

# GREEN BROOK ELECTRICAL PLC

Product Catalogue  
2011/2012

*-PowerBreaker-* THE FIRST SINCE 1975



NORSLO

Welcome to the new GreenBrook Electrical catalogue.

As part of our strategy of continuous improvement, we have enhanced our offer to provide even more choice than before.

## ~~PowerBreaker~~

Specialising in electrical protection, PowerBreaker is the number one brand for Residual Current Devices in the UK. Since the first product launch back in 1975 GreenBrook has continued to develop its range of RCDs, going beyond existing standards to set a new industry benchmark.



As our 'value added' range of electrical installation products, each KingShield product has been specifically designed to meet the needs of both the installer and the user. The range includes the largest variety of weatherproof products in the UK, an expansive range of timers and sensors, metalclad wiring accessories, a 'popular choice' range of ventilation, fans, ducting accessories and lighting.

## NORSLO

Norslo is a diverse and comprehensive range of electrical installation equipment and accessories which has been active in the market for more than 20 years. During that time, with its dedicated product development team, the range has grown considerably. The Norslo 2011 range is wider than ever before, including cable termination, cable management and fixings, accessories, tools and consumables.

### *Our customer pledge*

#### Customer Service

- Nationwide sales team focused on satisfying local customer needs
- Peace of mind, we will do our best to answer any questions and solve any problems
- Competitive pricing on all products
- Next day delivery - Order by 3pm and have your products the next day

#### Conformity

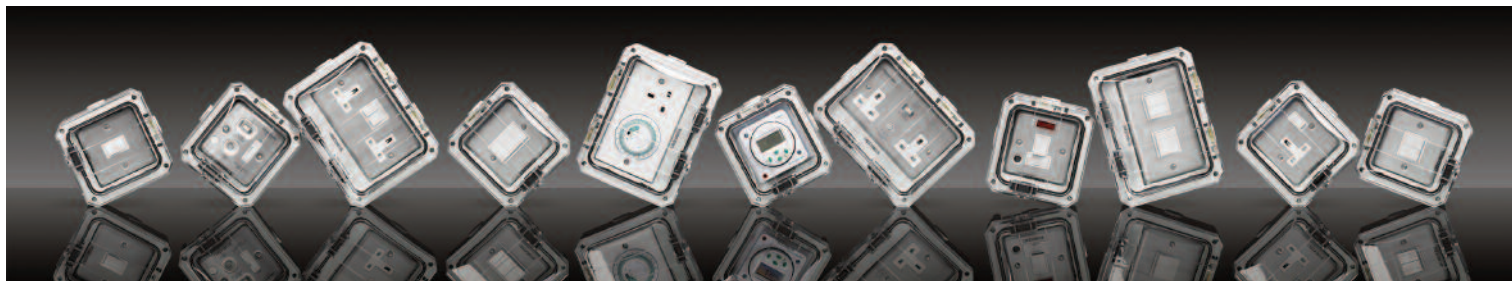
- All products certified to latest British and European standards
- GreenBrook is accredited to ISO9001:2008
- Fully compliant with all RoHS, WEEE and REACH regulations
- All products tested in our own UK laboratories

#### Our Products

- Three great brand offers to satisfy your electrical installation needs
- Unique selection of own designed products to give more choice
- High levels of quality across all sectors
- Top class marketing and promotion to support our customers







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# ~~PowerBreaker~~

THE FIRST SINCE 1975

PowerBreaker is still the number one brand in the market for Residual Current Devices.

GreenBrook have been RCD specialists ever since the launch of the first ever PowerBreaker product back in 1975. Our new range of SRCDs goes beyond the existing standards to set a new benchmark in the industry.

The PowerBreaker brand is recognised and trusted by trade and consumers alike and has the largest range of plug in and socket RCD products in the UK market.

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# The PowerBreaker RCD

In 1975, a GreenBrook company used its expertise in the design and manufacture of relays to produce the very first residual current device to be totally housed within a 13A plug. The product was specifically designed for the protection of publicans while using the electric pumps associated with keg beer. The product was given the name "PowerBreaker" and its use quickly spread within business and to the home. Today many millions of PowerBreaker products are protecting lives, while a wide range of work and leisure activities are pursued.

## The need for RCDs

The use of electricity is so much a part of every day life that it is often taken for granted and the risks associated with its use at home and at work are underestimated or misunderstood.

In a typical year, 19 people die in the UK from electric shock in the home and a similar number die in other buildings. Fire brigades are called to 10,000 incidents attributed to electrical faults, of which half are in the home. These domestic fires result in about 600 serious injuries and 23 deaths.

Residual Current Devices (RCDs) are electrical devices which afford a very high degree of protection against the risks of electrocution and fire caused by earth faults.

Starting with our prototype RCD plug back in 1975, GreenBrook Electrical plc continues to develop high performance products for use in every situation, so that the name PowerBreaker remains synonymous with residual current devices and the protection of life.



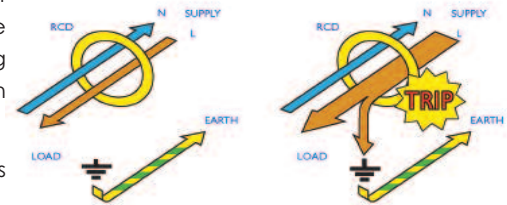
## How Does an RCD Work?

Residual Current Devices are now firmly established around the world as a primary means of providing protection against electrocution and fires caused by electrical faults.

Less than one quarter of an amp (250mA) leaking from a faulty installation can generate sufficient heat to start a fire (the heating effect is proportional to the current squared), or if leaking through a human body for only 200mS can cause heart fibrillation and possible subsequent death. Or to put it another way, the smallest fuse used in a normal electric plug is 3 Amps; it takes less than one twentieth of that current to kill an adult in less than one tenth of a second.

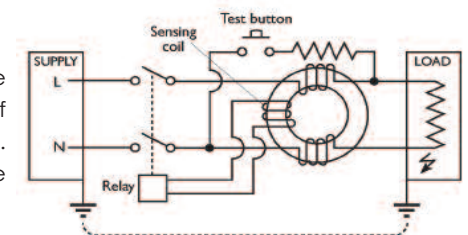
An RCD protects by constantly monitoring the current flowing in the live and neutral wires supplying a circuit or an individual item of equipment.

Under normal circumstances, the current flowing in the two wires is equal. When an earth leakage occurs due to a fault in the circuit or an accident with the equipment, an imbalance occurs and this is detected by the RCD, which automatically cuts off the power before injury or damage can result.



## A Simple RCD Circuit Diagram

To be effective, the RCD must operate very quickly at a low earth leakage current. Those designed to protect human life are engineered to trip out with an earth leakage current of 30mA within 200mS and at a higher earth current of 150mA, they will trip in less than 40mS. These limits are well inside the safety zone, within which electrocution or fire would not be expected to occur.



For further information on RCDs, please refer to the BEAMA RCD Handbook which can be found on the BEAMA website at [www.beama.org.uk](http://www.beama.org.uk).



# RESIDUAL CURRENT DEVICES



## RCD Sockets - Unswitched

**-PowerBreaker-** THE FIRST SINCE 1975

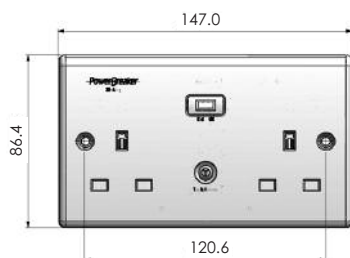


- Mechanically latched (does not need resetting after a power loss)
  - High intensity LED power on indicator
  - Twin earth terminals
  - Conforms to BS 7288:1990 Amd 1, BS 1363-2:1995 Amd 1-3
- EMC Emissions - EN 55014-1:2006 & EN 55014-1:2000 inc A1:2001 & A2:2002  
EMC Immunity - EN 61543:1995 inc A11:2003, A12:2005 & A2:2006

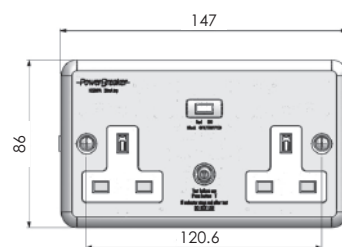
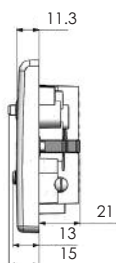
**Technical Data**

Rated voltage	230V AC 50Hz
Max operating current	13A (13A inductive)
Rated trip current	30mA
Typical trip speed	Less than 20mS (typical)
RCD contact break	Double pole
Latching	Mechanical, no need to reset after power loss
Responsive to	Pulsating DC earth faults

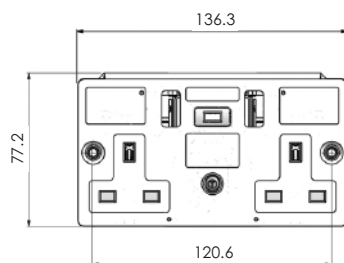
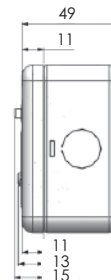
	PART NO.	DESCRIPTION	COLOUR
	<b>H22WPSA-C</b>	RCD Twin Socket Slim profile Scratch resistant urea front plate Fits standard 25mm back box	White
	<b>H22SPA</b>	Moulded front plate Mounting RCD Twin Socket Product is ready for your choice of front plate	White
	<b>H22MPA-C</b>	RCD Twin Socket Complete with metal backbox	Metalclad



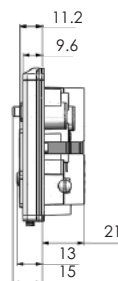
H22WPSA-C



H22MPA-C



H22SPA





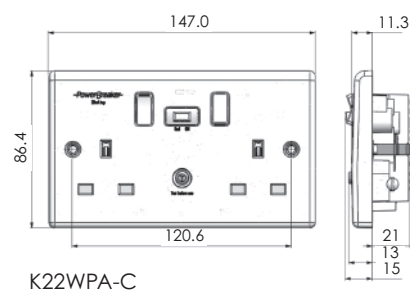
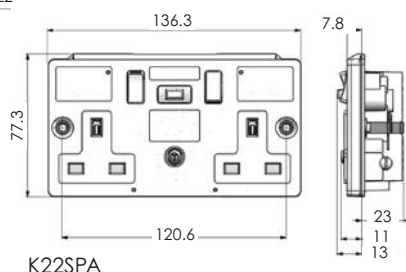
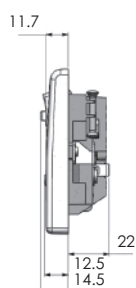
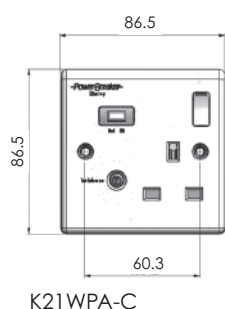
The K range RCD switched sockets are available in single or twin outlets, in white or metalclad with mechanical latching. These sockets replace standard sockets to provide added protection against electrocution in commercial, domestic and industrial environments.

- Mechanically latched (does not need resetting after a power loss)
  - High intensity LED power on indicator
  - Twin sockets fitted with twin earth terminals
  - Conforms to BS 7288:1990, Amd 1 and BS 1363-2:1995 Amd 1-3
- EMC Emissions - EN 55014-1:2006 & EN 55014-1:2000 inc A1:2001 & A2:2002  
EMC Immunity - EN 61543:1995 inc A11:2003, A12:2005 & A2:2006

## Technical Data

Rated voltage	230V AC 50Hz
Max operating current	13A (13A inductive)
Rated trip current	30mA
Typical trip speed	Less than 20mS (typical)
RCD contact break	Double pole
Latching	Mechanical, no need to reset after power loss
Responsive to	Pulsating DC earth faults

PART NO.	DESCRIPTION	COLOUR	
<b>K21WPA-C</b>	RCD Single Switched Socket Slim profile Moulded front plate Fits standard 25mm back box	White	
<b>K22WPA-C</b>	RCD Twin Socket Slim profile Moulded front plate Fits standard 25mm back box	White	
<b>K22SPA</b>	Panel Mounting RCD Twin Switched Socket Moulded front plate Product is ready for your choice of front plate	White	





# RCD Sockets - Switched ~~Power Breaker~~





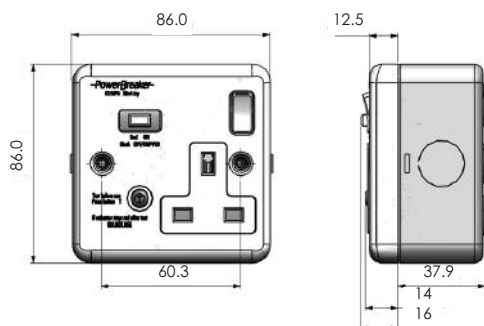
The K range RCD switched sockets are available in single or twin outlets, in white or metalclad with mechanical latching. These sockets replace standard sockets to provide added protection against electrocution in commercial, domestic and industrial environments.

- Mechanically latched (does not need resetting after a power loss)
  - High intensity LED power on indicator
  - Twin sockets fitted with twin earth terminals
  - Conforms to BS 7288:1990, Amd 1 and BS 1363-2:1995 Amd 1-3
- EMC Emissions - EN 55014-1:2006 & EN 55014-1:2000 inc A1:2001 & A2:2002  
EMC Immunity - EN 61543:1995 inc A11:2003, A12:2005 & A2:2006

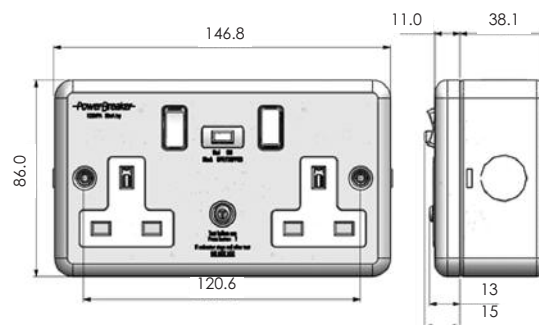
## Technical Data

Rated voltage	230V AC 50Hz
Max operating current	13A (13A inductive)
Rated trip current	30mA
Typical trip speed	Less than 20mS (typical)
RCD contact break	Double pole
Latching	Mechanical, no need to reset after power loss
Responsive to	Pulsating DC earth faults

	PART NO.	DESCRIPTION	COLOUR
	<b>K21MPA-C</b>	RCD Single Switched Socket Complete with metal backbox	Metalclad
	<b>K22MPA-C</b>	RCD Twin Switched Socket Complete with metal backbox	Metalclad



K21MPA-C



K22MPA-C

Suitable for use with all electrical appliances, in public washrooms and areas where water is present, plus fixed electric appliances such as domestic machines in the home, cold drink dispensers and hotel hairdryers.

- Mechanically latched (does not need resetting after a power loss)
- High intensity LED power on indicator
- Mechanical flag trip indicator
- Integral cord outlet and cable clamp
- Fuse holder can be locked out for safety
- Twin earth terminals
- Conforms to BS 1363-4:1995 Amd 1, 2, 3 and BS 7288:1990 Amd 1

EMC Emissions - EN 55014-1:2006 & EN 55014-1:2000 inc A1:2001 & A2:2002

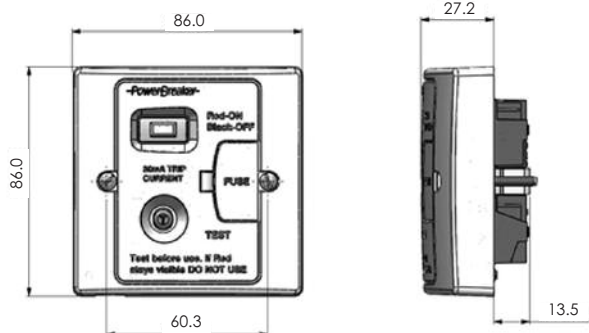
EMC Immunity - EN 61543:1995 inc A11:2003, A12:2005 & A2:2006



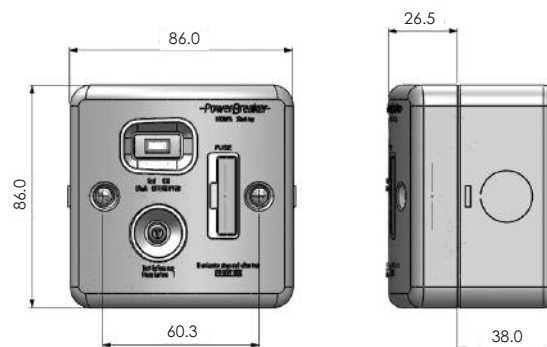
## Technical Data

Rated voltage	230V AC 50Hz
Max operating current	13A (13A inductive)
Rated trip current	30mA
Typical trip speed	Less than 20mS (typical)
RCD contact break	Double pole
Latching	Mechanical, no need to reset after power loss
Responsive to	Pulsating DC earth faults

PART NO.	DESCRIPTION	Colour	
<b>H92WPA-C</b>	RCD Spur Scratch resistant urea front plate Fits 25mm standard back box	White	
<b>H92MPA-C</b>	RCD Spur Complete with metal back box	Metalclad	



H92WPA-C



H92MPA-C



# RCD Plugs & Adaptors





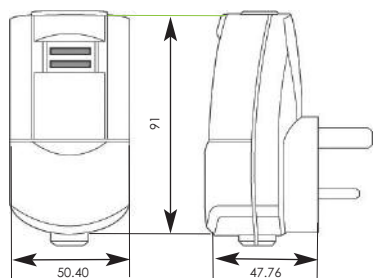
All PowerBreaker RCD plugs and adaptors feature -

- Electrically latched (needs resetting after power loss)
- Single button test/reset operation
- Large easy to see trip indicator
- Conforms to BS 7071, BS 1363

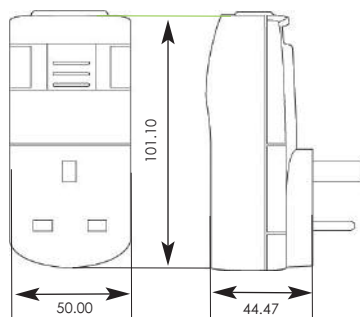
### Technical Data

Rated voltage	230V AC 50Hz
Max operating current	13A (3A inductive)
Rated trip current	30mA
Typical trip speed	<40mS
RCD contact break	Double pole
Latching	Electrical. Needs resetting after power loss
Responsive to	Pulsating DC earth faults

	PART NO.	DESCRIPTION	COLOUR
	<b>J72G-C</b>	RCD Plug	Grey
	<b>J02-C</b>	RCD Adaptor	White



J72G-C



J02-C

The PowerBreaker J62 provides added personal protection against electrocution when using electrical equipment in adverse conditions. The unit has double pole protection and is re-wireable. For use in adverse conditions, such as building sites, plant applications, industrial manufacturing, where water presents a danger and rough handling is expected. Also trips on loss of power supply, preventing unexpected start up of equipment.

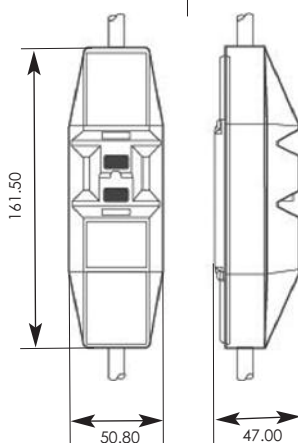
- Suitable for BS/European power supply systems
- Robust construction
- Double pole breaking
- Mechanical flag to indicate contact position
- Separate test and reset buttons
- Conforms to IEC 61540



## Technical Data

Rated trip current	30mA
Typical trip speed	<40mS
RCD contact break	Double pole
Latching	Electrical. Needs resetting after power loss
Responsive to	Pulsating DC earth faults

PART NO.	DESCRIPTION	COLOUR	
<b>J62-T</b>	In-Line RCD Heavy Duty, IP65 Re-wirable terminals	230V AC 50Hz Max operating current 16A (3A inductive)	
<b>J62-Y</b>	In-Line RCD Heavy Duty, IP65 Re-wirable terminals	110V AC 50Hz Max operating current 16A (3A inductive)	
<b>J63-X</b>	In-Line RCD with IEC Lead Indoor use only, IP20 Fully portable	230V AC 50Hz Max operating current 10A (3A inductive)	





KingShield is our 'value added' range of electrical installation products.

Each product with the KingShield brand name has been specifically designed to meet the needs of the installer and the user.

A perfect example of this is the KingShield weatherproof range. It has the largest selection of weatherproof products in the UK, meeting all types of demands for outdoor power. The KingShield brand also includes a comprehensive timer and sensor range, metalclad wiring accessories and a 'popular choice' ventilation range of fans and ducting accessories.

Indoor and Outdoor lighting are also part of the KingShield brand. Lighting is an area that's continually moving forward and GreenBrook have now entered the realm of LED lighting with its new range of indoor LED striplights. Since their launch in December 2010 they're proving to be very popular in the market.

KingShield is the brand of choice for all your installation needs.



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BELLS & CHIMES

# Wirefree Doorchimes



The KingShield wirefree doorchime range will always alert you when somebody is at the door. The "no more wires" digital technology means any of the KingShield wirefree doorchime range may be taken anywhere in the home, garden or mounted on a wall and does not need to be wired to the bell push/transmitter. These doorchimes can also be used with the majority of hardwired bell pushes in conjunction with the DW070A-C (p21) wirefree transmitter.

- Additional chimes can be operated from one or more pushes
- Multiple pushes can be programmed for different sounds
- 16 different frequencies to prevent nuisance operation from neighbouring pushes
- All products clammed for ease of display
- Choice of three different sounds
- Receiver requires 3 x C batteries
- Transmitter supplied with 2 x AAA batteries
- Conforms to EN 300220-3, EN 301489-3, EN 60950-1, EN 62080-1

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>DW010A-C</b>	Herald Wirefree Doorchime Kit 50M range 91dBA White	Receiver - H85 x W119 x D39mm  Transmitter - H90 x W30 x D24mm
	<b>DW040A-C</b>	Ambassador Wirefree Doorchime Kit 100M range 93dBA with volume controller White	Receiver - H110 x W154 x 50mm  Transmitter - H90 x W30 x D24mm
	<b>DW040AG-C</b>	Ambassador Wirefree Doorchime Kit 100M range 93dBA with volume controller Grey	Receiver - H110 x W154 x D50mm  Transmitter - H90 x W30 x D24mm
	<b>DW040AS-C</b>	Ambassador Wirefree Doorchime Kit 100M range 93dBA with volume controller Silver	Receiver - H110 x W154 x D50mm  Transmitter - H90 x W30 x D24mm
	<b>DW041A-C</b>	Ambassador Wirefree Doorchime Receiver only 100M range 93dBA with volume controller White	Receiver - H110 x W154 x D50mm

The KingShield beacon range of doorchimes were specifically designed for people with hard of hearing. The flashing xenon light will assist the doorchime sound in making the occupant aware of callers without disturbing the rest of the household in any other way.

The KingShield wirefree doorchime range will always alert you when somebody is at the door. The "no more wires" digital technology means any of the KingShield wirefree doorchime range may be taken anywhere in the home or garden or even mounted on a wall and does not need to be wired to the bell push/transmitter. These doorchimes can also be used with the majority of hardwired bell pushes in conjunction with the DW070A-C (p21) wirefree transmitter.



- Flashing xenon light
- Additional chimes can be operated from one or more pushes
- Multiple pushes can be programmed for different sounds
- 16 different frequencies to prevent nuisance operation from neighbouring pushes
- All products clammed for ease of display
- Choice of three different sounds
- Receiver requires 3 x C batteries
- Transmitter supplied with 2 x AAA batteries
- Conforms to EN 300220-3, EN 301489-3, EN 60950-1, EN 62080-1

PART NO.	DESCRIPTION	DIMENSIONS	
<b>DW050A-C</b>	Beacon Wirefree Doorchime Kit 100M range 93dBA With flashing xenon light and volume controller	Receiver H110 x W110 x D50mm  Transmitter H90 x W30 x D24mm	
<b>DW050AH-C</b>	EXTRA LOUD Beacon Wirefree Doorchime Kit 100M range 97dBA With flashing xenon light and volume controller	Receiver H110 x W110 x D50mm  Transmitter H90 x W30 x D24mm	
<b>DW051A-C</b>	Beacon Wirefree Doorchime Receiver only 100M range 93dBA With flashing xenon light and volume controller	Receiver H110 x W110 x D50mm  Transmitter H90 x W30 x D24mm	





# Wirefree Doorchimes



The KingShield Plug-in Doorchime Kit simply plugs into any 13A socket and with its adaptor front means a spare socket remains available. The kit is wirefree so bell wire is not required to connect the chime receiver and bell push. The chime receiver has a 100M range and has three different tones to choose from. No batteries are required for the receiver as it is plugged into the mains. The bell push/transmitter is supplied with 2 x AAA batteries.

The KingShield Value Wirefree Doorchime is a smaller doorchime that has three different tones for you to choose from and has a range up to 30M. It requires an A23 battery which is included in the pack for the transmitter and the doorchime receiver requires 2 x C LR14 batteries.

- Conforms to EN 300220-3, EN 301489-3, EN 60950-1, EN 62080-1
- DW030A also conforms to BS1363

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>DW030A-C</b>	Mains Powered Plug-in Wirefree Doorchime Kit 100M range 93dBA (Chime acts as an adaptor)	Receiver H126 x W68 x D48mm (excluding pins)  Transmitter H90 x W30 x D24mm
	<b>DC010A-C</b>	Battery Powered Value Wirefree Doorchime Kit 30M range 90dBA	Receiver H94 x W65 x D34mm  Transmitter H64 x W39 x D20mm

The KingShield wired doorchime range, whether battery or transformer powered, has been specifically designed to complement all types of decor, whilst being simple and easy to install. The chime receiver is connected to the bell push/transmitter via bell wire. It is not connected to the mains power and therefore requires 3 x C cell LR14 batteries or transformer to operate.

- Battery or 8V Transformer operation
- All wired range requires 3 x C cell LR14 batteries
- Clear sound
- Classic wired chime
- Traditional ding dong sound
- Dimensions H170 x W112 x D52mm








PART NO.	DESCRIPTION	DIMENSIONS	
<b>DH020A-C</b>	Galaxy Wired Doorchime	H170 x W112 x D52mm	
<b>DH021A-C</b>	Tubular Wired Doorchime	H170 x W112 x D52mm	
<b>DH022A-C</b>	Moon Wired Doorchime	H170 x W112 x D52mm	
<b>DH050A-C</b>	Galaxy Wired Doorchime Kit Complete with bell push & 5M bell wire	H170 x W112 x D52mm	
<b>DHT01A-C</b>	Mains Powered Wired Doorchime Kit 230V AC 50Hz, 78dBA Complete with integral transformer & bell push (Bell wire not supplied)	H170 x W112 x D52mm	

# Wired Bell Pushes



Use these bell pushes with any wired doorchime by connecting with bell wire. These pushes can also be used with a majority of wirefree doorchimes. Simply attach the KingShield DW070A-C (p21) wirefree transmitter on the inside, on the reverse of the bell push.

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>DP010A-C</b>	Wired Bell Push Black body / white button	H60 x W30 x D20mm
	<b>DP020A-C</b>	Wired Bell Push White body / white button	H60 x W30 x D20mm
	<b>DP220A-C</b>	Wired Bell Push White body / white button with black outline	H52 x W22 x D15mm
	<b>DPL03A-C</b>	Wired Bell Push Black body / white button Illuminating Button	H60 x W30 x D20mm
	<b>DPL04A-C</b>	Wired Bell Push White body / white button Illuminating Button	H60 x W30 x D20mm




## Wired Bell Pushes

Use these bell pushes with any wired doorchime by connecting with bell wire. Most wired bell pushes can easily be converted into an illuminated bell push when used with a KingShield transformer and an illuminated button insert. Inserts are available separately. These pushes can also be used with a majority of wirefree doorchimes. Simply attach the KingShield DW070A-C (p21) wirefree transmitter on the inside, on the reverse of the bell push.

- Can be used with all the KingShield wired doorchimes



PART NO.	DESCRIPTION	INFO	
<b>DP050A-C</b>	Wired Bell Push Brass flush plate / white button	Can be converted to illuminated button using DPL12A	
<b>DP050AC-C</b>	Wired Bell Push Chrome flush plate / white button	Can be converted to illuminated button using DPL13A	
<b>DP060A-C</b>	Wired Bell Push Brass plate / white button with name card	Can be converted to illuminated button using DPL12A	
<b>DP070A-C</b>	Wired Bell Push Brass surface mount plate / black button	-	
<b>DP090-C</b>	Wired Bell Push Brass body / black button	-	

# Wired Bell Pushes



Use these bell pushes with any wired doorchime by connecting with bell wire. Most wired bell pushes can easily be converted into an illuminated bell push when used with a KingShield transformer and an illuminated button insert. Inserts are available separately. These pushes can also be used with a majority of wirefree doorchimes. Simply attach the KingShield DW070A-C (p21) wirefree transmitter on the inside, on the reverse of the bell push.

- Can be used with all the KingShield hard wired range

	PART NO.	DESCRIPTION	INFO
	<b>DP080A-C</b>	Wired Bell Push Brass body / white button	Can be converted to illuminated button using DPL12A
	<b>DP100A-C</b>	Wired Bell Push Antique copper flush body White button with brass surround	Can be converted to illuminated button using DPL12A
	<b>DP110A-C</b>	Wired Bell Push Wrought Iron flush body White button /chrome surround	Can be converted to illuminated button using DPL13A
	<b>DPL12A-C</b>	Illuminating Button Insert White button / brass surround	For use with transformer only
	<b>DPL13A-C</b>	Illuminating Button Insert White button / chrome surround	For use with transformer only

The KingShield DW060A-C Transmitter bell push can be used as an extra bell push with all wirefree chimes.

The KingShield DAT01A-C Bell Chime Transformer is a 1A, double insulated bell & chime transformer. It is 230V AC primary, 4/8/12V AC 1A secondary output. It conforms to EN60742: 1989 and is in clam shell packaging for ease of display.

The KingShield DAT02A-C Bell Transformer is a double insulated bell & chime transformer. 8V AC, 1A secondary output and is DIN rail mounted.

The KingShield DAT03A-C Bell Chime Transformer is a 2A double insulated bell & chime transformer with fully segregated primary and secondary connections. It is 230V primary, 4/8/12V AC, 2A secondary outputs. The DAT03A-C can be surface or DIN rail mounted.

**NOTE:** All KingShield transformers are AC output wireless transmitters and conform to EN300220-3, EN301489-3, EN60950-1



PART NO.	DESCRIPTION	INFO	
<b>DW060A-C</b>	Wirefree Transmitter Bell Push	Dimensions - H90 x W30 x D24mm	
<b>DW070A-C</b>	Wirefree Transmitter Converts an existing bell push to wirefree operation	Dimensions - H100 x W34 x D24mm	
<b>DAT01A-C</b> (Clammed version)  <b>DAT01A</b> (polybag version)	1.0A Bell Chime Transformer  Double insulated 4/8/12 V AC output	Dimensions - H76 x W54 x D41mm  Available in clam shell or polybag packaging	
<b>DAT02A</b>	DIN Rail Mounted Transformer 8V AC, 1A	Dimensions - H91 x W36 x D65mm  Available in poly bags	
<b>DAT03A</b>	2A Bell Chime Transformer 4/8/12V AC output Triple module DIN rail mounting Can be surface mounted	Dimensions - H113 x W63 x D58mm	
<b>DAW01A-C</b>	5M Bell Wire	In clam shell packaging	





# Security Sensors



The KingShield PIR sensor can be used instead of, or in conjunction with other bell pushes to alert the approach of visitors/intruders.

The KingShield window sensor DW081A-C - rings your doorbell if the window is opened, alerting the approach of intruders. Simply mount the two units either side of the window frame.

- For use with wire free chimes
- 433MHz, 16 code
- Up to 50M range
- CE-EMC / LVD / R&TTE approved
- RoHS compliance

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>DW080A-C</b>	Security PIR Sensor 3M detection range Detection angle 60 degrees 2 x 1.5V AA battery Indoor & outdoor use	H104 x W40 x D24mm
	<b>DW081A-C</b>	Security Window Sensor Rings your door if the window is opened 2 x AAA Batteries Indoor use only	H88 x W35 x D17mm



LIGHTING

# Twin Spot Lighting





NEW

Powerful Twin Spot Non-Maintained fittings for defined escape routes in interior applications. Ideal for use in warehouses, factories, long corridors and high bay industrial applications. Twin Halogen lamps supplied with fitting.

- Adjustable heads
- Individual LED lamp health indicators
- Emergency operation duration 3 hours
- Supplied with 2 x 20W Halogen 12V B15 lamps
- Supplied with 2 x 12V 7Ah batteries
- Fused mains terminal
- Steel body & white finish

## Technical Data

Power Rating	230V AC 50Hz
IP Rating	IP20
Dimensions:	H306 x W305 x D70mm
Conforms to:	BS EN 60598-1:2004 & A1:2006 BS EN 60598-2-22:1999

	PART NO.	DESCRIPTION	INFO
	<b>ELTSNM</b>	Twin Spot Light Fitting	Non-Maintained
	<b>ELBTS</b>	Battery replacement for Twin Spot Light	12V x 7Ah

Cost effective emergency luminaires for interior and exterior applications. Available in Non-Maintained (NM) and Maintained (M) versions. Each luminaire is constructed from impact resistant high gloss polycarbonate and can be wall or ceiling mounted.

- Hinged gear tray
- Supplied with 1 x 8W G5 T5 Tube and 2 x D cell battery pack
- Emergency operation duration 3 hours
- Fused mains terminal
- Polycarbonate body & white finish



## Technical Data

Power Rating 230V AC 50Hz

IP Rating IP65

Ambient Temp 0 - 25°C

Dimensions: L352 x W117 x H76mm

Conforms to: BS EN 60598-1:2004 & A1:2006  
BS EN 60598-2-22:1999

PART NO.	DESCRIPTION	INFO	
<b>ELBHM</b>	8W Bulkhead Unit	Maintained	
<b>ELBHM</b>	8W Bulkhead Unit	Non-Maintained	
<b>ELB</b>	Battery replacement for Bulkhead Light	2.4V x 4.5Ah	
<b>ELLBH</b>	Legends for Bulkhead Light	Pack of 4	



# Metal Exit Sign



A range of shallow profile, emergency luminaires for interior applications. Suitable for Non-Maintained (NM) and Maintained (M) usage.

- Emergency operation duration 3 hours
- Supplied with 1 x 8W G5 T5 Tube and 2 x D cell battery pack
- supplied with down legend
- Facility for remote switching
- Dual fused mains terminal & switched
- Steel body & white finish

## Technical Data

Power Rating 230V AC 50Hz

IP Rating IP20

Ambient Temp 0 - 25°C

Dimensions: H190 x W390 x D60mm

Conforms to: BS EN 60598-1:2004 & A1:2006  
BS EN 60598-2-22:1999

	PART NO.	DESCRIPTION	INFO
	<b>ELEXS</b>	8W Exit Light	Maintained/ Non-Maintained
	<b>ELB</b>	Battery replacement for Exit Light	2.4V x 4.5A
	<b>ELLEX</b>	Legends for Exit Light	Reversible

# Hanging LED Exit Signs




A superb metal hanging exit luminaire suitable for interior applications.

