protection will include short circuit, overcurrent and may also include additional protection by a residual current device (30mA) for certain installation methods covered by BS7671 (522.6.7) & (522.6.8)

IF ADDITIONAL PROTECTION IS REQUIRED BY BS7671 THE NEED FOR SEPARATE ELECTRICAL PROTECTION CANNOT BE MET BY DUAL RCD CONSUMER UNIT ARRANGEMENTS WHERE SINGLE **RESIDUAL CURRENT DEVICES PROTECT GROUPS OF CIRCUITS.**

STARBREAKER CONSUMER UNIT APPLICATIONS

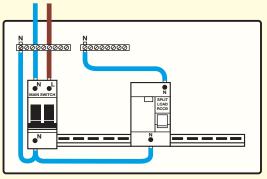
MAIN SWITCH

This type of unit allows for the use of both MCBs & RCBOs throughout.



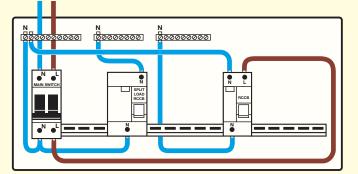
SPLIT LOAD

A familiar arrangement allows the use of MCBs & RCBOs immediately following the Main Switch and MCBs following the Split Load RCCB.



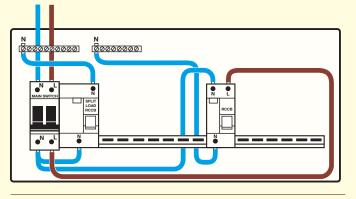
HIGH INTEGRITY

A modern pattern which sees MCBs used between two RCCBs but retaining provision for a small number of independent MCB or RCBO circuits following the Main Switch.



DUAL RCD

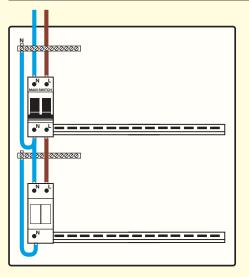
This unit utilizes MCBs throughout divided between two RCCBs. Circuit independance or separate electrical protection cannot be achieved here.



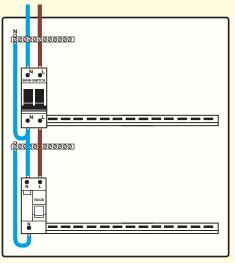
TWO BANK

Two bank consumer units provide the facility to offer a wide range of configurations for applications which demand increased numbers of circuits. Continuity of supply between top and bottom banks (where required) can be achieved by utilizing the Main Switch with the additional terminal (**100/2MT**)

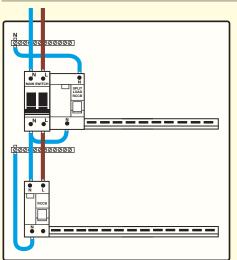
MAIN SWITCH



SPLIT LOAD



DUAL RCCB



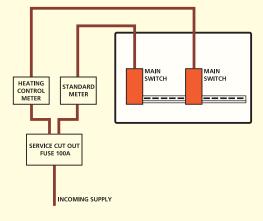
STARBREAKER CONSUMER UNIT APPLICATIONS

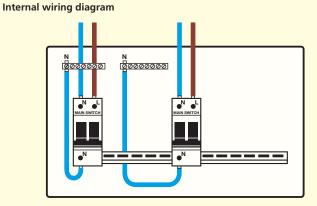
The following information illustrates the methods by which consumer units can be installed into more specific applications, for example multi-tariff or dual tariff consumer units.

TWIN-TARIFF

Twin-tariff combines two independent supplies typically the standard domestic supply and the supply for storage heaters. This installation can be housed within one standard enclosure thus saving space and installation time.

Supply diagram

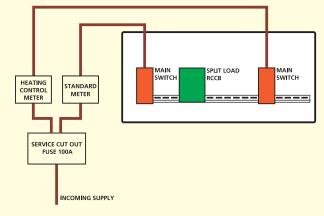




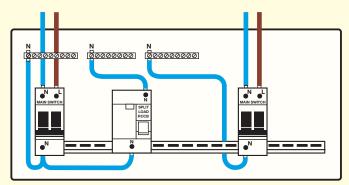
SPLIT-LOAD DUAL-TARIFF

Combining the added safety of a split-load RCCB and the economy heating tariff into one combined unit offers an all-round saving of space and installation time.

Supply diagram



Internal wiring diagram

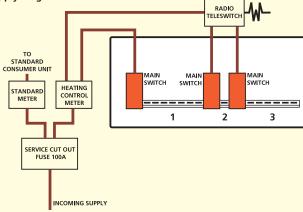


MULTI-TARIFF

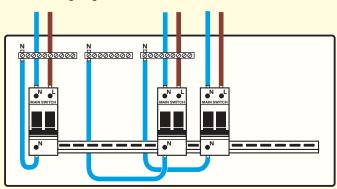
Multi-tariff heating provides 3 tariffs catering for total heating applications:

- 1 Direct heating appliances
- 2 Bottom immersion heater
- 3 Storage heating

Supply diagram



Internal wiring diagram



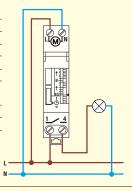
TECHNICAL DATA CIRCUIT PROTECTION

CONTROL MODULES – GENERAL





Technical Data	301/TS11	301/TQ24
Supply Voltage	230V 50 Hz	230V 50/60Hz
-	-	R100h/+25°C
Power Consumption	1W	1W
Accuracy	50Hz	±2 s/d
Switch Contacts	16A 250V~μ cos φ =1	16A 250V~μ cos φ =1
Terminal Capacity	Single strand 1-4mm ² Multi strand 0.5-2.5mm ²	Single strand 1-4mm ² Multi strand 0.5-2.5mm ²
Operating Temp.	-10°C to +55°C	-10°C to +55°C
Storage Temp.	-10°C to +55°C	-10℃ to +60℃

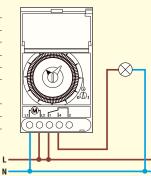


Resistive Loads	3600W
Incandescent/Halogen	1000W
Motors	1000W
E S/L V Fluorescent	100W
Mains Halogen	1000W
L V Halogen	2300W

Prabtree

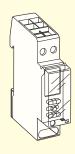


Technical Data	303/TS24	303/TQ7 303/TQ24
Supply Voltage	230V 50 Hz	230V 50/60Hz
-	-	R100h/+25°C
Accuracy	50Hz	±2s/d
Switch Contact	16A 250V ~ μ cos φ =1	16A 250V~μ cos φ =1
Parallel compensation	C≥14µF	C≥14µF
Terminal Capacity	Single strand 1 - 4mm ² Multi strand 0.5 - 2.5mm ²	Single strand 1-4mm ² Multi strand 0.5-2.5mm ²
Operating Temp.	-10°C to +55°C	-10°C to +55°C
Storage Temp.	- 10°C to + 55°C	-10°C to +60°C

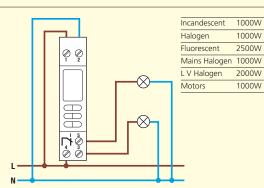


Incandescent/Halogen	1000W
Fluorescent	2500W
Motors	1000W
Mains Halogen	1000W
E S Lamps	150W
L V Halogen	150W
L V Fluorescent	150W

301/TD1



Technical Data	301/TD1
Supply Voltage	230V 50/60Hz
Power Consumption	ca. 1W
Contact Rating	16A 250V~μ cos φ =1
Parallel compensation	not allowed
Accuracy	±2.5 s/d
Terminal Capacity	Single strand 1-4mm ² Multi strand 1.5-2.5mm ²
Program pictures	8
Battery reserve	100h
Working ambient	-10°C to +55°C
Storage ambient	-10°C to +60°C
For safety, when the time switch is connected to the r an isolated low voltage supply. And when the time sv the contact should not be used on the mains supply.	



