

Instructions for Installing Superswitch Electrical Accessories

Please keep this leaflet for future reference

SAFETY INSTRUCTIONS

- This product must be installed by a competent person in accordance with the current editions of the IEE Wiring Regulations (BS7671) and Buildings Regulations. **If in any doubt, consult a qualified electrician.**
- To prevent electrocution, do not work on any accessory live. Switch off the mains supply before commencing work.
- On products where an earth terminal is provided, it must always be connected to the earth conductor as well as to the earth terminal in the mounting box.
- To prevent fire hazard do not exceed the rated current of the product.
- Ensure cable of the correct size and rating is used for the application.
- When removing the old product from the wall, always ensure the back box has sufficient depth to accommodate the new product before full installation is undertaken.
- Products and packaging should be disposed of via standard refuse facilities at the end of their life.

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GENERAL NOTES ON INSTALLATION

- In new installations, strip back the cable outer sheath and trim wires to approximate length to allow sufficient lengths of the inner insulated core to reach the product terminals.
- Carefully strip back the inner insulation to expose a sufficient amount of the copper core to enter the terminals without leaving any of the cores exposed outside the terminal housings. Ensure the terminal screws clamp the core of the cable and not the insulation.
- If replacing an existing similar product, remove the old unit, making note of which cable is connected to which terminal. Note:- the terminal positions of other manufacturers products will be in different positions.
- Slide a length of green/yellow-sleeving onto any bare earth wires.
- Where cable connections may not be obvious, they are shown in the appropriate diagrams further on in this leaflet.
- If the product has an earth terminal, a length of green/yellow sleeved wire must be connected between this terminal and the earth terminal in the back box.
- Please note, the colour codes used for hard wired installations in the UK prior to April 2004 are different to those used after 2004. These colour codes are:-

Prior to 2004	After 2004
'L' Terminals Red Brown
'N' Terminals Black Blue
'⊕' Terminals Green/Yellow Green/Yellow

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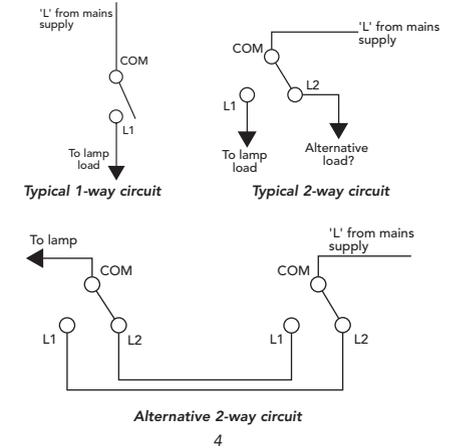
- In some circuits the neutral lead can be used for live applications, i.e. lighting circuits. In this case, a short length of red sleeving must be used at each termination.
- As the cables are installed, ensure all terminal screws are tight.
- Once the wiring is complete, carefully ease the cables into the mounting box, taking care that the wiring is not snagged and damaged.
- Screw the product to the back box using the screws provided. Do not over tighten the fixing screws.

LIGHT SWITCH CIRCUITS

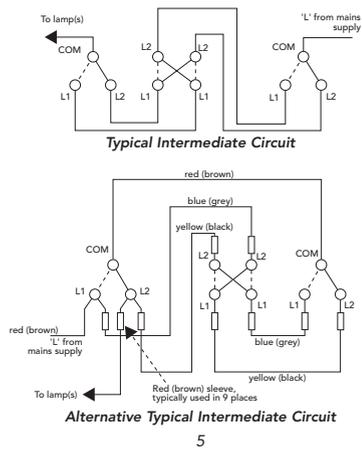
Many Light Switches do not require an earth connection. However, if the switch has a metal front plate, an earth conductor **MUST** always be used. Pages 4 and 5 show typical circuits used for light switches. Match these to your actual requirements and then connect them using the appropriate terminal markings on the switches. Page 5 shows the use of Intermediate switches in a circuit with standard switches. Again these should be connected using the appropriate terminal marking. Multi-gang switches are merely a repetition of the single gang units. It is extremely important that each circuit is clearly identified as the old switch is disconnected, otherwise a faulty installation may result. Fingerplates are available separately, which can be mounted between the switch and the wall, to help avoid marking the wall decoration around light switches.