- Emergency operation duration 3 hours
- LED status indicators
- Ceiling mounted only
- Supplied with battery pack and down legend
- Fused mains terminal
- Aluminium body with double sided, edge lit, acrylic blade

## Technical Data

Power Rating 230V AC 50Hz  
 IP Rating IP20  
 Ambient Temp 0 - 25°C  
 Dimensions: H250 x W400 x D30mm  
 Legend only: H190 x W400 x D6mm  
 Overall hanging length: 540mm  
 Conforms to: BS EN 60598-1:2004 & A1:2006  
 BS EN 60598-2-22:1999



PART NO.	DESCRIPTION	INFO	
ELHLEDM	8W Hanging Exit Sign	Maintained	
ELBLED	Battery replacement for Hanging LED Light	3.6V, 0.6Ah	
ELLHLED	Legends for Hanging LED Light	Reversible	

# Recessed Light



A superb range of recessed luminaires for interior applications. Available in Non-Maintained (NM) and Maintained (M) versions. These light fittings can be installed as wall or ceiling lights. In ceiling mounted, simply apply the drop down diffuser (ELRDIFF) and legend (ELLRL), to gain a fully operative exit sign.

- Battery life is greater than 3 hrs in emergency mode
- Supplied with 1 x 8W G5 T5 Tube and 2 x D cell battery pack
- Polycarbonate prismatic diffuser
- Fused mains terminal
- Steel body & white finish

## Technical Data

Power Rating	230V AC 50Hz
IP Rating	IP20
Ambient Temp	0 - 25°C
Dimensions:	H137 x W409 x D92mm
Conforms to:	BS EN 60598-1:2004 & A1:2006 BS EN 60598-2-22:1999

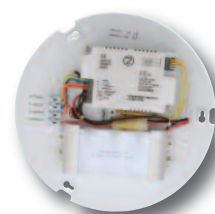


	PART NO.	DESCRIPTION	INFO
	<b>ELRLM</b>	8W Recessed Light	Maintained
	<b>ELRLNM</b>	8W Recessed Light	Non-Maintained
	<b>ELB</b>	Battery replacement for Recessed Light	2.4V x 4.5A
	<b>ELLRL</b>	Legends for Recessed Light	Pack of 4
	<b>ELRDIFF</b>	Drop Down Diffuser for Recessed Light	

This IP44 range of CFL Bulkheads are suitable for indoor or outdoor use. Constructed from polycarbonate and have a high frequency electronic ballast. Available with either prismatic or opal diffuser. All fittings supplied with white bezel as standard.

Improve your stock efficiently by converting the standard CFL Bulkhead range to an Emergency Bulkhead with the addition of the Emergency Gear Tray. By simply replacing the HF ballast tray with the CFLTRAYR Emergency Tray (see below).

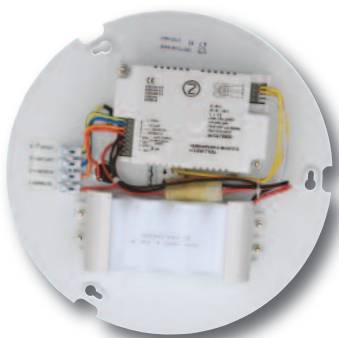


- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- White bezel as standard, alternative black and silver bezels available
- Battery life is greater than 3 hrs in emergency mode when using CFLTRAYR
- Dimensions: Diameter 325mm
- Conforms to EN 60598-2-1

PART NO.	DESCRIPTION	DIFFUSER	
<b>CFLTRAYR</b>	28W Emergency Gear Tray for CFL28 round fittings	For CFL Bulkheads	
<b>CFL28O</b>	28W White bezel	Opal diffuser	
<b>CFL28P</b>	28W White bezel	Prismatic diffuser	



# CFL Decorative Accessories



The KingShield range of CFL Bulkhead accessories are suitable for indoor or outdoor use, the emergency gear trays have high frequency electronic ballasts.

- High Frequency Ballast
- Class 1 construction
- 230V 50Hz
- Battery life is greater than 3 hours in emergency mode

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>CFLTRAYR</b>	28W Emergency Gear Tray for CFL28 round fittings	-
	<b>CFLB28BLK</b>	28W Black Bezel	Diameter: 325mm
	<b>CFLB28CR</b>	28W Chrome Bezel	Diameter: 325mm

This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either a white or black base and prismatic or opal diffuser.

Improve your stock efficiently by converting the standard CFL Bulkhead range to an Emergency Bulkhead with the addition of the Emergency Gear Tray. By simply replacing the HF ballast tray with the CFLTRAYR Emergency Tray (see below).



- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Battery life is greater than 3 hrs in emergency mode when using CFLTRAYR
- Dimensions: Diameter 280mm, Depth 80mm
- Conforms to EN 60598-2-1

PART NO.	DESCRIPTION	FINISH	
<b>CFLTRAYR</b>	28W Emergency Gear Tray for 2DR28 round fittings	for 2DR28 round fittings	
<b>2DR28BO</b>	28W CFL Round	Black Bezel Opal diffuser	
<b>2DR28WO</b>	28W CFL Round	White Bezel Opal diffuser	
<b>2DR28BP</b>	28W CFL Round	Black Bezel Prismatic diffuser	
<b>2DR28WP</b>	28W CFL Round	White Bezel Prismatic diffuser	

# Square CFL Bulkheads - IP65, 28W



This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either white or black base and prismatic or opal diffuser.

Improve your stock efficiently by converting the standard CFL Bulkhead range to an Emergency Bulkhead with the addition of the Emergency Gear Tray. By simply replacing the HF ballast tray with the CFLTRAYS Emergency Tray (see below).

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Battery life is greater than 3 hrs in emergency mode when used with CFLTRAYS
- Dimensions: H250 x W250 x D87mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>CFLTRAYS</b>	28W Emergency Gear Tray	for 2DS28 square fittings
	<b>2DS28BO</b>	28W CFL Square	Black Bezel Opal diffuser
	<b>2DS28WO</b>	28W CFL Square	White Bezel Opal diffuser
	<b>2DS28BP</b>	28W CFL Square	Black Bezel Prismatic diffuser
	<b>2DS28WP</b>	28W CFL Square	White Bezel Prismatic diffuser

## Low Voltage Downlights - Open Back, Fixed

50mm fixed low voltage pressed steel downlights. This range of downlights come complete with half bridge shrouded terminal connector block.

- Supplied with half bridge shrouded terminal connector block
- This fitting requires a GX5.3, 50W Max. lamp - not supplied
- Use with a 12V transformer such as KingShield model ETR60
- Dimensions: Void 125mm, Hole diameter 60mm, Rim diameter 80mm
- Conforms to EN 60598-2-1



PART NO.	DESCRIPTION	FINISH	
<b>DL50CRHB</b>	50W Open Back Fixed Downlight Low Voltage	Chrome	
<b>DL50SCRB</b>	50W Open Back Fixed Downlight Low Voltage	Satin Chrome	
<b>DL50WHB</b>	50W Open Back Fixed Downlight Low Voltage	White	

# Low Voltage Downlights - Open Back, Tilt



- Includes half bridge
- Requires GX5.3 12V 50W max lamp - not supplied
- Use with a 12V transformer such as KingShield model ETR60
- Open back
- Dimensions: Void 110mm, Hole diameter 80mm, Rim diameter 105mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>DL50TCRHB</b>	50W Open Back Tilt Downlight Low Voltage	Polished Chrome
	<b>DL50TSCRHB</b>	50W Open Back Tilt Downlight Low Voltage	Satin Chrome
	<b>DL50TWHB</b>	50W Open Back Tilt Downlight Low Voltage	White



# Mains Voltage Downlights - Open Back, Fixed

This range of downlights provide bright white light to product displays without needing to install a transformer. Complete with TUV approved ceramic lampholder, pre-wired terminal block and retaining clips.



- Includes half bridge
- Requires GU10 50W max lamp - not supplied
- Open back
- Dimensions: Void 75mm, Hole diameter 60mm, Rim diameter 80mm
- Conforms to EN 60598-2-1

PART NO.	DESCRIPTION	FINISH	
<b>DL1050CRO</b>	50W Open Back Fixed Downlight Mains Voltage	Chrome	
<b>DL1050SCRO</b>	50W Open Back Fixed Downlight Mains Voltage	Satin Chrome	
<b>DL1050WO</b>	50W Open Back Fixed Downlight Mains Voltage	White	

# Mains Voltage Downlights - Open Back, Tilt



- Includes half bridge
- Requires GU10 50W max lamp - not supplied
- Open back
- Dimensions: Void 90mm, Hole diameter 72mm, Rim diameter 95mm
- Conforms to EN60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>DL1050TCRO</b>	50W Open Back Tilt Downlight Mains Voltage	Polished Chrome
	<b>DL1050TSCRO</b>	50W Open Back Tilt Downlight Mains Voltage	Satin Chrome
	<b>DL1050TWO</b>	50W Open Back Tilt Downlight Mains Voltage	White

# Mains Voltage Downlights - Closed Back, Fixed

- Includes half bridge
- Requires GU10, 50W max lamp - not supplied
- Closed back
- Dimensions: Void 140mm, Hole diameter 65mm, Rim diameter 80mm
- Conforms to EN 60598-2-1



PART NO.	DESCRIPTION	FINISH	
<b>DL1050CR</b>	50W Closed Back Fixed Downlight Mains Voltage	Polished Chrome	
<b>DL1050SCR</b>	50W Closed Back Fixed Downlight Mains Voltage	Satin Chrome	
<b>DL1050W</b>	50W Closed Back Fixed Downlight Mains Voltage	White	

# Mains Voltage Downlights - Closed Back, Tilt



- Includes half bridge
- Requires GU10, 50W max lamp - not supplied
- Closed back
- Dimensions: Void 140mm, Hole diameter 80mm, Rim diameter 103mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>DL1050TCR</b>	50W Closed Back Tilt Downlight Mains Voltage	Polished Chrome
	<b>DL1050TSCR</b>	50W Closed Back Tilt Downlight Mains Voltage	Satin Chrome
	<b>DL1050TW</b>	50W Closed Back Tilt Downlight Mains Voltage	White

Applies to Firehood only :-

The KingShield Firehood has a 66 minute fire rating. It is Part E Acoustic Compliant and also conforms to BS476 Part 23. It is suitable to cover a wide range of mains & low voltage downlights. It is also ventilated to reduce heat build up.

- Prevents fire from penetrating the ceiling void and retains ceiling's fire protection integrity
- FH1 dimensions: H150mm x W150mm
- FH1 conforms to BS 476 part 23



PART NO.	DESCRIPTION	FINISH	
DLR	Lamp Retainer Ring	Chrome	
LVHDL	Spare lampholder for low voltage downlights	-	
FH1	60 Minute Firehood	White	



# Energy Saving PL Pendants



Energy saving PL Pendant ceiling rose to meet the latest building regulations. Intelligent built-in electronic control gear. With standard 3 plate loop-in ceiling rose and flex. Complies with latest British and European Standard.

- PLP overall length not including lamp 245mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	INFO
	<b>PLP</b>	Energy Saving PL Pendant not suitable for dimming	9 - 18W, 2-4 pin Branded PL/PLC lamps only required G23/G24 (not supplied)
	<b>PLP13</b>	Energy Saving PL Pendant not suitable for dimming	13W, 4 pin G24q1 lamp (not supplied)
	<b>PLP18</b>	Energy Saving PL Pendant not suitable for dimming	18W, 4 pin G24q2 lamp (not supplied)

With NEW technology on the Fire Rated Range from KingShield, the thermal link melts when there is a pre-determined rise in temperature and the rotating shutter closes the fixed vent holes.

As the fire rated downlight is one complete product there is no longer a need for a firehood so the installation time is much quicker. The fire rated range comes complete with lamps.

- 30, 60 & 90 minutes fire rated (to BS 476 - 21: 1987)
- Complies with Part B & E Building Regulations
- Independently tested and approved
- Full protection without firehood
- Mains and low voltage
- Energy saving variants
- IP65 bathroom fittings
- Complete with lamps
- As simple to fit as a conventional downlighter
- Available in white, chrome, satin chrome and brass



## TWIST & LOCK

Lamp holder for quick & easy installation



**Step 1**  
Twist ring  
anti-clock wise



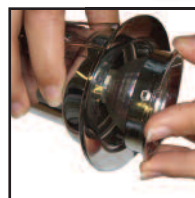
**Step 2**  
Remove  
lock ring



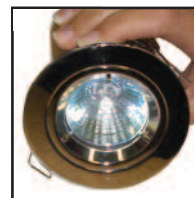
**Step 3**  
Place lampholder  
into lock ring



**Step 4**  
Plug lamp into  
lamp connector



**Step 5**  
Push twist ring into  
lamp housing and  
twist ring clockwise



**Step 6**  
Lamp is now  
in place



## Tested by Darchem Engineering Limited

KingShield Fire Rated products have been tested by Darchem Engineering Limited.

Darchem Engineering Limited is UKAS accredited and has a worldwide reputation for quality and reliability. It is recognised as a world leader in design, development, manufacture and installation of high temperature and thermal engineering solutions for Aerospace, Transport, Marine, Offshore, Petrochemical and Nuclear markets.

Darchem has four business units, three of these provide engineered solutions to the high temperature problems of primarily, the aerospace industry. The fourth provides fire protection and high temperature insulation solutions for the offshore and nuclear markets.

GreenBrook Electrical Ltd made a conscious decision to utilise Darchem's temperature testing facilities to ensure a highly recognised standard of testing to ensure the 30, 60 & 90 minutes fire protection of the KingShield Fire Rated Downlight range.



0666  
Accredited to ISO/IEC  
17025:2005



## Fire Rated Downlights - Mains Voltage, Steel Construction, Fixed



KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Steel construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1001SGUB</b>	50W Fixed Fire Rated Downlight Mains Voltage	Steel construction Brass finish
	<b>FR1001SGUC</b>	50W Fixed Fire Rated Downlight Mains Voltage	Steel construction Chrome finish
	<b>FR1001SGUSC</b>	50W Fixed Fire Rated Downlight Mains Voltage	Steel construction Satin Chrome finish
	<b>FR1001SGUW</b>	50W Fixed Fire Rated Downlight Mains Voltage	Steel construction White finish

## Fire Rated Downlights - Mains Voltage, Steel Construction, Tilt

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Steel construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



PART NO.	DESCRIPTION	FINISH	
<b>FR1002SGUB</b>	50W Tilt Fire Rated Downlight Mains Voltage	Steel construction Brass finish	
<b>FR1002SGUC</b>	50W Tilt Fire Rated Downlight Mains Voltage	Steel construction Chrome finish	
<b>FR1002SGUSC</b>	50W Tilt Fire Rated Downlight Mains Voltage	Steel construction Satin Chrome finish	
<b>FR1002SGUW</b>	50W Tilt Fire Rated Downlight Mains Voltage	Steel construction White finish	

# Fire Rated Downlights - Mains Voltage, Aluminium Construction, Fixed



KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.



Lamp holder for quick  
& easy installation

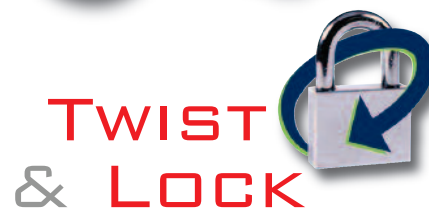
- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1001AGUB</b>	50W Fixed Fire Rated Downlight Mains Voltage	Aluminium construction Brass finish
	<b>FR1001AGUC</b>	50W Fixed Fire Rated Downlight Mains Voltage	Aluminium construction Chrome finish
	<b>FR1001AGUSC</b>	50W Fixed Fire Rated Downlight Mains Voltage	Aluminium construction Satin Chrome finish
	<b>FR1001AGUW</b>	50W Fixed Fire Rated Downlight Mains Voltage	Aluminium construction White finish



# Fire Rated Downlights - Mains Voltage, Aluminium Construction, Fixed, Low Energy Lamps

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in chrome, satin chrome and white
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



Lamp holder for quick  
& easy installation

PART NO.	DESCRIPTION	FINISH	
<b>FR1001AL11WC</b>	11W Fixed Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Chrome finish	
<b>FR1001AL11WSC</b>	11W Fixed Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Satin Chrome finish	
<b>FR1001AL11WW</b>	11W Fixed Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction White finish	

# Fire Rated Downlights - Mains Voltage, Aluminium Construction, Tilt



KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.



Lamp holder for quick  
& easy installation

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1002AGUB</b>	50W Tilt Fire Rated Downlight Mains Voltage	Aluminium construction Brass finish
	<b>FR1002AGUC</b>	50W Tilt Fire Rated Downlight Mains Voltage	Aluminium construction Chrome finish
	<b>FR1002AGUSC</b>	50W Tilt Fire Rated Downlight Mains Voltage	Aluminium construction Satin Chrome finish
	<b>FR1002AGUW</b>	50W Tilt Fire Rated Downlight Mains Voltage	Aluminium construction White finish

# Fire Rated Downlights

## - Mains Voltage, Aluminium Construction, Tilt, Low Energy Lamps

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in white, chrome and satin chrome
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



Lamp holder for quick  
& easy installation

PART NO.	DESCRIPTION	FINISH	
<b>FR1002AL11WC</b>	11W Tilt Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Chrome finish	
<b>FR1002AL11WSC</b>	11W Tilt Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Satin Chrome finish	
<b>FR1002AL11WW</b>	11W Tilt Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction White finish	

# Fire Rated Downlights - Low Voltage, Steel Construction, Fixed



KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Steel construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1001SLVB</b>	50W Fixed Fire Rated Downlight Low Voltage	Steel construction Brass finish
	<b>FR1001SLVC</b>	50W Fixed Fire Rated Downlight Low Voltage	Steel construction Chrome finish
	<b>FR1001SLVSC</b>	50W Fixed Fire Rated Downlight Low Voltage	Steel construction Satin Chrome finish
	<b>FR1001SLVW</b>	50W Fixed Fire Rated Downlight Low Voltage	Steel construction White finish

# Fire Rated Downlights - Low Voltage, Steel Construction, Tilt

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Steel construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



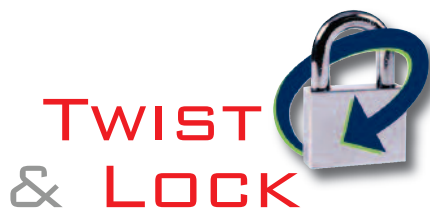
PART NO.	DESCRIPTION	FINISH	
<b>FR1002SLVB</b>	50W Tilt Fire Rated Downlight Low Voltage	Steel construction Brass finish	
<b>FR1002SLVC</b>	50W Tilt Fire Rated Downlight Low Voltage	Steel construction Chrome finish	
<b>FR1002SLVSC</b>	50W Tilt Fire Rated Downlight Low Voltage	Steel construction Satin Chrome finish	
<b>FR1002SLVW</b>	50W Tilt Fire Rated Downlight Low Voltage	Steel construction White finish	



# Fire Rated Downlights - Low Voltage, Aluminium Construction, Fixed



KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.



Lamp holder for quick  
& easy installation

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1001ALVB</b>	50W Fixed Fire Rated Downlight Low Voltage	Aluminium construction Brass finish
	<b>FR1001ALVC</b>	50W Fixed Fire Rated Downlight Low Voltage	Aluminium construction Chrome finish
	<b>FR1001ALVSC</b>	50W Fixed Fire Rated Downlight Low Voltage	Aluminium construction Satin Chrome finish
	<b>FR1001ALVW</b>	50W Fixed Fire Rated Downlight Low Voltage	Aluminium construction White finish

# Fire Rated Downlights - Low Voltage, Aluminium Construction, Tilt

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in brass, chrome, satin chrome and white
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



Lamp holder for quick  
& easy installation

PART NO.	DESCRIPTION	FINISH	
<b>FR1002ALVB</b>	50W Tilt Fire Rated Downlight Low Voltage	Aluminium construction Brass finish	
<b>FR1002ALVC</b>	50W Tilt Fire Rated Downlight Low Voltage	Aluminium construction Chrome finish	
<b>FR1002ALVSC</b>	50W Tilt Fire Rated Downlight Low Voltage	Aluminium construction Satin Chrome finish	
<b>FR1002ALVW</b>	50W Tilt Fire Rated Downlight Low Voltage	Aluminium construction White finish	

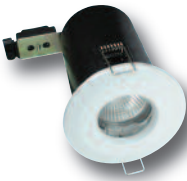
# Fire Rated Downlights - IP65, Low Voltage



**Suitable  
for use in  
bathrooms**

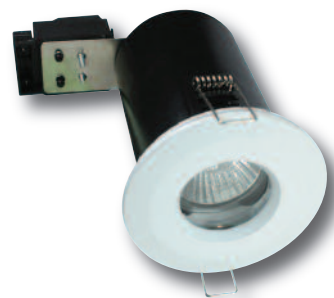
KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in white, chrome and satin chrome
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



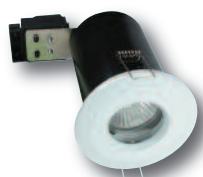
	PART NO.	DESCRIPTION	FINISH
	<b>FR1004CLVC</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Low Voltage	Aluminium construction Chrome finish
	<b>FR1004CLVSC</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Low Voltage	Aluminium construction Satin Chrome finish
	<b>FR1004CLVW</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Low Voltage	Aluminium construction White finish

## Fire Rated Downlights - IP65, Mains Voltage

- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in white, chrome and satin chrome
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21



**Suitable  
for use in  
bathrooms**

PART NO.	DESCRIPTION	FINISH	
<b>FR1004GUC</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage	Aluminium construction Chrome finish	
<b>FR1004GUSC</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage	Aluminium construction Satin Chrome finish	
<b>FR1004GUW</b>	35W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage	Aluminium construction White finish	

# Fire Rated Downlights - IP65 Mains Voltage, Low Energy Lamps



Suitable  
for use in  
bathrooms

KingShield's range of 30, 60 & 90 minute fire rated downlights utilise a new unique technology. KingShield can offer a recessed fire rated downlight range which has dispensed with the requirement of an intumescent seal. This wide offering consists of mains, low voltage and also IP65 bathroom fittings. Available in four different finishes to suit any commercial or residential requirement. Designed and manufactured with fire and acoustic retentive qualities incorporated, KingShield's downlight range not only meet, but surpass the current building regulations. All fittings are complete with lamps for a quick and easy installation.





- Independently tested for 30, 60 & 90 minute fire rated ceilings
- As simple to fit as a conventional downlighter
- Full protection, no need for a firehood
- Adjustable springs for different ceiling thickness
- Available in white, chrome and satin chrome
- Aluminium construction
- Compliant with Part B Building Regulations (fire safety)
- Compliant with Part E Building Regulation (resistance to passage of sound)
- Conforms to BS 476: 21

	PART NO.	DESCRIPTION	FINISH
	<b>FR1004AL11WC</b>	11W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Chrome finish
	<b>FR1004AL11WSC</b>	11W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction Satin Chrome finish
	<b>FR1004AL11WW</b>	11W Fixed IP65 Rated (Bathroom) Fire Rated Downlight Mains Voltage 11W Low Energy Lamp	Aluminium construction White finish

These transformers are built to be maintenance free in an extremely compact design allowing easy installation through the luminaire aperture. Complete with built in auto-resetting short circuit protection and thermal overload fuse cut out.

- ETR60 auto-resetting thermal overload
- EMC approved
- Conforms to EN 61347-2-2



PART NO.	DESCRIPTION	DIMENSIONS	
<b>ET60T-3</b>	60VA Dimmable Transformer Supplied with leads  Auto reset overload and short circuit protection One shot thermal fuse  5 year guarantee	H30 x W115 x D20mm	
<b>ETR60</b>	60VA Dimmable Transformer Supplied with leads  Auto reset overload, short circuit and thermal protection  5 year guarantee	H30 x W120 x D20mm	
<b>LT105T</b>	105VA Electronic Transformer Dimmable 35W - 105W	H48 x W150 x D37mm	
<b>LT150T</b>	150VA Electronic Transformer (Not dimmable)	H58 x W215 x D48mm	



# T5 Fluorescent Fittings



The KingShield range of fluorescent slimline link light fittings are supplied complete with a white (3400K) T5 triphosphor tube, 2 metre power/link lead, prismatic diffuser and mounting brackets (clips).

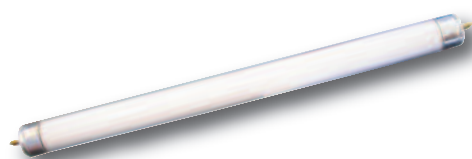
Between 10 and 40 fittings can be interlinked (depending on wattage) by butt and/or lead connections. The slimline design and flicker free quick start makes them a popular product.

- Can be ceiling, wall or under cabinet mounted
- Energy efficient - more light output per watt
- Lightweight - easy to install
- Class II fittings
- Rated at IP20
- Individually switched - good control of light output and local control
- Link leads and clips are also available separately
- Individually boxed with euro hook slot
- Conforms to BS EN 60598-1

PART NO.	DESCRIPTION	DIMENSIONS
<b>SLL6N</b>	6W Slimline T5 Link Light	Length: 267mm Width: 22.5mm Height: 44mm
<b>SLL8N</b>	8W T5 Link Light	Length: 343mm Width: 22.5mm Height: 44mm
<b>SLL14N</b>	14W T5 Link Light	Length: 604mm Width: 22.5mm Height: 44mm
<b>SLL18N</b>	18W T5 Link Light	Length: 640mm Width: 22.5mm Height: 44mm
<b>SLL21N</b>	21W T5 Link Light	Length: 904mm Width: 22.5mm Height: 44mm
<b>SLL24N</b>	24W T5 Link Light	Length: 948mm Width: 22.5mm Height: 44mm
<b>SLL28N</b>	28W T5 Link Light	Length: 1204mm Width: 22.5mm Height: 44mm
<b>SLL32N</b>	32W T5 Link Light	Length: 1250mm Width: 22.5mm Height: 44mm
<b>SLL35N</b>	35W T5 Link Light	Length: 1505mm Width: 22.5mm Height: 44mm

# Replacement T5 Triphosphor Tubes

- Lamp life is approximately 5000 hours on average
- The dimensions given below do not include the pins at each end
- Pin length is 12mm
- Pack qty 10



PART NO.	PART NO.	PART NO.	DESCRIPTION	WATTS
<b>WHITE (3400k)</b>	<b>WARM WHITE (2700k)</b>	<b>COOL WHITE (4000k)</b>	Dimensions below do not include pins	
<b>SLLT6</b>	<b>SLLT6WW</b>	<b>SLLT6CW</b>	T5 Triphosphor Tubes Length: 212mm	6W
<b>SLLT8</b>	<b>SLLT8WW</b>	<b>SLLT8CW</b>	T5 Triphosphor Tubes Length: 288mm	8W
<b>SLLT14</b>	<b>SLLT14WW</b>	<b>SLLT14CW</b>	T5 Triphosphor Tubes Length: 549mm	14W
<b>SLLT18</b>	<b>SLLT18WW</b>	<b>SLLT18CW</b>	T5 Triphosphor Tubes Length: 585mm	18W
<b>SLLT21</b>	<b>SLLT21WW</b>	<b>SLLT21CW</b>	T5 Triphosphor Tubes Length: 849mm	21W
<b>SLLT24</b>	<b>SLLT24WW</b>	<b>SLLT24CW</b>	T5 Triphosphor Tubes Length: 893mm	24W
<b>SLLT28</b>	<b>SLLT28WW</b>	<b>SLLT28CW</b>	T5 Triphosphor Tubes Length: 1149mm	28W
<b>SLLT32</b>	<b>SLLT32WW</b>	<b>SLLT32CW</b>	T5 Triphosphor Tubes Length: 1195mm	32W
<b>SLLT35</b>	<b>SLLT35WW</b>	<b>SLLT35CW</b>	T5 Triphosphor Tubes Length: 1449mm	35W



	Weight (kg)	Lamp Life (hrs)	Voltage (V)	Running Current (I)	Class	IP	Linkable (max fitting no)	Main Materials	Lamp Holder Cap	Colour
<b>SLL6N</b>	0.141	5,000	230V~ 50Hz	30MA	II	IP20	Butt or cable (40)	PBT self extinguishing	G5	White 3400K
<b>SLL8N</b>	0.167	5,000	230V~ 50Hz	33MA	II	IP20	Butt or cable (40)	PBT self extinguishing	G5	White 3400K
<b>SLL14N</b>	0.256	5,000	230V~ 50Hz	58MA	II	IP20	Butt or cable (20)	PBT self extinguishing	G5	White 3400K
<b>SLL18N</b>	0.286	5,000	230V~ 50Hz	80MA	II	IP20	Butt or cable (15)	PBT self extinguishing	G5	White 3400K
<b>SLL21N</b>	0.362	5,000	230V~ 50Hz	87MA	II	IP20	Butt or cable (15)	PBT self extinguishing	G5	White 3400K
<b>SLL24N</b>	0.391	5,000	230V~ 50Hz	95MA	II	IP20	Butt or cable (13)	PBT self extinguishing	G5	White 3400K
<b>SLL28N</b>	0.457	5,000	230V~ 50Hz	126MA	II	IP20	Butt or cable (10)	PBT self extinguishing	G5	White 3400K
<b>SLL32N</b>	0.491	5,000	230V~ 50Hz	144MA	II	IP20	Butt or cable (10)	PBT self extinguishing	G5	White 3400K
<b>SLL35N</b>	1.505	5,000	230V~ 50Hz	170MA	II	IP20	Butt or cable (10)	PBT self extinguishing	G5	White 3400K

# T5 Spares



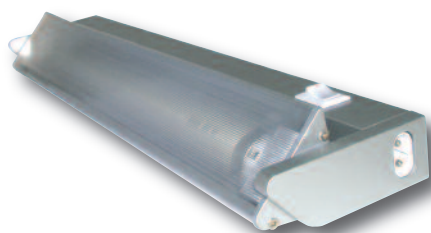
Please note - a 2M power / link lead and 2 mounting clips are supplied with all T5 light fittings.

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>SLLC</b>	T5 Mounting Bracket for 'SLL' light fittings	2 clips per pack
	<b>SLLL250N</b>	T5 Power / Link Lead	250mm
	<b>SLLL500N</b>	T5 Power / Link Lead	500mm
	<b>SLLL1000N</b>	T5 Power / Link Lead	1000mm

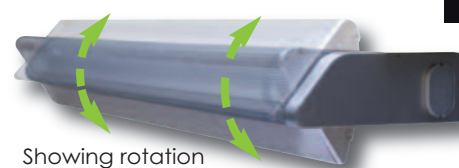
## T5 Rotatable Fluorescent Fittings

The KingShield range of rotatable fluorescent cabinet light fittings are supplied complete with a white (3400K) T5 triphosphor tube, 2 metre power/link lead and prismatic diffuser. Between 10 and 40 fittings can be interlinked by lead connection depending on wattage. The modern and attractive appearance of these fittings with the added benefit of their flicker free quick start makes them particularly suitable for all types of display and discrete lighting applications.

- Can be wall or under cabinet mounted
- Rotatable to 45°
- Silver finish & slim design
- Individually switched - good control of light output and local control
- Link leads and clips also available separately
- Individually boxed with euro hook slot
- Conforms to BS EN 60598-1



PART NO.	DESCRIPTION	DIMENSIONS
<b>RLL8</b>	8W T5 Rotatable Fitting	Length: 360mm Width: 77mm Height: 27mm
<b>RLL14</b>	14W T5 Rotatable Fitting	Length: 621mm Width: 277mm Height: 27mm
<b>RLL18</b>	18W T5 Rotatable Fitting	Length: 655mm Width: 77mm Height: 27mm
<b>RLL21</b>	21W T5 Rotatable Fitting	Length: 923mm Width: 77mm Height: 27mm

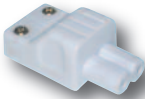
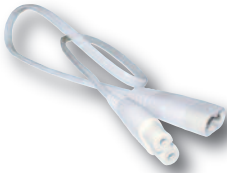
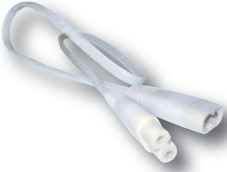



# Rotatable T5 Spares



Please note - a 2M power / link lead is supplied with all T5 Rotatable light fittings.

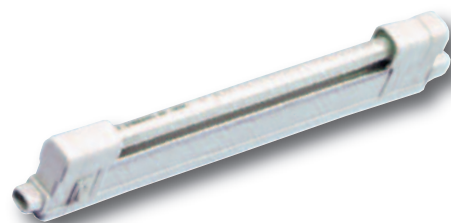
The RLLC female plug connector is useful if you want to connect a RLL light fitting to a cable that is already installed. Making the changeover very quick and easy.

	PART NO.	DESCRIPTION	DIMENSIONS
	RLLC	Female Plug Connector Re-wireable	-
	SLLL250N	T5 Power / Link Lead	250mm
	SLLL500N	T5 Power / Link Lead	500mm
	SLLL1000N	T5 Power / Link Lead	1000mm

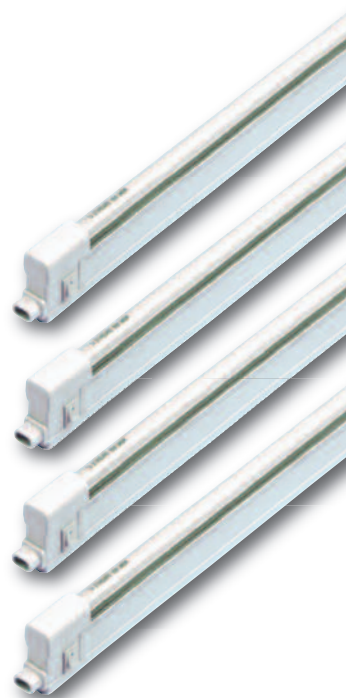
# T4 Fluorescent Fittings

The KingShield range of fluorescent mini link light fittings are supplied complete with a white (3400K) T4 triphosphor tube, 2 metre power/link lead and mounting brackets (clips). Between 8 - 37 fittings can be interlinked (depending on wattage) by butt and/or lead connections. The slimline design and flicker free quick start makes them a popular product.