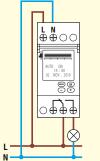
Safety notes

This product may be installed only by a qualified electrician. Non-compliance may result in a fire hazard or electric shocks. Before installation, read the operating instructions and observe the product-specific requirements for the installation location



302/TD1

Technical Data	302/TD1
Supply Voltage	230V 50/60Hz
Effective power Consumption	Approx. 1W
Contact Rating	1 changeover contact 16A
Parallel compensation	250V~μ cos 60VA max.7μF
Accuracy	±1 s/25°C
Terminal Capacity	Single strand 1.5-4mm ² Multi strand 1.5-2.5mm ²
Programmes	56
Battery reserve	6 years
Working ambient	-20°C to +55°C
Storage ambient	-20°C to +60°C



Halogen

Motors

1000W

1000W 2500W

2000W

1000W

m



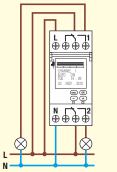
Supply Voltage	230V 50/60Hz
Effective power Consumption	Approx. 1W
Contact Rating	1 changeover contact 16A
Parallel compensation	250V ~ μ cos 60VA max.7 μ
Accuracy	±1 s/25°C
Terminal Capacity	Single strand 1.5-4mm ²
	Multi strand 1.5 - 2.5mm ²
Programmes	56
Battery reserve	6 years
Working ambient	-20℃ to +55℃
Storage ambient	-20°C to +60°C

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Technical Data	302/TD2
Supply Voltage	230V 50/60Hz
Effective power Consumption	Approx. 1W
Contact Rating	2 changeover contact 16A
Parallel compensation	250V~μ cos 60VA max.7μF
Accuracy	±1 s/25°C
Terminal Capacity	Single strand 1.5-4mm ²
	Multi strand 1.5 - 2.5mm ²
Programmes	28 per channel
Battery reserve	6 years
Working ambient	-20°C to +55°C
Storage ambient	-20°C to +60°C

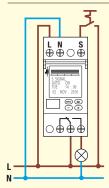


Incandescent	1800W
Halogen	1800W
Fluorescent	2300W
Mains Halogen	1800W
L V Halogen	2300W
Motors	1800W
Low Energy	100W

CHNICAL DATA CIRC PR OTEC TION

185

CONTROL MODULES – GENERAL

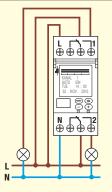


600W 800W 00W
00\//
0000
800W
800W
300W

502/TD1	Technical Details
Supply Voltage	230V 50/60Hz
Power Consumption	ca.1W
Relay Output	1 changeover contact 16A 250V ~ $\mu \cos \varphi = 1$
Parallel compensation	60VA max. 7μF
Accuracy	±0.2 s/day under typical installation conditions
Wire cross-section	Single strand 1.5 - 4mm ² Multi strand 1.5 - 2.5mm ²
Programs	28
Geographical co-ordinates	Resolution 1°
Control Cable length	Max. 20m
Control Signal	230VAC/ca.2mA 120VAC/ca.2mA 24VAC/ca.2ma
Control-pulse duration	> 100ms
Delay time	0 min-23h 59 min
Battery Reserve	6 Years
Storage Temp.	-20°C to +60°C
Operating Temp.	-20°C to +55°C

402/TD1

Supply Voltage



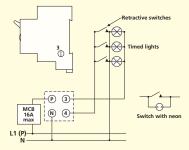
Incandescent/Halogen	1800W
Mains Halogen	1800V
L V Halogen	2300V
E S Lamps	100W

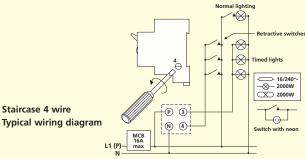
402/TD2	Technical Details
Supply Voltage	230V 50/60Hz
Power Consumption	ca.1W
Relay Output	2 changeover contact 16A 250V ~ $\mu \cos \varphi = 1$
Parallel compensation	60VA max. 7μF
Accuracy	±0.2 s/day under typical installation conditions
Wire cross-section	Single strand 1.5 - 4mm ² Multi strand 1.5 - 2.5mm ²
Programs	28 per channel
Geographical co-ordinates	Resolution 1°
Battery Reserve	6 Years
Storage Temp.	-20°C to +60°C
Operating Temp.	-20°C to +55°C

. V Fluorescent	100W
Notors	1800W
luorescent	2300W

Ν

502/TD2	Technical Details
502/102	lechnical Details
Supply Voltage	230V 50/60Hz
Power Consumption	ca.1W
Contact rating	2 changeover contact 16A 250V ~ μ cos ϕ =1
Parallel compensation	60VA max. 7μF
Accuracy	±0.2 s/day under typical installation conditions
Terminal capacity	Single strand 1.5 - 4mm ² Multi strand 1.5 - 2.5mm ²
Programs	14 per channel
Geographical co-ordinates	Resolution 1°
Battery Reserve	6 Years
Storage ambient	-20°C to +60°C
Operating ambient	-20°C to +55°C





-/// SENSOR (M) (L N 4 5 23 N LOAD

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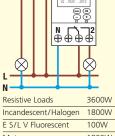
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es	cent/Halogen	1800W	Sto
H	alogen	1800W	Op
lo	gen	2300W	
m	ps	100W	Sy
01	rescent	100W	Wi
5		1800W	or
C	ent	2300W	Me

Power Consumption	ca.1W
Contact rating	1 changeover contact 16A 250V ~ μ cos ϕ =1
Parallel compensation	60VA max. 7μF
Accuracy	±0.2 s/day under typical installation conditions
Terminal capacity	Single strand 1.5 - 4mm ² Multi strand 1.5 - 2.5mm ²
Programs	56
Pulse start times	84 (only if pulse function is activated)
Pulse duration	1s-59 min 59 s
Battery Reserve	6 Years
Storage ambient	-20°C to +60°C
Operating ambient	-20°C to +55°C

Technical Details

230V 50/60Hz

stem Requirements USB indows 98 (SE), Windows 2000, Windows XP Windows Vista Approx 40Mb lemory Requirements



E S/L V Fluorescent Motors 1800W Mains Halogen 1800W L V Halogen 2300W

Staircase 3 wire Typical wiring diagram

Staircase 4 wire

Twilight switch

Typical wiring diagram

L —			Pulse dura
N —			Battery Re
Incar	ndescent/Halogen	1800W	Storage a
Mair	ns Halogen	1800W	Operating
LVH	Halogen	2300W	
ΕSL	amps	100W	System R
LVF	luorescent	100W	Windows
Moto	ors	1800W	or Windo
Fluor	rescent	2300W	Memory
ST.	AIRCASE	TIME	SWITCH

Operating voltage 190–240V	
Mains frequency 50–60Hz	
Switching capacity 16A resistive	e, 2000W tungsten, 2000W fluorescent
Connection: 3-lead rising mains Timed, reswitchabl lighting.	
	ge 1–7 minutes. • Glow lamp max 50mA.• Pre-selector switch for 3-4 wire connection.
TWILIGHT SWITCH	
Operating voltage	190–240V
Mains frequency	45–60Hz
Power consumption	2.2VA
Contact rating resistive @ 240V	10A
Incandescent lamp load	1000W
Brightness range	2–2000 lux
Switching delay (on/off)	80 seconds approx
Switching status indication	LED (no delay)
Connection cable for light senso	r 2 core cable max length 100m
Permissible ambient temp	-10 to +50°C control -40 to +70°C
Protection category	IP20 control IP54 light sensor
Can be wired normally open or closed.	Delay 'on/off' eliminates nuisance switching.

• Selector switch for adjustment of ranges: range 1 2-35 lux; range 2 35-2000 lux.

• Connection of additional timing device will provide facility to override 'switch on' status.

DIMENSIONS

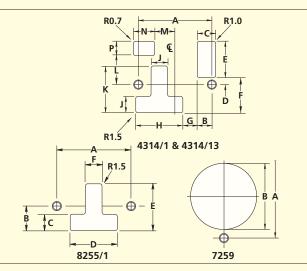
	page
WIRING ACCESSORIES	188-190
LDB & GRID DIMMER	191
CABLE MANAGEMENT	192
STARBREAKER	193
LOADSTAR - DCP	195
LIFESTAR	197
MODULAR CONTROL DEVICES	5 198
DIN ENCLOSURES	199

PANEL CUT-OUT DETAILS

CAPITAL 13A SINGLE SOCKET OUTLET INTERIORS

List No	*A*	В	С	D	Е	F	G	Н	J	Κ	L	Μ	Ν	Ρ
4314/1	60.3	12.0	15.4	5.7	28.6	30.4	10.8	38.8	14.2	38.4	-	-	-	-
4314/13	60.3	12.0	15.4	5.7	28.6	30.4	10.8	38.8	14.2	38.4	23.4	16.8	16.6	10.5
7259	60.3	50.0	-	-	-	-	-	-	-	-	-	-	-	-
8255/1	60.3	24.2	14.2	38.8	38.4	14.2	-	_	-	_	-	_	-	_
* Fixing holes drill to accept 4mm countersunk screws.														