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LIGHT SWITCHES



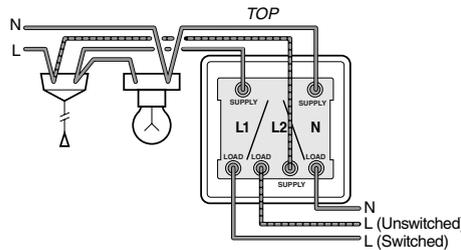
INTERMEDIATE SWITCH CIRCUITS



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3 POLE FAN SWITCH

Connect the incoming (supply) and outgoing (to the load) cables as shown in the diagram. Connect all earth cables to the terminal in the mounting box. Some fan circuits may not have a timer. This means it is likely there will only be two incoming and two outgoing cables. In this case, N and L1 only will be used. Therefore, the conductors shown as dashed lines in the diagram will not be required.



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13AMP SOCKETS AND SWITCHED SOCKETS

Irrespective of the unit being a single or double socket, there are only ever three different terminals to connect. (N.B. some sockets may have dual earth terminals, either or both can be used). The number of cables to be connected to the socket L&N terminals can vary between one and three, depending on the installation. A straightforward standard ring main will have two conductors connected to the L&N socket terminals, as well as two conductors to the earth terminal. An additional socket can be spured off from the ring main, in which case there could be one cable in each terminal if the socket is the spur, or three if it is the socket from which the spur is taken. The cable connections are straight forward for 13 amp sockets, make sure each coloured cable goes to the appropriate terminal by carefully reading the General Installation notes starting on page 2 of these instructions. When similar multiple cables are installed into one terminal, make sure they are twisted together and are all properly clamped under the terminal.

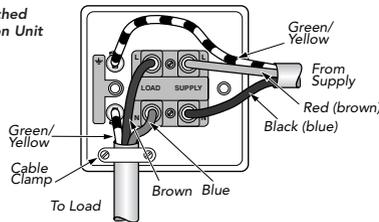
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13AMP CONNECTION UNITS/20AMP DP SWITCHES

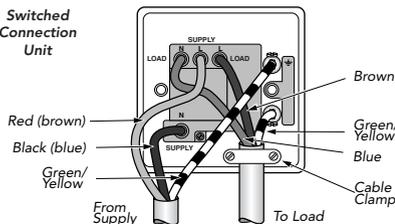
All Connection Units are fitted with a 13amp fuse, but it may be necessary to change this fuse to a lower rating for your particular applications. Similarly to 13amp Sockets, there may be more than one supply cable. When this is the case, always ensure the cables are twisted together and are properly clamped under the terminal screw. If the circuit being controlled is hard wired, load and supply cables may have the same colour codes. However, if the cable is to pass through the cable clamp on the product, the colour codes will be as follows:-
 The colour codes for flexible cables used with the cable clamp are:-
 'L'- Brown 'N'- Blue '⊕'- Green/Yellow
 When needing to use the cable clamp, carefully breakout the portion of the front plate flange, adjacent to the clamp. Remove any remaining sharp edges to avoid damage to the cable. Always ensure it is the outer sheath that is clamped by the cable clamp. Clamping the individual inner cables will not effectively secure the cable and may cause them damage. If installing a Connection Unit, use the appropriate illustrations shown on page 9, if installing a 20amp Switch, use the illustration shown on page 10. Always ensure the supply cables are connected to the supply/in terminals and the load/out cables are connected to the load terminals. When the load is connected via a flexible cable, it will be easier to connect this first, before connecting to the supply.

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Unswitched Connection Unit



Switched Connection Unit



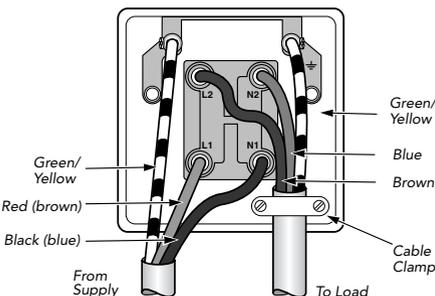
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20 AMP FLEX OUTLET

Loosen the two screws intended to clamp the flexible cable. In the UK, the colour codes for flexible cables are different to those for hard wired circuits. Flexible cable codes are:-
 'L'- Brown 'N'- Blue '⊕'- Green/Yellow
 Always ensure it is the outer sheath that is clamped by the cable clamp. Clamping the individual inner cables will not effectively secure the cable and may cause damage.