- Can be ceiling, wall or under cabinet mounted
- Slim design - Unobtrusive
- Individually switched - for good control of light output and local control
- Flicker free quick start
- Class II fittings
- Rated at IP20
- Made from self extinguishing PBT
- G5 lamp holder cap
- Link leads, clips and diffusers are also available separately
- Individually boxed with euro hook slot
- Manufactured to BS EN 60 598-1



PART NO.	DESCRIPTION	DIMENSIONS
<b>MLL6N</b>	6W T4 Link Light	Length: 275mm Width: 20mm Height: 44mm
<b>MLL10N</b>	10W T4 Link Light	Length: 423mm Width: 20mm Height: 44mm
<b>MLL16N</b>	16W T4 Link Light	Length: 525mm Width: 20mm Height: 44mm
<b>MLL20N</b>	20W T4 Link Light	Length: 625mm Width: 20mm Height: 44mm
<b>MLL25N</b>	25W T4 Link Light	Length: 690mm Width: 20mm Height: 44mm
<b>MLL30N</b>	30W T4 Link Light	Length: 821mm Width: 20mm Height: 44mm





# Replacement T4 Triphosphor Tubes



- The dimensions given below do not include the pins
- Lamp life is approximately 5000 hours on average
- Pack qty 10



PART NO.	PART NO.	PART NO.	DESCRIPTION
<b>WHITE</b> <b>(3400k)</b>	<b>WARM WHITE</b> <b>(2700k)</b>	<b>COOL WHITE</b> <b>(4000k)</b>	Dimensions below do not include pins
<b>MLLT6</b>	<b>MLLT6WW</b>	<b>MLLT6CW</b>	6W T4 Triphosphor Tubes Length: 206mm
<b>MLLT10</b>	<b>MLLT10WW</b>	<b>MLLT10CW</b>	10W T4 Triphosphor Tubes Length: 356mm
<b>MLLT16</b>	<b>MLLT16WW</b>	<b>MLLT16CW</b>	16W T4 Triphosphor Tubes Length: 455mm
<b>MLLT20</b>	<b>MLLT20WW</b>	<b>MLLT20CW</b>	20W T4 Triphosphor Tubes Length: 554mm
<b>MLLT25</b>	<b>MLLT25WW</b>	<b>MLLT25CW</b>	25W T4 Triphosphor Tubes Length: 638mm
<b>MLLT30</b>	<b>MLLT30WW</b>	<b>MLLT30CW</b>	30W T4 Triphosphor Tubes Length: 750mm

	Weight (kg)	Lamp Life (hrs)	Voltage (V)	Running current (I)	Class	IP	Linkable (max fitting no)	Main materials	Colour
<b>MLL6N</b>	0.134	5,000	230V~50Hz	0.045A	II	IP20	Butt or cable (37)	PBT self extinguishing	White 3400K
<b>MLL10N</b>	0.200	5,000	230V~50Hz	0.08A	II	IP20	Butt or cable (21)	PBT self extinguishing	White 3400K
<b>MLL16N</b>	0.224	5,000	230V~50Hz	0.11A	II	IP20	Butt or cable (15)	PBT self extinguishing	White 3400K
<b>MLL20N</b>	0.254	5,000	230V~50Hz	0.14A	II	IP20	Butt or cable (12)	PBT self extinguishing	White 3400K
<b>MLL25N</b>	0.300	5,000	230V~50Hz	0.18A	II	IP20	Butt or cable (9)	PBT self extinguishing	White 3400K
<b>MLL30N</b>	0.335	5,000	230V~50Hz	0.21A	II	IP20	Butt or cable (8)	PBT self extinguishing	White 3400K

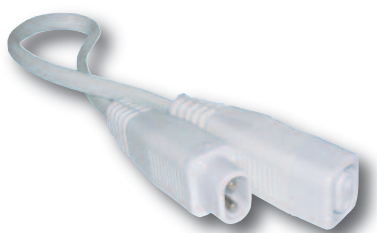
## T4 Diffusers

- Prismatic diffusers
- Made from polycarbonate
- For use with KingShield MLL range



PART NO.	DESCRIPTION	FINISH	
<b>MLLD6</b>	Diffuser for MLL6N 6W fitting	Clear	
<b>MLLD10</b>	Diffuser for MLL10N 10W fitting	Clear	
<b>MLLD16</b>	Diffuser for MLL16N 16W fitting	Clear	
<b>MLLD20</b>	Diffuser for MLL20N 20W fitting	Clear	
<b>MLLD25</b>	Diffuser for MLL25N 25W fitting	Clear	
<b>MLLD30</b>	Diffuser for MLL30N 30W fitting	Clear	

# T4 Spares



Please note - a 2M power / link lead and mounting brackets are supplied with all T4 light fittings.

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>MLLC</b>	T4 Mounting Bracket for 'MLL' light fittings	2 clips per pack
	<b>MLLL250N</b>	T4 Power / Link Lead	250mm
	<b>MLLL500N</b>	T4 Power / Link Lead	500mm
	<b>MLLL1000N</b>	T4 Power / Link Lead	1000mm

## Introducing the NEW LED Striplight Systems

An exciting addition to the KingShield lighting range, our **NEW LED** striplight systems are available in either a white, cool white or blue light.

- 3 kits giving endless fitting combinations
- Can link up to a max of 60 LEDs (180cms)
- Can combine 10 LEDs fitting & 20 LEDs fitting up to total of 60 LEDs
- Fittings can be close butted or linked with adjustable link lead
- Great effect when white, cool white & blue are mixed together

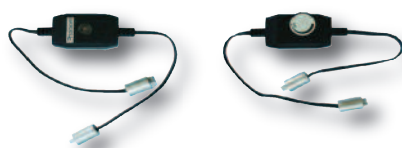


**NEW**

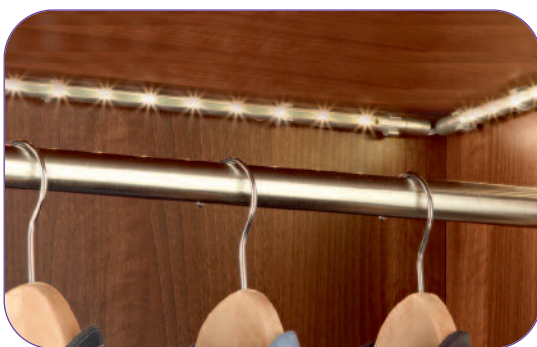
'All colours come clam packed for easy display'

### NOW WITH TWO NEW ACCESSORIES!

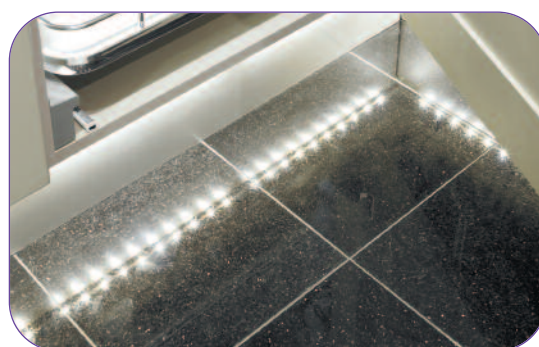
See the LED Accessories page overleaf



An ideal lighting solution for....



Wardrobes



Cupboards/Skirting



Display Cabinets



Kitchens

# LED Striplights



LED Striplights add subtle downlighting to your home. Ideal for mounting under kitchen units, shelves, wardrobes, display cabinets, alcoves and much more. The striplights simply click together, no tools required.

- Available in white, cool white and blue LEDs
- Lifespan 25,000 hours
- Connect up to six units max
- 12V
- Conforms to BS EN 60950-1



	PART NO.	DESCRIPTION	CONTENTS	DIMENSIONS
	<b>LEDSLW1-C</b>	LED Striplight Starter Kit 2 x 30cm White 3,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws 1 x In-line LED driver	12mm diameter 10 x LED lights
	<b>LEDSLB1-C</b>	LED Striplight Starter Kit 2 x 30cm Blue 50,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws 1 x In-line LED driver	12mm diameter 10 x LED lights
	<b>LEDSLC1-C</b>	LED Striplight Starter Kit 2 x 30cm Cool White 4,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws 1 x In-line LED driver	12mm diameter 10 x LED lights
	<b>LEDSLW2-C</b>	LED Striplight Add On 2 x 30cm White 3,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 10 x LED lights
	<b>LEDSLB2-C</b>	LED Striplight Add On 2 x 30cm Blue 50,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 10 x LED lights
	<b>LEDSLC2-C</b>	LED Striplight Add On 2 x 30cm Cool White 4,000K	2 x 30cm LED Striplights 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 10 x LED lights






## LED Striplights

LED Striplights add subtle downlighting to your home. Ideal for mounting under kitchen units, shelves, wardrobes, display cabinets, alcoves and much more. The striplights simply click together, no tools required.

- Available in white, cool white and blue LEDs
- Lifespan 25,000 hours
- Connect up to six units max
- 12V
- Conforms to BS EN 60950-1



PART NO.	DESCRIPTION	CONTENTS	DIMENSIONS	
<b>LED3LW3-C</b>	LED Striplight Add On 1 x 60cm White 3,000K	1 x 60cm LED Striplight 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 20 x LED lights	
<b>LED3LB3-C</b>	LED Striplight Add On 1 x 60cm Blue 50,000K	1 x 60cm LED Striplight 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 20 x LED lights	
<b>LED3LC3-C</b>	LED Striplight Add On 1 x 60cm Cool White 4,000K	1 x 60cm LED Striplight 1 x 30cm Extension Lead 8 x Crimps 2 x Female connectors 2 x Male connectors 8 x Mounting clips & screws	12mm diameter 20 x LED lights	



# LED Striplight Accessories





NEW

The KingShield LED Striplights range add subtle downlighting to the home. Ideal for mounting under kitchen units, shelves, wardrobes, display cabinets, alcoves and much more. The striplights simply click together, no tools are required.

These easy plug-in accessories for LED striplight range enable local control by light level.

- Can be installed at beginning of fittings
- Can also be installed between fittings



	PART NO.	DESCRIPTION	FINISH
	<b>LEDDIM</b>	In-line Dimmer for LED Striplights	Black
	<b>LEDPC</b>	In-line Photocell for LED Striplights	Black





## Low Voltage Cabinet Light Fittings

These low voltage fittings can be either surface or flush mounted and are supplied complete with protective glass cover and 12V 20W M47 capsule lamp.

- 12V 20W M47 capsule lamp - supplied
- Can be surface or flush mounted
- Conforms to EN 60598-1



PART NO.	DESCRIPTION	FINISH	
LLSCR	Single Cabinet Light 20W LV	Chrome	
LLSW	Single Cabinet Light 20W LV	White	

# Striplights / Shaver Lights




- Dual voltage shaver sockets
- Accepts British and continental plugs
- Mains isolation on removal of diffuser
- Safety automatic switching shutter - prevents two plugs being inserted at the same time
- Lamps are supplied with these fittings
- 230V 50Hz supply
- Double insulated class II transformer
- 20VA double wound overload protection transformer
- F marked
- Dimensions: H70 x W440 x D71mm
- Conforms to EN 60598-1 & EN 61558-2-5 (except A10-PULLN)

	PART NO.	DESCRIPTION	FINISH
	<b>A4N</b>	Shaver Light 60W Tungsten Linear 284mm Double Cap Lamp Dual Voltage IP20	White
	<b>A4PL</b>	Shaver Light 2 pin, 11W PL Lamp Dual Voltage IP20	White
	<b>A4PLC</b>	Shaver Light 2 pin, 11W PL Lamp Dual Voltage IP20	Polished Chrome

- Dual voltage shaver sockets (except A10-PULLN)
- Accepts British and continental plugs
- Mains isolation on removal of diffuser
- Safety automatic switching shutter - prevents two plugs being inserted at the same time
- Lamps are supplied with these fittings
- 230V 50Hz supply
- Double insulated class II transformer
- 20VA double wound overload protection transformer
- F marked
- Conforms to EN 60598-1 & EN 61558-2-5 (except A10-PULLN)



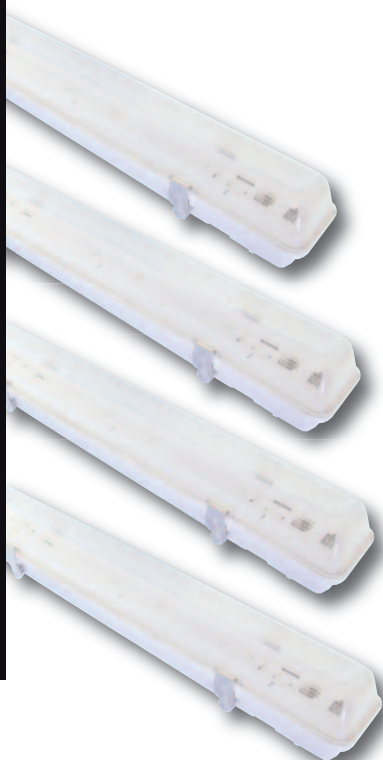
PART NO.	DESCRIPTION	DIMENSIONS	
<b>STA4</b>	Shaver Light 60W Tungsten Linear 284mm Double Cap Lamp Dual Voltage IP20	H60 x W495 x D70mm	
<b>ST44</b>	Shaver Light 60W Tungsten Linear 284mm Double Cap Lamp Dual Voltage IP44	H90 x W580 x D75mm	
<b>ST44PL</b>	Shaver Light 2 x 9W, 2 pin, Compact Fluorescent Lamp Dual Voltage IP44	H90 x W580 x D75mm	
<b>A10-PULLN</b>	Strip Light 60W Tungsten Linear 284mm Double Cap Lamp Single voltage (230V) IP20	H45 x W365 x D60mm	

# IP65 Anti-Corrosion Lights



The KingShield ACP Light fittings are constructed with a plastic ABS body and a polycarbonate diffuser. They have a 230V switch start and power factor correction control gear.

- Complete with stainless steel clips
- Lamps not supplied
- Conforms to BS EN 60598-1





PART NO.	DESCRIPTION	SIZE
<b>ACP118N</b>	1 x 18W Single Lamp Anti Corrosion Light Fitting	600mm
<b>ACP218N</b>	2 x 18W Twin Lamp Anti Corrosion Light Fitting	600mm
<b>ACP136N</b>	1 x 36W Single Lamp Anti Corrosion Light Fitting	1200mm
<b>ACP236N</b>	2 x 36W Twin Lamp Anti Corrosion Light Fitting	1200mm
<b>ACP158N</b>	1 x 58W Single Lamp Anti Corrosion Light Fitting	1500mm
<b>ACP258N</b>	2 x 58W Twin Lamp Anti Corrosion Light Fitting	1500mm
<b>ACP170N</b>	1 x 70W Single Lamp Anti Corrosion Light Fitting	1800mm
<b>ACP270N</b>	2 x 70W Twin Lamp Anti Corrosion Light Fitting	1800mm
<b>ACPLV158N</b>	1 x 58W Single Lamp Anti Corrosion Light Fitting 110V	1500mm
<b>ACPLV258N</b>	2 x 58W Twin Lamp Anti Corrosion Light Fitting 110V	1800mm

## IP44 Brick Lights

The range of brick lights from KingShield are flush, neat and discreet. Constructed with a diecast aluminium body and opal glass, they are made to fit a standard house brick cavity. Making these lights ideal for lighting garden areas, paths, walkways and underpasses etc. These brick lights are also suitable for use indoors in cellars and stairwells.

- Supplied with a plain and a louvred front
- Requires 9W, 2 pin PL fluorescent lamps - supplied
- Conforms to EN 60598-1
- Dimensions: Body size H87 x W225 x D73mm  
Louvre size H100 x W233 x D70mm



PART NO.	DESCRIPTION	FINISH	
<b>LVBLB-A</b>	9W PL Bricklight Supplied with a plain and a louvred front	Black	
<b>LVBLW-A</b>	9W PL Bricklight Supplied with a plain and a louvred front	White	






# CFL Decorative Bulkheads - IP44



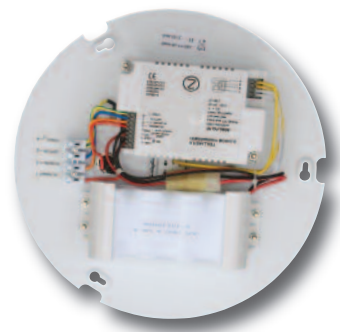
This IP44 range of CFL bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either prismatic or opal diffuser. All fittings supplied with white bezel as standard.

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- White bezel as standard, alternative black and silver bezels available
- Dimensions 16W: Diameter 270mm, 28W: Diameter 325mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	DIFFUSER
	<b>CFL16O</b>	16W White bezel	Opal diffuser
	<b>CFL16P</b>	16W White bezel	Prismatic diffuser
	<b>CFL28O</b>	28W White bezel	Opal diffuser
	<b>CFL28P</b>	28W White bezel	Prismatic diffuser

The KingShield range of CFL Bulkhead accessories are suitable for indoor or outdoor use, the emergency gear trays have high frequency electronic ballasts.

- High Frequency Ballast
- Class 1 construction
- 230V 50Hz
- Battery life is greater than 3 hours in emergency mode



PART NO.	DESCRIPTION	DIMENSIONS	
<b>CFLTRAYR</b>	28W Emergency Gear Tray for CFL28 round fittings	-	
<b>CFLB16BLK</b>	16W Black Bezel	Diameter: 270mm	
<b>CFLB16CR</b>	16W Chrome Bezel	Diameter: 270mm	
<b>CFLB28BLK</b>	28W Black Bezel	Diameter: 325mm	
<b>CFLB28CR</b>	28W Chrome Bezel	Diameter: 325mm	

# Round CFL Bulkheads - IP65, 16W



This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either white or black base and prismatic or opal diffuser.

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Dimensions: Diameter 200mm, Depth 80mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>2DR16BO</b>	16W Round CFL Bulkhead	Black Bezel Opal diffuser
	<b>2DR16WO</b>	16W Round CFL Bulkhead	White Bezel Opal diffuser
	<b>2DR16BP</b>	16W Round CFL Bulkhead	Black Bezel Prismatic diffuser
	<b>2DR16WP</b>	16W Round CFL Bulkhead	White Bezel Prismatic diffuser

## Round CFL Bulkheads - IP65, 28W

This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either white or black base and prismatic or opal diffuser.

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Easily converts to emergency bulkhead - simply replace ballast with emergency gear tray (CFLTRAYR)
- Battery life is greater than 3 hrs in emergency mode when using CFLTRAYR
- Dimensions: Diameter 280mm, Depth 80mm
- Conforms to EN 60598-2-1



PART NO.	DESCRIPTION	FINISH	
<b>2DR28BO</b>	28W Round CFL Bulkhead	Black Bezel Opal diffuser	
<b>2DR28WO</b>	28W Round CFL Bulkhead	White Bezel Opal diffuser	
<b>2DR28BP</b>	28W Round CFL Bulkhead	Black Bezel Prismatic diffuser	
<b>2DR28WP</b>	28W Round CFL Bulkhead	White Bezel Prismatic diffuser	
<b>CFLTRAYR</b>	28W Emergency Gear Tray for 2DR28 round fittings	for 2DR28 Round fittings	

# Square CFL Bulkheads - IP65, 16W



This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either white or black base and prismatic or opal diffuser.

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Dimensions: H250 x W250 x D87mm
- Conforms to EN 60598-2-1

	PART NO.	DESCRIPTION	FINISH
	<b>2DS16BO</b>	16W Square CFL Bulkhead	Black Bezel Opal diffuser
	<b>2DS16WO</b>	16W Square CFL Bulkhead	White Bezel Opal diffuser
	<b>2DS16BP</b>	16W Square CFL Bulkhead	Black Bezel Prismatic diffuser
	<b>2DS16WP</b>	16W Square CFL Bulkhead	White Bezel Prismatic diffuser

# Square CFL Bulkheads - IP65, 28W

This range of CFL Bulkheads are suitable for indoor or outdoor use, constructed from polycarbonate and have a high frequency electronic ballast. Available with either white or black base and prismatic or opal diffuser.

- High frequency ballast
- Class 1 construction
- Polycarbonate diffuser and base
- GR8q, 4 pin lamp supplied
- 230V 50Hz
- F marked - suitable for installation on to normal flammable surfaces
- Easily converts to emergency bulkhead - simply replace ballast with emergency gear tray (CFLTRAYS)
- Battery life is greater than 3 hrs in emergency mode when using CFLTRAYS
- Dimensions: H250 x W250 x D87mm
- Conforms to EN 60598-2-1



PART NO.	DESCRIPTION	FINISH	
<b>2DS28BO</b>	28W Square CFL Bulkhead	Black Bezel Opal diffuser	
<b>2DS28WO</b>	28W Square CFL Bulkhead	White Bezel Opal diffuser	
<b>2DS28BP</b>	28W Square CFL Bulkhead	Black Bezel Prismatic diffuser	
<b>2DS28WP</b>	28W Square CFL Bulkhead	White Bezel Prismatic diffuser	
<b>CFLTRAYS</b>	28W Emergency Gear Tray	for 2DS28 square fittings	



# IP65 Bulkheads



## POLY & BHEAD Range -

- B22 bayonet cap lampholder
- Requires 40W tungsten filament lamps - not supplied
- Suitable for use with low energy lamps
- Dimensions: H130 x W240 x D100mm (except POLYP)
- POLYP dimensions: H120 x W240 x D130mm

## ENERGY Range -



- ENERGY1P & ENERGY2P require 9W, 2 pin PL lamps
- Dimensions: H130 x W240 x D100mm

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>POLY</b>	100W Bulkhead Anti-Vandal Polycarbonate Clear Diffuser and Non-corrosive Aluminium Body	H130 x W240 x D100mm
	<b>POLYP</b>	100W B22 Bulkhead Polycarbonate Clear Diffuser and Black Aluminium Body	H120 x W240 x D130mm
	<b>POLYR</b>	100W Bulkhead Anti-Vandal Polycarbonate Red Diffuser and Non-corrosive Aluminium Body	H130 x W240 x D100mm
	<b>BHEAD</b>	100W Bulkhead Clear Glass Diffuser and Non-corrosive Aluminium Body	H130 x W240 x D100mm
	<b>ENERGY1P</b>	9W PL Energy Saving Bulkhead Clear Diffuser and Non-corrosive Aluminium Body	H130 x W240 x D100mm
	<b>ENERGY2P</b>	2 x 9W PL Energy Saving Bulkhead Clear Diffuser and Non-corrosive Aluminium Body	H130 x W240 x D100mm

## IP65 Bulkheads

- IP65 rated - ideal for external applications
- F marked - suitable for installation onto flammable surfaces
- Robust polycarbonate construction
- G24d lampholder
- This luminaire is of class I construction
- Lamps supplied with 2 x 26W wall pack
- 230V AC
- Conforms to EN 60598-2-5




PART NO.	DESCRIPTION	DIMENSIONS	
<b>WALLP52PL</b>	2 x 26W Wall Pack	H300 x W250 x D190mm	
<b>WALLP52PLPC</b>	2 x 26W Wall Pack + Photocell G24d-3 lamps - not supplied		
<b>WALLP70SON</b>	70W Wall Pack	H300 x W250 x D190mm	
<b>WALLP70SONPC</b>	70W Wall Pack + Photocell Uses 70W SON EI Lamp with internal ignitor - not supplied		

## IP65 PL Floodlight

- Low energy unit
- Requires 2 x 42W lamps - supplied
- Conforms to EN 60598-2-5






PART NO.	DESCRIPTION	DIMENSIONS	
<b>FPL242</b>	Uses 2 x 42W GX24q-4, 4pin lamp (lamps supplied)	H430 x W320 x D160mm	

# IP54 Sodium / Metal Halide Floodlights



Made from diecast aluminium body. uses either sodium SON lamp or metal halide lamp (not supplied). These products are particularly suitable for floodlighting buildings and tennis courts etc.


- IP54 rated
- For Sodium Floodlights use SON-T lamps with external ignitor - not supplied
- For Metal Halide Floodlights use HQI-T lamps - not supplied
- Conforms to EN 60598-2-5
- Dimensions: H300 x W410 x D145mm (not including bracket)

	PART NO.	DESCRIPTION	WATTAGE
	<b>F150MBI/S55</b>	Sodium / Metal Halide Floodlight in Black	150W
	<b>F250MBI/S55</b>	Sodium / Metal Halide Floodlight in Black	250W
	<b>F400MBI/S55</b>	Sodium / Metal Halide Floodlight in Black	400W

# IP54 Sodium Floodlights

- IP54 rated
- With European Gear and Power Factor Correction
- Polycarbonate body
- Requires 70W SON ES Lamp with internal ignitor - not supplied
- Conforms to EN 60598-2-5





PART NO.	DESCRIPTION	DIMENSIONS	
<b>FSON7054</b>	70W HPS Floodlight	H310 x W245 x D170mm	
<b>FSON7054PC</b>	70W HPS Floodlight with integral photocell for dusk - dawn switching	H310 x W245 x D170mm	

# IP54 Metal Halide Floodlight



Attractively designed Metal Halide Floodlights with integral gear, mounting brackets and toughened glass fronts. Epoxy painted black aluminium diecast body with anodised aluminium reflector. These products are particularly suitable for security use, car parks, loading areas, building perimeters and precinct areas where long burning hours are required.

- Use HQI double ended lamps - not supplied
- Dimensions: H350 x W230 x D90mm
- Conforms to EN 60598-2-5

	PART NO.	DESCRIPTION	WATTAGE
	<b>MHF70</b>	Metal Halide Floodlight	70W
	<b>MHF150</b>	Metal Halide Floodlight	150W

Energy saving floodlights using xenon lamps, saving around 25% for the same light output, compared to the standard halogen lamp. These floodlight units are still compatible with halogen lamps, as the R7 socket and the dimensions of the lamp are the same.

These floodlights are available in black or white and are also available with a PIR security sensor.

- Built from diecast aluminium with an anti-corrosion finish and toughened glass fronts
- Provide a bright natural white light
- Energy saving xenon lamps are supplied
- 230V AC
- Conforms to EN 60598-2-5



PART NO.	DESCRIPTION	INFO	
<b>TXF120</b>	120W Floodlight Black	Uses a 78mm lamp - supplied	
<b>TXF120W</b>	120W Floodlight White	Uses a 78mm lamp - supplied	
<b>TXF400</b>	400W Floodlight Black	Uses a 118mm lamp - supplied	
<b>TXF400W</b>	400W Floodlight White	Uses a 118mm lamp - supplied	
<b>TEF1000</b>	1000W Floodlight Black	Uses a 164mm lamp - supplied	
<b>TEF1500</b>	1500W Floodlight Black	Uses a 254mm lamp - supplied	







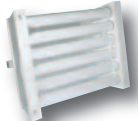
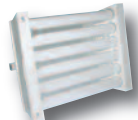
# IP44 Tungsten Xenon Floodlights - with Security PIR



Energy saving floodlights using xenon lamps, saving around 25% for the same light output, compared to the standard halogen lamp. These floodlight units are still compatible with halogen lamps, as the R7 socket and the dimensions of the lamp are the same.

These floodlights are available in black or white and are also available with a PIR security sensor.



- PIR sensor with adjustable time delay and override
- Built from diecast aluminium with an anti-corrosion finish and toughened glass fronts
- Provide a bright natural white light
- Energy saving xenon lamps are supplied
- 230V AC
- Conforms to EN 60598-2-5

	PART NO.	DESCRIPTION	INFO
	<b>TXPIR120</b>	120W Floodlight with PIR Black	Uses a 78mm lamp - supplied
	<b>TXPIR120W</b>	120W Floodlight With PIR White	Uses a 78mm lamp - supplied
	<b>TXPIR400</b>	400W Floodlight with PIR Black	Uses a 118mm lamp - supplied
	<b>TXPIR400W</b>	400W Floodlight With PIR White	Uses a 118mm lamp - supplied
	<b>R7PL20W110V</b>	PL Energy Saving R7 Lamp Ideal for use with our Xenon Floodlight range - simply replace the normal tungsten halogen lamp	20W, 110V Lifespan 6,000 hours  Light output equivalent to 100W
	<b>R7PL20W230V</b>	PL Energy Saving R7 Lamp Ideal for use with our Xenon Floodlight range - simply replace the normal tungsten halogen lamp	20W, 230V Lifespan 6,000 hours  Light output equivalent to 100W

# IP54 PL Signlight

- Suitable for illuminating any shop/pub fascia signs
- Can be wall mounted or used as a spike light in the ground
- Polycarbonate diffuser
- 20mm adjustable threaded coupling
- Supplied with optional ground spike
- Lamps are supplied with these signlights
- Conforms to EN 60598-2-5



PART NO.	DESCRIPTION	FINISH	
<b>ALPL254HF</b>	2 x 26W Signlight	Black	
<b>ALPL454HF</b>	4 x 9W Signlight	Black	

# IP44 Spike Lights



- Robust plastic construction
- Requires PAR38 screw fitting E27 ES reflector lamps 80W - not supplied
- Double insulated
- Conforms to EN 60598-2-7

	PART NO.	DESCRIPTION	DIMENSIONS
	NSGS	Spike Garden Floodlight Single lamp Requires a PAR38 E27 lamp	L460mm (excluding lamp) Diameter 75mm
	NTGS	Spike Garden Floodlight Twin lamp Requires two PAR38 E27 lamps	L460 x W220mm (excluding lamp)

# Portable Halogen Floodlights

The KingShield portable halogen floodlights are supplied with a stand and a wire guard over the diffuser so you are equipped for every lighting need with one of these units. Also available in 230V or 110V.

- Diecast aluminium body
- Wire guard to protect diffuser
- Lamps are supplied with these fittings
- Conforms to EN 60598-2-5



PART NO.	DESCRIPTION	FINISH	
<b>TXP120</b>	120W, 230V Halogen Floodlight - Switched with stand, 2M cable & 13A plug IP44	Black	
<b>TXP400</b>	400W, 230V Halogen Floodlight - Switched with stand, 2M cable & 13A plug IP44	Black	
<b>TXP400Y</b>	400W, 110V Halogen Floodlight with stand, 2M cable & 16A plug IP44	Yellow	
<b>TXT400Y</b>	400W, 110V Tripod Mounted Single Head Halogen Floodlight 2.1M Stand IP54	Yellow	









TIMERS & SENSORS

- Ideal for most heating applications
- Timer 'on' status indicator
- Fits a 25mm dual appliance socket box should you require to mount the timer next to a fused spur or socket outlet
- Will fit directly to any 25mm deep socket box fitted with an earth terminal
- 230V AC, 16A resistive load, 2A inductive load (T108-C 8A inductive)
- T108-C is suitable for discharge lighting applications only
- Dimensions H77 x W72 x D43mm (Plate 86 x 86mm)
- All products are individually clammed for ease of display
- Conforms to BS EN 60730-1, BS EN 60730-2-7



PART NO.	DESCRIPTION	DISPLAY	
<b>T105-C</b>	7 Day Electronic Timer with 150hr battery backup 24 on/off programmes	Digital display Manual override Summer time setting option Countdown timer function and 'Random' setting	
<b>T108-C</b>	7 Day Electronic Timer as above with increased 8A inductive rating	Digital display Manual override Summer time setting option and 'Random' setting	
<b>T100-C</b>	24hr Mechanical Timer 96 on/off settings	Analogue clock face On/timed/off switch selector	
<b>T101-C</b>	7 Day Mechanical Timer 84 on/off settings (12 per day)	Analogue clock face On/timed/off switch selector Minute hand indicator	



# Immersion and Dual Tariff Timers



## T102-C, T103-C, T104-C, T106-C & T109-C: -

- Timer 'on' status indicator
- 230V AC 50Hz, 16A resistive load, 2A inductive load
- Dimensions H127 x W74 x D48mm
- All product clammed for ease of display
- Conforms to BS EN 60730-1 and BS EN 60730-2-7

## T109-C: -

- The KingShield Dual Tariff Boost Timer controls the use of off-peak cheap rate electricity. It can be surface mounted and has easy to set time segments.
- Dimensions for T109-C H85 x W155 x D50mm



	PART NO.	DESCRIPTION	DISPLAY
	<b>T102-C</b>	24hr Mechanical Timer 96 on/off settings	Analogue clockface On/timed/off switch selector
	<b>T103-C</b>	24hr Mechanical Timer with 24hr battery backup 96 on/off settings	Analogue clockface On/timed/off switch selector
	<b>T104-C</b>	7 Day Mechanical Timer 84 on/off settings (12 per day)	Analogue clockface On/timed/off switch selector Minute hand indicator
	<b>T106-C</b>	7 Day/24hr Electronic Timer with 150hr battery backup 24 on/off programmes	Digital Display Manual Override Summer time setting Countdown timer function and 'Random' setting
	<b>T109-C</b>	16A Dual Tariff Boost Timer	15 - 120 minute boost facility Anti-tamper timer cover

- Manual override
- 230V AC 50Hz, 13A (3kW) resistive load, 2A inductive load
- All products are individually clammed for ease of display
- Conforms to BS EN 60730-1, BS EN 60730-2-7

## Extra features on T17B-C only -

- Random delay 'on/off' function
- Timer countdown function
- Complete with AAA battery to keep programmed settings when not plugged in
- Summertime preset setting available





PART NO.	DESCRIPTION	INFO	
<b>T17B-C</b>	7 Day Electronic Plug-in Timer/Adaptor	24 on/off programmes  H123 x W64 x D53mm (exl. pins)	
<b>T73A-C</b>	24hr Mechanical Plug-in Timer/Adaptor	15 minute on/off segments  H131 x W76 x D46mm (exl. pins)	

# Channel Timers



The KingShield 2 & 4 channel central heating & hot water timers offer the equivalent of four or two separate seven day timers in one slim, elegant enclosure. Each channel offers up to three programmed operating periods per day for each of the seven days of the week, with a boost and advance available on each.

- Up to 4 independently programmable channels
- 3 on and 3 off settings available per channel, per day
- One hour boost facility for each channel
- Programme advance function for each channel
- Summertime setting
- 7 day battery back up
- Clear backlit LED display
- 230V AC, 3A resistive, 1.25A inductive per channel
- All products are individually clammed for ease of display
- Conforms to IEC 60730-2-7 and IEC 60730-1



	PART NO.	DESCRIPTION	DIMENSIONS
	<b>T612-C</b>	1 or 2 Channel Timer	H95 x W154 x D37mm
	<b>T634-C</b>	1 - 4 Channel Timer	H95 x W154 x D37mm

The T61 Single Channel Central Heating Timer is suitable to control heating with combi boilers and has volt free contact available.

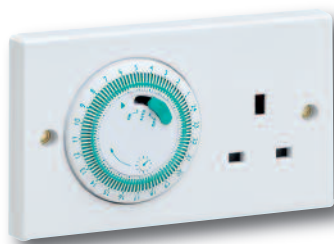
The T62 Twin Channel Heating & Hot Water Timer controls heating and hot water independently. It is suitable for either pumped or gravity systems. It is easy to use as it has a separate boost button for heating and hot water.

- Hinged panel conceals programming buttons for neat display
- 230V AC, 5A resistive load, 2A inductive load
- Dimensions H85 X W155 X D44mm
- Conforms to BS EN 60730-1, BS EN 60730-2-7



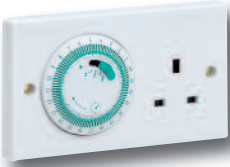
PART NO.	DESCRIPTION	INFO	
<b>T61-C</b>	Single Channel Central Heating Timer	14 on/off settings One hour boost button	
<b>T62-C</b>	Twin Channel Central Heating & Hot Water Timer	14 on/off settings (per channel) Separate one hour boost button for heating and hot water	

## Timed Socket



The KingShield 24hr mechanically timed socket simply replaces your normal socket, with the added benefit of a timer application. It has 96 on/off settings for maximum flexibility. Suitable for use with any 13A appliance you need to automatically control.


- On/off/timed selector
- 230V AC 50Hz, 13 Amp (4A inductive)
- Power consumption 0.9W
- Operation temperature -5°C to + 40°C
- Dimensions H87 x W147 x D14mm
- Conforms to BS 1363-2, EN 60730, EN 60730-2-7

	PART NO.	DESCRIPTION	INFO
	<b>TS70A-C</b>	24hr Mechanically Timed 13A Socket	96 on/off settings Operates with 15 minute on/off segments

## Din Rail Mounting Timer






- For use in consumer units and control panels
- 16A resistive, 2A inductive
- 230V, 50/60Hz
- Volt free contact
- 6 ON + 6 OFF programmes
- Din rail mounted
- 100 hour battery back up
- Conforms to EN 60669-2-1

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>T80-C</b>	Digital Compact Din Rail Mounting Timer with 7 day or 24hr programming	H90 x W18 x D55mm

KingShield's range of thermostats are ideal for controlling heating and air conditioning systems.