Max panel thickness 1.6mm (except 7259 - 2.5mm).



CAPITAL 13A TWIN SOCKET OUTLET INTERIORS

List No	*A*	В	С	D	Е	F	G	Н	J	Κ	L	Μ	Ν	
4316/1	120.6	84.4	24.7	14.2	38.8	38.4	30.4	28.6	29.9	-	-	-	-	
4316/13	120.6	84.4	24.7	14.2	38.8	38.4	30.4	28.6	29.9	23.4	94.1	16.6	10.5	
8257/1	120.6	60.0	21.6	14.2	38.8	38.4	-	_	-	-	-	-	-	
8257/1 BLUE/CE		60.0	21.4	13.7	38.3	37.9	-	-	-	-	-	-	-	
* Fixing h	ioles c	Irill to	acce	ept 4r	nm c	ounte	ersun	k scre	ews.					

Max panel thickness 1.6mm.

CAPITAL 45A DP 'SLIMLINE' COOKER CONTROL UNIT INTERIORS

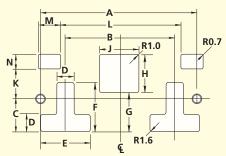
List No	*A*	В	С	D	Е	F	G	Н	J	Κ	L	Μ	Ν
4522/1	120.6	24.9	42.7	14.0	38.6	17.1	14.2	29.5	19.2	12.6	7.1	31.75	21.1
4522/13	120.6	24.9	42.7	14.0	38.6	17.1	14.2	29.5	19.2	12.6	7.1	31.75	21.1
List No	Р	R	S	Т	V	W							
4522/13	4.5	9.5 3	1.75	36.77	6.48	3 0.62	2						
* Fixing holes drill to accept 3.5mm countersunk screws.													
Max panel thickness 1.6mm.													

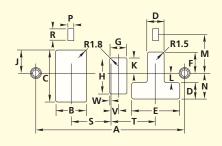
CAPITAL **13A FUSED CONNECTION UNIT INTERIORS**

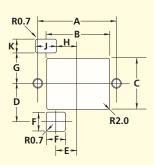
											 1	
List No	*A*	В	С	D	Е	F	G	Н	J	Κ		
4831/1	60.3	22.0	38.0	-	-	-	-	-	-	-		
4832/1	60.3	48.0	38.0	-	-	-	-	-	-	-		
4832/13	60.3	48.0	38.0	-	-	-	23.4	16.8	16.6	10.5		
4836/1	60.3	22.0	38.0	29.0	17.0	14.0	-	-	-	-		
4837/1	60.3	48.0	38.0	29.0	17.0	14.0	-	-	-	-		
4837/13	60.3	48.0	38.0	29.0	17.0	14.0	23.4	16.8	16.6	10.5		
* Fixing h	oles c	drill to	o acce	ept 4r	nm c	ounte	ersun	k scre	ews.			
Max panel	thick	ness í	.6mn	п.								

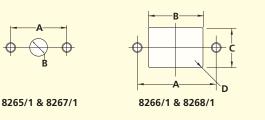
CAPITAL CO-AXIAL OUTLETS

List No	*A*	В		List No	*A*	В	С	D
8265/1	60.3	15.0 Dia		8266/1 (Old)	60.3	41.0	30.0	3.0
8267/1	60.3	15.0 Dia		8268/1 (New)) 60.3	42.5	33.0	2.0
* Fixing h counter		ill to acce crews.	ot 3.5mm					
Max pane	l thickn	ess 1.7mm						









All dimensions in mm. General tolerance ±0.13mm. These dimensions are a guideline only, more detailed drawings are available upon request.

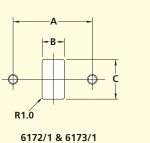
PANEL CUT-OUT DETAILS **CAPITAL 10AX/20A/32A SWITCH INTERIORS**

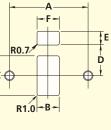
List No	*A*	В	С	D	Е	F			
All 1 gang	60.3 1	7.1	30.6						
6172/1	60.3 3	3.4	30.6						
6173/1	60.3 4	9.7	30.6						
4011/1 & 4012/1	60.3 1	7.1	30.6	-	-	-			
4011/13 & 4012/13	60.3 1	7.1	30.6	23.7	10.5	16.6			
* Fixing holes drill to acc	* Fixing holes drill to accept 4mm countersunk screws.								

Max panel thickness 2.5mm.

CAPITAL 50A DP SWITCHES

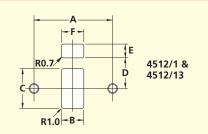
							1		
List No	*A*	В	С	D	Е	F			
4512/1	60.3	26.2	44.8	25.35	10.3	16.3			
4512/13	60.3	26.2	44.8	25.35	10.3	16.3			
* Fixing h	oles c	drill to	acce	pt 3.5	mm c	ountersu	nk screws		
Max panel	thick	ness 2	.5mm						





Prabtree

4011/1 & 4012/1 4011/13 & 4012/13



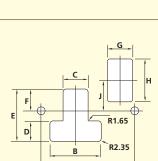
R1.2

CAPITAL 2A ROUND PIN SOCKET OUTLETS List No *A R C П Г Г

1		"A	D	C	D	E	Г		
8	8075/1	60.3	27	13.9	13.25	12.4	12.65		

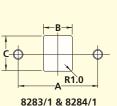
* Fixing holes drill to accept 3.5mm countersunk screws. Max panel thickness 1.6mm.

CAPITAL 5A ROUND PIN SOCKET OUTLETS List No *A В С D Е F Н G J **2240/1** 60.3 33.15 16 14.1 35.13 14.28 16 28.7 20 * Fixing holes drill to accept 3.5mm countersunk screws. Max panel thickness 1.6mm.



CAPITAL TELEPHONE OUTLETS

List No	*A*	В	С							
8283/1	60.3	25.3	34.3							
8284/1	60.3	25.3	34.3							
* Fixing holes drill to accept 3.5mm countersunk screws.										
Maximana	1 + bick	0000 1	7							



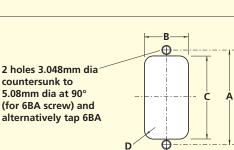
Max panel thickness 1.7mm.

All dimensions in mm. General tolerance ±0.13mm. These dimensions are a guideline only, more detailed drawings are available upon request.

ROCKERGRID PANEL CUT OUT DETAILS



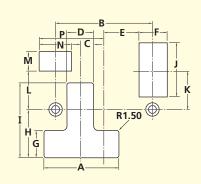
Dimensions	A = 40mm
	B = 18mm
	C = 35mm
	D = 3mm



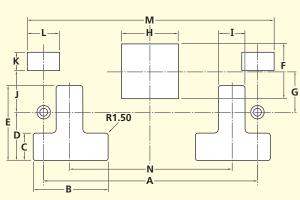
These dimensions are a guideline only, more detailed drawings are available upon request.

PANEL CUT-OUT DETAILS

List No	A×	В	С	D	Е	F	G	Н	I	J	К	L	Μ	Ν	Р
1314/1	38.4	50.0	12.0	13.8	18.7	14.4	13.8	24.5	38.0	28.5	20.0	-	-	-	-
1314/13	38.4	50.0	12.0	13.8	18.7	14.4	13.8	24.5	38.0	28.5	20.0	19.65	10.30	16.30	33.15

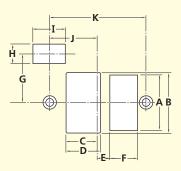


LATI	NU	M 1	3A	ΤV	VIN	SO	СК	ET (0U1	LET				
ist No	A	В	С	D	Е	F	G	Н	I	J	K	L	Μ	Ν
316/1	110	38.4	13.8	24.5	38.0	28.5	20.0	29.0	13.8	-	-	-	-	-
1316/13	110	38.4	13.8	24.5	38.0	28.5	20.0	29.0	13.8	20.15	10.3	16.3	127.3	84.4



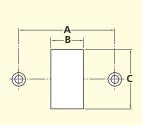
PLATINUM 13A FUSED CONNECTION UNIT

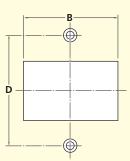
List No	A*	В	С	D	Е	F	G	Н	I	J	K	
1832/1	27.7	30.5	1.50	17.75	6.20	14.60	-	-	-	-	50.0	
1832/13	27.7	30.5	1.50	17.75	6.20	14.60	24.8	10.2	16.2	25.0	50.0	



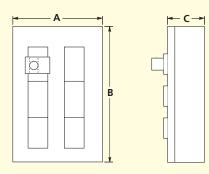
PLATINUM 10AX SWITCH

List No	A	В	С	D	
1170/1	50.0	16.5	30.0	-	
1096/1	50.0	16.5	30.0	-	
1172/1	50.0	32.8	30.0	-	
1173/1	-	49.5	30.0	55.8	





List No	A*	В	С	
5020/4	210	245	80.6	
5021/4	210	245	80.6	
5022/4	208.3	292.7	80.6	



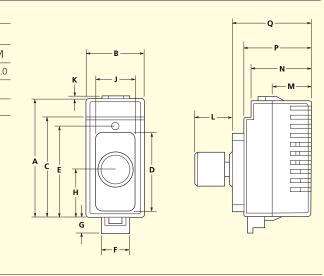
All dimensions are approximate and in mm. Please allow for clearance of approximately 8mm for interior 21mm for the LSC plug when inserted.