- Displays both room and set temperature
- Internal switch selector for heat or air conditioning operation
- Easy to read large LCD display
- 2 wire operation
- Low battery indicator
- Battery operated 2 x AA (not included)
- Contact: SPST, volt free, 5A resistive, 2A inductive (THPW1-C 16A resistive)
- Temperature range 5 to 30°C, temperature accuracy +/- 0.5°C
- IP20 rated
- TH1-C Dimensions: H73 x W113 x D30mm
- THP1-C / THPW1-C Dimensions: H83 x W131 x D31mm
- Conforms to BSEN 60730-2-9

PART NO.	DESCRIPTION	INFO	
<b>TH1-C</b>	Digital Thermostat	Displays both room and set temperature	
<b>THP1-C</b>	Programmable Digital Thermostat	7 Day programming 2 x Pre-set temp settings (comfort & economy) Short/long term temporary temperature override	
<b>THPW1-C</b>	Wireless Programmable Digital Thermostat (Wireless version of the THP1-C)	No need for inter-connecting wires Wireless up to 50M	



# Mechanical Thermostats



- 3 wire operation
- IP20
- 230V AC resistive load
- Max load 10A
- Class II
- Temperature range 5 - 35°C
- Dimensions: H83 x W83 x D34mm



	PART NO.	DESCRIPTION	INFO
	RT90-C1	Break On Rise Thermostat	-
	RT90-C3	Changeover Contact Thermostat	10A opening contact 3A closing contact

Simply replaces a standard wall switch to provide timed switching of lights while still allowing normal switching operation. The hinged cover also operates as light switch.

The T41D light sensitive wall switch turns your lights on when it gets dark and maintains them on for up to 8 hours.

- Replaces the existing light switch
- Will still operate as a manual switch
- 40-400W - GLS lamps and most low energy lamps 17W and above
- 2 way switch
- Fused
- Dimensions H86 x W86 x D27mm



PART NO.	DESCRIPTION	INFO	
<b>T40S-C</b>	Wall Switch Security Timer with 24hr Battery Backup 6 on/off programmes per day	7 Day or 24hr Programming available  (Not suitable for use with LED lighting)	
<b>T41D-C</b>	Light Sensitive Wall Switch	Adjustable 'Lights on time' between 1 - 8 hours	

# Time Lag Switches



Time lag switches enable the consumer to reduce their energy bills by simply replacing the existing wall switch, they are very quick and inexpensive to install. Designed to switch lights, or other loads, on for a limited time, and to switch off automatically after a user selected time of 5 to 30 minutes has elapsed.

Ideal for use in stairwells, store rooms, pub smoking areas and in many other applications where lights are only required to be on for a short amount of time.

- Adjustable time delay
- No neutral wire is required on TIMLAG210 models
- Loading up to 6A (1500W) of any type of load including fluorescent lights
- 230V, AC 50Hz
- Weight 130g, Dimensions H86 x W86 x D25mm
- Conforms to EN 60669-2-1


	PART NO.	DESCRIPTION	INFO
	<b>TIMLAG210</b>	1-10 minute Time Lag Switch	2 wire, single pole No neutral is required
	<b>TIMLAG320</b>	2-20 minute Time Lag Switch	3 wire, single pole Requires a neutral
	<b>TIMLAG210L</b>	1-10 minute Time Lag Switch with illuminating push button	2 wire, single pole No neutral is required
	<b>TIMLAG320L</b>	2-20 minute Time Lag Switch with illuminating push button	3 wire, single pole Requires a neutral

# Pneumatic Time Delay Switch

For the operation and control of lighting.

- Suitable for controlling GLS, fluorescent and compact fluorescent lighting
- Adjustable time delay from 10 seconds to 10 minutes
- GLS Load - 6A, 1440 watts
- Fluorescent Load - 3A, 720 watts
- 230V, AC 50Hz
- Weight 82.5g
- Conforms to BS EN 60730-2-7



PART NO.	DESCRIPTION	DIMENSIONS	
<b>TLS</b>	Pneumatic Time Delay Switch	H85 x W85 x D42mm	

# PIR Sensors



A PIR sensor detects a change in temperature and therefore is able to detect movement in people and animals. The indoor sensors are helpful for saving energy indoors by turning the lights on and off after detecting a change. The outdoor sensors are particularly helpful in detecting intruders in the garden, for example, the light will come on as the object has been detected thus informing the occupant of a change.

- Outdoor PIR Sensors are rated at IP44
- 230V AC 50Hz
- Conforms to EN 60669-2-1

	PART NO.	DESCRIPTION	INFO
	<b>IRD180A-C</b>	Outdoor PIR Sensor 12M detection range 180° angle of detection 80° tilt action	Max switching capacity 5A Max load 1200W tungsten filament / 500W tungsten halogen 'Time on' adjustable from 12 seconds to 20 minutes
	<b>IRD270</b>	Outdoor PIR Sensor 15M detection range 270° angle of detection Can be mounted flat to a wall, or on a corner.	Max switching capacity 8A Max load 2000W 'Time on' adjustable from 5 seconds to 7 minutes Manual override available
	<b>CFMPIR</b>	Indoor PIR Sensor 2.5M - 3.5M detection range Flush mounting	Max switching capacity 6A Max load 1440W 'Time on' adjustable from 10 seconds to 40 minutes Photocell override available
	<b>CSMPIR</b>	Indoor PIR Sensor 2.5M - 3.5M detection range Surface mounting	Max switching capacity 6A Max load 1440W 'Time on' adjustable from 10 seconds to 40 minutes Photocell override available

KingShield's range of Photocells offer a wide selection of products for dusk to dawn switching. A Photocell detects the level of light and will turn lights on when it gets dark.

- 230V AC 50Hz
- Conforms to EN 60669-2-1



PART NO.	DESCRIPTION	INFO	
<b>PEC1000</b>	2000W/10A Electronic Photocell Kit with detachable sensing module ON < 20 - OFF > 80 LUX IP65 rated	Max switching capacity 10A Max load 2000W tungsten / 2x 400W HPS 10-15 second switching delay	
<b>PECH</b>	Replacement head for PEC1000	As PEC1000	
<b>PEC500</b>	1000W/5A Electronic Photocell Kit With detachable sensing module ON < 20 - OFF > 80 LUX IP65 rated	Max switching capacity 5A Max load 1000W tungsten / 2x 240W HPS 10-15 second switching delay	
<b>PECH500</b>	Replacement head for PEC500	As PEC500	
<b>PECB</b>	Bracket only	From the Electronic Photocell Kit above (PEC1000 / PEC500)	
<b>PEC2000-C</b>	1000W/8A Electronic Photocell ON < 20 - OFF > 80 LUX IP44 rated	Max switching capacity 8A Max load 1000W tungsten halogen 30-50 second switching delay	
<b>PEC4000-C</b>	1200W/5A Electronic Photocell Adjustable LUX level 5 - 300 LUX IP44 rated	Max switching capacity 5A Max load 1200W tungsten filament / 500W tungsten halogen Photocell override available	
<b>PEC20</b>	2000W/10A Remote/Panel Mounting Photocell ON < 20 - OFF > 80 LUX IP65 rated (when fitted)	Max switching capacity 10A Max load 2000W tungsten / 2x 400W HPS 16mm thread size with lockrings	



## Smoke/Heat/CO Alarms



Applies to ACOM, ASIM, ASPM and AHPM

- Extra loud alarm sound at over 85dB
- 3yr alkaline battery backup (supplied)
- Low battery and battery missing indicator
- Inter-connects with up to 40 units (all mains types)
- Easy to install with quick fix mounting bracket
- Test/hush button
- Conforms to one or more of the following BS EN 61000-6-3:2007, BS EN 50130-4, BS EN 50270, BS EN 50291, BS EN 14604
- ASIM, BS KITE Mark Approval

	PART NO.	DESCRIPTION	INFO
	<b>ACOM</b>	Mains CO Alarm Carbon Monoxide Alarm	Built-in sensitive Carbon Monoxide Detector
	<b>ASIM</b>	BSI Kite Marked Mains Smoke Alarm with Ionisation Sensor	Ionisation Sensor quickly detects fast flaming fires such as paper fire in bins or grease fire in kitchens
	<b>ASPM</b>	Mains Smoke Alarm with Photo-electric Sensor	Photo-electric Sensor specifically designed to detect smoke from low smouldering fires
	<b>AHPM</b>	Mains Heat Alarm	Alarm will sound when room temperature reaches 58°C
	<b>AMP</b>	Pattress For Mains Heat, Smoke and CO Alarms	Surface mounting pattress Easy to install
	<b>SD-170</b>	9V Battery Smoke Alarm	Ionisation sensor - warns of smoke and fire even before flames are visible Low battery warning signal Small size - Diameter 108mm



VENTILATION






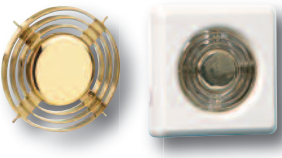
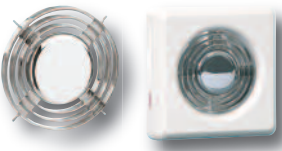
# 4" / 100mm Axial Extractor Fans - Square



Modern axial unit designed for wall or ceiling mounting which are ideal for air extraction over short distances. Recommended for installations through walls, windows or for ducting runs of under 2 metres.

Available in a superb choice of styles and finishes to compliment any decor; these units can be fitted with a wide variety of accessories to suit any installation requirements. Suitable for the effective ventilation of toilets, bathrooms, en-suites and washrooms in accordance with IEE and Building Regulations.

- Air movement of up to 95 cubic metres/hour (26.7 litres/sec)
- Sound volume 48.6 dBA
- IP44, 230V, 50Hz
- Class II Double insulated
- Power consumption 17 watts
- Dimensions: Grille 155 x 155 x 35mm
- Spigot  $\varnothing$  = 100mm, length 54mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003

	PART NO.	DESCRIPTION	INFO
	<b>H113</b>	4"/100mm Axial Extractor Fan	-
	<b>H113PC</b>	4"/100mm Axial Extractor Fan with fitted pullcord switch	-
	<b>H113T</b>	4"/100mm Axial Extractor Fan with fitted overrun timer	Timer is adjustable between 2-30 mins
	<b>H113HS</b>	4"/100mm Axial Extractor Fan with fitted overrun timer and automatic humidistat	Humidistat automatically switches on at 70% relative humidity
	<b>H113SELV</b>	4"/100mm Axial Extractor Fan 12V Safety Extra Low Voltage	Low voltage fans must be used with a 12V controller with SELV output. See product '12VFC'
	<b>01-659</b>	Gold Insert for H113 Extractor Fans	-
	<b>01-660</b>	Chrome Insert for H113 Extractor Fans	-





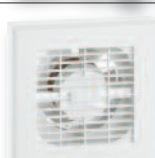
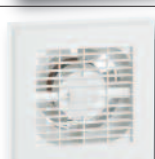
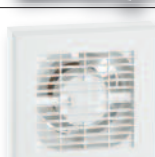
# 4"/100mm Axial Extractor Fans - Square

Modern axial unit designed for wall or ceiling mounting which are ideal for air extraction over short distances. Recommended for installations through walls, windows or for ducting runs of under 2 metres.

Suitable for the effective ventilation of toilets, bathrooms, ensuites and washrooms in accordance with IEE and Building Regulations.



- Air movement of up to 80 cubic metres/hour (22.2 litres/sec)
- Sound volume 48.6 dBA
- IP22, 230V, 50Hz
- Class II double insulated
- Power consumption 17 watts
- Dimensions Grille 153 x 153 x 30mm  
Spigot ø 100mm, length 53mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003



PART NO.	DESCRIPTION	INFO	
<b>G510</b>	4"/100mm Axial Extractor Fan	-	
<b>G510PC</b>	4"/100mm Axial Extractor Fan with fitted pullcord switch	-	
<b>G510T</b>	4"/100mm Axial Extractor Fan with fitted overrun timer	Timer is adjustable between 2-30 mins	
<b>G510TPC</b>	4"/100mm Axial Extractor Fan with fitted pullcord switch and overrun timer	Timer is adjustable between 2-30 mins	
<b>G510HS</b>	4"/100mm Axial Extractor Fan with fitted overrun timer and automatic humidistat	Humidistat automatically switches on at 70% relative humidity	
<b>G510HSPC</b>	4"/100mm Axial Extractor Fan with fitted pullcord switch, overrun timer and automatic humidistat	Timer is adjustable between 2-30 mins Humidistat automatically switches on at 70% relative humidity	
<b>G510SELV</b>	4"/100mm Axial Extractor Fan 12V Safety Extra Low Voltage	Must be used with a 12V controller with SELV output. See product '12VFC' on p110	

## 4"/100mm Axial Extractor Fans - Circular



Circular axial extractor fans available in standard or timed versions. These units are designed for wall or ceiling mounting and come complete with removable back draught shutters. Suitable for the effective ventilation of toilets, bathrooms, en-suites and washrooms in accordance with IEE and Building Regulations.








- Complete with a back draught shutter
- Air movement of up to 80 cubic metres/hour (22.2 litres/sec)
- Sound volume 42 dBA
- IP44, 230V, 50Hz
- Class II double insulated
- Power consumption 11 watts
- Dimensions: Body ø 100mm, internal depth 117.5mm, front grille ø 140mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003

	PART NO.	DESCRIPTION	INFO
	<b>C100</b>	4"/100mm Axial Extractor Fan Circular	-
	<b>C100T</b>	4"/100mm Axial Extractor Fan Circular with overrun timer	Timer is adjustable between 2-30 mins

# 6"/150mm Axial Extractor Fan - Square

- Air movement of up to 230 cubic metres/hour (64 litres/sec)
- Sound volume 44.8 dBA
- IP22, 230V, 50Hz
- Class II double insulated
- Power consumption 25 watts max
- Dimensions: Grille 215 x 215 x 30mm  
Spigot ø 152mm, length 65mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003



PART NO.	DESCRIPTION	INFO	
<b>G242</b>	6"/150mm Axial Extractor Fan	-	
<b>G242PC</b>	6"/150mm Axial Extractor Fan with fitted pullcord switch	-	
<b>G242T</b>	6"/150mm Axial Extractor Fan with fitted overrun timer	Timer is adjustable between 2-30 mins	
<b>G242TPC</b>	6"/150mm Axial Extractor Fan with fitted pullcord switch and overrun timer	Timer is adjustable between 2-30 mins	
<b>G242HS</b>	6"/150mm Axial Extractor Fan with fitted overrun timer and automatic humidistat	Humidistat automatically switches on at 70% relative humidity	
<b>G242HSPC</b>	6"/150mm Axial Extractor Fan with fitted pullcord switch, overrun timer and automatic humidistat	Timer is adjustable between 2-30 mins Humidistat automatically switches on at 70% relative humidity	
<b>G510SELV</b>	6"/150mm Axial Extractor Fan 12V Safety Extra Low Voltage	Must be used with a 12V controller with SELV output. See product '12VFC' on p110	



# 12V Controllers



Control for 12V safety extra low voltage fans is to be made by a mains transformer unit with SELV output. These controllers must only be fitted outside zone 2 of a bathroom. Please refer to IEE Wiring Regulations for guidance. Each controller is supplied complete with a 25mm deep surface pattress box. Units can alternatively be flush wall mounted if desired.

- Neon indicator fitted to all models
- IP30, 230V, 50Hz
- Output 12V AC, 50Hz, 30W Max SELV
- Class II double insulated
- Dimensions: W145 x H80 x D55mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003

	PART NO.	DESCRIPTION	INFO
	<b>12VFC</b>	12V Controller	-
	<b>12VFCPC</b>	12V Controller with fitted pullcord switch	-
	<b>12VFCT</b>	12V Controller with fitted overrun timer	Timer is adjustable between 2-30 mins
	<b>12VFCTPC</b>	12V Controller with fitted pullcord switch and overrun timer	Timer is adjustable between 2-30 mins
	<b>12VFCHS</b>	12V Controller with fitted overrun timer and automatic humidistat	Humidistat automatically switches on at 70% relative humidity
	<b>12VFCHSPC</b>	12V Controller with fitted pullcord switch, overrun timer and automatic humidistat	Timer is adjustable between 2-30 mins Humidistat automatically switches on at 70% relative humidity



## 4"/100mm Centrifugal Fans

A range of powerful yet quiet 4"/100mm centrifugal fans ideally suited for applications where ducting lengths of 2 metres or more are used. Suitable for the effective ventilation of toilets, bathrooms, washrooms and utilities in accordance with IEE and Building Regulations.

These units can be wall or ceiling mounted and are fitted with integral back draught shutters. A wide variety of accessories are available to suit any installation requirements.



- Complete with a back draught shutter
- Air movement of up to 110 cubic metres/hour (31 litres/sec)
- Sound volume 60 dBA
- IP44, 230V, 50Hz
- Class II double insulated
- Power consumption 30 watts max
- Dimensions: W242 x H170 x D87mm  
Spigot ø 98mm, length 45mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003

PART NO.	DESCRIPTION	INFO	
<b>K612</b>	4"/100mm Centrifugal Extractor Fan	-	
<b>K612T</b>	4"/100mm Centrifugal Extractor Fan with fitted overrun timer	Timer is adjustable between 2-30 mins	



# In-Line Shower Fan Kit



These units are designed for ceiling mounting in shower cubicles or directly over baths where normal extractor fans would be deemed hazardous. The fan unit itself is mounted remotely in the loft/attic to avoid any potential hazard.

Kit consists of 100mm in-line extractor fan, 2 x G425 100mm fixed grilles, 1 x 3 metre length WPVC4 ducting and 4 securing ties. Timer model is adjustable between 2-30 minutes.

- Air movement of up to 95 cubic metres/hour (26.7 litres/sec)
- Sound volume 42 dBA
- 230V, 50Hz
- Class II double insulated
- Power consumption 20 watts max
- Dimensions: Body 100mm, depth 120mm, grille 150 x 150mm
- Conforms to BS EN 60335-1:2002 BS EN 60335-2-80:2003

	PART NO.	DESCRIPTION	KIT CONTENTS
	<b>EC12</b>	4"/100mm In-Line Extractor Fan Kit	100mm in-line fan 1 x 3M ducting 2 x fixed grilles securing screws
	<b>EC12T</b>	4"/100mm In-Line Extractor Fan Kit with fitted timer	100mm in-line fan with timer 1 x 3M ducting 2 x fixed grilles securing screws



# In-Line Shower Fan & Light Kit

Circular shower light extractor grill available in standard or timed versions and with a choice of three different finishes. These units provide a practical all in one solution for shower cubicles and similar environments.

Each kit comes complete with a 35 Watt 12V MR16 GU5.3 lamp, 3 fan inserts in white, chrome and gold, an in-line extractor fan, 1x 60W electronic transformer, 1x 3M flexible ducting, and a 4"/100mm exterior fixed grille. Timer model is adjustable between 2-30 minutes.



- Air movement of up to 95 cubic metres/hour (26.7 litres/sec)
- Sound volume 42 dBA
- Thermal safety cut out protection (transformer)
- 230V, 50Hz (12V AC 60W electronic transformer)
- Lamp power 35 Watts
- Class II double insulated
- Conforms to BS EN 60335-2-80:2003

PART NO.	DESCRIPTION	KIT CONTENTS	
<b>C100SLK</b>	4"/100mm Shower light & Extractor Fan Kit	1 x 35W lamp 100mm in-line extractor fan 3 x extractor fan inserts 1 x 60W electronic transformer 3M flexible ducting 1 x exterior fixed grille	
<b>C100TSLK-C</b>	4"/100mm Shower light & Extractor Fan Kit with timer	1 x 35W lamp 100mm in-line extractor fan with fitted timer 3 x extractor fan inserts 1 x 60W electronic transformer 3M flexible ducting 1 x exterior fixed grille	

# Gravity Shutters



- Variety of colours to complement differing building exteriors
- Available in 4 inch/100mm or 6 inch/150mm
- Vent manufactured from high gloss ABS material
- Overall diameter of exhaust inlet 100mm or 150mm
- Grille size 150 x 150mm or 215 x 215mm
- Pack quantity 10

	PART NO.	DESCRIPTION	FINISH
	<b>G400</b> <b>G600</b>	4"/100mm Gravity Shutter 6"/150mm Gravity Shutter	White White
	<b>G400BROWN</b> <b>G600BROWN</b>	4"/100mm Gravity Shutter 6"/150mm Gravity Shutter	Brown Brown
	<b>G400GREY</b> <b>G600GREY</b>	4"/100mm Gravity Shutter 6"/150mm Gravity Shutter	Grey Grey
	<b>G400TER</b> <b>G600TER</b>	4"/100mm Gravity Shutter 6"/150mm Gravity Shutter	Terracotta Terracotta

These external or internal fixed grilles are available in a variety of colours to complement differing building exteriors or interiors.

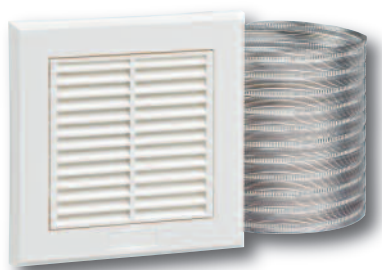
- Available in 4 inch/100mm or 6 inch/150mm
- Manufactured from high gloss ABS material
- Overall diameter of exhaust inlet 100mm or 150mm
- Grille size 150 x 150mm or 215 x 215mm
- Units can be supplied with or without fitted flyscreen
- Pack quantity 10



PART NO.	DESCRIPTION	FINISH	
<b>G425</b> <b>G625</b>	4"/100mm Fixed Grille 6"/150mm Fixed Grille	White White	
<b>G425BROWN</b> <b>G625BROWN</b>	4"/100mm Fixed Grille 6"/150mm Fixed Grille	Brown Brown	
<b>G425GREY</b> <b>G625GREY</b>	4"/100mm Fixed Grille 6"/150mm Fixed Grille	Grey Grey	
<b>G425TER</b> <b>G625TER</b>	4"/100mm Fixed Grille 6"/150mm Fixed Grille	Terracotta Terracotta	
<b>G425FS</b> <b>G625FS</b>	4"/100mm Fixed Grille with Flyscreen 6"/150mm Fixed Grille with Flyscreen	White White	
<b>G425FSBROWN</b> <b>G625FSBROWN</b>	4"/100mm Fixed Grille with Flyscreen 6"/150mm Fixed Grille with Flyscreen	Brown Brown	
<b>G425FSGREY</b> <b>G625FSGREY</b>	4"/100mm Fixed Grille with Flyscreen 6"/150mm Fixed Grille with Flyscreen	Grey Grey	
<b>G425FSTER</b> <b>G625FSTER</b>	4"/100mm Fixed Grille with Flyscreen 6"/150mm Fixed Grille with Flyscreen	Terracotta Terracotta	



# Wall Kits



Wall kits used to install the range of Axial fans from KingShield.


- Kit comes with 330mm length of fully flexible aluminium ducting
- Recommended pre-cut hole size -  
G450GS / G450FG is 120mm - grille size 150 x 150mm  
G650GS / G650FG is 175mm - grille size 215 x 215mm

	PART NO.	DESCRIPTION	COMPATIBLE FANS
	<b>G450GS</b>	Wall Kit with Gravity Shutter to install any of the 4"/100mm KingShield fans through a wall	H113 G510 C100
	<b>G450FG</b>	Wall Kit with Fixed Grille to install any of the 4"/100mm KingShield fans through a wall	H113 G510 C100
	<b>G650GS</b>	Wall Kit with Gravity Shutter to install the 6"/150mm KingShield fan through a wall	G242
	<b>G650FG</b>	Wall Kit with Fixed Grille to install the 6"/150mm KingShield fan through a wall	G242

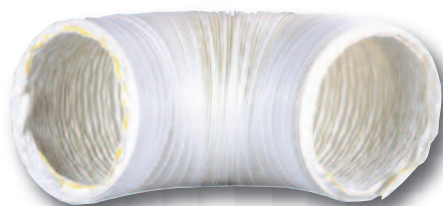
Used to install KingShield extractor fans such as H113, G510 and G242 through windows. These conversion kits can be supplied with either a white gravity shutter or white fixed grille. KingShield shutters and grilles are available in different colours, please see the Shutters/Grilles section.



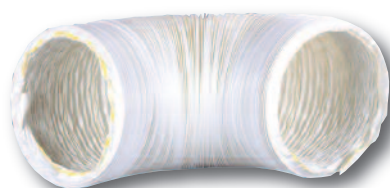
- Suitable for fitting in glass from 4mm-28mm including double glazed units
- Recommended pre-cut hole size -  
CK4GS / CK4FG is 140mm - grille size 155 x 155mm  
CK6GS / CK6FG is 184mm - grille size 215 x 215mm
- Kit contents - Gravity Shutter or Fixed Grille, Adaptor Plate, Rubber Seal & Fixing Screws

PART NO.	DESCRIPTION	COMPATIBLE FANS	
<b>CK4GS</b>	Window kit with gravity shutter to install any of the 4"/100mm KingShield fans through a window	H113 G510	
<b>CK4FG</b>	Window kit with fixed grille to install any of the 4"/100mm KingShield fans through a window	H113 G510	
<b>CK6GS</b>	Window kit with gravity shutter to install any of the 6"/150mm KingShield fans through a window	G242	
<b>CK6FG</b>	Window kit with fixed grille to install any of the 6"/150mm KingShield fans through a window	G242	

# 4"/100mm Ducting



- Manufactured from flame retardant PVC film
- Each piece is individually packed for ease of display, storage and handling



PART NO.	DESCRIPTION	PACKAGING
<b>WPVC4-P</b>	100mm PVC Flexible Hose 3M length	Polybag
<b>WPVC4</b>	100mm PVC Flexible Hose 3M length	Netted
<b>WPVC4-6</b>	100mm PVC Flexible Hose 6M length	Netted
<b>WPVC4-15</b>	100mm PVC Flexible Hose 15M length	Netted
<b>WPVC4-45</b>	100mm PVC Flexible Hose 45M length	Boxed (Contractor pack)

## 4"/100mm Ducting

- Manufactured from flame retardant PVC film or aluminium
- Each piece is individually packed for ease of display, storage and handling
- The KingShield Cooker Hood Kit is suitable for 4 inch and 5 inch cooker hoods





PART NO.	DESCRIPTION	PACKAGING	
VA200-P	100mm PVC Flexible Hose & Clamp 1M length	Polybag	
VA209-P	100mm PVC Circular Rigid Hose 350mm length	Polybag	
VA213-P	100mm Aluminium Circular Semi Rigid Hose 3M length	Polybag	
CHOOKIT-X	4 -5" Universal Cooker Hood Kit	Boxed	

# 110 x 54mm Ducting



- Manufactured from flame retardant PVC film
- Each piece is individually packed for ease of display, storage and handling

	PART NO.	DESCRIPTION	PACKAGING
	VA201-P	110 x 54mm PVC Rectangular Rigid Ducting 1M length	Polybag
	VA217-P	110 x 54mm PVC Rectangular Flexible Ducting 3M length	Polybag

## 6"/150mm Ducting

- Manufactured from flame retardant PVC film
- Each piece is individually packed for ease of display, storage and handling



PART NO.	DESCRIPTION	PACKAGING	
<b>WPVC6</b>	6"/150mm PVC Flexible Hose 3M length	Netted	
<b>WPVC6-6</b>	6"/150mm PVC Flexible Hose 6M length	Netted	
<b>WPVC6-15</b>	6"/150mm PVC Flexible Hose 15M length	Netted	



# Ventilation Accessories


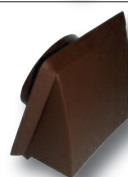








- To fit opening size 110 x 54mm

	PART NO.	DESCRIPTION
	VA208-P	Rectangular Ducting Clips (2 per pack)
	VA202-P	Rectangular Ducting Connector
	VA205-P	Rectangular Horizontal Bend
	VA218-P	Rectangular Vertical Bend
	VA203-P	Elbow Round to Rectangle (male)
	VA204-P	Elbow Round to Rectangle (female)
	VA206-P	Adaptor Round to Rectangle

- To fit opening size 100mm/4 inch



PART NO.	DESCRIPTION	
VA207-P	Hooded Vent White	
VA207BROWN-P	Hooded Vent Brown	
VA210-P	Tumble Dryer Hose Coupler	
VA211-P	PVC Tape Dimensions: Width 48mm Length 4-6M	
VA212-P	In-line Back Draught Shutter	
VA214-P	Universal Tumble Dryer Connector	
VA215-P	Tumble Dryer Threaded Coupler Hose Connector	
VA216-P	Round Wall Plate	

# Hand Dryers



- Automatic hands free operation
- Overheat thermal cut out protection
- Adjustable sensor distance 20 +/- 5 cm
- Over time safety device/Auto shut off 1 minute continuous use
- Sound volume 65 dBA
- 230V, 50Hz

## 1800 Watt only

Stylish, powerful and durable, this automatic 1800 watts ABS Plastic housed hand dryer provides solutions for a number of installations. From domestic to light commercial environment such as guest houses, toilets, kitchens and office environments.

- Double insulated
- ABS PVC external housing
- Power consumption 1800 Watts

## 2400 Watt only

Robust vandal resistant cast aluminium housed/steel based automatic hand dryer that provides a solution for commercial and industrial applications.

This high impact resistant hand dryer could be ideally situated in restaurants, public houses, commercial buildings, large offices environments, motorway services and holiday sites.

- Cast Aluminium body and steel base
- Power consumption 2400 watts

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>HDP1800</b>	1800W Automatic Hand Dryer ABS PVC External Housing	H270 x W260 x D180mm
	<b>HDM2400</b>	2400W Automatic Hand Dryer Cast Aluminium Body, Steel Base	H240 x W240 x D190mm





POWERX WEATHERPROOF



# PowerX IP68 Weatherproof Junction Boxes



For use with a terminal strip (not supplied)

- Single and twin junction boxes in the range
- Twin box is available with or without an internal earth frame
- Threaded 20mm cable entries
- Lid screw covers for clean line appearance
- Conforms to BS EN 60529

	PART NO.	DESCRIPTION	DIMENSIONS
	PX66JB1-C	Single Junction Box	H108 x W85 x D50mm
	PX66JB2-C	Twin Junction Box	H108 x W170 x D50mm
	PX66JB2E-C	Twin Junction Box with integral earth frame	H108 x W170 x D50mm

# PowerX IP67 Weatherproof RCD Spur Unit

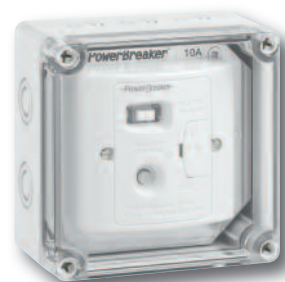
Housed in a tough polycarbonate enclosure, the IP67 rated weatherproof RCD spur unit is specifically designed to withstand extreme environments involving dirt or fluid contaminants.


The ~~PowerBreaker~~ H92IP provides added protection against the risks of electrocution with ideal applications including food industry wash down areas, industrial plants, hotel/leisure complexes, CCTV, pool and fountain pumps, greenhouses and automated sprinkler systems.

- Uses PowerBreaker technology
  - High intensity LED power on indicator
  - Conforms to BS 1363-4:1995 Amd 1, 2, 3 and BS 7288:1990 Amd 1
- EMC Emissions - EN 55014-1:2006 & EN 55014-1:2000 inc A1:2001 & A2:2002  
 EMC Immunity - EN 61543:1995 inc A11:2003, A12:2005 & A2:2006  
 BS EN 60529:1992 (IEC 529:1989)

## Technical Data

Rated voltage	230V AC 50Hz
Max operating current	10A total load (supplied with a 10A fuse fitted)
Rated trip current	30mA
Typical trip speed	20mS
RCD contact break	Double pole
Latching	Mechanical, no need to reset after power loss
Responsive to	Pulsating DC earth faults



PART NO.	DESCRIPTION	DIMENSIONS	
<b>H92IP-X</b> <del>PowerBreaker</del>	PowerBreaker RCD Fused Spur Unit in weatherproof enclosure	H125 x W125 x D76mm	






# PowerX IP66 Weatherproof Sockets



New from KingShield, the PowerX Weatherproof range has been specifically designed for use outdoors in severe conditions of rain and water spray as well as dust contamination to IP66 as defined by BS EN 60529.



- Weatherproof to IP66 even with plugs inserted
- Can be used for long term projects in all weather conditions
- Clear lid/cover for easy visibility
- Made from high impact polycarbonate
- Substantial clip feature to keep lid shut down
- Rust-proof hinges
- Easy cable entry
- UV protected - will not deteriorate in sunlight
- Single box dimensions H135 x W127 x D80mm
- Twin box dimensions H145 x W189 x D80mm
- Conforms to BS 1363 IEC 60670-1 & IEC 60670-22

	PART NO.	DESCRIPTION	INFO
	<b>PXC22MP-C</b> <del>PowerBreaker</del>	PowerBreaker RCD Twin 13A Unswitched Socket	High intensity LED power-on indicator Double pole switching Twin earth terminals Mechanically latched - (no need to reset) Trip current 30mA Typical trip speed <20ms Conforms to BS standards as shown on H22MPA-C
	<b>PXCWTS-C</b>	Twin 13A Switched Socket	Double pole 13A socket Twin earth terminals 6 x 20mm Knockouts
	<b>PXCSSS-C</b>	Single 13A Switched Socket	Double pole 13A Socket 20mm Knockouts

New from KingShield, the PowerX Weatherproof range has been specifically designed for use outdoors in severe conditions of rain and water spray as well as dust contamination to IP66 as defined by BS EN 60529.

- Can be used for long term projects in all weather conditions
- Clear lid/cover for easy visibility
- Made from high impact polycarbonate
- Substantial clip feature to keep lid shut down
- Rust-proof hinges
- Easy cable entry
- UV protected - will not deteriorate in sunlight
- Single box dimensions H135 x W127 x D80mm
- Conforms to IEC 60670-1, IEC 60670-22, BS 1363 & BS 7288





PART NO.	DESCRIPTION	INFO	
<b>PXC92MP-C</b> <del>PowerBreaker</del>	PowerBreaker RCD Fused Spur Double pole	<p>High intensity LED power-on indicator</p> <p>Mechanical flag trip indicator</p> <p>Incorporates 13A fuse</p> <p>Mechanically latched - (no need to reset)</p> <p>Trip current 30mA</p> <p>Typical trip speed &lt;20ms</p> <p>Twin earth terminals</p> <p>4 x 20mm knockouts</p>	
<b>PXC92N-C</b>	13A Switched Spur Double Pole	<p>With neon power-on indicator</p> <p>Flex outlet</p> <p>Complete with 13A fuse</p>	

# PowerX IP66 Weatherproof Timers



New from KingShield, the PowerX Weatherproof range has been specifically designed for use outdoors in severe conditions of rain and water spray as well as dust contamination to IP66 as defined by BS EN 60529.

- Can be used for long term projects in all weather conditions
- Clear lid/cover for easy visibility
- Made from high impact polycarbonate
- Substantial clip feature to keep lid shut down
- Rust-proof hinges
- Easy cable entry
- UV protected - will not deteriorate in sunlight
- Single box dimensions H135 x W127 x D80mm
- Twin box dimensions H145 x W189 x D80mm
- Conforms to IEC 60670-1, IEC 60670-22, BS 1363 & BSEN 60730-2-7

	PART NO.	DESCRIPTION	INFO
	<b>PXC105DT-C</b>	7 Day Electronic Timer 24 on/off programmes	16A Resistive load Manual override available Countdown Timer Function Neon power-on indicator 4 x 20mm Knockouts
	<b>PXC70TSKT-C</b>	13A Socket with 24hr Timer 96 on/off settings available	13A Resistive/2A Inductive load Manual switch for easy ON/AUTO/OFF selection 15 minute switching 6 x 20mm Knockouts

New from KingShield, the PowerX Weatherproof range has been specifically designed for use outdoors in severe conditions of rain and water spray as well as dust contamination to IP66 as defined by BS EN 60529.