Commercial and office layouts may require frequent modification to the lighting requirements and the LDB can provide a cost effective solution when a number of units are connected through a lighting system. Light fittings can be conveniently un-plugged and re-connected into another LDB at a different point of the lighting circuit to provide optimum light and maximum flexibility.

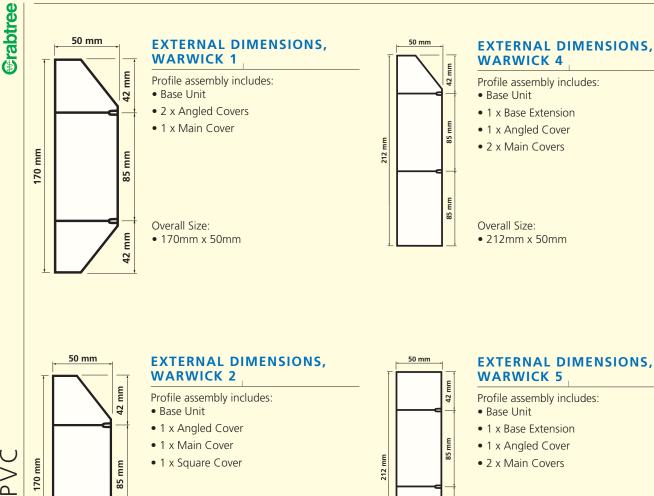
A lighting system utilising LDBs with 4 pin interiors offers an emergency light circuit at every point but allows a 3 pin LSC plug to connect to offer standard lighting.

PUSH ON/OFF 2 WAY GRID DIMMER

А	В	С	D	Е	F	G	Н	J	Κ	L	Μ
52.0	25.0	44.0	34.4	40.05	12.0	7.10	21.25	17.10	1.20	16.30	17.0
N*	Р	Q									
26.0	29.0	34.0									

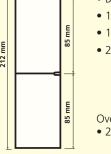


Crabtree



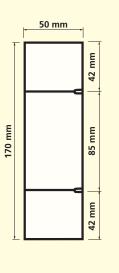
Overall Size:

• 170mm x 50mm





Overall Size: • 212mm x 50mm



42 mm

EXTERNAL DIMENSIONS, WARWICK 3

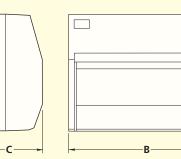
- Profile assembly includes:
- Base Unit
- 2 x Square Covers
- 1 x Main Cover

Overall Size: • 170mm x 50mm

192

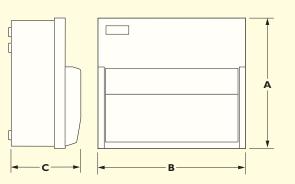
SURFACE ALL-INSULATED ENCLOSURES

List No	А	В	С	
404/0A	160	117	102	
406/0A	230	190	120	
409/0A	230	243	120	
412/0A	230	294	120	
415/0A	230	344	120	
420/0A	230	439	120	

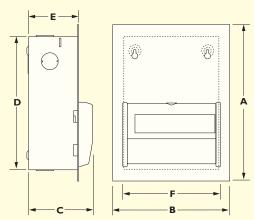


SURFACE METAL-CASED ENCLOSURES

List No	А	В	С	
804/0A	185	130	97	
806/0A	261	188	122	
809/0A	261	242	122	
812/0A	261	292	122	
815/0A	261	343	122	
820/0A	261	438	122	



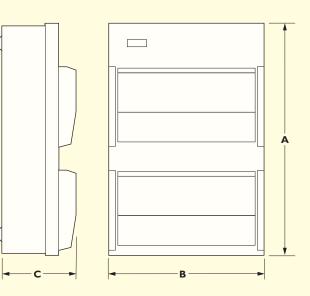
FLUSH	METAL-	CASED	ENCLOS	SURES		
List No	А	В	С	D	E	F
806/0AF	300	223	121	255	93	181.5
809/0AF	300	276	121	255	93	235
812/0AF	300	327	121	255	93	286
815/0AF	300	377	121	255	93	336
820/0AF	300	472	121	255	93	431
824/2AF	540	325	121	500	93	286
830/2AF	540	375	121	500	93	336
840/2AF	540	472	121	500	93	431



DIMENSIONS STARBREAKER

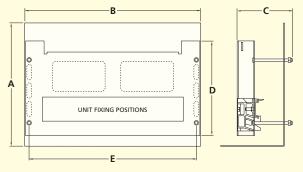
2 BANK SURFACE METAL CASED ENCLOSURES

List No	А	В	С	
824/2A	506	295	121	
830/2A	506	354	121	
840/2A	506	440	121	

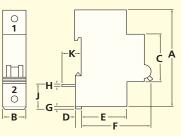


SPINE BACKPLATE ASSEMBLIES (WHITE PVC COVER)

H915/0W 235	225	100	400					
	222	106	180	319.5				
H920/0W 235	448	105	180	435				

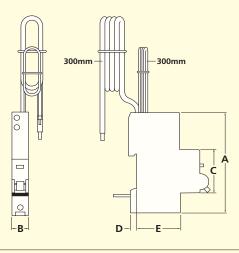


STARB	REA	KER	MII	NIAT	URE	CIRC	CUIT	BRE	AKE	RS
List No	А	В	С	D	Е	F	G	Н	J	K
61/B										
& 61/C	_ 90	18	45	6	44	70	3	1.5	26	16
-										



STARBREAKER RCBOs

List No	А	В	С	D	Е	
61/B130						
& 61/C130	125	17.6	45	6.2	44	



SURFACE ALL-INSULATED ENCLOSURES

List No	А	В	С	
18LC2	160	117	102	
18LC5	230	190	120	
18LC8	230	243	120	
18LC11	230	294	120	
18LC14	230	344	120	
18LC19	230	439	120	

18LC6SL	230	243	120	
18LC9SL	230	294	120	
18LC12SL	230	344	120	
18LC17SL	230	439	120	
18LC10	230	344	120	

120

SURFACE METAL-CASED ENCLOSURES

439

18LC15__

230

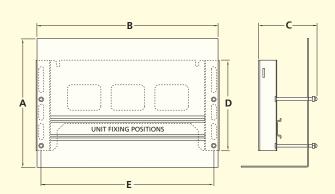
List No	А	В	С	
18P-2	185	130	97	
18P-5	261	188	122	
18P-8	261	242	122	
18P-11	261	292	122	
18P-14	261	343	122	
18P-19	261	438	122	

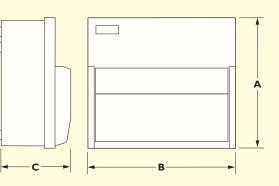
18PRSL12 261 343 122 18PRSL17 261 438 122
18PRSI 17 261 438 122

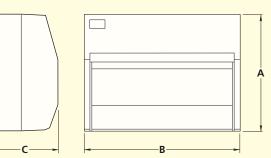
18PS10	261	343	122
18PS15	261	438	122

SPINE BACKPLATE ASSEMBLIES (WHITE PVC COVER)