- Can be used for long term projects in all weather conditions
- Clear lid/cover for easy visibility
- Made from high impact polycarbonate
- Substantial clip feature to keep lid shut down
- Rust-proof hinges
- Easy cable entry
- UV protected - will not deteriorate in sunlight
- Single box dimensions H135 x W127 x D80mm
- Twin box dimensions H145 x W189 x D80mm
- Conforms to BS EN 60669-1, IEC 60670-1 & IEC 60670-22



NEW

## Technical Data

Knockouts 20mm  
Rated 10AX




PART NO.	DESCRIPTION	DIMENSIONS	
PXC1GSW-C	1 Gang Switch 2 way	H135 x W127 x D80mm	
PXC2GSW-C	2 Gang Switch 2 way	H135 x W127 x D80mm	
PXC3GSW-C	3 Gang Switch 2 way	H135 x W127 x D80mm	
PXC4GSW-C	4 Gang Switch 2 way	H145 x W189 x D80mm	

# PowerX IP55 Weatherproof Sockets



A range of wiring accessories that are popular with both installers and end users, since they are easy to install and easy to use - as well as being attractive and having many features. Available in single and double width enclosures with a large wiring space and easy press out cable entries. All units have a clear lid to show power status so there is no need to open the lid. The lids can also be padlocked for added security. These sockets are IP55 rated, even with the plug inserted.



- Power-on indicator (visible through clear cover)
- Lids can be padlocked for added security
- Shielded cable entries
- Three bottom cable entries (double)
- Two bottom cable entries (single)
- Mounting holes outside the weatherproof enclosure
- Removable lid for ease of installation
- Twin box dimensions H143 x W166 x D90mm
- Single box dimensions H143 x W107 x D87mm
- 230V AC 50Hz
- Conforms to BS EN 60529, BS 1363 and BS 7288

	PART NO.	DESCRIPTION	INFO
	<b>WN22WP-C</b>	SafetySure RCD Twin 13A Unswitched Socket	3A inductive Double pole switching Twin earth terminals Mechanically latched - no need to reset Trip current 30mA
	<b>WN55WA-C</b>	Twin 13A Switched Socket	Double pole switching
	<b>WNS50WA-C</b>	Single 13A Switched Socket	Double pole switching Urea face plate

Ideal for all outdoor timing applications including lighting and pond pumps.

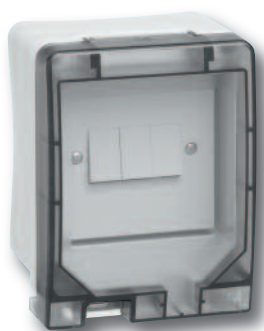
- Power-on indicator (visible through clear cover)
- Lids can be padlocked for added security
- Easy to press out 20mm cable entries
- Two bottom cable entries
- Shielded cable entries
- Mounting holes outside the weatherproof enclosure
- 230V AC 50Hz
- Box dimensions H143 x W107 x D87mm
- Conforms to BS EN 60529, BS 1363-4 and BS 7288



PART NO.	DESCRIPTION	INFO	
<b>WNS93WP-C</b>	SafetySure RCD Fused Spur Unit	Mechanically latched - no need to reset 13A Resistive / 3A inductive Double pole switching Twin earth terminals Trip current 30mA Mechanical flag trip indicator	
<b>WNS94WA-C</b>	Fused Spur Unit Switched (not RCD protected)	13A Fuse not removeable while switch is on Urea face plate	



# PowerX IP55 Weatherproof Switches



- Removable lid for ease of installation
- Lid can be padlocked for added security
- Two bottom cable entries
- Shielded cable entries
- Mounting holes outside the weatherproof enclosure
- Box dimensions H143 x W107 x D87mm
- Conforms to BS EN 60669

	PART NO.	DESCRIPTION	INFO
	<b>WNS44WA-C</b>	3 Gang 10A Switch 2 way switch operation	10A rated (resistive) Urea face plate

## Sockets

- Weatherproof with plug inserted
- 230V AC 50Hz (13A)
- Conforms to BS EN 60529 (IP44) BS 1363-2

## Switches & Bell Push

- 10AX 230V AC rated
- Screwless cable terminations
- Conforms to BS EN 60669 & BS EN 60529





PART NO.	DESCRIPTION	DIMENSION	
<b>WE44SS-C</b>	Single 13A Socket	H105 x W74 x D89mm	
<b>WE44TS-C</b>	Twin 13A Socket	H105 x W137 x D89mm	
<b>WNSWDP-C</b>	10AX Single Switch Double pole	H87 x W74 x D55mm	
<b>WNSW-C</b>	10AX Single Switch 2 way	H87 x W74 x D55mm	
<b>WNSW2G-C</b>	10AX Double Switch	H87 x W74 x D55mm	
<b>WNBP-C</b>	10AX Bell Push	H87 x W74 x D55mm	

# PowerX Pre-Wired Outdoor Socket Systems



- Cable pre-wired to socket (3M)
- Connection to house supply through RCD plug (supplied)
- Sockets are weatherproof even with plug inserted
- All sockets have lids that can be padlocked for added security and safety
- Shielded cable entries
- Mounting holes outside the weatherproof enclosure
- Twin box dimensions H143 x W166 x D90mm
- Single box dimensions H143 x W107 x D87mm
- CE Marked
- Conforms to BS 1363 & BS 7071



<del>PowerBreaker</del>	PART NO.	DESCRIPTION	PACKAGING
	<b>PSKITU-C</b>	13A Single Socket Kit IP55 Socket, 3M Cable and PowerBreaker RCD Plug	In clam shell packaging with euro hook slot
	<b>PTSKITU-C</b>	13A Twin Socket Kit IP55 Socket, 3M Cable and PowerBreaker RCD Plug	In clam shell packaging with euro hook slot

All damaged cables should be cut through and repaired as if you were joining two cables (insulating tape is not adequate for this purpose), this is achieved with a safety weatherproof cable connector.

The H85Z-C weatherproof plug and socket is suitable for use with appliances that you wish to be able to easily disconnect, such as pond pumps.

- Conforms to BS 60998 & BS 5733

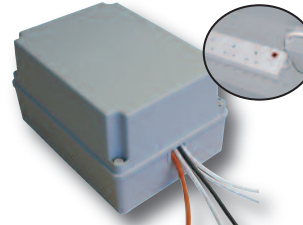
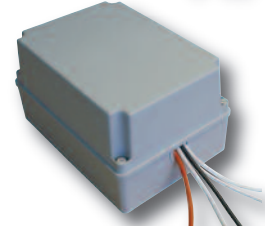


PART NO.	DESCRIPTION	DIMENSIONS	
<b>H65Z-C</b>	<p>Cable Connector IP67 - Can be temporarily submersed in water</p> <p>For repairing or extending outdoor cables up to 3 core 2.5mm<sup>2</sup></p> <p>Max current 15A</p>	<p>Cable Diameter: Max 12.5mm / Min 6mm</p> <p>32 x 120mm</p>	
<b>H85Z-C</b>	<p>Plug &amp; Socket Cable Connector IP68 - Can be continously immersed in water</p> <p>Max current 10A</p>	<p>Cable Diameter: Max 9mm / Min 5mm</p> <p>40 x 140mm</p>	

## PowerX Outdoor Power Box

- Weatherproof (IP44)
- 1.6m cable with 13A plug (APB04A)
- Unique cable port (no need to remove plugs when installing)
- Large rugged enclosure
- Total maximum load 13A
- Accommodates four low voltage transformers (total maximum transformer load - 144W)







PART NO.	DESCRIPTION	DIMENSIONS	
<b>APB04A</b>	<p>Outdoor Power Box with 4 way socket strip</p>	<p>H235 x W325 x D190mm</p>	
<b>APB05</b>	<p>Outdoor Power Box only</p>	<p>H235 x W325 x D190mm</p>	



WIRING ACCESSORIES

- Rugged steel construction
- Front plate fits flush to back box
- Surface and flush mounting options
- Metal back box supplied as standard
- 230V AC 50Hz
- Conforms to BS 1363 - Part 2: 1995



PART NO.	DESCRIPTION	DIMENSIONS	
<b>MC411</b>	Single 13A Switched Socket	H86 x W86 x D50mm	
<b>MC611</b>	Single 13A Switched Socket Double pole	H86 x W86 x D50mm	
<b>MC421</b>	Twin 13A Switched Socket	H86 x W145 x D50mm	
<b>MC621</b>	Twin 13A Switched Socket Double pole	H86 x W145 x D50mm	



# Metalclad Fused Connection Units








- Rugged steel construction
- Front plate fits flush to back box
- Surface and flush mounting options
- Metal back box supplied as standard
- Fused 13A (fuse supplied)
- 230V AC 50Hz
- Dimensions H86 x W86 x D50mm
- Conforms to BS 1363 - Part 4: 1995

	PART NO.	DESCRIPTION	INFO
	<b>MC811</b>	Fused Connection Unit Unswitched	-
	<b>MC811N</b>	Fused Connection Unit Unswitched	Neon power-on indicator
	<b>MC711</b>	Fused Connection Unit Switched	Double pole Fuse cannot be withdrawn when switch is on
	<b>MC711N</b>	Fused Connection Unit Switched	Neon power-on indicator Double pole Fuse cannot be withdrawn when switch is on
	<b>MC716</b>	Fused Connection Unit Switched	Double pole with Cord outlet Fuse cannot be withdrawn when switch is on
	<b>MC716N</b>	Fused Connection Unit Switched	Neon power-on indicator Double pole with Cord outlet Fuse cannot be withdrawn when switch is on

# Metalclad Switches

- Rugged steel construction
- Front plate fits flush to back box
- Surface and flush mounting options
- Metal back box supplied as standard
- 230V AC 50Hz (10AX)
- Single switches nominal dimensions H86 x W86 x D50mm
- Twin switch nominal dimensions H86 x W145 x D50mm
- Conforms to BS EN 60669-1: 2000



PART NO.	DESCRIPTION	INFO	
MC112	1 Gang 10AX Switch	2 way	
MC113	1 Gang 10AX Intermediate Switch	Changeover	
MC122	2 Gang 10AX Switch	2 way	
MC132	3 Gang 10AX Switch	2 way	
MC142	4 Gang 10AX Switch	2 way	

# Metalclad Switches







- Rugged steel construction
- Front plate fits flush to back box
- Surface and flush mounting options
- Metal back box supplied as standard
- 230V AC 50Hz
- Single switches nominal dimensions H86 x W86 x D50mm
- Twin switch nominal dimensions H86 x W145 x D50mm
- Conforms to BS EN 60669-1: 2000

	PART NO.	DESCRIPTION	INFO
	<b>MC214</b>	20A Switch	Double pole
	<b>MC214N</b>	20A Switch with neon power-on indicator	Double pole
	<b>MC314</b>	45A Switch with red rocker switch	Double pole
	<b>MC314N</b>	45A Switch with neon power-on indicator and red rocker switch	Double pole
	<b>MC324N</b>	45A Switch with neon power-on indicator and red rocker switch	Double pole (double enclosure)
	<b>MC914</b>	10A Fan Isolator Switch	Three pole

- Rugged steel construction
- Front plate fits flush to back box
- Surface and flush mounting options
- Metal back box supplied as standard
- MC924 conforms to BS 1363-2



PART NO.	DESCRIPTION	DIMENSIONS	
MC911	TV Socket	H86 x W86 x D50mm	
MC912	Telephone Socket Master	H86 x W86 x D50mm	
MC913	Telephone Socket Slave	H86 x W86 x D50mm	
MC924	45A Switched Cooker Outlet & 13A Switched Socket	H86 x W145 x D50mm 230V AC 50Hz	

# Metalclad - Miscellaneous Items



- Blank single and double cover plates
- Single and double boxes with earth terminals
- Fits KingShield metalclad range

	PART NO.	DESCRIPTION	INFO
	MC915	Cover Plate only	1 Gang
	MC925	Cover Plate only	2 Gang
	MC916	Back Box only	1 Gang
	MC926	Back Box only	2 Gang

SafetySure RCD Plugs and Adaptors fully comply with BS 7071 & BS 1363. All SafetySure Sockets & Spurs have separate test and reset buttons, dual earth terminals and are available in white plastic or metalclad. They are individually packed in sealed poly bags with a euro hook slot, for easy display. The SafetySure RCD Plug & Adaptors are clam packed.

- Conforms to BS 7288:1990 & BS 1363
- Mechanical flag trip indicators

## Technical Data

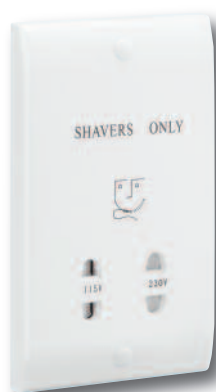
Rated voltage	230V AC 50Hz
Max operating current	13A (3A inductive)
Rated trip current	30mA
Typical trip speed	<40mS
RCD contact break	Double pole
Responsive to	Pulsating DC earth faults



PART NO.	DESCRIPTION	INFO	
<b>M74-C</b>	RCD Plug	Electrically latched - needs resetting after a power loss	
<b>M04-C</b>	RCD Adaptor	Electrically latched - needs resetting after a power loss	
<b>M22W</b>	RCD Unswitched Socket White	Mechanically latched - no need to reset after a power loss  Dimensions: H86.5 x W147 x D16mm	
<b>M22M</b>	RCD Unswitched Socket Metalclad	Mechanically latched - no need to reset after a power loss  Dimensions: H86.5 x W147 x D50mm	
<b>M92W</b>	RCD Fused Spur White	Mechanically latched - no need to reset after a power loss  Dimensions: H86.5 x W86.5 x D37mm (16mm surface projection)	
<b>M92M</b>	RCD Fused Spur Metalclad	Mechanically latched - no need to reset after a power loss  Dimensions: H87 x W87 x D50mm (inc. back box)	



# Shaver Sockets



Traditional double gang dual voltage shaver sockets suitable for bathroom use.

- Auto reset overload temperature and current sensor
- Accepts British and Continental plugs
- 20VA double wound transformer
- 230V AC. 115/230V AC Dual voltage
- Conforms to BS EN 61558-1 & BS EN 61558-2-5
- Auto switching shutters - prevents two plugs being inserted at the same time

	PART NO.	DESCRIPTION	MATERIAL/ COLOUR
	<b>SHAS</b>	Double Gang Shaver Socket Curved front face H146 x W85 x D49mm	White High Gloss Thermoplastic
	<b>P17</b>	Double Gang Shaver Socket Flat front face H148 x W87 x D49mm	White Scratch Resistant Urea
	<b>P17C</b>	Double Gang Shaver Socket Flat front face H147 x W88 x D49mm	Chrome
	<b>P17SC</b>	Double Gang Shaver Socket Flat front face H147 x W88 x D49mm	Satin Chrome

Traditional single gang dual voltage shaver sockets suitable for bathroom use.

- Manufactured in high gloss thermoplastic
- Single Gang
- Auto reset overload temperature and current sensor
- Accept British and Continental plugs
- 20VA double wound transformer
- 230V AC. 115/230V AC Dual voltage
- Dimensions H85mm x W85mm
- Conforms to BS EN 61558-1 & BS EN 61558-2-5



PART NO.	DESCRIPTION	COLOUR	
HS1	Single Gang Shaver Socket with standard white front plate	White	
HS1M	Single Gang Shaver Socket - ready for decorative front plate	White	
HS1BP	Decorative Front Plate Plastic with metallic finish - Simply clip onto the HS1M	Brass	
HS1SBP		Satin Brass	
HS1CHP		Chrome	
HS1SCHP		Satin Chrome	

# Ceiling Accessories



The KingShield energy saving PL Pendant ceiling rose meets the latest building regulations. It features an intelligent built-in electronic control gear, with a standard 3 plate loop-in ceiling rose and flex. Complies with latest British and European Standards.

- PLP overall length not including lamp 245mm
- Conforms to EN 60598-2-1 (PLP only)
- Conforms to BS 67: 1987

	PART NO.	DESCRIPTION	INFO	PK QTY
	<b>PLP</b>	Energy Saving PL Pendant not suitable for dimming	9 - 18W, 2-4 pin Branded PL/PLC G23/G24 lamps only (not supplied)	5
	<b>PLP13</b>		13W, 4 pin G24q1 lamp (not supplied)	5
	<b>PLP18</b>		18W, 4 pin G24q2 lamp (not supplied)	5
	<b>GB2653-T2</b>	BC Lampholder T2	With heat resistant metal lamp holder	20
	<b>GB2655-T2</b>	BC Battenholder HO 3 Terminal T2	With heat resistant metal lamp holder	20
	<b>GB2623</b>	Ceiling Rose T2 3 terminal & earth to BS 67:1987	With clear plastic terminal plate	10
	<b>GB2663-T2</b>	BC Battenholder HO 3 terminal & earth	Comes with ceiling rose, clear plastic terminal plate & heat resistant metal lamp holder	10
	<b>GB2654-T2</b> <b>GB2677-T2</b>	6" Pendant Lampholder 9" Pendant Lampholder	Heat resistant metal lamp holder	10 10

The KingShield dimmable pull switch is able to dim standard and low voltage lighting,

- Standard lighting, max load 250W
- LV lighting, max load 170W
- Conforms to:  
Dimpull - EN 60669-2-1  
Other products - BS EN 60669-1




PART NO.	DESCRIPTION	INFO	PK QTY	
<b>DIMPULL-C</b>	Dimmable Pull Switch with silent switching White	Comes with optional chrome cover	1	
<b>GB2641BR-C</b>	Brass	6A, 2 way	1	
<b>GB2641CH-C</b>	Chrome	6A, 2 way	1	
<b>GB2641</b>	Pull Cord Switch	6A, 2 way	10	
<b>GB2319</b>	45A DP Switch with neon	Uses GB2667 Pattress	10	

# Rotary Isolators



- IP65 Rating
- Cable knockouts for ease of installation
- Interlocking lid ensures removal in 'OFF' position only
- Handles can be padlocked
- Easy access & switch removal
- Flame retardant material
- RoHS compliant

	PART NO.	DESCRIPTION	DIMENSIONS	POLE / AMPS
	<b>ROT3P16A</b>	Emergency switches Red padlockable control on yellow flange	114 x 114 x 71.5mm	3 Pole, 16A
	<b>ROT4P16A</b>		114 x 114 x 71.5mm	4 Pole, 16A
	<b>ROT3P32A</b>		114 x 114 x 71.5mm	3 Pole, 32A
	<b>ROT4P32A</b>		114 x 114 x 71.5mm	4 Pole, 32A
	<b>ROT3P63A</b>		170 x 170 x 96mm	3 Pole, 63A
	<b>ROT4P63A</b>		170 x 170 x 96mm	4 Pole, 63A

- KingShield Cable Reels are available in 230V and 110V
- Conforms to BS 1363




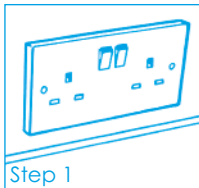
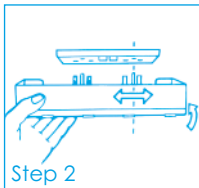
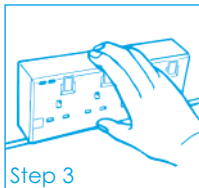
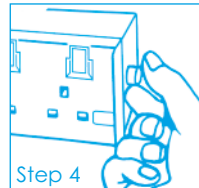

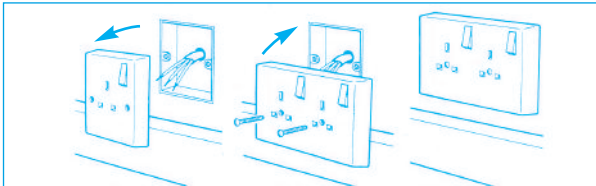

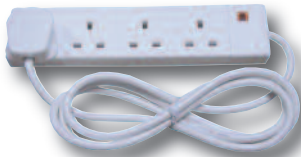
PART NO.	DESCRIPTION	VOLTAGE	
<b>CRD15N</b>	13A, 15M Cassette Cable Reel 4 Socket outlets	230V AC	
<b>CRD25N</b>	13A, 25M Drum Cable Reel 2 Socket outlets	230V AC	
<b>CRD50N</b>	13A, 50M Drum Cable Reel 2 Socket outlets	230V AC	
<b>8633</b>	16A, 25M Drum Cable Reel 2 Socket outlets	110V AC	
<b>8644</b>	16A, 50M Drum Cable Reel 2 Socket outlets	110V AC	



# Adaptors & Extension leads




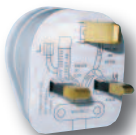
- Conforms to BS 1363

	PART NO.	DESCRIPTION	INFO	PK QTY
	<b>GB224WS</b>	Two2Four Socket Adaptor with Surge Protection and individually switched sockets	Converts any twin socket to 4 sockets instantly  Clam packed	1
<div>     </div>				
	<b>GB122W-C</b> <b>GB122W</b>	1 to 2 Socket Converter Converts a single socket to a double Replaces existing single socket	Clam packed Box packed	5 5
				
	<b>GB223W-C</b>	2 to 3 Socket Converter Converts a double socket to a triple socket	Clam packed	5
	<b>1119</b>	13A, 4 Gang Extension Lead With a neon power-on indicator 1.6M Cable	Poly bag packed	1

# Plug Tops

- Conforms to BS 163 Part 1.1995



PART NO.	DESCRIPTION	PK QTY	
P13W	13A Plug Top	20	
P13W-3	13A Plug Top Fitted with 3A fuse	20	

# Euro & Schuko Converter Plugs



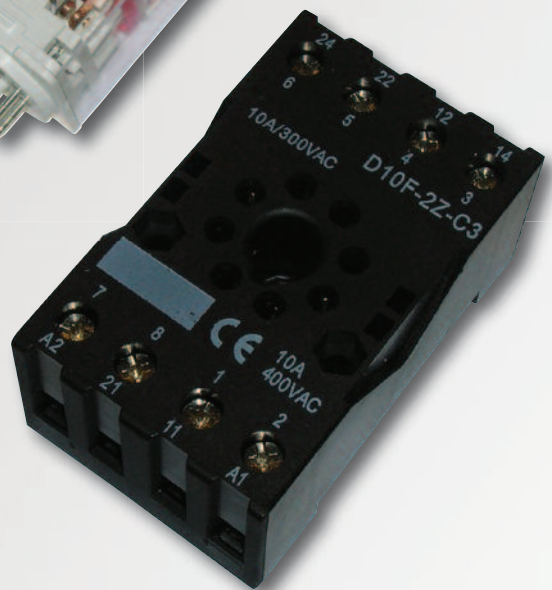
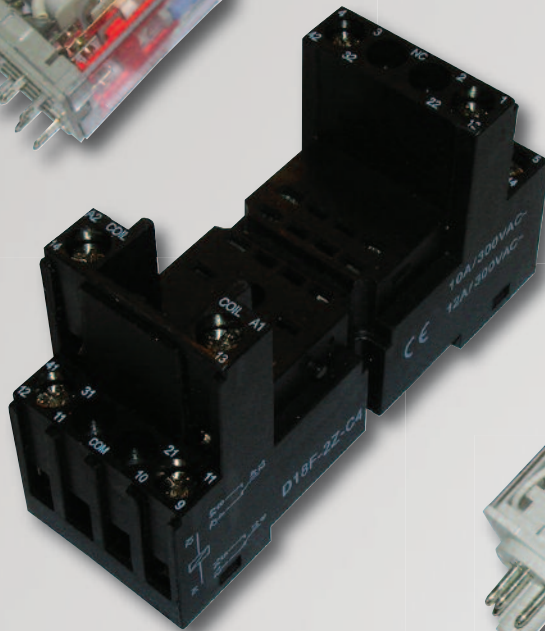
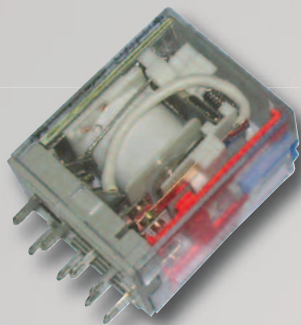
## Euro & Schuko Plug Converters

- The Europlug converts 2.5A Europlug and German Schuko to 13A BS type
- The Europlug clips into the 13A Euroconverter plug terminals quickly and securely making life easier for UK consumers or importers buying standard electrical equipment abroad
- Conforms to BS 5733, BS 1363
- Returnable / Non Returnable refers to the screws used to secure the plug cover

A returnable screw can be screwed and unscrewed as many times as required

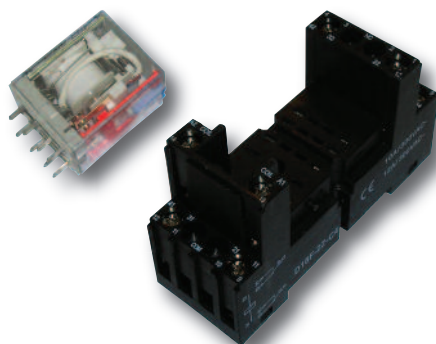
A non returnable screw can only be screwed in once and will not undo for security/safety purposes

	PART NO.	DESCRIPTION	COLOUR
	<b>ECP-BNR-3A</b>	3A Non Returnable	Black
	<b>ECP-BNR-5A</b>	5A Non Returnable	Black
	<b>ECP-BR-5A</b>	5A Returnable	Black
	<b>ECP-WNR-3A</b>	3A Non Returnable	White
	<b>ECP-WR-3A</b>	3A Returnable	White
	<b>ECP-WNR-5A</b>	5A Non Returnable	White
	<b>SCP-B-10A</b>	Schuko Converter Plug 10A non-earth converter	Black
	<b>SCP3-B-13A</b>	Schuko Converter Plug 13A	Black



# RELAYS



# Plug-In Relays and Bases



- 2 and 4 Pole - Square Terminal Footprint
- All standard coil voltages
- Competitively priced
- With LED / flag / button as standard
- DIN rail bases

## Technical Data

- IP40
- Contact material is silver alloy
- Contact rating: 2 pole is 10A 250V AC, 4 pole is 5A 250V AC
- AC coil consumption: 24 to 230V AC - 1.2VA
- DC coil consumption: 24V DC - 0.9W
- UL / CSA

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>PRS208-24DC</b> <b>PRS208-24AC</b> <b>PRS208-115AC</b> <b>PRS208-230AC</b>	2 Pole Changeover	L27 x W21 x H43
	<b>PRSB8-B</b>	DIN Rail Base for 2 Pole changeover	L75 x W27 x H43mm
	<b>PRS414-24DC</b> <b>PRS414-24AC</b> <b>PRS414-115AC</b> <b>PRS414-230C</b>	4 Pole Changeover	L27 x W21 x H43
	<b>PRSB14-B</b>	DIN Rail Base for 4 Pole changeover	L75 x W27 x H43mm

- 2 and 3 Pole - Round Terminal Footprint
- All standard coil voltages
- Competitively priced
- With LED / flag / button as standard
- DIN rail bases



## Technical Data

- IP40
- Contact material is silver alloy
- Contact rating: 10A 250V AC
- AC coil consumption: 24 to 230V AC - 1.2VA
- DC coil consumption: 24V DC - 0.9W
- UL / CSA

PART NO.	DESCRIPTION	DIMENSIONS	
<b>PRR208-24DC</b> <b>PRR208-24AC</b> <b>PRR208-115AC</b> <b>PRR208-230AC</b>	2 Pole Changeover	L36 x W38 x H69	
<b>PRRB8-B</b>	DIN Rail Base for 2 Pole Changeover	L62 x W38 x H26mm	
<b>PRR311-24DC</b> <b>PRR311-24AC</b> <b>PRR311-115AC</b> <b>PRR311-230AC</b>	3 Pole Changeover	L36 x W38 x H69	
<b>PRRB11-B</b>	DIN Rail for 3 Pole Changeover	L62 x W38 x H26mm	

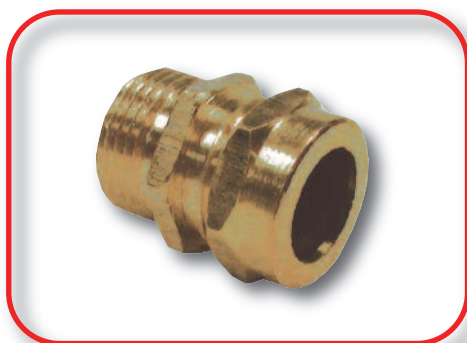
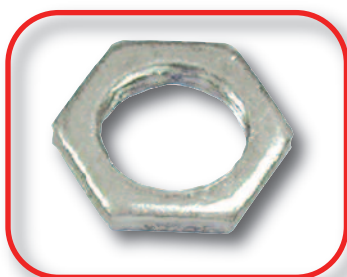


# NORSLO

Norslo has been supplying the market for more than 20 years with a diverse and comprehensive range of electrical installation equipment and accessories.

During this time the range has grown considerably and with a dedicated product development team, all GreenBrook products are continually analysed and developed to ensure they more than satisfy its market.

Now the Norslo range is wider than ever before. Backed up by a new catalogue which is fully equipped with specific product information and detailed photography, Norslo is a brand that is customer focused, making it even simpler for the customer to identify the items required for their installation.



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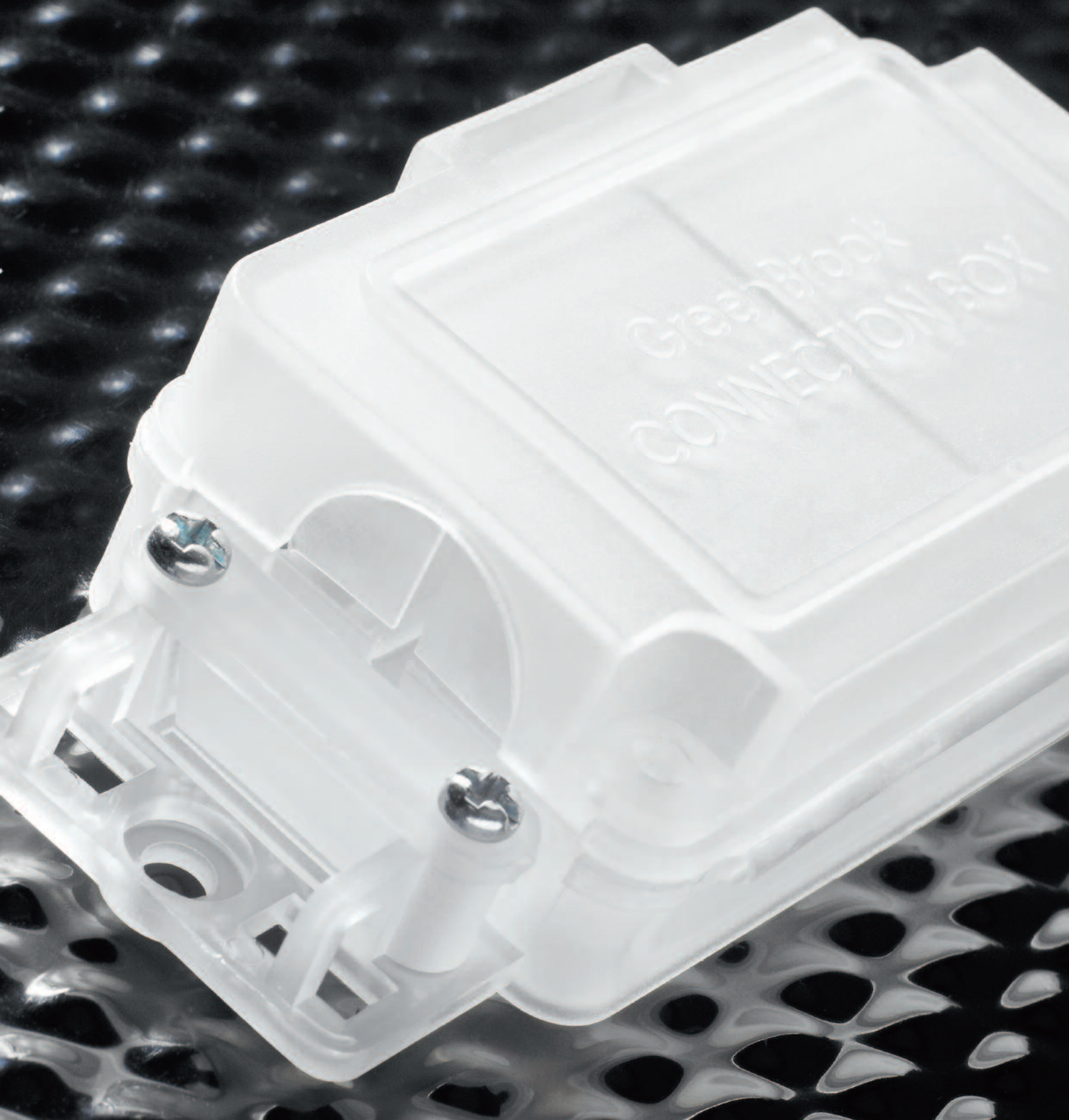
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NORSLO



CABLE TERMINATION

## Connectors

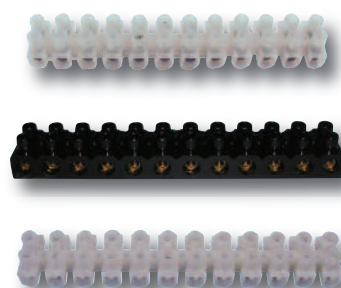
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- Brass terminals
- Ceramic body
- Max temperature of operation: 350°C
- Chemical resistant
- 2 and 3 pole complete with central hole fixing

	PART NO.	DESCRIPTION	POLES	PK QTY	DIMENSIONS	FIX HOLES
	<b>PC51</b>	5A	1 pole	20	H15 x W18 x L11mm	0
	<b>PCC52</b>	Porcelain	2 Pole	20	H15 x W18 x L33mm	2 - 4mm
	<b>PCC53</b>	Connectors	3 pole	20	H15 x W18 x L23mm	1 - 4mm
	<b>PCC152</b>	15A	2 pole	20	H15 x W23 x L26mm	1 - 5mm
	<b>PCC153</b>	Porcelain	3 pole	20	H15 x W23 x L40mm	2 - 5mm
	<b>PC301</b>	30A	1 pole	20	H19 x W26 x L16mm	0
	<b>PCC302</b>	Porcelain	2 pole	20	H19 x W26 x L32mm	1 - 5mm
	<b>PCC303</b>	Connectors	3 pole	20	H19 x W26 x L47mm	2 - 5mm

- Polyethylene working temperature 80°C
- Nylon working temperature 100°C
- Bakelite working temperature 140°C



PART NO.	DESCRIPTION	AMPS	PK QTY	
<b>2SC</b>	Polyethylene 12 way Strip Connectors Clear	3A	10	
<b>5SC</b>		5A	10	
<b>10SC</b>		10A	10	
<b>15SC</b>		15A	10	
<b>30SC</b>		30A	10	
<b>60SC</b>		60A	10	
<b>NYC5</b>	Nylon 12 way Strip Connectors Clear	5A	10	
<b>NYC15</b>		15A	10	
<b>NYC30</b>		30A	10	
<b>BAC5</b>	Bakelite 12 way Strip Connectors Black	5A	20	
<b>BAC15</b>		15A	20	
<b>BAC30</b>		30A	10	



# Cable Connectors

**NORSLO**


All damaged cables should be cut through and repaired as if you were joining two cables (insulating tape is not adequate for this purpose). This is achieved with a safety weatherproof cable connector. The H65Z-C is ideal for joining and repairing outdoor cables up to 3 core 2.5mm<sup>2</sup>. And with its IP67 weatherproof rating it can also be temporarily immersed in water. Maximum current 15A.

The Norslo H85Z-C weatherproof plug and socket is ideal for using with appliances that you wish to be able to easily disconnect, such as pond pumps. With a weatherproof rating of IP68 it can be continuously immersed in water. Maximum current 10 Amps.

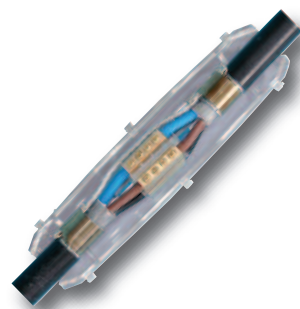
- Conforms to BS EN 60529, IEC 61984




	PART NO.	DESCRIPTION	DIMENSIONS
	<b>H65Z-C</b>	IP67 Weatherproof Cable Connector  (Can be temporarily immersed in water)	Cable ø - max 12.5mm / min 6mm  Dimensions - Dia 32mm x L 120mm  Weight 60g
	<b>H85Z-C</b>	IP68 Weatherproof Plug & Socket Cable Connector  (Can be continuously immersed in water)	Cable ø - max 9mm / min 5mm  Dimensions - Dia 40mm x L 140mm  Weight 75g



Securely joins cables with a permanent resin.

- For 2, 3 & 4 core cables
- All mechanical joints included
- For PVC, XLPE, EPR & PILC cables
- RoHS compliant
- Water resistant
- Conforms to BS 6910 & CENELEC HD 623S1



PART NO.	DESCRIPTION	SIZE	
<b>CJS1</b>	LV Straight Joints	1.5 - 6mm <sup>2</sup>	 
<b>CJS2</b>		10 - 16mm <sup>2</sup>	
<b>CJS3</b>		25mm <sup>2</sup>	
<b>CJS4</b>		35 - 95mm <sup>2</sup>	
<b>CJS5</b>		120mm <sup>2</sup>	
<b>CJB1</b>	LV Branch Joints	1.5 - 16mm <sup>2</sup>	
<b>CJB2</b>		25 - 35mm <sup>2</sup>	



## Junction Boxes

NORSLO



- Brass terminal
- Urea mouldings
- Heavy duty
- Conforms to BS 6220

	PART NO.	DESCRIPTION	FINISH	PK QTY
	<b>GB2299</b>	Junction Box	White	10
	<b>GB2299B</b>	4 terminal, 20A 58mm diameter	Black	10
	<b>GB2620</b>	Junction Box	White	10
	<b>GB2620B</b>	4 terminal, 5A 60mm diameter	Black	10
	<b>GB2621</b>	Junction Box	White	10
		4 terminal, 20A 75mm diameter		
	<b>GB2622</b>	Junction Box	White	10
		3 terminal, 30A 75mm diameter		
	<b>GB2619</b>	Heavy Duty Junction Box	White	10
	<b>GB2619B</b>	3 terminal, 30A 90mm diameter	Black	10
	<b>GB2618</b>	Heavy Duty Junction Box	White	10
	<b>GB2618B</b>	4 terminal, 20A 90mm diameter	Black	10
	<b>GB2298</b>	Heavy Duty Junction Box	White	10
	<b>GB2298B</b>	6 terminal, 20A 90mm diameter	Black	10

Heavy duty blocks for use at meter/mains position

- Black urea phenolic
- Easy knockout entries
- Lids can be sealed for security
- 230V AC
- Conforms to BS EN 60695-2-10



PART NO.	DESCRIPTION	INFO	PK QTY	
<b>CB1</b>	Connector Block 100A 25mm <sup>2</sup>	Single pole, 5 way	20	
<b>CB2</b>	Capacity 5 cables per pole	Double pole, 2 x 5 way	10	
<b>CB3</b>	Connector Block 100A 35mm <sup>2</sup>	Single pole, 5 way	20	
<b>CB6</b>	Capacity 5 cables per pole	Double pole 2 x 5 way	10	
<b>CB9</b>	200A 70mm <sup>2</sup> Capacity 6 cables per pole	Single pole, 6 way	1	

	Weight(g)	H (mm)	W (mm)	D (mm)
<b>CB1</b>	132	64	47	38
<b>CB2</b>	290	89	65	55
<b>CB3</b>	188	64	47	38
<b>CB6</b>	493	104	66	67
<b>CB9</b>	585	125	64	55

# Compression Cable Lugs

**NORSLO**


- Manufactured in tinned copper

	PART NO.	DESCRIPTION	STUD SIZE	PK QTY
	<b>CS6/6</b>	Compression Cable Lug Cable Size 6mm	6	50
	<b>CS10/6</b> <b>CS10/8</b> <b>CS10/10</b>	Compression Cable Lug Cable Size 10mm	6 8 10	50 50 50
	<b>CS16/6</b> <b>CS16/8</b> <b>CS16/10</b>	Compression Cable Lug Cable Size 16mm	6 8 10	50 50 50
	<b>CS25/6</b> <b>CS25/8</b> <b>CS25/10</b>	Compression Cable Lug Cable Size 25mm	6 8 10	50 50 50
	<b>CS35/8</b> <b>CS35/10</b> <b>CS35/12</b>	Compression Cable Lug Cable Size 35mm	8 10 12	50 50 50
	<b>CS50/8</b> <b>CS50/12</b>	Compression Cable Lug Cable Size 50mm	8 12	50 50
	<b>CS70/8</b> <b>CS70/10</b> <b>CS70/12</b>	Compression Cable Lug Cable Size 70mm	8 10 12	20 20 20
	<b>CS95/10</b> <b>CS95/12</b>	Compression Cable Lug Cable Size 95mm	10 12	20 20

- Cable size Red 0.5 - 1.5mm  
Blue 1.5 - 2.5mm  
Yellow 4.0 - 6.0mm



PART NO.	DESCRIPTION	STUD SIZE	PK QTY	
<b>RRT4.3</b> <b>RRT5.3</b> <b>RRT6.5</b> <b>RRT8.5</b>	Red Ring Terminals Cable size 0.5mm - 1.5mm	4.3mm 5.3mm 6.5mm 8.5mm	5 x 50 5 x 50 5 x 50 5 x 50	
<b>BRT4.3</b> <b>BRT5.3</b> <b>BRT6.5</b> <b>BRT8.5</b>	Blue Ring Terminals Cable size 1.5mm - 2.5mm	4.3mm 5.3mm 6.5mm 8.5mm	5 x 50 5 x 50 5 x 50 5 x 50	
<b>YRT4.3</b> <b>YRT5.3</b> <b>YRT6.5</b> <b>YRT10</b>	Yellow Ring Terminals Cable size 4.0mm - 6.0mm	4.3mm 5.3mm 6.5mm 10.0mm	5 x 50 5 x 50 5 x 50 5 x 50	
<b>RFT4.3</b> <b>BFT4.3</b>	Fork Terminals Stud size 4.3mm	Red Blue	5 x 50 5 x 50	
<b>RPOF6.3</b> <b>BPOF6.3</b> <b>YPOF6.3</b>	Connectors Push-on Female Stud size 6.3mm	Red Blue Yellow	5 x 50 5 x 50 5 x 50	
<b>RTIPOF6.3</b> <b>BTIPOF6.3</b> <b>YTIPOF6.3</b>	Connectors Totally Insulated, Push-on Female Stud size 6.3mm	Red Blue Yellow	5 x 50 5 x 50 5 x 50	

# Crimp Terminals & Connectors (Vinyl insulated)

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	PART NO.	DESCRIPTION	COLOUR	PK QTY
	<b>RPT9.5</b>	Pin Terminal Stud size 9.5mm	Red	5 x 50
	<b>RPOM6.3</b> <b>BPOM6.3</b> <b>YPOM6.3</b>	Connector Push-on Male Stud size 6.3mm	Red Blue Yellow	5 x 50 5 x 50 5 x 50
	<b>RS1.5</b> <b>BS2.5</b> <b>YS6</b>	Splice Stud size 1.5mm Stud size 2.5mm Stud size 6.0mm	Red Blue Yellow	5 x 50 5 x 50 5 x 50
	<b>RBM4</b> <b>BBM5</b>	Bullet Male Stud size 4.0mm Stud size 5.0mm	Red Blue	5 x 50 5 x 50
	<b>RPB6.3</b> <b>BPB6.3</b>	Piggy back Stud size 6.3mm	Red Blue	5 x 50 5 x 50



PART NO.	DESCRIPTION	TERMINAL HOLE SIZE	PK QTY	
<b>4WEBS</b>	Brass Earthing Block Single pole 4 way	1 x 25mm 3 x 16mm	20	
<b>8WEBS</b>	Brass Earthing Block Single pole 8 way	2 x 25mm 6 x 16mm	20	
<b>4WEB</b>	Brass Earthing Block Double pole 4 way	1 x 25mm 3 x 16mm	20	
<b>8WEB</b>	Brass Earthing Block Double pole 8 way	2 x 25mm 6 x 16mm	20	
<b>NR384E</b> <b>NR584E</b>	Economy Earth Rod	3/8" x 4' non-extend 5/8" 4' extendable	1	
<b>NR384</b> <b>NR584</b>	Premium Earth Rod	3/8" x 4' non-extend 5/8" 4' extendable	1	
<b>NRC38E</b> <b>NRC38</b>	Lug to Rod Clamp	3/8" economy 3/8" premium	10 10	



# Earthing Products

**NORSLO**


	PART NO.	DESCRIPTION	INFO	PK QTY
	NC38E NC58E NC38 NC58	Cable to Rod Clamp	3/8" economy 5/8" economy 3/8" premium 5/8" premium	10 10 10 10
	RC58 RC58E	Rod Coupling	5/8" coupler 5/8" rod coupling (economy)	10 25
	DS58	Driving Bolt	5/8" driving bolt	10
	PS1/20	Earth Strip Pierced copper	1/2" x 20M	1
	PT205	Earth Inspection Pit SWL 5,000kg made from lightweight polymer	Dimensions H300 x W300 x D212mm	1
	20ET 25ET	Earth Tags	20mm 25mm	100 100
	ECB	Earthing Box PVC	ø 66mm, H60mm	1

The Norslo high performance earth clamp is engineered by GreenBrook to exceed the requirements of BS 951. Independent testing and certification has confirmed this performance. Available in three colours - red for non-corrosive dry atmospheres, blue or green for corrosive or humid conditions. Available in three standard band lengths.

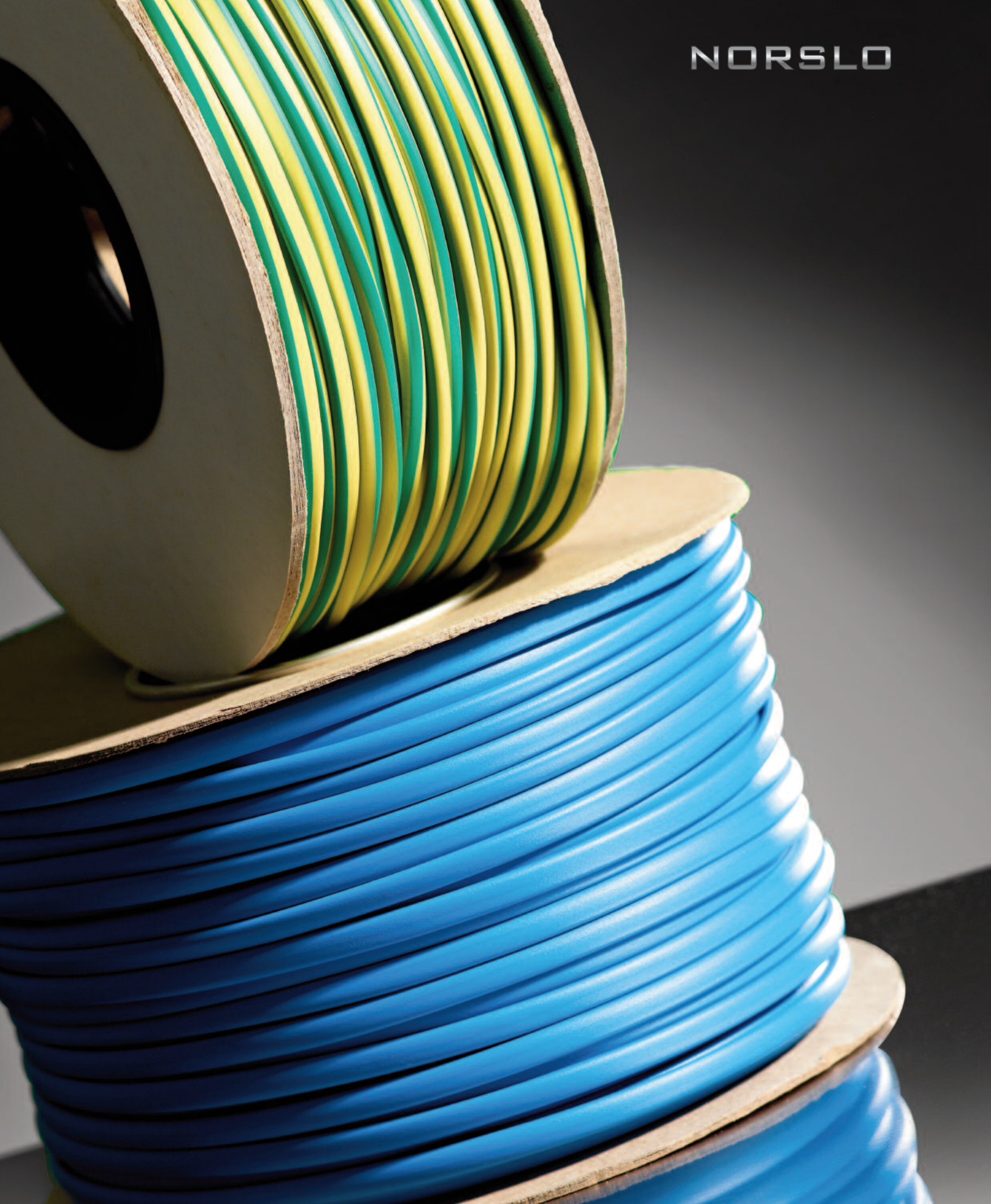
The Norslo Radiator Clamp Kit was specifically designed to allow a convenient and easy method of complying with the current IEE wiring regulations.

- Packs come complete with spanner, clamps and safety labels
- Can be easily used in all earthing applications with wet filled radiators, steel kitchen sinks, ducting, suspended ceilings or any other metal work that offers a 'fin' contact area.



PART NO.	DESCRIPTION	PIPE DIA. (ø)	PK QTY	
<b>EC14GB</b> <b>EC14/2GB</b> <b>EC14/3GB</b>	Earth Clamps for dry conditions Terminal size A-D 2.5 - 10mm <sup>2</sup> Max. earth conductor 1 x 10mm <sup>2</sup>	12mm - 32mm 32mm - 50mm 50mm - 75mm	20 20 20	
<b>EC15GB</b> <b>EC15/2GB</b> <b>EC15/3GB</b>	Earth Clamps for all conditions Terminal size A-D 2.5 - 10mm <sup>2</sup> Max. earth conductor 1 x 10mm <sup>2</sup>	12mm - 32mm 32mm - 50mm 50mm - 75mm	20 20 20	
<b>EC16GB</b> <b>EC16/2GB</b> <b>EC16/3GB</b>	Earth Clamps for all conditions Terminal size A-E 2.5 - 16mm <sup>2</sup> Max. earth conductor 2 x 10mm <sup>2</sup>	12mm - 32mm 32mm - 50mm 50mm - 75mm	20 20 20	
<b>RD10</b> <b>RD100</b>	Radiator Clamp Kit Complete with clamp, spanner & safety labels	in clam shell in a poly bag (10 poly bags of 10)	10 100	

NORSLO



CABLE MANAGEMENT



- Norslo PVC coated accessories are manufactured from PVC
- Available in black and white
- Conforms to BS 4607-5



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>WHITE</b>	<b>BLACK</b>				
<b>P1WAY20W</b> <b>P1WAY25W</b>	<b>P1WAY20B</b> <b>P1WAY25B</b>	Terminal Box	20mm 25mm	20 20	
<b>P2WAY20W</b> <b>P2WAY25W</b>	<b>P2WAY20B</b> <b>P2WAY25B</b>	Through Box	20mm 25mm	20 20	
<b>PANGLE.20W</b> <b>PANGLE25W</b>	<b>PANGLE20B</b> <b>PANGLE25B</b>	Angle Box	20mm 25mm	20 20	
<b>P3WAY20W</b> <b>P3WAY25W</b>	<b>P3WAY20B</b> <b>P3WAY25B</b>	Tee Box	20mm 25mm	20 20	
<b>P4WAY20W</b> <b>P4WAY25W</b>	<b>P4WAY20B</b> <b>P4WAY25B</b>	4 Way Box	20mm 25mm	20 20	

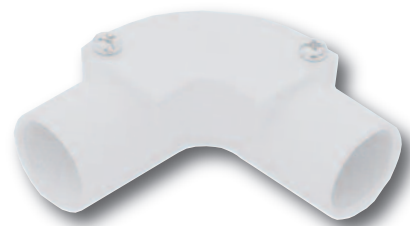
# PVC Conduit Accessories

**NORSLO**


- Norslo PVC coated accessories are manufactured from PVC
- Available in black and white
- Conforms to BS 4607-5

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>WHITE</b> <b>PU20W</b>	<b>BLACK</b> <b>PU20B</b>	U Box	20mm	20
	<b>PY20W</b>	<b>PY20B</b>	Y Box	20mm	20
	<b>PLOOPW</b>	<b>PLOOPB</b>	Loop-in Box	20mm	20
	<b>PCCW</b>	<b>PCCB</b>	Circular covers	100mm	100

- Norslo PVC coated accessories are manufactured from PVC
- Available in black and white
- Conforms to BS 4607-5



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>WHITE</b>  <b>PSTB20W</b> <b>PSTB25W</b>	<b>BLACK</b>  <b>PSTB20B</b> <b>PSTB25B</b>	Slip Bends	20mm 25mm	25 20	
<b>PNB20W</b> <b>PNB25W</b>	<b>PNB20B</b> <b>PNB25B</b>	Normal Bends (with couplers)	20mm 25mm	25 10	
<b>PIB20W</b> <b>PIB25W</b>	<b>PIB20B</b> <b>PIB25B</b>	Inspection Bends	20mm 25mm	20 20	
<b>PIE20W</b>	<b>PIE20B</b>	Inspection Elbows	20mm	20	
<b>PIT20W</b> <b>PIT25W</b>	<b>PIT20B</b> <b>PIT25B</b>	Inspection Tees	20mm 25mm	20 20	



## PVC Conduit Accessories

NORSLO



- Norslo PVC coated accessories are manufactured from PVC
- Available in black and white
- Conforms to BS 4607-5

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	WHITE	BLACK	Straight Couplers	20mm	100
	PC20W PC25W	PC20B PC25B		25mm	100
	PEC20W PEC25W	PEC20B PEC25B	Expansion Couplers	20mm	50
				25mm	25
	PMA20W PMA25W	PMA20B PMA25B	Male Adaptors	20mm	100
				25mm	100
	PFA20W PFA25W	PFA20B PFA25B	Female Adaptor	20mm	100
				25mm	100

- Norslo PVC coated accessories are manufactured from PVC
- Available in black and white
- Conforms to BS 4607-5



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>WHITE</b> <b>PR2520W</b>	<b>BLACK</b> <b>PR2520B</b>	Reducer	25 x 20	100	
<b>PLN20W</b> <b>PLN25W</b>	<b>PLN20B</b> <b>PLN25B</b> <b>RED</b> <b>PLN20R</b>	Hexagonal Locknuts	20 25 20	100 100 100	
<b>PLR20W</b> <b>PLR25W</b>	<b>PLR20B</b> <b>PLR25B</b>	Lockrings	20mm 25mm	100 100	
<b>PMB20W</b> <b>PMB25W</b>	<b>PMB20B</b> <b>PMB25B</b>	Male Bushes	20mm 25mm	100 100	

## PVC Conduit Accessories

NORSLO



- Norslo PVC coated accessories manufactured from PVC
- Available in black and white
- Manufactured to BS 4607-5

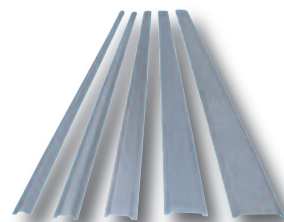
	PART NO.	COLOUR	DESCRIPTION	SIZE	PK QTY
	<b>WHITE</b>	<b>BLACK</b>	Spacer Bar Saddle	20mm	100
	<b>PSB20W</b> <b>PSB25W</b>	<b>PSB20B</b> <b>PSB25B</b>		25mm	100
	<b>PSS20W</b> <b>PSS25W</b>	<b>PSS20B</b> <b>PSS25B</b>	Snap Saddles	20mm	50
				25mm	100
	<b>PPS20W</b> <b>PPS25W</b>	<b>PPS20B</b> <b>PPS25B</b>	Plain Saddles	20mm	100
				25mm	100
	<b>PRCC20W</b> <b>PRCC25W</b>	<b>PRCC20B</b> <b>PRCC25B</b>	Round Conduit Clips	20mm	100
				25mm	100
	<b>POCC16W</b>	-	Oval Conduit Clips	16mm	100
	<b>POCC20W</b>	-		20mm	100
	<b>POCC25W</b>	-		25mm	100

- Made from high impact PVC



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>WHITE</b>	<b>BLACK</b>				
<b>HC20W</b>	<b>HC20B</b>	Heavy gauge Circular PVC Conduit Tube	20mm x 3M	90M	
<b>HC25W</b>	<b>HC25B</b>		25mm x 3M	90M	
<b>LC20</b>	-	Light gauge Circular PVC Conduit Tube	20mm x 3M	90M	
<b>LC25</b>	-		25mm x 3M	90M	
<b>OC05</b>	-	Oval PVC Conduit Tube	13mm x 3M	150M	
<b>OC06</b>			16mm x 3M	150M	
<b>OC07</b>			20mm x 3M	150M	
<b>OC10</b>			26mm x 3M	150M	
<b>CH05</b>	-	High impact PVC Channel	13mm x 2M	100M	
<b>CH10</b>			26mm x 2M	100M	
<b>CH15</b>			39mm x 2M	100M	

## Steel Channel



	PART NO.	DESCRIPTION	DIMS.	PK QTY
	<b>GC12</b>	Galvanised Steel Channel in 2M lengths	12mm	50L
	<b>GC25</b>		25mm	50L
	<b>GC37</b>		37mm	50L
	<b>GC50</b>		50mm	25L
	<b>GC63</b>		63mm	1L

# PVC Conduit Accessories

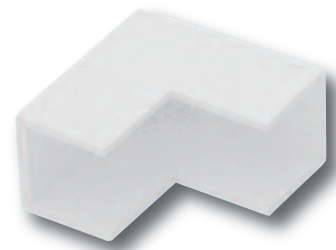
**NORSLO**


The following applies to 20CK, 25CK, 20CKG and 25CKG only -

The Norslo PVC Conduit Contractor pack is a plasticised PVC conduit with a rigid PVC reinforced spiral. A smooth inner bore for easy wire pulling. Crush resistant, returning to its original diameter.

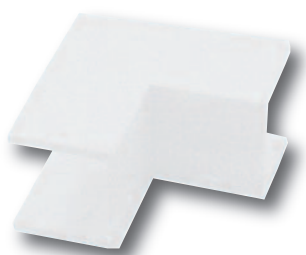
- Temp rating from -10°C to +75°C, intermittent to +85°C
- Protection rating IP55 or IEC 529
- Pack contains 10M of flexible conduit, x 10 nylon swivel fittings and x 10 nylon locknuts to fit
- Conforms to BS 4607 and BS 6099 Pt 1

	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>20BSH</b>	Heavy gauge Bending Springs (Green)	20mm	1
	<b>25BSH</b>		25mm	1
	<b>20BSL</b>	Light gauge Bending Springs (Red)	20mm	1
	<b>25BSL</b>		25mm	1
	<b>PVC/ADH</b>	PVC Adhesive	250ml	1 x 250ml
	<b>20CK</b> <b>25CK</b>	PVC Flexible Conduit Contractor Pack	Pack contains - 10M of flexible conduit x10 nylon swivel fittings x10 nylon locknuts	10M conduit
	<b>20CKG</b>	Spare glands for contractor pack	20mm	10
	<b>25CKG</b>		25mm	10



PART NO.	DESCRIPTION	DIMENSIONS	PK QTY	
NMT1 NMT2 NMT3 NMT4 NMT5	Mini Trunking High impact PVC	16mm x 16mm 16mm x 25mm 16mm x 40mm 25mm x 40mm 25mm x 50mm	75M 75M 30M 30M 30M	
SAMT1 SAMT2	Mini Trunking High impact PVC Self adhesive	16mm x 16mm 16mm x 25mm	75M 75M	
EA1 EA2	External Angle	16mm x 16mm 16mm x 25mm	10 10	
FA1 FA2	Flat Angle	16mm x 16mm 16mm x 25mm	10 10	





PART NO.	DESCRIPTION	DIMENSIONS	PK QTY	
IA1 IA2	Internal Angle	16mm x 16mm 16mm x 25mm	10 10	
FT1 FT2	Flat Tee	16mm x 16mm 16mm x 25mm	10 10	
C1 C2	Coupling	16mm x 16mm 16mm x 25mm	10 10	
SE1 SE2	Stop End	16mm x 16mm 16mm x 25mm	10 10	

- Manufactured in polypropylene
- AC2 adjustable clamps fit large power cables up to 75mm<sup>2</sup>



PART NO.	DESCRIPTION	CABLE HOLE DIA.	PK QTY
<b>NP3</b>	Cable Cleats	7.6mm	100
<b>NP4</b>		10.2mm	100
<b>NP5</b>		12.7mm	100
<b>NP6</b>		15.2mm	100
<b>NP7</b>		17.8mm	100
<b>NP8</b>		20.3mm	100
<b>NP9</b>		22.8mm	100
<b>NP10</b>		25.4mm	100
<b>NP11</b>		27.7mm	50
<b>NP12</b>		30.4mm	50
<b>NP14</b>		35.6mm	50
<b>NP16</b>		40.6mm	50
<b>NP18</b>		45.7mm	50
<b>NP20</b>		50.8mm	50
<b>AC2</b>	Adjustable Clamps	50 - 75mm	5

SIZE CHART FOR CABLE CLEATS													
Nominal Conducting Area mm <sup>2</sup>		SINGLE CORE			TWIN CORE			THREE CORE			FOUR CORE		
	Conductor  Armour	Copper wire	Aluminium wire	Aluminium strip	Copper wire	Aluminium wire	Aluminium strip	Copper wire	Aluminium wire	Aluminium strip	Copper wire	Aluminium wire	Aluminium strip
1.5					5			5			6		
2.5					6			6			6		
4					6			7			7		
6					7			8			8		
10					8			9			9		
16					9	9	8	10	9	9	11	10	9
25 Shaped					10	9	8	10	10	9	11	11	10
25 Circular					11	10	9	12	11	10	12	12	11
35 Shaped					10	10	9	11	11	10	12	12	11
35 Circular					12	11	10	14	12	11	14	14	12
50		8	7	7	11	11	10	12	12	11	14	14	12
70		9	8	8	12	11	11	14	14	12	16	16	14
95		10	9	9	14	14	12	16	16	14	18	18	16
120		11	10	9	16			18	16	16	20	20	18
150		12	11	10	18			20	18	18	AC2	20	20
185		14	12	11	20			AC2	20	18	AC2	AC2	AC2
240		14	14	12	AC2			AC2	AC2	AC2	AC2	AC2	AC2
300		16	14	14	AC2			AC2	AC2	AC2	AC2	AC2	AC2
380			16	16									
400		18			AC2			AC2					
480			18	16									
500		18											
600			18	18									
630		20											
740			20	20									
800		AC2											
960			AC2	AC2									
1000		AC2											
1200			AC2	AC2									

# Cable Gland Kits

**NORSLO**


- Conforms to BS 6121 part 1

	PART NO.	DESCRIPTION	SIZE	CONTENTS
	<b>20SBWK</b> <b>20BWK</b> <b>25BWK</b> <b>32BWK</b>	BW type Cable Gland Kit Two Part Glands (indoors)	20mm (small) 20mm 25mm 32mm	2 x glands, 2 x shrouds, 2 x tags & 2 x locknuts
	<b>40BWK</b> <b>50BWK</b> <b>63BWK</b> <b>75BWK</b>	BW type Cable Gland Kit Two Part Glands (indoors)	40mm 50mm 63mm 75mm	1 x gland, 1 x shroud, 1 x tag & 1 x locknut
	<b>20SCWK</b> <b>20CWK</b> <b>25CWK</b> <b>32CWK</b>	CW type Cable Gland Kit (outdoors)	20mm (small) 20mm 25mm 32mm	2 x glands, 2 x shrouds, 2 x tags & 2 x locknuts
	<b>40CWK</b> <b>50CWK</b> <b>63CWK</b>	CW type Cable Gland Kit (outdoors)	40mm 50mm 63mm	1 x gland, 1 x shroud, 1 x tag & 1 x locknut

- Low smoke and fume
- Conforms to BS 6121 part 1



PART NO.	DESCRIPTION	SIZE	CONTENTS	
<b>20SBWKLSF</b> <b>20BWKLSF</b> <b>25BWKLSF</b> <b>32BWKLSF</b>	BW type Cable Gland Kit (indoors)	20mm (small) 20mm 25mm 32mm	2 x glands, 2 x shrouds, 2 x tags & 2 x locknuts	
<b>40BWKLSF</b> <b>50BWKLSF</b> <b>63BWKLSF</b> <b>75BWKLSF</b>	BW type Cable Gland Kit (indoors)	40mm 50mm 63mm 75mm	1 x gland, 1 x shroud, 1 x tag & 1 x locknut	
<b>20SCWKLSF</b> <b>20CWKLSF</b> <b>25CWKLSF</b> <b>32CWKLSF</b>	CW type Cable Gland Kit (outdoors)	20mm (small) 20mm 25mm 32mm	2 x glands, 2 x shrouds, 2 x tags & 2 x locknuts	
<b>40CWKLSF</b> <b>50CWKLSF</b> <b>63CWKLSF</b> <b>75CWKLSF</b>	CW type Cable Gland Kit (outdoors)	40mm 50mm 63mm 75mm	1 x gland, 1 x shroud, 1 x tag & 1 x locknut	

# Cable Glands

**NORSLO**


- These glands are manufactured in accordance with BS 6121 pt 1.

	PART NO.	DESCRIPTION	DIMS/CLR	PK QTY
	<b>PCG20B</b> <b>PCG20G</b> <b>PCG20R</b> <b>PCG20W</b>	PVC Cable Glands 20mm IP68 rated 6-12mm cable diameter	Black Grey Red White	50
	<b>PCG25BL</b> <b>PCG25G</b> <b>PCG25R</b> <b>PCG25WH</b>	PVC Cable Glands 25mm IP68 rated 13-18 cable diameter	Black Grey Red White	50
	<b>16TRS</b> <b>20TRS</b> <b>25TRS</b>	Brass TRS Glands	16mm 20mm 25mm	100 100 50
	<b>20AG</b> <b>25AG</b>	Aluminium Cable Glands (for PVC sheathed conduit)	20mm 25mm	50 50

## Gland Selection Chart





For PVC and XLPE Armoured Cable to BS 6346 & BS 5467

Cable size mm <sup>2</sup>	No of Cores											
	1	2	3	4	5	7	10	12	19	27	37	48
1.5	-	-	-	20S	20S	20S	20	20	25	25	32	32
2.5	-	20S	20S	20S	20S	20	25	25	25	32	32	40
4	-	20S	20S	20	25	25	25	25	32	40	-	-
6	-	20	20	20	-	-	-	-	-	-	-	-
10	-	20	25	25	-	-	-	-	-	-	-	-
16	-	25	25	25	-	-	-	-	-	-	-	-
25	-	25	32	32	-	-	-	-	-	-	-	-
35	-	32	32	32	-	-	-	-	-	-	-	-
50	20	32	32	32	-	-	-	-	-	-	-	-
70	25	32	40	40	-	-	-	-	-	-	-	-
95	25	40	40	50	-	-	-	-	-	-	-	-
120	25	40	50	50	-	-	-	-	-	-	-	-
150	32	40	50	50	-	-	-	-	-	-	-	-
185	32	50	50	63	-	-	-	-	-	-	-	-
240	40	50	63	63	-	-	-	-	-	-	-	-
300	40	63	63	75	-	-	-	-	-	-	-	-
400	50	63	75	75	-	-	-	-	-	-	-	-

- PLEASE NOTE - Gland sizes recommended are for guidance only and are based on nominal dimensions of overall diameter, armoured diameter and the thickness of the cable's outer sheath.

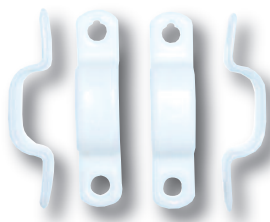
- These glands conform to BS 6121 pt 1.