List No	А	В	С	D	Е
18SB	235	335	108	166	320







Crabtree

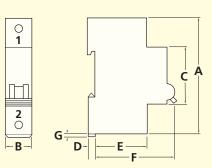
195

DIMENSIONS LOADSTAR

APPROXIMATE DIMENSIONS (mm) LOADSTAR MINIATURE CIRCUIT BREAKERS

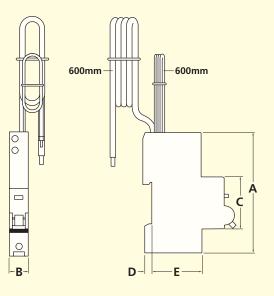
6MSB								
List No	А	В	С	D	Е	F	G	

& 6MSC____ 90 18 45 6 44 70 3

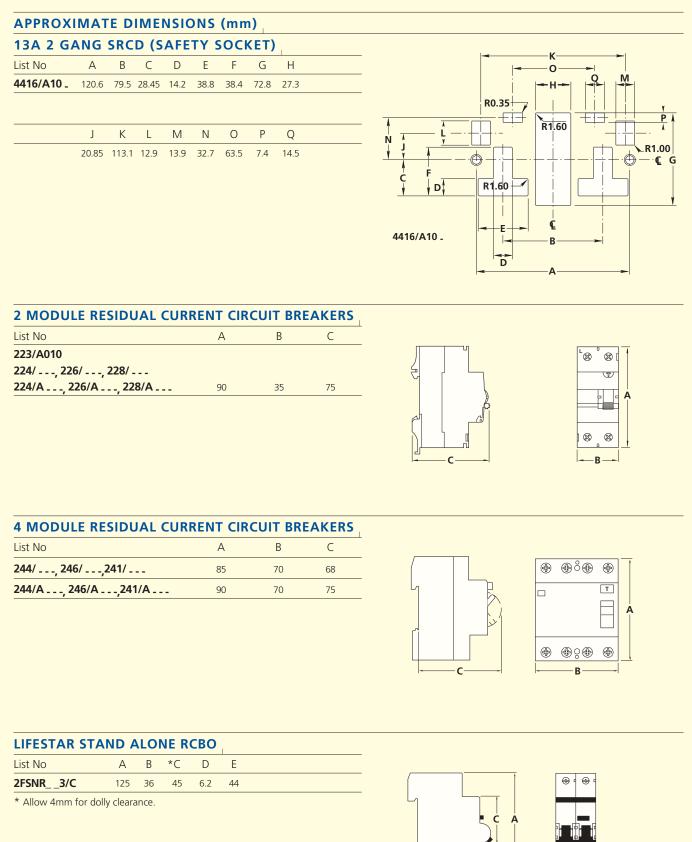


LOADSTAR RCBOs (SINGLE MODULE)

List No	А	В	С	D	Е	
6FSR30B & 6FSR30C	125	17.6	45	6.2	44	



List No	A B C D E	
FSNR3/C	125 36 45 6.2 44	



D

DIMENSIONS LIFESTAR

.

В

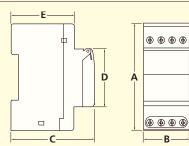
Prabtree

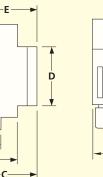
Crabtree

APPROXIMATE DIMENSIONS (mm)

CANTELLE

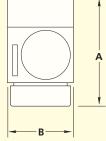
TIME SWITC	HES				
LIST No	А	В	С	D	E
Digital					
301/TD1	86	17.5	66	45	50
302/TD1	83	36	66	45	50
302/TD2	83	36	66	45	50
402/TD1	83	36	66	45	50
402/TD2	83	36	66	45	50
502/TD1	83	36	66	45	50
502/TD2	83	36	66	45	50
Analogue					
301/TQ24	86	17.5	66	45	50
303/TQ24	90	53	66	45	50
303/TQ7	90	53	66	45	50
301/TS11	86	17.5	66	45	50
303/TS24	90	53	66	45	50
Staircase					
301/57	84	18	70	45	42





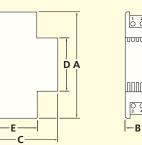
+G-≯

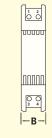
F



BELL TRANSFORMERS

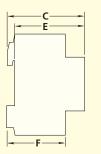
LIST No	А	В	С	D	Е	F	
301/B6, B8, & B12	90	18	64	45	44	6	

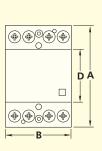




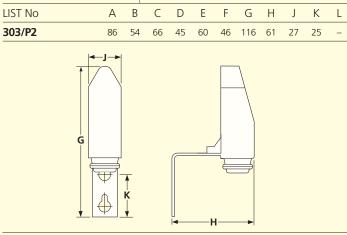
CONTACTORS

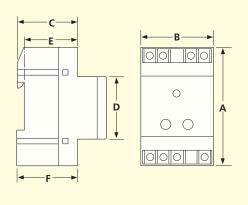
CONTACTORS	1						
LIST No	А	В	С	D	E	F	
CIK22-20	85	17.5	65	45	60	49	
CIK24-30	85	35	65	45	60	49	
CIK24-40	85	35	65	45	60	49	
CIK40-20	84	53	65.5	45	60	48.5	
CIK40-30	84	53	65.5	45	60	48.5	
CIK63-31	84	53	65.5	45	60	48.5	
CIK63-40	84	53	65.5	45	60	48.5	





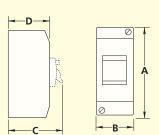
TWILIGHT SWITCH





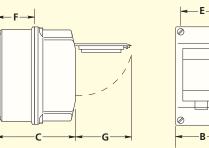
3 MODULE GENERAL PURPOSE ENCLOSURE IP20

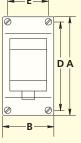
744/3	150	60		
	150	60	79	60
* Allow 4mm fo	or dolly	clear	ance.	



3 MODULE ALL-PURPOSE ENCLOSURE IP65

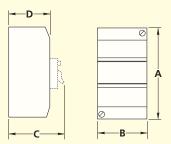
List No	А	В	С	D	Е	F	G	
CBE3	160	85	114	140	65	69	96	



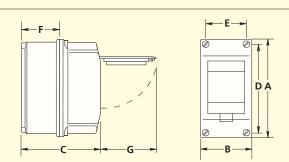


4 MODULE GENERAL PURPOSE ENCLOSURES IP20

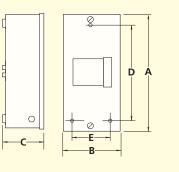
List No	А	В	*C*	D	
744/4	150	79	79	60	
* Allow 4mm	for dolly	/ clear	ance.		



4 MODU	LE A	LL-P	URP	OSE	ENG	CLO	SURE	IP65
List No	А	В	С	D	Е	F	G	
CBE4	160	110	114	140	90	69	96	



4 MODULE FABRICATED STEEL ENCLOSURE IP20







AN/4553

BCL5/FTU

NUMERICAL INDEX

- WIRING ACCESSORIES
- CABLE MANAGEMENT
- CIRCUIT PROTECTION

5855 4426/A03BG 61/B16^{708/383} 7094







100215	105	3002/DO	63, 67	3173/1MC	63	3899BG
1011/1	50, 56	3002/GL	63, 67	3173/1WH	63	4001 to 4004
1011/13		3002/HPC	63, 66	3175/1	65	4005 & 4006
1012/1	50, 56	3002/LO	63, 67	3175/1BK	63	4011/
1012/13	50, 56	3002/MR	63, 67	3175/1MC	63	4011/1 & 4011/13
1017/1	49, 55	3002/SC	62, 66	3175/1WH	63	4011/3_ & 4011/31
1075/1	49, 55	3002/WH	62, 66	3255/1	64	4012/1 & 4012/13
	, 33, 39, 51, 57	3004/1	64	3255/1BK	63	4012/3
	, 33, 39, 51, 57	3004/AC	62, 66	3255/1MC	63	4013/3
1096/1		3004/BKN	63, 66	3255/1WH	63	4014/3
1170/1	50, 56	3004/DO	63, 67	3265/1	65	4015 to 4018
<u>1172/1& 1173/1</u>		3004/GL	63, 67	3265/1BK	63	4015/3
1175/1	50	3004/HPC	63, 66	3265/1MC	63	4015/31
1250W/		3004/LO	63, 67	3265/1WH	63	4016/3
1272/1	49, 55	3004/MR	63, 67	3304/1BK	63	4017/1
<u>1314/1& 1314/13_</u>		3004/SC	62, 66	3304/1MC 3304/1WH	63	4018/
<u>1316/1_ & 1316/13_</u>		3004/WH	62, 66		63	4020/3BG
1340/1	55, 49	3005/AC	62, 66	3306/1	64	4021/3BG
1367/1368	85	3005/BKN	63, 66	3306/1BK	63	4070
13NP	8	3005/DO	63, 67	3306/1MC	63	4075
1400W/	72	3005/GL	63, 67	3306/1WH	63	4096/2WB
1410/1	51, 57	3005/HPC	63, 66	3400/1	65	4096/B
1512/1_ & 1512/13_		3005/LO	63, 67	3400/1BK	63	4096/G/PE
1522/1& 1522/13		3005/MR	63, 67	3400/1MC	63	4096/NM
1832/1& 1832/13		3005/SC	62, 66	3400/1WH	63	4096/P
1837/1& 1837/13		3005/WH	62, 66	3400RD/1	65	4096/P/RD
1901 32, 39, 46		3006/AC	62, 66	3400RD/1BK	63	4097/B
	6, 47, 48, 53, 54	3006/BKN	63, 66	3400RD/1MC	63	4097/P
	, 47, 48, 53, 54	3006/DO	63, 67	3400RD/1WH	63	4130/PU
	6, 47, 48, 53, 54	3006/GL	63, 67	3400TD/1	65	4132/PU
1906	46, 48, 53, 54	3006/HPC	63, 66	3400TD/1BK	63	4170
1908	46, 48, 53, 54	3006/LO	63, 67	3400TD/1MC	63	4171
1932	81	3006/MR	63, 67	3400TD/1WH	63	4172
1932/F	81	3006/SC	62, 66	3401	20	4173
041	17	3006/WH	62, 66	3410	20	4174
2141	17	3015/13	64	3420	20	4175
2147	17	3015/13BK	63	3422	20	4176
2161	13	3015/13MC	63	3432	20	4177 to 4180
2163	13	3015/13WH	63	3442	20	4190/PU
2167	13	3016/13	64	3443	19	4192/PU
2167/	74	3016/13BK	63	3443/HALO	19	4211/BLANK
224/030	95	3016/13MC	63	3450	20	4214/3BG
2240/1 2240/PC	100	3016/13WH	63	3450/9	20	4214/BG
2240/BG	80	3017/1	64	3450/LEFCL	19	4214/BG/RD
2250W/	72	3017/1BK	63	3462/BK	20	4216/3BG
2272/BG	80	3017/1MC	63	3462/WH	20	4216/BG
2330	7	3017/1WH	63	3463/BK	20	4216/BG/RD
2340/	71	3130/PU/1	65	3463/WH	20	4304
2372/	71	3130/PU/1BK	63	3467	105	4304/3D
2382	12.17	3130/PU/1MC	63	3521/13	64	4304/D
2400	13, 17	3130/PU/1WH	63	3521/13BK	63	4306
2400W/	72	3132/PU/1	65	3521/13MC	63	4306/3D
2402/E	13, 17	3132/PU/1BK	63	3521/13WH	63	4306/D
2411/	73	3132/PU/1MC	63	3711	105	4307
3001/AC	62, 66	3132/PU/1WH	63	3713	105	4307/3
3001/BKN	63, 66	3170/1	65	3767	105	4314/
3001/DO	63, 67	3170/1BK	63	3809BG	81	4314//6
3001/GL	63, 67	3170/1MC	63	3824/1	65	4314/1 to 4314/13
3001/HPC	63, 66	3170/1WH	63	3824/1BK	63	4314/136/
3001/LO	63, 67	3171/1	65	3824/1MC	63	4314/16/
3001/MR	63, 67	3171/1BK	63	3824/1WH	63	4314/3
3001/SC	62, 66	3171/1MC	63	3827/13	64	4314/3/6
3001/WH	62, 66	3171/1WH	63	3827/13BK	63	4316/
3002/AC	62, 66	3173/1	65	3827/13MC	63	4316//6
3002/BKN	63, 66	3173/1BK	63	3827/13WH	63	4316/1 to 4316/13

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WIRING ACCESSORIES

WINING AC	CESSORIES						
4316/136/		4489/6	48, 54, 85, 87	4831/1	99	5504/3CHA	
4316/16/		4489/7	46, 53	4831/3	70	5504/3WH	
4316/3	70	4489/CHA	32	4832/	70	5504/CHA	
4316/3/6	70	4490	85, 86	4832//6	70	5504/WH	
4318/	75	4490/6	85	4832/1 & 4832/13	99	5505/WH	
4406/A03	7	4490/7	46, 53	4832/136/	100	5506/3CHA	
4416/A03	74	4490/BK	86	4832/16/	100	5506/3WH	
4416/A103	99	4490/RD	86	4832/3	70	5506/CHA	
4425	87	4491	85, 86	4832/3/6	70	5506/WH	
4425/BK	87	4491/BK	86	4836/	70	5507/CHA	
4425/BKBL	87	4492	85, 86	4836/1	99	5507/WH	
4425/BL	87	4493	85, 86	4837/	70	5508/3WH	
4426/A03BG	80	4493/BK	86	4837//6	70	5508/WH	
4430	39, 85, 86, 96	4494	85, 86, 96	4837/1 & 4837/13	99	5509/CCHA	
1430	96	4499	85	4837/136/	100	5509/WH	
1430/6	48, 54, 85, 87	4500	11	4837/16/	100	5510/WH	
1430/7	46, 53	4500/	11	4837/3	70	5511/CHA	
1430/BK	86	4506	10	4837/3/6	70	5511/WH	
4430/CHA	32	4507	10	4841/3BG & 4841/BG	79	5512/CHA	
4430/RD	86	4512/	74	4842/3BG & 4842/BG	79	5512/WH	
4435	85, 86	4512/1 & 4512/13	101	4846/BG	79	5513/CHA	
4436	85, 86, 96	4512/3	74	4847/3BG & 4847/BG	79	5513/WH	
1440	87	4512/3BG	80	5001 to 5003	107	5514/CHA	
4440/BK	87	4512/BG	80	5001/CVR	107	5514/WH	
4440/BKBL	87	4520/1 & 4520/31	10	5002/3	107	5515/WH	
4440/BL	87	4521/1	10	5002/5	107	5520/3WH	
4450	39, 85, 86	4521/31	10	5005	107	5520/WH	
4450 x 2	96	4522/1	100	5006	107, 109	5532/3WH	
4450/6	48, 54, 85, 87	4522/13	100	5006/2	109	5532/WH	
4450/7	46, 53	4522/3	74	5006/3	109	5543 & 5544	
4450/BK	86	4523	10	5006/4	109	5545/3WH	
1450/CHA	32	4523/3	10	5009	107	5545/WH	
4450/RD	86	4530	39, 85, 86	5010	107, 109	5546/WH	
4451	85, 86	4530/	46	5010/2	109	5550/	
4451/7/WH	46, 53	4530/6	48, 54, 85, 87	5010/3	109	5552/	
4451/ELT	86	4530/7	53	5010/4	109	5561/WH	
446/A03BG	80	4530/CHA	32	5011	107	5562/WH	
4460	39, 85, 86	4530/RD	86	5014/3	107	5565/WH	
4460	96	4535	39, 85, 86, 96	5017/5	107	5571	
4460	96	4535	85, 86, 96	5018 & 5019	107	5572	
4460/	86	4535/6	48, 54, 85, 87	5018/3	107	5573	
4460/6	48, 54, 85, 87	4535/7	46, 53	5018/5	107	5574	
1460/7	46, 53	4535/CHA	32	5019/3	107	5575/WH	
1460/BO	89	4535/RD	86	5020/4	109	5576	
460/CHA	32	4550	39, 86	5021/4	109	5577/WH	
1460/DW	89	4550/6	48, 87	5022/4	109	5583/WH	
460/EF	89	4550/7	46, 53	5100/CHA	32	5801	
460/FF	89	4550/BK	86	517	107	5850 & 5851	
460/FR	89	4550/CHA	32	5170	17, 35	5855 & 5856	
460/FZ	89	4550/RD	86	5170/	72	5855/12	
1460/HB	89	4551	85, 86	5172	17, 35	5855/5	
1460/HD	89	4551/7/WH	46, 53	5172/	72	5855/9	
4460/HT	89	4551/ELT	86	5173	17, 35	5855/S12	
4460/MW	89	4552	85, 86	5173/	72	5855/59	
		4552/6	48, 54, 85, 87	5175	17, 35	5860 & 5861	
440U/NI/	Xh			5175/	72	5870/LEFCL	
		4552/7			12		
4460/TD	89	<u>4552/7</u> 4553	46, 53	5176	17 35	6017/	
4460/TD 4460/WA	89 89	4553	85, 86	5176 5177	17, 35	6017/ 6096/	
1460/TD 1460/WA 1460/WD	89 89 89	4553 4553/6	85, 86 85, 87	5177	17, 35	6096/	
4460/TD 4460/WA 4460/WD 4460/WDR	89 89 89 89	4553 4553/6 4553/7	85, 86 85, 87 46, 53	5177 5177/	17, 35 72	6096/ 6096/1	
4460/TD 4460/WA 4460/WD 4460/WDR 4460/WM	89 89 89 89 89	4553 4553/6 4553/7 4581/BG to 4583/BG	85, 86 85, 87 46, 53 80	5177 5177/ 5430/	17, 35 72 47	6096/ 6096/1 6170/	
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CONDITIONS OF SALE OF GOODS