PART NO.	DESCRIPTION	DIMS/CLR	PK QTY	
<b>MIG2L1.0</b> <b>MIG2L1.5</b> <b>MIG2L2.5</b> <b>MIG3L1.5</b> <b>MIG4L1.0</b> <b>MIG4L1.5</b>	Mineral Insulated Glands RGM	2L1.0 2L1.5 2L2.5 3L1.5 4L1.0 4L1.5	10 10 10 10 10 10	
<b>S215</b> <b>S225</b> <b>S315</b> <b>S415</b>	Pots & Seals RPS	2L1.5 2L2.5 3L1.5 4L1.5	10 10 10 10	
<b>ETS210</b> <b>ETS215</b> <b>ETS225</b> <b>ETS315</b> <b>ETS415</b>	Pots & Seals with Earth Tails RPSL	2L1.0 2L1.5 2L2.5 3L1.5 4L1.5	10 10 10 10 10	
<b>20BS</b> <b>20OS</b> <b>20RS</b> <b>20WS</b>	Tapered Shrouds MICC 20mm	Black Orange Red White	10 10 10 10	



# Cable Saddles



	PART NO.	DESCRIPTION	CORE SIZE	PK QTY
	RCS1	Cable Saddles	2L1.5 - 3L1.0	50
	RCS2	Red	2L2.5 - 4L1.5	50
	WCS1	Cable Saddles	2L1.5 - 3L1.0	50
	WCS2	White	2L2.5 - 4L1.5	50
	BCS1	Cable Saddles	2L1.5 - 3L1.0	50
	BCS2	Black	2L2.5 - 4L1.5	50

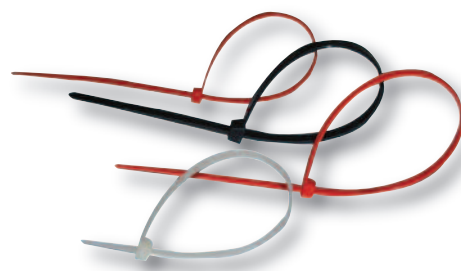


PART NO.	DESCRIPTION	CORE SIZE	PK QTY	
<b>OCC1</b>	PVC Coated Cable Clips Orange	2L1.0	50	
<b>OCC2</b>		2L1.5 / 3L1.0	50	
<b>OCC3</b>		2L2.5 / 3L1.5 / 4L1.0	50	
<b>OCC4</b>		4L1.5	50	
<b>RCC1</b>	PVC Coated Cable Clips Red	2L1.0	50	
<b>RCC2</b>		2L1.5 / 3L1.0	50	
<b>RCC3</b>		2L2.5 / 3L1.5 / 4L1.0	50	
<b>RCC4</b>		4L1.5	50	
<b>WCC1</b>	PVC Coated Cable Clips White	2L1.0	50	
<b>WCC2</b>		2L1.5 / 3L1.0	50	
<b>WCC3</b>		2L2.5 / 3L1.5 / 4L1.0	50	
<b>WCC4</b>		4L1.5	50	
<b>BCC1</b>	PVC Coated Cable Clips Black	2L1.0	50	
<b>BCC2</b>		2L1.5 / 3L1.0	50	
<b>BCC3</b>		2L2.5 / 3L1.5 / 4L1.0	50	
<b>BCC4</b>		4L1.5	50	

# Cable Clips

**NORSLO**


	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>CCF1.5G</b>	Flat Cable Clips Nylon Grey	1 - 1.5mm	1000
	<b>CCF2.5G</b>		2.5mm	1000
	<b>CCF4G</b>		4 - 6mm	1000
	<b>CCF10G</b>		10 - 16mm	1000
	<b>CCR4B</b>	Round Cable Clips Nylon Black	3 - 5mm	1000
	<b>CCR5B</b>		5 - 7mm	1000
	<b>CCR7B</b>		7 - 10mm	1000
	<b>CCR10B</b>		10 - 14mm	1000
	<b>CCR14B</b>		14 - 20mm	500
	<b>CCR4W</b>	Round Cable Clips Nylon White	3 - 5mm	1000
	<b>CCR5W</b>		5 - 7mm	1000
	<b>CCR7W</b>		7 - 10mm	1000
	<b>CCR10W</b>		10 - 14mm	1000
	<b>CCR14W</b>		14 - 20mm	500
	<b>CCR4C</b>	Round Cable Clips Nylon Clear	3 - 5mm	1000



PART NO.	PART NO.	PART NO.	DESCRIPTION	DIMS	PK QTY	
<b>BLACK</b>	<b>CLEAR</b>	<b>RED</b>				
075/22B	075/22C	075/22R		80 x 2.5mm	100	
098/25B	098/25C	098/25R		100 x 2.5mm	100	
140/36B	140/36C	140/36R		140 x 3.5mm	100	
160/45B	160/45C	160/45R		180 x 4.8mm	100	
200/28B	200/28C	200/28R		200 x 2.5mm	100	
200/48B	200/48C	200/48R		200 x 4.5mm	100	
240/78B	240/78C	240/78R		250 x 7.0mm	100	
290/48B	290/48C	290/48R		280 x 4.8mm	100	
300/07B	300/07C	-		300 x 7.0mm	100	
360/48B	360/48C	360/48R		350 x 4.8mm	100	
370/78B	370/78C	370/78R		370 x 7.0mm	100	
530/09B	-	-		530 x 9.0mm	100	
			Cable Ties Nylon			
<b>STAINLESS STEEL</b>						
200/46SS	-	-		200 x 4.6mm	100	
300/46SS	-	-		300 x 4.6mm	100	
360/46SS	-	-		360 x 4.6mm	100	
			Cable Ties Stainless Steel			

# Self Adhesive Fixing Clips & Bases

**NORSLO**


	PART NO.	DESCRIPTION	DIMS.	PK QTY
	<b>SAF0</b>	Fixing Clip with self adhesive base	Cable Dia. 3mm	100
	<b>SAF1</b>		4mm	100
	<b>SAF2</b>		8mm	100
	<b>SAF3</b>		12mm	100
	<b>SAF4</b>		16mm	100
	<b>SAFTC</b>	Cable Tie Carrier 10mm	10mm	100
	<b>19/19</b>	Self Adhesive Base - Clear 19 x 19mm	3.6mm	100
	<b>19/19B</b>	Self Adhesive Base - Black 19 x 19mm		100
	<b>27/27</b>	Self Adhesive Base - Clear 27 x 27mm	4.8mm	100
	<b>27/27B</b>	Self Adhesive Base - Black 27 x 27mm		100

Norslo's Perforated Fixing Bands has predrilled holes along the full length so it can be easily bolted or screwed down to any surface. Ideal for fixing cables, pipes etc to any surface

- Manufactured from galvanised carbon steel



PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>PFBB12</b>	Perforated Fixing Band Black Powder Coated	10M x 12mm x 0.8mm	1	
<b>PFBB17</b>	Perforated Fixing Band Black Powder Coated	10M x 17mm x 0.8mm	1	
<b>PFBG12</b>	Perforated Fixing Band Galvanised	10M x 12mm x 0.8mm	1	
<b>PFBG17</b>	Perforated Fixing Band Galvanised	10M x 17mm x 0.8mm	1	



## Warning Tape

NORSLO



	PART NO.	DESCRIPTION	DIMENSIONS
	<b>EWT</b>	Underground Warning Tape	1 x 365M reel

## Insulation/Electrical PVC Tape



- 19mm wide tape
- Available in two lengths 20M and 33M
- Conforms to BS 3924

	PART NO.	DESCRIPTION	COLOUR	PK QTY
	<b>IT1920B10</b> <b>IT1920BL10</b> <b>IT1920BN10</b> <b>IT1920GY10</b> <b>IT1920G10</b> <b>IT1920R10</b> <b>IT1920W10</b> <b>IT1920Y10</b>	Insulating Tape 19mm wide 20M length	Black Blue Brown Green/Yellow Grey Red White Yellow	10 x 20M rolls 10 x 20M rolls 10 x 20M rolls 10 x 20M rolls 10 x 20M rolls 10 x 20M rolls 10 x 20M rolls 10 x 20M rolls
	<b>IT1933B10</b> <b>IT1933BL10</b> <b>IT1933BN10</b> <b>IT1933GY10</b> <b>IT1933G10</b> <b>IT1933R10</b> <b>IT1933W10</b> <b>IT1933Y10</b>	Insulating Tape 19mm wide 33M length	Black Blue Brown Green/Yellow Grey Red White Yellow	10 x 33M rolls 10 x 33M rolls 10 x 33M rolls 10 x 33M rolls 10 x 33M rolls 10 x 33M rolls 10 x 33M rolls 10 x 33M rolls





PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>GBP16</b> <b>GBP20</b> <b>GBP25</b> <b>GBP32</b> <b>GBP38</b> <b>GBP50</b>	Blanking Plug	16mm 20mm 25mm 32mm 38mm 50mm	100 100 100 50 50 25	
<b>GO16</b> <b>GO20</b> <b>GO25</b> <b>GO32</b> <b>GO38</b> <b>GO50</b>	Open Grommet	16mm 20mm 25mm 32mm 38mm 50mm	100 100 100 50 25 25	
<b>GSBT16</b> <b>GSBT20</b> <b>GSBT25</b> <b>GSBT32</b> <b>GSBT38</b> <b>GSBT50</b>	Semi-Blind Grommet (top diaphragm)	16mm 20mm 25mm 32mm 38mm 50mm	100 100 100 50 25 25	
<b>SGB20</b> <b>SGB25</b> <b>SGB32</b>	Super (Quick-fit) Blanking Plug	20mm 25mm 32mm	100 100 50	
<b>SGO20</b> <b>SGO25</b> <b>SGO32</b>	Super (Quick-fit) Open Grommet	20mm 25mm 32mm	100 100 50	

# Grommet Strip & Bushes



A piece of grommet strip is ideal for use when protecting cables against rough metal panel cut out edges. Simply cut off the required length.

- Made from black PVC

	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>GS1</b>	Grommet Strip Black PVC	Panel Thickness 1mm - 2mm	50M Reel
	<b>GS2</b>		1.5mm - 2.8mm	50M Reel
	<b>GS3</b>		2.7mm - 3.8mm	50M Reel
	<b>GS4</b>		3.7mm - 5.2mm	25M Reel
	<b>GS5</b>		5.3mm - 6.8mm	25M Reel
	<b>B16</b>	Conduit Bushes	16mm	100
	<b>B20</b>		20mm	100
	<b>B25</b>		25mm	100

- Norslo PVC sleeving is available in a selection of colours to suit any installation
- Made from PVC



PART NO.	DESCRIPTION	SIZE	
<b>BLS3</b> <b>BLS4</b> <b>BLS5</b> <b>BLS6</b> <b>BLS8</b> <b>BLS10</b> <b>BLS12</b> <b>BLS16</b>	PVC Sleeving 100M Hank Blue	3mm 4mm 5mm 6mm 8mm 10mm 12mm 16mm	
<b>BNS3</b> <b>BNS4</b> <b>BNS5</b> <b>BNS6</b> <b>BNS8</b> <b>BNS10</b> <b>BNS16</b>	PVC Sleeving 100M Hank Brown	3mm 4mm 5mm 6mm 8mm 10mm 16mm	
<b>BS2</b> <b>BS3</b> <b>BS4</b> <b>BS5</b> <b>BS6</b> <b>BS8</b> <b>BS10</b>	PVC Sleeving 100M Hank Black	2mm 3mm 4mm 5mm 6mm 8mm 10mm	

# PVC Sleeving - Hanks

**NORSLO**


- Norslo PVC sleeving is available in a selection of colours to suit any installation
- Made from PVC

	PART NO.	DESCRIPTION	SIZE
	<b>ES1</b>	PVC Sleeving 100M Hank Green/Yellow	1mm - 1.5mm
	<b>ES2</b>		2mm
	<b>ES3</b>		3mm
	<b>ES4</b>		4mm
	<b>ES5</b>		5mm
	<b>ES6</b>		6mm
	<b>ES8</b>		8mm
	<b>ES10</b>		10mm
	<b>ES12</b>		12mm
	<b>ES16</b>		16mm
	<b>GRS3</b>	PVC Sleeving 100M Hank Grey	3mm
	<b>GRS4</b>		4mm
	<b>GRS6</b>		6mm
	<b>GRS10</b>		10mm
	<b>RS2</b>	PVC Sleeving 100M Hank Red	2mm
	<b>RS3</b>		3mm
	<b>RS4</b>		4mm
	<b>RS5</b>		5mm
	<b>RS6</b>		6mm
	<b>RS8</b>		8mm
	<b>RS10</b>		10mm
	<b>RS12</b>		12mm

- Norslo PVC sleeving is available in a selection of colours to suit any installation
- Made from PVC



PART NO.	DESCRIPTION	SIZE	
<b>BLS3-R</b> <b>BLS4-R</b>	PVC Sleeving 100M Reel Blue	3mm 4mm	
<b>BNS3-R</b> <b>BNS4-R</b>	PVC Sleeving 100M Reel Brown	3mm 4mm	
<b>ES2-R</b> <b>ES3-R</b> <b>ES4-R</b>	PVC Sleeving 100M Reel Green/Yellow	2mm 3mm 4mm	
<b>GRS3-R</b> <b>GRS4-R</b>	PVC Sleeving 100M Reel Grey	3mm 4mm	



# Malleable Conduit Accessories **NORSLO**



- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b>	<b>GALV</b>	Terminal Box	20mm	10
	<b>20B1</b> <b>25B1</b>	<b>20G1</b> <b>25G1</b>		25mm	10
	<b>20B2</b> <b>25B2</b>	<b>20G2</b> <b>25G2</b>	Through Box	20mm	10
				25mm	10
	<b>20B3</b> <b>25B3</b>	<b>20G3</b> <b>25G3</b>	Tee Box	20mm	10
				25mm	10
	<b>20B4</b> <b>25B4</b>	<b>20G4</b> <b>25G4</b>	Intersection Box	20mm	10
				25mm	10

# NORSLO Malleable Conduit Accessories

- Available in galvanised steel or black enamel
- Conforms to BS EN 50086



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BLACK</b> <b>20B5</b> <b>25B5</b>	<b>GALV</b> <b>20G5</b> <b>25G5</b>	Angle Box	20mm 25mm	10 10	
-	<b>20GH</b>	H Box	20mm	10	
<b>20BU</b> <b>25BU</b>	<b>20GU</b> <b>25GU</b>	U Box	20mm 25mm	10 10	
<b>20BY</b> <b>25BY</b>	<b>20GY</b> <b>25GY</b>	Y Box	20mm 25mm	10 10	

# Malleable Conduit Accessories



**NORSLO**


- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b> <b>B20B1E</b>	<b>GALV</b> <b>B20G1E</b>	Terminal Extension Box	20mm	10
	<b>B20B2E</b>	<b>B20G2E</b>	Through Extension Box	20mm	10
	-	<b>B20G3E</b>	Tee Extension Box	20mm	10
	-	<b>B20G5E</b>	Angle Extension Box	20mm	10

- Available in galvanised steel or black enamel
- Conforms to BS EN 50086



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BLACK</b> <b>B20BT3</b>	<b>GALV</b> <b>B20GT3</b>	Tee Tangent Box	20mm	10	
<b>B20BT5</b>	<b>B20GT5</b>	Angle Tangent Box	20mm	10	
<b>B20BBO</b>	<b>B20GBO</b>	Back Outlet Box	20mm	10	
<b>B20B3BO</b>	<b>B20G3BO</b>	Tee Back Outlet Box	20mm	10	

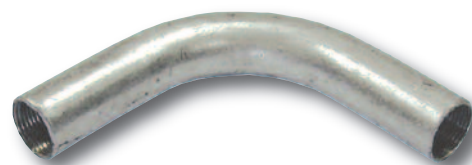
# Malleable Conduit Accessories

**NORSLO**


- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b> <b>B20B1BO</b>	<b>GALV</b> <b>B20G1BO</b>	Terminal Back Outlet box	20mm	10
	<b>B20B2BO</b>	<b>B20G2BO</b>	Through Back Outlet Box	20mm	10
	<b>1BLB</b> <b>2BLB</b> <b>3BLB</b> <b>4BLB</b>	<b>1GLB</b> <b>2GLB</b> <b>3GLB</b> <b>4GLB</b>	Loop-In Box 20mm	1 hole 2 hole 3 hole 4 hole	10 10 10 20
	<b>10BER</b> <b>13BER</b> <b>16BER</b> <b>20BER</b> <b>25BER</b> <b>32BER</b> <b>40BER</b> <b>50BER</b>	<b>10GER</b> <b>13GER</b> <b>16GER</b> <b>20GER</b> <b>25GER</b> <b>32GER</b> <b>40GER</b> <b>50GER</b>	Extension Rings	10mm 13mm 16mm 20mm 25mm 32mm 40mm 50mm	50 50 50 20 20 20 20 10

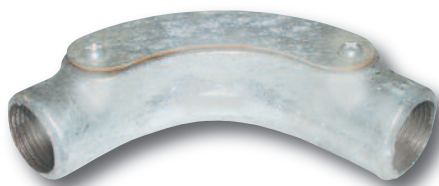
- Available in galvanised steel or black enamel
- Conforms to BS EN 50086



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BLACK</b> -	<b>GALV</b> <b>20MGA</b>	Adaptor 20mm Male x 3/4" Female	20mm	100	
-	<b>34MGA</b>	Adaptor 3/4" Male x 20mm Female	20mm	25	
<b>2016BR</b> <b>2520BR</b> <b>3220BR</b> <b>3225BR</b> - - - - - -	<b>2016GR</b> <b>2520GR</b> <b>3220GR</b> <b>3225GR</b> <b>420GR</b> <b>425GR</b> <b>432GR</b> <b>525GR</b> <b>532GR</b> <b>54GR</b>	Reducers	20 - 16mm 25 - 20mm 32 - 20mm 32 - 25mm 1.5" - 20mm 1.5" - 25mm 1.5" - 32mm 2" - 25mm 2" - 32mm 2" - 1.5"	100 100 25 25 20 20 20 10 10 10	
<b>20BSB</b> <b>25BSB</b>	<b>20GSB</b> <b>25GSB</b>	Solid Bend	20mm 25mm	1 1	



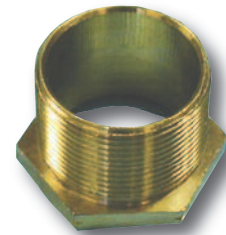
# Malleable Conduit Accessories


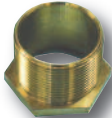
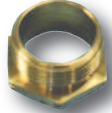
**NORSLO**


- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b>	<b>GALV</b>	Inspection Bends	20mm	1
	<b>20BIB</b> <b>25BIB</b>	<b>20GIB</b> <b>25GIB</b>		25mm	1
	<b>20BSE</b> <b>25BSE</b>	<b>20GSE</b> <b>25GSE</b>	Solid Elbows	20mm	20
				25mm	10
	<b>20BIE</b> <b>25BIE</b>	<b>20GIE</b> <b>25GIE</b>	Inspection Elbows	20mm	20
				25mm	10
	-	<b>20GST</b>	Solid Tees	20mm	20
	<b>20BIT</b> <b>25BIT</b>	<b>20GIT</b> <b>25GIT</b>	Inspection Tees	20mm	20
				25mm	10

- Conforms to BS EN 50086



PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BRASS</b>				
<b>16FBB</b>	Female Brass Bushes	16mm	100	
<b>20FBB</b>		20mm	100	
<b>25FBB</b>		25mm	100	
<b>32FBB</b>		32mm	100	
<b>4FBB</b>		1.5"	50	
<b>5FBB</b>		2"	25	
<b>20MBBL</b>	Male Long Brass Bushes	20mm	100	
<b>25MBBL</b>		25mm	100	
<b>32MBBL</b>		32mm	50	
<b>4MBBL</b>		1.5"	20	
<b>5MBBL</b>		2"	10	
<b>16MBBS</b>	Male Short Brass Bushes	16mm	100	
<b>20MBBS</b>		20mm	100	
<b>25MBBS</b>		25mm	100	
<b>32MBBS</b>		32mm	100	
<b>4MBBS</b>		1.5"	50	
<b>5MBBS</b>		2"	25	

## Malleable Conduit Accessories

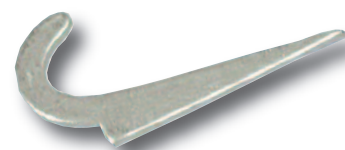
NORSLO



- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b> <b>20BBS</b>	<b>GALV</b> <b>20GBS</b>	Ball & Socket	20mm	20
	<b>BLPC</b>	<b>GLPC</b>	Recessed Covers Light Gauge	Suitable for 20mm & 25mm	100
	<b>BLPCF</b>	<b>GLPCF</b>	Flat Covers Light Gauge	Suitable for 20mm & 25mm	100
	- <b>20BDC</b>	<b>20GDC</b> <b>25GDCM</b>	Dome Covers	20mm 25mm	50 20
	<b>BHP</b>	<b>GHP</b>	Hook Plates	Suitable for 20mm & 25mm	25
	<b>CRG</b>	-	Cover Gasket Circular Rubber	Suitable for 20mm & 25mm	100

- Available in galvanised steel or black enamel
- Conforms to BS EN 50086



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BLACK</b>	<b>GALV</b>				
<b>20BC</b>	<b>20GC</b>	Plain Couplers	20mm	100	
<b>25BC</b>	<b>25GC</b>		25mm	50	
<b>32BC</b>	<b>32GC</b>		32mm	40	
<b>4BC</b>	<b>4GC</b>		1.5"	30	
<b>5BC</b>	<b>5GC</b>		2"	10	
-	<b>20GEC</b>	Earth Coupler	20mm	50	
<b>20BFC</b>	<b>20GFC</b>	Flanged Couplers (malleable)	20mm	50	
<b>25BFC</b>	<b>25GFC</b>		25mm	50	
-	<b>20GFCS</b>	Flanged Couplers (Steel)	20mm	25	
-	<b>25GFCS</b>		25mm	25	
<b>20BFCR</b>	<b>20GFCR</b>	Flat Crampets	20mm	100	
<b>25BFCR</b>	<b>25GFCR</b>		25mm	100	

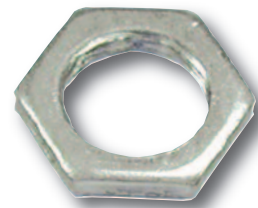
## Malleable Conduit Accessories

NORSLO



- Available in galvanised steel or black enamel
- Conforms to BS EN 50086

	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BLACK</b>	<b>BRASS</b>			
	-	<b>16TRS</b>	Glands	16mm	100
	-	<b>20TRS</b>	Brass TRS stuffing	20mm	100
	-	<b>25TRS</b>		25mm	50
	-	<b>GALV</b> <b>SUSCLIP</b>	Light Suspension Clip		100
	<b>20BMH</b>	<b>20GMH</b>	Male Hooks (Malleable)	20mm	50
	-	<b>20GMHNM</b>	Male Hooks (Non-Malleable)	20mm	50
	<b>BJC</b>	<b>GJC</b>	Jack Chain 10M Hank Max working load 7.5Kg	No 10	1 x 10M Hank
	<b>8BJC</b>	<b>8GJC</b>	Jack Chain 10M Hank Max working load 15Kg	No 8	1 x 10M Hank
	<b>SBJC</b>	<b>SGJC</b>	Jack Chain 10M Hank Max working load 40Kg	No 10	1 x 10M Hank



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
BRASS					
20BRLN	-	Brass Locknuts	20mm	100	
25BRLN	-		25mm	100	
32BRLN	-		32mm	50	
GALV					
20GHN	-	Steel Heavy Gauge Locknuts	20mm	100	
25GHN	-		25mm	100	
BLACK	GALV	Steel Light Gauge Locknuts	16mm	100	
16BLN	16GLN		20mm	100	
20BLN	20GLN		25mm	100	
25BLN	25GLN		32mm	100	
32BLN	32GLN		40mm	50	
40BLN	40GLN		50mm	50	
-	50GLN		1.5"	50	
4BLN	4GLN		2"	50	
5BLN	5GLN				
BZP					
20SCW	-	Serrated Washer Bright Zinc Plated	20mm	250	
25SCW	-		25mm	50	
BZP					
M1025PW	-	Penny Washers zinc plated	M10 x 25mm	100	
M1030PW	-		M10 x 30mm	100	
M620PW	-		M6 x 20mm	100	
M625PW	-		M6 x 25mm	100	
M820PW	-		M8 x 20mm	100	
M825PW	-		M8 x 25mm	100	

BZP = bright zinc plated SC = self coloured



## Malleable Conduit Accessories

NORSLO



	PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>BZP</b>	<b>SC</b>	Milled Edge Lockrings		
	16PME	16SCME		16mm	100
	20PME	20SCME		20mm	100
	25PME	25SCME		25mm	100
	32PME	32SCME		32mm	100
	4PME	4SCME		1.5"	100
	5PME	5SCME		2"	50
	<b>BRASS</b>		Slotted Plugs Brass		
	20BRSP	-		20mm	100
	25BRSP	-		25mm	100
	<b>BZP</b>	<b>SC</b>	Nipples		
	20PN	20SCN		20mm	100
	25PN	25SCN		25mm	100
	-	32SCN		32mm	50
	<b>BLACK</b>	<b>GALV</b>	Hexagonal Plugs		
	20BHP	-		20mm	100
	-	20GHP		20mm	50
	-	25GHP		25mm	25



PART NO.	PART NO.	DESCRIPTION	SIZE	PK QTY	
<b>BLACK</b>	<b>GALV</b>				
<b>20BPS</b>	<b>20GPS</b>	Plain Saddles (Pressed Steel)	20mm	100	
<b>25BPS</b>	<b>25GPS</b>		25mm	100	
<b>-</b>	<b>32GPS</b>		32mm	100	
<b>20BSBS</b>	<b>20GSBS</b>	Spacer Bar Saddles (Pressed Steel)	20mm	100	
<b>25BSBS</b>	<b>25GSBS</b>		25mm	100	
<b>32BSBS</b>	<b>32GSBS</b>		32mm	50	
<b>20BDS</b>	<b>20GDS</b>	Distance Saddles (Malleable)	20mm	50	
<b>25BDS</b>	<b>25GDS</b>		25mm	50	
<b>32BDS</b>	<b>32GDS</b>		32mm	25	
<b>20BHS</b>	<b>-</b>	Hospital Saddles (Malleable)	20mm	50	
<b>25BHS</b>	<b>-</b>		25mm	50	
<b>-</b>	<b>20GHS</b>		20mm	25	
<b>-</b>	<b>25GHS</b>		25mm	25	

# Spring / Channel Nuts

**NORSLO**


- Made from plated mild steel

	PART NO.	DESCRIPTION	SIZE	PK QTY
	<b>ZM6N</b>	Spring Nuts / Channel Nuts 'Zebedees' No Springs	6mm	100
	<b>ZM8N</b>		8mm	100
	<b>ZM10N</b>		10mm	100
	<b>ZM12N</b>		12mm	100
	<b>ZM6S</b>	Spring Nuts / Channel Nuts 'Zebedees' Short Springs	6mm	100
	<b>ZM8S</b>		8mm	100
	<b>ZM10S</b>		10mm	100
	<b>ZM12S</b>		12mm	100
	<b>ZM6L</b>	Spring Nuts / Channel Nuts 'Zebedees' Long Springs	6mm	100
	<b>ZM8L</b>		8mm	100
	<b>ZM10L</b>		10mm	100
	<b>ZM12L</b>		12mm	100

- With stepped 23mm cable grommets
- Medium heat resistant polymer 75°C
- Conforms to IEC 60670-1, IEC 60670-22

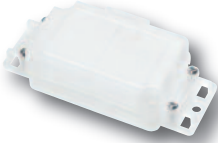



PART NO.	DESCRIPTION	DIMENSIONS	PK QTY	
<b>PJ6535K</b> <b>PJ8040K</b>	Circular Plastic Junction Box with knockouts & press on lid IP44 Weatherproof rating	Ø 65mm x Depth 35mm Ø 80mm x Depth 40mm	5 5	
<b>PJ884K</b>	Square Plastic Junction Box with knockouts & press on lid IP44 Weatherproof rating	L80 x H80 x D40mm	5	
<b>PJ10105K</b> <b>PJ1285K</b> <b>PJ15117K</b> <b>PJ19147K</b>	Plastic Junction Box with knockouts & screw on lid IP44 Weatherproof rating	L100 x H100 x D50mm L120 x H80 x D50mm L150 x H110 x D70mm L190 x H140 x D70mm	1 1 1 1	
<b>PJ10105P</b> <b>PJ1285P</b> <b>PJ15117P</b> <b>PJ19147P</b> <b>PJ24199P</b> <b>PJ302212P</b> <b>PJ383012P</b> <b>PJ463812P</b>	Plastic Junction Box with smooth walls & screw on lid IP56 Weatherproof rating	L100 x H100 x D50mm L120 x H80 x D50mm L150 x H110 x D70mm L190 x H140 x D70mm L240 x H190 x D90mm L300 x H220 x D120mm L380 x H300 x D120mm L460 x H380 x D120mm	1 1 1 1 1 1 1 1	

# Connection Boxes



- For 2A - 30A terminal strips
- Complete with fixing screws
- External (visible) fixing points for screws or cable ties (A type)
- Reversible cable clamps for wide range of cable sizes (A type)
- Cable clamps external to enclosure (A type)
- One piece base / lid, snap close / quick release
- Additional / optional security screws
- Registered Design
- IP20 rated
- Conforms to cable retention and glow wire EN 60598-1 and BS 4533-1990

	PART NO.	DESCRIPTION	OVERALL DIMENSIONS	PK QTY
	CHOC30A	Connection Box with cable clamps	H28 x W110 x D49mm (Including clamps)	50
	CHOC30E	Connection Box Economy (without cable clamps)	H27 x W77 x D49mm	50

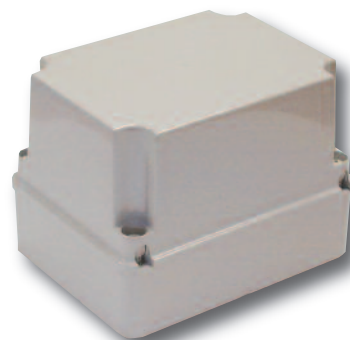


CHOC30E



CHOC30A

- Deep screw on lid & smooth walls
- IP56 rated
- Grey lid and body



PART NO.	DESCRIPTION	DIMENSIONS	
<b>PJ101012P</b>	PVC Enclosure with deep screw on lid & smooth walls	L100 x H100 x D120mm	
<b>PJ12812P</b>		L120 x H80 x D120mm	
<b>PJ151114P</b>	PVC Enclosure with deep screw on lid & smooth walls	L150 x H110 x D140mm	
<b>PJ191414P</b>	PVC Enclosure with deep screw on lid & smooth walls	L190 x H140 x D140mm	
<b>PJ241916P</b>		L240 x H190 x D160mm	
<b>PJ302218P</b>	PVC Enclosure with deep screw on lid & smooth walls	L300 x H220 x D180mm	
<b>PJ383018P</b>		L380 x H300 x D180mm	
<b>PJ463618P</b>		L460 x H360 x D180mm	



# Installation Boxes / Pattresses

**NORSLO**


Suitable for surface mount applications

- Square corners
- Made from urea

	PART NO.	DESCRIPTION	DIMENSIONS
	<b>GB2628</b>	1 Gang, 16mm deep	ten at 13 x 13mm one at 25 x 20mm
	<b>GB2627</b>	1 Gang, 32mm deep	ten at 13 x 10mm one at 25 x 20mm
	<b>GB2667</b>	1 Gang, 45mm deep c/w earth terminal	three at 13 x 10mm two at 25 x 20mm
	<b>GB2629</b>	2 Gang, 32mm deep	eleven at 13 x 13mm one at 25 x 20mm
	<b>GB2592</b>	1 to 2 Gang Converter Converts a single gang pattress to a double gang	N/A

- Suitable for use in cavity walls 16 - 30mm deep
- Made from polycarbonate

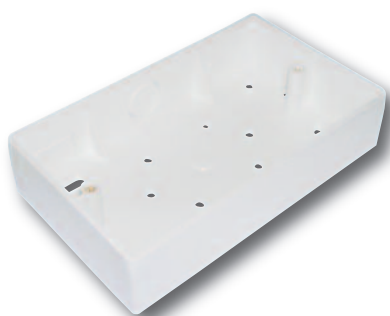


PART NO.	DESCRIPTION	MAX BOARD THICKNESS	K/O* DIMS	K/O* QTY	PK QTY	
<b>DL1</b>	1 Gang 33mm deep	16mm	25 x 20mm	2	10	
<b>DL2</b>	2 Gang 33mm deep	16mm	25 x 15mm	2	10	
<b>DL147</b>	1 Gang 47mm deep	30mm	25 x 15mm 25mm dia 20mm dia	2 1 1	20	
<b>DL247</b>	2 Gang 47mm deep	30mm	25 x 15mm 25mm dia 20mm dia	2 1 1	10	
<b>DLC</b>	1 Gang Circular 32mm deep 59mm i.d 62mm o.d	20mm	20mm dia	2	10	
<b>DLD</b>	Dual Box 34mm deep	20mm	25 x 15mm 25mm dia	6 2	10	

\* K/O = Knock outs



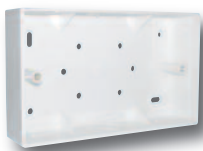
# Surface Boxes

# NORSLO



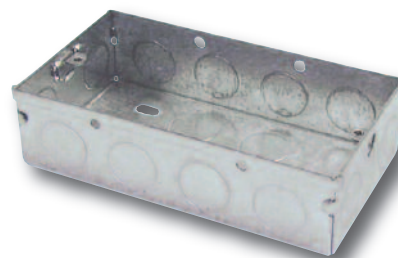
Suitable for surface mount applications

- Round or square corners
- Made from polycarbonate

	PART NO.	DESCRIPTION	K/O* DIMS	K/O* QTY	PK QTY
	<b>RC1</b>	1 Gang, 32mm deep Round corners	25 x 15mm 20mm dia	1 1	20
	<b>RC2</b>	2 Gang, 32mm deep Round corners	25 x 15mm 20mm dia	3 3	10
	<b>SC1</b>	1 Gang, 32mm deep Square corners	25 x 15mm 20mm dia	1 1	20
	<b>SC2</b>	2 Gang, 32mm deep Square corners	25 x 15mm 20mm dia	3 1	10

\* K/O = Knock outs

- Suitable for use with flush mounted accessories
- Made from galvanised mild steel sheet
- Conforms to BS 4662



PART NO.	DESCRIPTION	GANG	DEPTH	KNOCKOUTS	PK QTY	
<b>116</b>	Switch & Socket Boxes	1 gang	16mm	1 x 20 x 8mm & 3 x 25 x 12mm	20	
<b>125</b>		1 gang	25mm	12 x 20mm	10	
<b>135</b>		1 gang	35mm	12 x 12mm	10	
<b>147</b>		1 gang	47mm	8 x 20mm & 3 x 25mm	5	
<b>225</b>		2 gang	25mm	16 x 20mm	5	
<b>235</b>		2 gang	35mm	13 x 20mm & 3 x 25mm	5	
<b>247</b>	Shaver Box	2 gang	47mm	10 x 20mm & 6 x 25mm	5	
<b>DB</b>	Dual Box	2 gang	35mm	16 x 20mm	5	
<b>DB25</b>	Dual Box	2 gang	25mm	16 x 20mm	5	
<b>ARCH</b>	Architrave	-	25mm	3 x 16mm	20	
<b>116EB</b>	Extension Boxes	1 gang	16mm	2 x 25 x 10mm & 1 x 20 x 8mm	20	
<b>125EB</b>		1 gang	25mm	8 x 20mm	10	
<b>135EB</b>		1 gang	35mm	8 x 20mm	10	
<b>216E</b>		2 gang	16mm	6 x 25 x 10mm	20	
<b>225EB</b>		2 gang	25mm	12 x 20mm	5	
<b>235EB</b>		2 gang	35mm	9 x 20mm & 3 x 25mm	5	

# Adaptable Boxes

# NORSLO



- Available in galvanised steel or black enamel

	PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY
	<b>BLACK</b> <b>3311/2BK</b> <b>3311/2BP</b>	<b>GALV</b> <b>3311/2GK</b> <b>3311/2GP</b>	3x3x1.5" / 75x75x38mm	KO	10
				Plain	10
	<b>332BK</b> <b>332BP</b>	<b>332GK</b> <b>332GP</b>	3x3x2" / 75x75x50mm	KO	10
				Plain	10
	<b>333BK</b> <b>333BP</b>	<b>333GK</b> <b>333GP</b>	3x3x3" / 75x75x75mm	KO	5
				Plain	5
	<b>432BK</b> <b>432BP</b>	<b>432GK</b> <b>432GP</b>	4x3x2" / 100x75x50mm	KO	5
				Plain	5
	<b>4411/2BK</b> <b>4411/2BP</b>	<b>4411/2GK</b> <b>4411/2GP</b>	4x4x1.5" / 100x100x38mm	KO	5
				Plain	5
	<b>442BK</b> <b>442BP</b>	<b>442GK</b> <b>442GP</b>	4x4x2" / 100x100x50mm	KO	5
				Plain	5
	<b>443BK</b> <b>443BP</b>	<b>443GK</b> <b>443GP</b>	4x4x3" / 100x100x75mm	KO	5
				Plain	5