HOME

1 Contract Terms Ouotations & Orders

- Unless other terms and conditions are expressly accepted by Electrium by means of a specific written amendment hereto signed by Electrium or a Director of Electrium the anenument nereto signed by Electrium or a Director of Electrium the contract will be on the terms and conditions set out below ("the Contract Terms") to the exclusion of any other terms and conditions (except those implied in favour of a seller which are not inconsistent with the Contract Terms) whether or not the same are endorsed upon, delivered with or referred to in any purchase order or other document delivered or sent by the Customer to Electrium or by Electrium to the Buyer reference made by Electrium to the Customer's order, specification or like document will not be deemed to imply that any terms or conditions endorsed upon, delivered with or referred to in such order, specification or like document will have effect to the exclusion or amendment of the Contract Terms. No variation, addition or modification of the Contract Terms conditions shall be be agreed to in writing under the signature of a Director of Electrium. binding on Electrium unless such variation, addition or modification
- Electrum. Any quotation is given on the basis that no contract will come into existence until the Customer places an order pursuant thereto. Any quotation is valid for a period of 30 days only from its date provided that Electrium has not previously withdrawn it.

2 Price

The price of Goods supplied hereunder ("the Goods") is exclusive of VAT or any successor tax thereto unless otherwise agreed in writing. price for the Goods shall be (unless otherwise agreed by Electrium in ed in writing. The writing) the list price of Electrium current at the date of despatch and in writing) the list price of Electrium current at the date of despatch and in the case of an order for delivery by instalments the price payable for each instalment shall be Electrium's list price current at the date of despatch for each instalment. All prices are based on standard pack sizes and quantities and Electrium reserves the right to levy an additional charge if such packs must be broken up to fulfil an order. The price of Goods is inclusive of costs of carriage to the Customer's premises in Great Britain and Northern Ireland except on individual orders having a net value calculated by reference to the Company's most recent price list of lest than (200 (exclution VAT) which ball be evident to an additional of less than £200 (excluding VAT) which shall be subject to an additional charge of not less than £15.00 (excluding VAT) to cover carriage and packing. The price of Goods is based on the costs of materials, labour, sub-contracts, transport, taxes, duties and currency exchange rates ruling at the date of the quotation. Electrium reserves the right to amend the contract price to take account of any variations in these costs or the imposition of any new taxes or duties occurring from whatever cause before delivery of the Goods.

3 Payment

The due date for payment shall be the last day of the month following the month of despatch of Goods supplied by Electrium. Payment made before the due date for payment shall be subject to a settlement discount of 2.5%. VAT is calculated on the discounted value of the invoice and is not subject to settlement discount. Interest at an annual rate of 3%per month will accrue daily and be calculated on a daily basis on overdue accounts from the date of invoice until payment. Notwithstanding any accounts from the date of invoice until payment. Notwithstanding any Contract Term allowing the Customer credit payment shall become due and payable to Electrium immediately upon the termination of the contract. The Customer shall not be entitled to exercise any right of set-off or lien or any similar right or claim in connection with the Goods or the price payable therefor.

4 Packing Materials

Packing cases and cartons will be provided free of charge by Electrium. All pallets used shall remain at all times the property of Electrium and are to be returned to Electrium on demand in good condition. Electrium reserves the right to alter the method of packing without reference to the Customer

5 Damage or Loss in Transit

b Jamage or Loss in Iransit
Electrium will not be liable in respect of any damage or discrepancy, shortage or loss in transit or any claim that the Goods delivered do not otherwise comply with the contract unless the Customer shall have informed the Company in writing teles or facsimile as follows:
(a) Within three days of delivery in the event of any damage,

Within seven days of delivery in the event that the Goods do not comply with the contract, (b)

and (c)

Within twenty-one days of receipt of the Company's invoice in the Wh

event of non-delivery. Where the Goods are accepted from the Company's carriers they shall be deemed to have been checked by the Purchaser and accepted unless the delivery receipt is signed and endorsed 'unexamined' and the packing and its contents are retained for later inspection.

6 Delivery The place of delivery for Goods shall be the Customer's premises or as otherwise agreed by Electrium in writing. The time of delivery will be as agreed between the parties or if no such agreement has been reached will be within a reasonable time and the Company will be entitled to make delivery by instalments. In no circumstances will Electrium be liable for loss or damage of any kind whatsoever caused directly or indirectly by any delay in the delivery of Goods, nor unless such delay exceeds 180 days will any delay entitle the Customer to terminate or rescind the contract. Notwithstanding any other Contract Term, risk in the Goods shall pass to the Buyer when the Goods are delivered to the Customer agent

7 Title of Goods

Until Electrium has been paid in full for the Goods comprised in this and/or any other contract between the Customer and Electrium, the Customer shall hold the Goods in a fiduciary capacity as bailee for Electrium and:

- the title to, ownership of, and the property in, the Goods shall remain vested in Electrium (notwithstanding delivery of the same and parting of the risk therein to the Customer) until payment in full for all Goods comprised in this and every other contract (i) between Electrium and the Customer has been received by Floctrium
- The Customer shall be in possession of the Goods as Electrium's bailee. If so required the Customer shall store the Goods for Electrium without charge to Electrium separate from any goods which are the property of the Customer and/or any third party and ensure that they are clearly marked and identified as belonging to Electrium.
- Electrium reserves the right to require the Customer to return the Goods and may recover and sell the same at any time. For that purpose Electrium's servants and agents together with all necessary (iiii)

and appropriate transport shall be entitled to unrestricted access to the Customer's premises and any other location where the Goods are situated to take possession of the Goods and, if necessary, is martle the Goods from any article or articles to which the have been attached and to remove the Goods from the Custo premises

- Prior to the property in the Goods passing to the Customer Electrium permits the Customer to deliver the Goods to a third party pursuant to a bona fide and arms-length agreement to re-sell (iv) the Goods and allows the Customer to convert or incorporate the Gods into a mix the Gods with other gods but such liberty will cease upon the termination of the contract. Where Electrium is unable to determine whether any gods are Electrium's Gods the Customer shall be deemed to have sold all
- (v) goods of the kind sold by Electrium to the Customer in the order in which they were invoiced to the Customer.

8 Descriptive Matter

Descriptive matter, illustrations, dimensions and weights issued by Electritum are to be regarded as being for guidance only and cannot be held as binding in any way. In pursuance of Electrium's policy of product improvement Electrium reserves the right to alter patterns and designs ithout prior notice.

9 Guarantee

Electrium will make good by replacement (or its option by repair) defects which under proper use appear in the Goods within a period of twelve calendar months after the Goods have been despatched, and which arise solely from faulty design, materials or workmanship provided always that defective Goods have been returned to Electrium and always that defective Goods have been returned to Electrium and Electrium was notified of the defect or suspected defect immediately the same became known to the Customer. The cost of carriage on such returned Goods and the cost of re-delivery of the repaired or new Goods to be borne by Electrium. Save for the Electrium's control equipment which has been correctly repaired or modified by the use of standard parts supplied by Electrium for such purpose, Electrium excludes all liability in respect of any Goods which have been re-finished and dismantled or altered in any way or if the Goods were improperly installed or connected or if the Customer fails to observe or perform the requirements of any maintenance procedures relating to the Goods. Any Goods replaced will belong to Electrium. Any repaired or replacement Goods will be suaranteed on these terms for the unexpired replacement Goods will be guaranteed on these terms for the unexpired portion of the twelve month period. In addition, the obligations of Electrium under this condition will not apply if the Customer is in breach of this or any other contract with Electrium. Subject to this condition, all conditions, warranties and representations, whether express or implied (by statute or otherwise) relating to the Goods are hereby excluded insofar as the same can be excluded without such exclusion being void or unenforceable.

Electrium will be under no liability under the contract for any personal injury, death, loss or damage of any kind whatsoever (other than death personal injury resulting from Electrium's negligence) whether consequential or otherwise including but not limited to loss of profits . In death or and Electrium hereby excludes all conditions, warranties and stipulations express or implied, statutory, customary or otherwise which but for such exclusion would or might subsist in favour of the Customer except that such exclusion will not apply to any implied condition that Electrium has or will have the right to sell the Goods when the property is to pass, or when Electrium deals as a consumer (as defined in section 12 of the Unfair Contract Terms Act 1977), any implied term relating to the conformity of the Goods with their description or sample or as to their continuity of interest bodos with lief rescription of sample of as to the quality or fitness for a particular purpose. In no circumstances will Electrium or its employees, agents or sub-contractors be liable for any loss or damage of any kind whatsoever (other than death or personal injury resulting from Electrium's negligence) whether consequential or otherwise caused directly or indirectly by any negligence or other torious act or breach of statutory dury on the part of Electrium or on the part of any of its employees, agents or sub-contractors in connection with or arising out of the manufacture or supply of the Goods or in connection with any statement given or made (or advice not given or made) by or on behalf of Electrium.

10 Patents

Electrium will indemnify the Customer against any claim of infringement of letters patent, registered design, trademark or copyright (existing at the date of the contract) anising from the use or sale of any article or materials supplied by Electrium to the Customer and against all costs and damages which the Customer may incur in any action for such infringement or for which the Customer may become liable in any such action provided always that this indemnity shall not apply to any infringement which arises in connection with any design or instruction issued or given by the Customer to Electrium or to the use of such Issued or given by the Customer to Electrium or to the use of such article or material in a manner or for a purpose outside the UK or to any infringement which is due to the use of such article or material in association or combination with any other article or material not supplied by Electrium and provided also that this indemnity is conditional on the Customer making no admission in respect of such alleged infringement and giving Electrium the earliest possible notice in writing of much be made on a conting theorement of such alleged and the superior because of the provided and the superior theorement of the material the superior because the superior because of the provided actions of the superior because of the s any claim being made or action threatened or brought against the Customer and on the Customer permitting Electrium at Electrium's expense to conduct any litigation that may ensue and all negotiations for the settlement of a claim. The Customer warrants that any design or instruction issued or given by

the Customer shall not be such as will cause Electrium to infringe any letters patent, registered design, trademark or copyright in the execution of the Customer's order and the Customer agrees to indemnify and keep Electrium indemnified against all liability in the event that such warrant is found to be untrue, misleading or breached.

11 Advice

11 Advice Advice which Electrium or its agents may give to the Customer shall be given in good faith but Electrium shall not be liable for any loss or damage arising directly or indirectly therefrom or attributable thereto unless contained in any written representation or statement issued directly but functions directly by Electrium.

12 Safety

, ner shall ensure that any modifications whatsoever made to The Custo the Goods supplied hereunder comply with the requirements of any applicable Safety Regulations. Plugs supplied hereunder shall be so connected as to ensure that they are safe and in full compliance with any applicable Safety Regulations. The Customer shall ensure that any kits supplied hereunder are so assembled as to ensure that the assembled product is safe and complies with the requirements of any applicable Safety Regulations. Without prejudice to the above provisions, where Electrium provides the Customer with information about the use for which Goods are designed and have been tested and about any conditions to ensure that when put to that use they would be safe and

without risk to health, the Customer shall use the Goods accordingly and comply with the said conditions. To be properly used the Goods shall be selected, installed, commissioned and maintained in accordance with good ngineering practice and under the supervision of suitably qualified

If the cost to Electrium of performing its obligations under any contract shall be increased or reduced by reason of making or amendment after the date of its quotation of any law or of any other order, regulation or bye-law having the force of law that shall affect the performance of Electrium's contractual obligations, the amount of such increase or reduction shall be added to or deducted from the contract price as the case may be

If the Customer cancels, extends or delays or purports to cancel, extend or delay the contract or part thereof, or fails to take delivery of any Goods at the time agreed (if any) or if no time is agreed within a reasonable time, then the Customer will be liable (without prejudice to any other rights of Electrium to claim damages) to indemnify and keep indemnified Electrium against any resulting loss, damage or expense incurred by Electrium in connection with the supply or non-supply of the Goods including the cost of any material, used or intended to be used therefor and the cost of labour and other overheads including a percentage in respect of profit. If Electrium is unable (whether temporarily or permanently) to procure any services or goods necessary to enable it to supply the Goods or if the supply of the Goods is prevented or hindered by reason of any cause beyond Electrium's reasonable control which for the avoidance of doubt and without prejudice to the generality of the foregoing shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes including labour disputes involving the work force or any part thereof of Electrium, restraints or delays affecting shipping or carriers, currency restrictions and Act of God. Electrium supplies the contract by notice in writing to the Customer so far as it relates to Goods not then supplied or work not then done and such cancellation shall not give rise to any claims by the Customer provided that the Customer shall remain liable to pay for Goods delivered prior to the date of such cancellation 15 General

- The headings herein are inserted for convenience only and shall not (a) affect the interpretation of the Contract Terms.
- Should any clause contained in the Contract Terms be held to be invalid such invalidity will not affect the validity of the remaining (b) clauses.
- Any dispute arising out of this contract or the Contract Terms shall (c) Any dispute an any out of an independent arbitrator who shall be appointed by agreement between Electrium and the Customer o default of agreement by the President for the time being of the Institute of Electrical Engineers whose decision shall be binding on both parties.
- Subject to English Law and the Customer submits himself to the non-exclusive jurisdiction of the English Courts.
- Electrium will be entitled to assign sub-contract or sub-let the (e)
- contract or any part thereof. Failure by Electrium to enforce any of the Contract Terms will not be construed as a waiver of any of its rights hereunder. (f)

EXPORT

All Contract Terms set out above apply to overseas transactions (ie sales outside the United Kingdom), where appropriate, except the following: 1.2 Any quotation is given on the basis that no contract will come into

- existence until Electrium despatches an acknowledgement of order
- of 30 days only from its date provided that Electrium has not previously withdrawn it.

2 Price

The price of Goods includes the cost of packing for shipment FOB British Port or Airport except that orders having a net value of £500 and below shall be subject to an additional charge to cover packing and carriage. No allowance will be made in lieu of transportation if the Customer accepts delivery at the factory, container depot or at any other inland destination or provides his own transportation or where packing of a lesser standard is required.

3 Payment

First orders from overseas Customers should be accompanied by bank references to enable payment terms to be agreed. Unless otherwise agreed in writing, payment terms to be agreed. Dines otherWise agreed in writing, payment is due on delivery. Goods shall be deemed to have been delivered when the invoice has been presented in the United Kingdom accompanied by the appropriate documents of title. 16 Others

The Goods will be sold FOB British Port or Airport and the Seller will be under no obligation to give the Buyer notice as specified in Section 32(3) of the Sale of Goods Act 1979. CIF or C & F arrangements can be 32(3) of the Sale of Goods Act 1979. CIF or C & F arrangements can be made if requested by the Customer, at cost, and Electrium will, on receipt of Customer's indemnity, take all reasonable steps to recover from the Underwriters any loss or damage for which they may be liable. The Customer shall be solely responsible for complying with all legislation and regulations governing the importation of the Goods into the country of destination including import and export licences and the payment of duties thereon including but not limited to customs duties and VAT.The Customer shall indemnify Electrium against all costs claims and demands arising out of any breach by the Customer of this Arreement. Agreement.

CONDITIONS OF USE

The products listed in this publication should be installed by suitably Ine products instance in this publication should be instance of solutary qualified personnel in accordance with the requirements of relevant legislation, regulations (including the IEE Wiring Regulations) and the accepted practice in the industry. Any further information which may be required about the use for which any specific product has been designed and tested, or about conditions of use, is available on request. In pursuance of our policy of continuing product improvement, equipment described in this publication is subject to change without notification.





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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Latest details can be obtained from Crabtree.

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