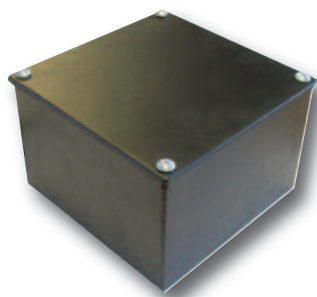
- Available in galvanised steel or black enamel



PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY	
<b>BLACK</b> <b>444BK</b> <b>444BP</b>	<b>GALV</b> <b>444GK</b> <b>444GP</b>	4x4x4" / 100x100x100mm	KO Plain	5 5	
<b>632BK</b> <b>632BP</b>	<b>632GK</b> <b>632GP</b>	6x3x2" / 150x75x50mm	KO Plain	5 5	
<b>633BK</b> <b>633BP</b>	<b>633GK</b> <b>633GP</b>	6x3x3" / 150x75x75mm	KO Plain	5 5	
<b>642BK</b> <b>642BP</b>	<b>642GK</b> <b>642GP</b>	6x4x2" / 150x100x50mm	KO Plain	5 5	
<b>643BK</b> <b>643BP</b>	<b>643GK</b> <b>643GP</b>	6x4x3" / 150x100x75mm	KO Plain	5 5	
<b>644BK</b> -	<b>644GK</b> <b>644GP</b>	6x4x4" / 150x100x100mm	KO Plain	2 2	
<b>6611/2BK</b> <b>6611/2BP</b>	<b>6611/2GK</b> <b>6611/2GP</b>	6x6x1.5" / 150x150x38mm	KO Plain	5 5	

# Adaptable Boxes

# NORSLO



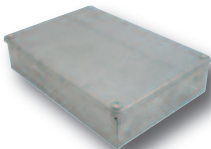

- Available in galvanised steel or black enamel

	PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY
	<b>BLACK</b> <b>662BK</b> <b>662BP</b>	<b>GALV</b> <b>662GK</b> <b>662GP</b>	6x6x2" / 150x150x50mm	KO Plain	6 6
	<b>663BK</b> <b>663BP</b>	<b>663GK</b> <b>663GP</b>	6x6x3" / 150x150x75mm	KO Plain	5 5
	<b>664BK</b> <b>664BP</b>	<b>664GK</b> <b>664GP</b>	6x6x4" / 150x150x100mm	KO Plain	<b>BLK x 2</b> <b>GALV x 3</b>  <b>BLK x 2</b> <b>GALV x 3</b>
	<b>666BK</b> <b>666BP</b>	<b>666GK</b> <b>666GP</b>	6x6x6" / 150x150x150mm	KO Plain	2 2
	- -	<b>932GK</b> <b>932GP</b>	9x3x2" / 225x75x50mm	KO Plain	5 5
	- -	<b>942GK</b> <b>942GP</b>	9x4x2" / 225x100x50mm	KO Plain	5 1
	- <b>943BP</b>	<b>943GK</b> <b>943GP</b>	9x4x3" / 225x100x75mm	KO Plain	1 1



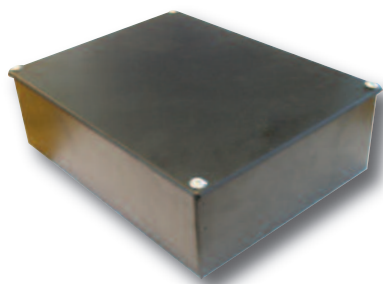
- Available in galvanised steel or black enamel



PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY	
<b>BLACK</b> <b>962BK</b> <b>962BP</b>	<b>GALV</b> <b>962GK</b> <b>962GP</b>	9x6x2" / 225x150x50mm	KO Plain	5 5	
<b>963BK</b> <b>963BP</b>	<b>963GK</b> <b>963GP</b>	9x6x3" / 225x150x75mm	KO Plain	5 5	
<b>964BK</b> <b>964BP</b>	<b>964GK</b> <b>964GP</b>	9x6x4" / 225x150x100mm	KO Plain	2 2	
<b>992BK</b> <b>992BP</b>	<b>992GK</b> <b>992GP</b>	9x9x2" / 225x225x50mm	KO Plain	2 2	
<b>993BK</b> <b>993BP</b>	<b>993GK</b> <b>993GP</b>	9x9x3" / 225x225x75mm	KO Plain	2 2	
<b>994BK</b> <b>994BP</b>	<b>994GK</b> <b>994GP</b>	9x9x4" / 225x225x100mm	KO Plain	2 2	
<b>996BK</b> <b>996BP</b>	<b>996GK</b> <b>996GP</b>	9x9x6" / 225x225x150mm	KO Plain	1 1	

# Adaptable Boxes

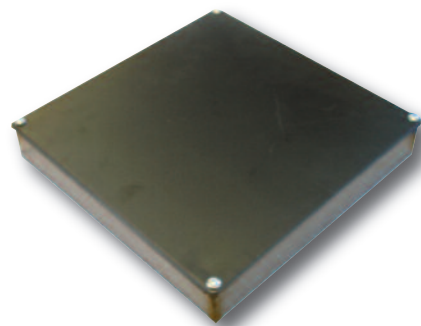
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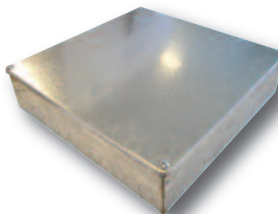
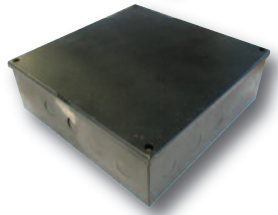


- Available in galvanised steel or black enamel

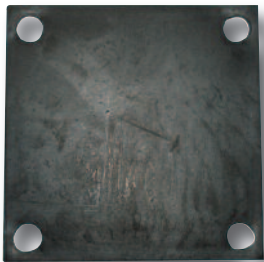
	PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY
	<b>BLACK</b> <b>1262BK</b> -	<b>GALV</b> <b>1262GK</b> <b>1262GP</b>	12x6x2" / 300x150x50mm	KO Plain	1 1
	<b>1263BK</b> <b>1263BP</b>	<b>1263GK</b> <b>1263GP</b>	12x6x3" / 300x150x75mm	KO Plain	1 1
	<b>1264BK</b> -	<b>1264GK</b> <b>1264GP</b>	12x6x4" / 300x150x100mm	KO Plain	1 1
	<b>1293BK</b> -	<b>1293GK</b> <b>1293GP</b>	12x9x3" / 300x225x75mm	KO Plain	1 1
	<b>1294BK</b> -	<b>1294GK</b> <b>1294GP</b>	12x9x4" / 300x225x100mm	KO Plain	1 1
	<b>1296BK</b> <b>1296BP</b>	<b>1296GK</b> <b>1296GP</b>	12x9x6" / 300x225x150mm	KO Plain	1 1
	<b>12122BK</b> <b>12122BP</b>	<b>12122GK</b> <b>12122GP</b>	12x12x2" / 300x300x50mm	KO Plain	1 1

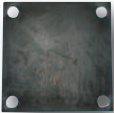


- Available in galvanised steel or black enamel



PART NO.	PART NO.	DESCRIPTION	KO/PLAIN	PK QTY	
<b>BLACK</b> <b>12123BK</b> <b>12123BP</b>	<b>GALV</b> <b>12123GK</b> <b>12123GP</b>	12x12x3" / 300x300x50mm	KO Plain	1 1	
<b>12124BK</b> <b>12124BP</b>	<b>12124GK</b> <b>12124GP</b>	12x12x4" / 300x300x100mm	KO Plain	1 1	
<b>12126BK</b> <b>12126BP</b>	<b>12126GK</b> <b>12126GP</b>	12x12x6" / 300x300x150mm	KO Plain	1 1	

# Rubber Gaskets



	PART NO.	DESCRIPTION	DIMENSIONS	PK QTY
	33RG	Rubber Gasket	3 x 3" / 75 x 75mm	10
	44RG	Rubber Gasket	4 x 4" / 100 x 100mm	10
	66RG	Rubber Gasket	6 x 6" / 150 x 150mm	10

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Fixings, Accessories,  
Tools & Consumables

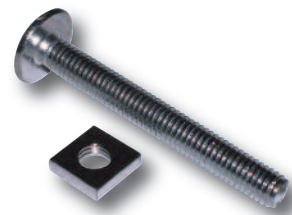


# Wall & Ceiling Fixings

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	PART NO.	DESCRIPTION	INFO	PK QTY
	51AP1	Expansion Plugs Plastic	Yellow	1000
	51AP2		Red	1000
	51AP3		Brown	1000
	SD100N	Cavity Wall Fixings Complete with screws	Nylon	100
	SD100		Zinc	100
	CW30	Catenary Wire 3mm 600Kg breaking strain	30M	1
	CW50		50M	1
	CW100		100M	1
	CWN	Nylon Cable Suspender	-	1
	CWT	4" Strainer / Tensioner		1
	WRP	Ring Plate		1
	WHP	Hook Plate		1
	CWE	Eye		25
	CWG	Grip		1
	GA3	Gripper		10
	CWK30	Catenary Wire Kit Includes - 3mm x 30M wire, 4 x CWG, 2 x CWE, 1 x CWT, 1 x WRP and 1 x WHP	-	1



PART NO.	DESCRIPTION	FINISH	DIMS	PK QTY	
<b>RB12</b> <b>RB20</b> <b>RB25</b> <b>RB35</b> <b>RB50</b>	Roofing Nuts & Bolts BZP M6	Bright Zinc Plated	12mm 20mm 25mm 35mm 50mm	200 200 200 200 200	
<b>3.5X35B</b> <b>3.5X50B</b> <b>3.5X16NP</b> <b>3.5X25NP</b> <b>3.5X35NP</b> <b>3.5X50NP</b> <b>3.5X60NP</b> <b>3.5X75NP</b>	Switch & Socket Screws Raised countersunk 3.5mm	Brass Brass Nickel Plated Nickel Plated Nickel Plated Nickel Plated Nickel Plated Nickel Plated	35mm 50mm 16mm 25mm 35mm 50mm 60mm 75mm	100 100 100 100 100 100 100 100	
<b>4X6</b> <b>4X8</b> <b>4X10</b> <b>4X12</b> <b>4X16</b> <b>4X20</b> <b>4X25</b> <b>4X35</b> <b>4X40</b> <b>4X50</b>	Panhead Screws Brass 4mm	Brass	6mm 8mm 10mm 12mm 16mm 20mm 25mm 35mm 40mm 50mm	1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	



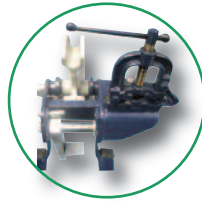
# Nuts, Bolts & Screws

NORSLO



	PART NO.	DESCRIPTION	FINISH	DIMS	PK QTY
	<b>2BAN</b>	Full Nuts Brass	Brass	2BA	500
	<b>3.5N</b>			3.5mm	500
	<b>4N</b>			4mm	500
	<b>2BAW</b> <b>4W</b>	Washers Brass	Brass	2BA 4mm	500 500
	<b>3/4X8PCT</b> <b>1X8PCT</b> <b>1X10PCT</b> <b>1 1/4X8PCT</b> <b>1 1/4X10PCT</b> <b>1 1/2X8PCT</b> <b>1 1/2X10PCT</b> <b>2X8PCT</b>	Pozi-Drive Woodscrews BZP	Bright Zinc Plated	3/4" x 8 1" x 8 1" x 10 1 1/4" x 8 1 1/4" x 10 1 1/2" x 8 1 1/2" x 10 2" x 8	200 200 200 200 200 200 200 200
	<b>CAP25</b>	Capping Nail & Washer	Bright Zinc Plated		1000

- Suitable for bending 20 - 25mm steel conduit
- Supplied with a pipe vice





PART NO.	DESCRIPTION	PK QTY	
<b>GCPB</b>	Conduit Pipe Bender Bends steel pipe 20 - 25mm Dia.	1	
<b>GCPB20F</b> <b>GCPB25F</b>	Spare Former 20mm Spare Former 25mm	1 1	
<b>GCPBVICE</b>	Spare Pipe Vice	1	
<b>GCPBROLL</b>	Spare Grooved Roller	1	
<b>GCPBSTOP</b>	Spare Stop Fitting	1	
<b>GCPBCPIN</b>	Spare Centre Pin	1	
<b>GCPBLPIN</b>	Spare Lock Pin	1	
<b>GCPBSPRING</b>	Spare Spring Pin Clip	1	

# Stocks, Dies & Guides

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- Used to thread conduit pipe

	PART NO.	DESCRIPTION	INFO	PK QTY
	<b>BST</b> <b>BSET</b>	B Type Stock only B Type Set	Set contents - Stock 20mm Die & Guide 25mm Die & Guide	1 1
	<b>DST</b> <b>DSET32</b>	D Type Stock only D Type Set	Set contents - Stock 32mm Die 32mm Guide	1 1
	<b>20D</b> <b>25D</b> <b>32D</b>	B Type Die 20mm B Type Die 25mm D Type Die 32mm	-	1 1 1
	<b>20G</b> <b>25G</b> <b>32G</b>	B Type Guide 20mm B Type Guide 25mm D Type Guide 32mm	-	1 1 1
	<b>TW0</b>	Tap Wrench Adjustable 1/16" - 1/4"	-	1
	<b>35HT</b> <b>4HT</b> <b>20HT</b> <b>25HT</b>	Hand Tap Carbon Steel	3.5mm 4.0mm 20mm 25mm	3 3 1 1

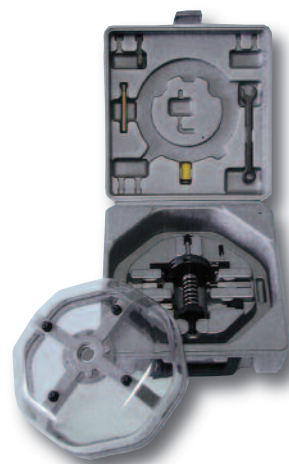


PART NO.	DESCRIPTION	LENGTH	PK QTY	
<b>BUSH</b>	Bushking 20/25mm Spanner	-	1	
<b>BRS</b>	Immersion Heater Box Ring Spanner	-	1	
<b>10NDT</b> <b>20NDT</b> <b>30NDT</b>	Draw-In Tapes Nylon 3mm	10M 20M 30M	1 1 1	
<b>10SDT</b> <b>20SDT</b> <b>30SDT</b>	Draw-In Tapes Steel 3mm	10M 20M 30M	1 1 1	
<b>20BSH</b> <b>25BSH</b>	Bending Springs Heavy gauge (Green)	20mm 25mm	1 1	
<b>20BSL</b> <b>25BSL</b>	Bending Springs Light gauge (Red)	20mm 25mm	1 1	

Tools



	PART NO.	DESCRIPTION	INFO
	HCT1	Simple Service Pliers	Wire cutter & stripper and bolt cutter
	HCT10	Automatic Wire Strippers	Can cut & strip small cables, Crimp small terminals and cable sockets
	HCT15	Ratchet Crimping Tool	For crimp terminals 1.5 - 2.5mm
	HCT16	Ratchet Crimping Tool	For small non-insulated cable sockets from 1.5 - 16mm
	HCT120	Heavy Duty Adjustable Hand Crimping Tool	For use on heavy duty non-insulated terminals. Adjustment covers 8 - 120mm <sup>2</sup>



PART NO.	DESCRIPTION	INFO	PK QTY	
<b>ARB0</b> <b>ARB1</b> <b>ARB2</b> <b>PD14</b>	Arbors	Fits hole Saws - 14 - 30mm 14 - 30mm 32 - 152mm 1/4" Pilot Drill	Shank - 1/4" round 7/16" hex 7/16" hex Fits all Arbors	1 1 1 1
<b>H20</b> <b>H25</b> <b>H32</b> <b>H38</b> <b>H41</b> <b>H51</b> <b>H54</b> <b>H60</b> <b>H64</b> <b>H67</b> <b>H76</b> <b>H79</b> <b>H83</b> <b>H102</b>	Hole Saws 30mm depth of cut	20mm 25mm 32mm 38mm 41mm 51mm 54mm 60mm 64mm 67mm 76mm 79mm 83mm 102mm	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
<b>HS01</b> <b>HS02</b>	Adjustable Hole Cutter	Diameter - 30 - 163mm 30 - 260mm	1 1	1
<b>HSBL</b> <b>HSBM</b> <b>HSBW</b>	Blades	HS02 wood, plaster board for metal HS01 wood, plasterboard	1 1 1	1
<b>HB24</b> <b>HB32</b>	Hacksaw Blades for High Speed Steel 1/2" x 12"	24TPI 32TPI	10 10	1

## Fuses &amp; Solder Wire

NORSLO



	PART NO.	DESCRIPTION	INFO	PK QTY
	<b>2AF</b>	Cartridge Fuses with ceramic body 1" long Meets BS 1362	2A	100
	<b>3AF</b>		3A	100
	<b>5AF</b>		5A	100
	<b>7AF</b>		7A	100
	<b>10AF</b>		10A	100
	<b>13AF</b>		13A	100
	<b>FW5</b>	Fuse Wire Tinned Copper Meets BS 4109	5A	1 x 125g reel
	<b>FW10</b>		10A	1 x 125g reel
	<b>FW15</b>		15A	1 x 125g reel
	<b>FW20</b>		20A	1 x 125g reel
	<b>FW30</b>		30A	1 x 125g reel
	<b>FW45</b>		45A	1 x 125g reel
	<b>FW60</b>		60A	1 x 125g reel
	<b>FW100</b>		100A	1 x 125g reel
	<b>SK16/SAC3/1</b>	Solder Reel No clean, lead free, cored RoHS compliant	16 SWG	1 x 250g reel
	<b>SK16/SAC3/2</b>		16 SWG	1 x 500g reel
	<b>SK18/SAC3/1</b>		18 SWG	1 x 250g reel
	<b>SK18/SAC3/2</b>		18 SWG	1 x 500g reel



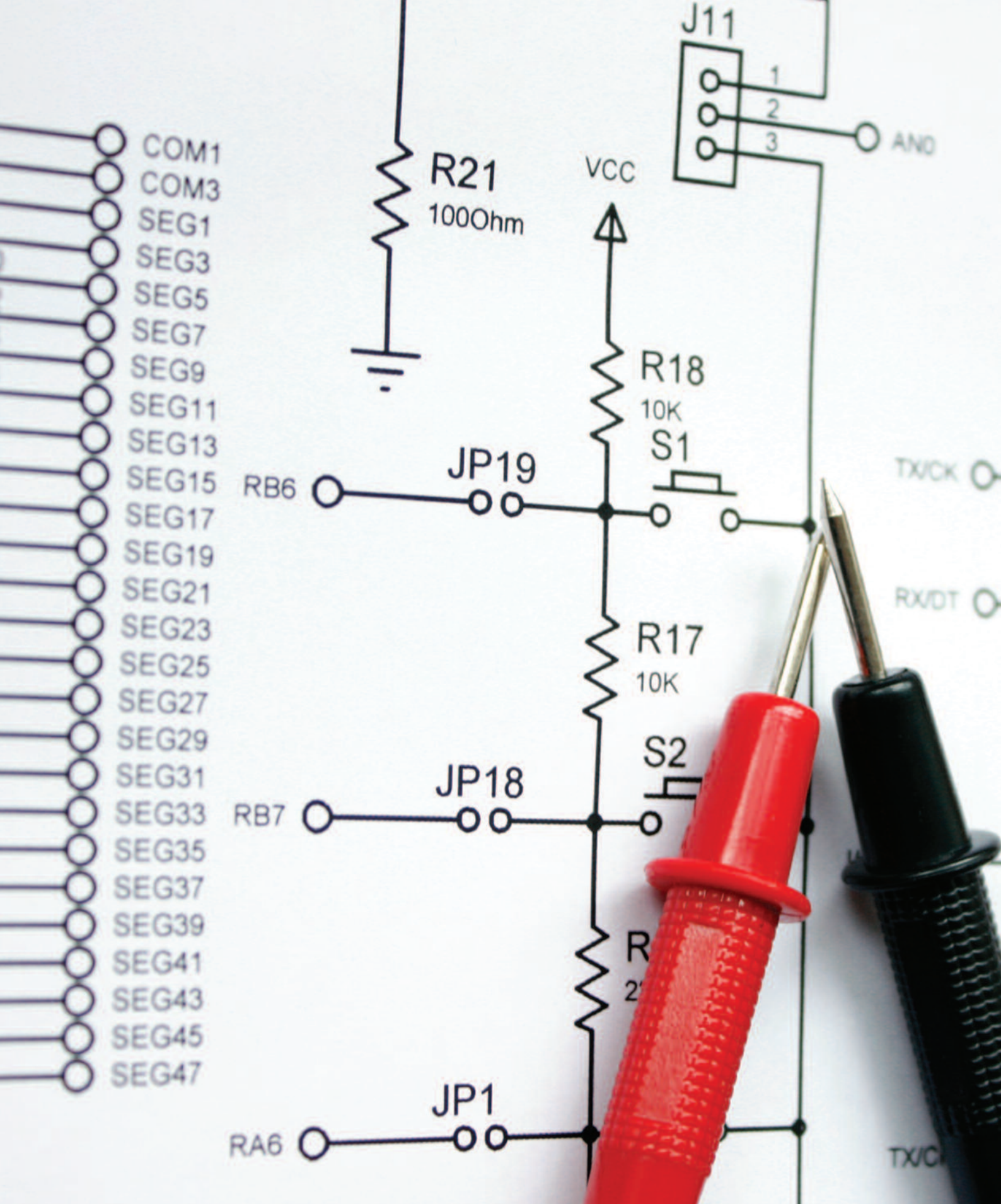


PART NO.	DESCRIPTION	PK QTY	
<b>GP400</b> <b>GP800</b> <b>SP400</b>	Galvafröid Paint	400ml Tin 800ml Tin 400ml Spray Can	
<b>TS</b> <b>TL</b>	Tallow Best Quality White	Small Tub 0.25kg Large Tub 0.5kg	
<b>PVC/ADH</b>	PVC Adhesive	250ml	
<b>TR450</b>	Cutting Compound "Temaxol"	450g	

## Notes

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Notes



TECHNICAL

# Technical

## Which is the Right Fan for Domestic Installations?

	Typical room size (m) and volume (m <sup>3</sup> ) L x W x H = Room volume	Required air changes per hour (AC)	Ventilation rate required (litre/sec) Room volume x AC ÷ 3.6	Result (litres/second)	Fan type GreenBrook recommends
<b>Bathroom</b>	3 x 3.5 x 2.3 = 24.15m <sup>3</sup>	3	24.15 x 3 ÷ 3.6	20.1	All GBE Fans
<b>Kitchen</b>	4 x 3 x 2.3 = 27.6m <sup>3</sup>	10	27.6 x 10 ÷ 3.6	76.7	WWPC230-9
<b>Utility Room</b>	2 x 2 x 2.3 = 9.2m <sup>3</sup>	15	9.2 x 15 ÷ 3.6	38.3	G242
<b>Garage</b>	3 x 5 x 2.3 = 34.5m <sup>3</sup>	6	43.5 x 6 ÷ 3.6	72.5	G242




















## What is Part P?

Electricity can be dangerous and more than a dozen people die through electrocution each year and a further 750 suffer serious injury. For this reason the Government introduced new legislation on 1st January 2005 through Part P of the Building Regulations.

















Part P requires that electrical installation work must comply with BS 7671:2001 (The Wiring Regulations). Failure to comply with the requirement of Part P is a criminal offence. It also requires that all but the simplest of electrical installation work must either -

- be carried out by an electrician who is registered with a Part P competent person self-certification scheme.
- OR
- be notified to a building control authority prior to commencement of the work and be inspected, tested and certified following completion.

## Symbols and Their Meanings

	CE mark shows the product complies with all relevant European Standards		F mark suitable for mounting on materials that may be considered flammable		Equipment suitable for direct mounting on or in cabinets or furniture
	Equipment must be earthed		Luminaire suitable for mounting in/on normally flammable surfaces where a thermal insulating material may cover the luminaire		Drip proof - IPX2
	Waste Electrical & Electronic Equipment		Luminaire suitable for direct mounting on non-combustible surfaces only		Rain proof - IPX3
	Double insulated - does not require an earth		Luminaire for use with high pressure sodium lamps that require an external ignitor (to the lamp)		Splash proof - IPX4
	AC only		Luminaire for use with high pressure sodium lamp having an internal starting device		Jet proof - IPX5
	Complies with class 3 relies on SELV - Extra low voltage		Minimum distance from lighted objects (M)		Protected against immersion in water -IPX7
	Equipment for indoor use only				

# Technical

IP Ratings					
1st Numeral			2nd Numeral		
Protection against ingress of solid foreign objects . . . meaning protection of persons against access to hazardous parts with:			Protection against harmful ingress of water.		
0 No protection		no protection provided	0 No protection		no protection provided
1 Full protection of 50mm ø sphere not allowed and shall have adequate clearance from hazardous parts. Contact with hazardous parts not permitted		back of hand	1 Protected against vertically falling drops of water		vertically dripping
2 Full penetration of 12.5mm ø sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts		finger	2 Protected against vertically falling drops of water with enclosure tilted 150 from the vertical		enclosure tilted 150 from the vertical
3 The access probe of 2.5mm ø shall not penetrate		tool	3 Protected against sprays to 600 from the vertical		limited spraying
4 The access probe of 1.0mm ø shall not penetrate		wire	4 Protected against water splashed from all directions		splashing from all directions
5 Limited ingress of dust permitted (no harmful deposit, refer to standard)		wire	5 Protected against low pressure jets of water from all directions		hosing jets from all directions
6 Totally protected against ingress of dust		wire	6 Protected against strong jets of water		strong hosing jets from all directions
			7 Protected against the effects of immersion between 15.0cm and 1.0m		temporary immersion
			8 Protected against longer periods of immersion under pressure		immersion

## What is the RoHS Directive?



The RoHS Directive came into force on 1st July 2006 this stands for 'Restriction of the use of Hazardous Substances, in electrical and electronic equipment'. This means electrical and electronic equipment containing more than the agreed level of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants are banned on the EU market.

It is permissible to sell products produced before 1st July 2006 without showing compliance, but product manufactured after this date will need to meet the RoHS requirements.

## What is the WEEE Directive?



The WEEE Directive (Waste Electrical and Electronic Equipment) came into force in January 2007. It aims to reduce the amount of waste and get everyone to reuse and recycle.

The Directive also aims to help businesses that manufacture improve their environmental performance supply, use, recycle and recover electrical and electronic equipment.



## REACH Declaration

Neither our suppliers, nor GreenBrook manufacture or import substances are currently in the scope of the REACH regulations.



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# Terms & Conditions

## GREENBROOK ELECTRICAL PLC – CONDITIONS OF SALE

### APPLICATION CONDITIONS TO ALL CONTRACTS

The following General Conditions of Sale shall apply to all Contracts for the sale of the Company's goods so far as the same are not varied by or inconsistent with such Special Conditions as may be agreed to between the Company and its customers in particular instances. Brochures advertising or other matter issued by or on behalf of the Company shall not form part or be admissible as evidence in any proceedings by or against the Company in relation to all contracts entered into with the Company for work done or goods supplied. These conditions will prevail at all times over any terms of conditions attached to the buyer's order form or acceptance or contained on any other written or oral intimation. Special conditions can only be agreed in writing and signed on behalf of the Company by a Director. Any such special conditions shall only apply to that particular transaction all other conditions herein shall remain in full force and effect.

### CONFIRMATION OF ORDERS

No order whether given by a customer verbally or in writing shall constitute a contract unless and until its acceptance embodying these conditions and any special conditions as may be agreed upon has been confirmed by the company in writing. No orders given and accepted as aforesaid shall be countermanded without the Company's consent in writing and it is an implied condition of such cancellation that the customer shall indemnify the Company against all loss and expenses occasioned thereby. No clerical errors or omissions in quotations or acceptances of orders shall annul the sale but shall be subject to subsequent correction by the Company and no compensation shall be allowed to the customer in respect thereof.

### PRICES

Prices and discounts are subject to alteration without notice.

### PAYMENT

Payment of invoices shall, unless otherwise agreed in writing, be made in full without any deduction or set-off by the due date stated on the invoice.

Failure to make due payment in respect of any deliveries or instalments under this or any other contract between the buyer and the Company shall entitle the Company to delay, suspend or cancel deliveries in whole or in part at its option.

Payment of all invoices shall be made within 30 days of the date of the invoice unless otherwise agreed in writing. Any extension of credit allowed to the buyer may be changed or withdrawn at any time.

If payment is not made in full by the due date stated on the invoice:

- the Company reserves the right to charge interest to the buyer at the rate of 2% per month on the unpaid balance (such interest to accrue on a day to day basis from the due date for payment until receipt by the Company of the full amount whether before or after any judgement); and
- the buyer shall indemnify the Company against all costs and expenses (including any legal costs and expenses on a full indemnity basis) incurred or sustained by the company in recovering sums due or in exercising its right pursuant to Clause 1 in each case without prejudice to any other rights or remedies available to the Company.

Payment shall be due whether or not property in the goods has passed by virtue of Clause 1 above and the Company shall (without prejudice to any other right or remedy) accordingly be entitled to sue for the price once the same is due even if property in the goods has not passed.

### RISK AND TITLE TO GOODS

The risk in the goods passes to the buyer upon delivery but property in the goods remains vested in the Company and shall only pass from the Company to the buyer upon full payment being made by the buyer of all sums due on whatsoever account or grounds to the Company from the buyer. In the event of the goods being sold by the buyer in such manner as to pass to a third party a valid title to the goods, whilst any such sums are due as aforesaid, the buyer shall place such proceeds in a separate bank account. The Company's right under this sub-clause (a) shall attach to the proceeds of such sale. Nothing herein shall constitute the buyer the agent of the Company for the purposes of any such sub-sale.

The buyer agrees that prior to full payment being made as aforesaid, the Company may at any time repossess the goods and enter upon the buyer's premises and remove the goods therefrom (and dispose of the same in any manner it may decide) and that prior to such payment the buyer shall keep such goods as fiduciary agent and bailee and separate and identifiable for this purpose.

In the event of the goods becoming constituents of or being converted into other products whilst sums are due as provided in sub-clause (a) hereof, the Company shall have the ownership of and title to such other products (but not by way of a charge) as if they were the goods and accordingly this clause 1 shall so far as appropriate apply to such other products subject to the buyer's right to the surplus of any monies realised by the said products in excess of those due to the Company as provided herein.

Any implied authority that the buyer shall be entitled to sell the goods as pass property in the same to third parties in the normal course of its business or manufacture products out of the same or sell such products will continue until otherwise notified to the buyer by the Company or until the happening of any of the following events (whichever is earlier):

- any notice to the buyer that an Administrative Receiver or other Receiver or Manager is to be or has been appointed in respect of its undertaking or a material part thereof or other property or assets;
- any notice to the buyer that a petition to wind up the buyer is to be or has been presented to the buyer under Section 124 of the Insolvency Act 1986 or otherwise or any notice to the buyer of a proposal to pass a Resolution to wind up the buyer (including any proposal by the buyer so to do);
- a decision by the buyer to make a voluntary arrangement or composition with its creditors or any notice to the buyer and/or any of its creditors that a proposal for the same is to be or has been made;
- the buyer becoming unable to pay its debts as such expression is defined by the Insolvency Act 1986; or

- any notice to the buyer that it is to be the subject of a petition for an Administration Order presented to the Courts or the making of any Administration Order in respect of the buyer; and upon the happening of any such events the buyer shall immediately notify a director (or other authorised executive) of the company.

On receipt of written notice from the Company or on the happening of any of the events set out in sub-clause (d) above, the buyer's implied authority to sell the Company's goods shall immediately be withdrawn and all such goods and products made therefrom shall immediately be delivered to the Company.

The buyer shall insure and keep insured the goods to their full value against all normal commercial risks until the date that the property in the goods passes from the Company and shall whenever requested by the Company produce a copy of the policy of insurance. Without prejudice to any other rights of the Company, if the buyer fails to comply fully with the terms of this sub-clause, all sums whatever owing by the buyer to the company shall immediately become due and payable.

### DELIVERY

Minimum carriage paid orders £100 (mainland UK only). £7.50 carriage charge for any orders under £100 and up to 25kg in weight. Above 25kg charged as advised.

If goods are carried and delivered by the Company or any other carrier for the care, carriage and unloading thereof whether by the Company's servants or otherwise shall in all respects be at the customer's cost and risk and no compensation or damage will be paid by the Company for the loss, damage, delay, detention or mis-delivery, whether caused by the act or default of the Company or its Servants or by accident or otherwise. The customer shall notify the Company and the carrier within 3 days of delivery of any shortage or damage to goods caused in transit or any irregularity in the carriage or delivery of the goods and in the prosecution of any claim in respect thereof the company shall be the agent of the customer who before giving the carrier a receipt for the goods tendered shall examine them and if unable to do so shall sign for the same unexamined.

Non delivery of goods must be reported to the Company within 3 days of receipt of invoice otherwise the Company cannot accept responsibility for any loss.

### TIME FOR DELIVERY

Any dates quoted for delivery of goods are approximate only and the Company shall not be liable for any delay in delivery of the goods howsoever caused. Time for delivery shall not be of the essence unless previously and expressly agreed by the Company in writing.

### DEFECTIVE GOODS

The use of any description of goods sold shall not constitute a contract for the sale thereof a sale by description and whether or not the customer inspects the goods either before or after delivery no warranty or guarantee shall be implied as to the quality, state, condition or fitness of the goods for the purposes for which they are required. All warranties, if given, must be by special condition written on or referring in writing to the Company's Order Acknowledgement Form in question and signed by a Director or Secretary of the Company. Subject as aforesaid the Company undertakes to replace or repair such goods or parts thereof which the customer shall have returned to the Company's Works or to such Works as the Company shall direct which in the opinion of the Company shall require replacement and repair owing to the same being defective in design material or workmanship.

### LIEN

In addition to any right of lien to which the Company may by law be entitled the Company shall be entitled to a general lien on all goods of the customer in the Company's possession (although such goods or some of them may have been paid for) for the unpaid price of any other goods sold and delivered under this or any other contract.

### RETURN OF GOODS

Goods will only be accepted for return if a Returns Authorisation Number has been issued. Goods returned without the Company's consent in writing will not be accepted for credit. All returned goods are returned at the customer's cost.

### ILLUSTRATIONS AND SPECIFICATIONS

The illustrations are typical and cannot be held as binding. The specification is the current specification and the Company reserve the right to alter or vary the specification without notice.

### DATA PROTECTION

We may transfer information about you to our bankers/financiers for the purposes of providing services and for the following purposes:-

- Obtaining credit insurance
- Making credit reference agency searches
- Credit control
- Assessment and analysis (including credit scoring, market, product and statistical analysis)
- Securitisation
- Protecting our interests

We will provide you with details of our bankers/financiers and that of any credit reference agencies used on request.

### GOVERNING LAW

The contract shall be deemed to be made in England and its interpretation, validity and performance shall in all respects be governed by the laws of England.

ISSUE NO 1030502



# GREENBROOK

ELECTRICAL PLC

*-PowerBreaker-* THE FIRST SINCE 1935



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