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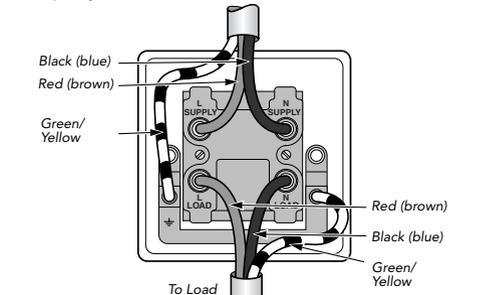
20 amp DP Switch



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45 AMP DP SWITCHES

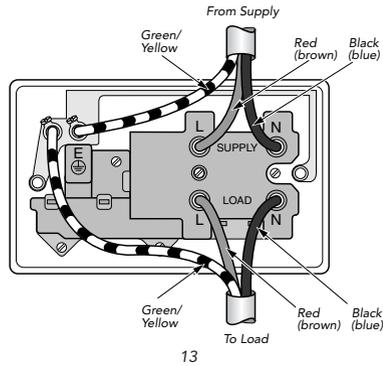
There are three types of 45 amp switch. The toggle operated type in small and large front plate sizes, plus the cord operated Ceiling Switch. Below is a typical switch layout. The wiring requirements will not change, but the position of the earth terminals will vary, dependent on which of the three types being used. Particularly when installing the ceiling switch, ensure the mounting box is adequately secure.



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45 AMP COOKER CONTROL UNIT

This Unit is normally supplied from a dedicated circuit and must not be connected directly into a ring main. Ensure the cables from the load (oven) are connected to the load terminals.



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45 AMP COOKER CONNECTION UNIT

Remove the fixing screws holding the front plate to the rest of the product and loosen the cable clamp screws. Connect the supply and appliance cables into the three terminals provided, marrying up the red, black and yellow/green conductors in the appropriate terminals.

Ensure the cable clamp properly retains the load cable. Always ensure it is the outer sheath only that is clamped. Breakout the lower edge of the front plate to suit the load cable. Carefully remove any remaining sharp edges to avoid damage to the cable.

SHAVER SUPPLY UNIT

These units should be connected to a mains supply protected by an MCB or a 10 amp maximum rated fuse, such as a lighting circuit, or alternatively to a fused Connection Unit that complies with BS1363: Part 4, supplied from a ring main.

The earth terminal should be connected to earth, using a length of green/yellow sleeving over the bare earth lead.

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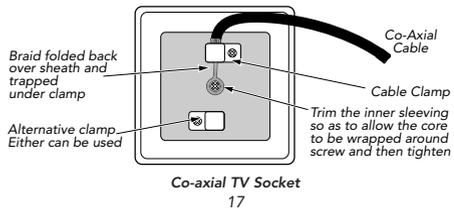
CO-AXIAL TV AND SATELLITE SOCKETS

Carefully trim back the outer sheath of the cable to the required length. Remove this excess outer sheathing. Roll the braided screening back over the top of the remaining sheathing. Loosen the terminal and retaining clamp screws.

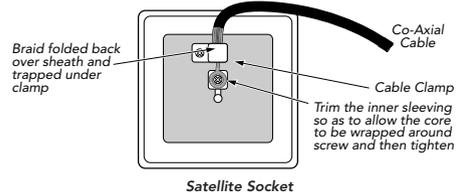
Trim back a short length of the inner sleeving to expose the inner core. Pass the cable under the clamp so the folded back braiding sits under the clamp and the inner core reaches the terminal. Loop the inner core around the central terminal screw and tighten screw.

With the braided screening sitting under the cable clamp, tighten the clamp screw.

Ensure there are no strands of the braided cable likely to come in contact with the inner core or its terminal.



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CEILING ROSE, PLUS PENDANT AND BATTEN LAMP HOLDERS

As mentioned in the general notes at the beginning of this leaflet it is essential all cables are clearly labelled up before disconnecting the old rose or batten lamp holder.

Remove the shade ring on batten lamp holder. Unscrew the rose cover from its base. Feed the cable through the aperture in the base. If a larger aperture is required, carefully cut out the adjacent marked area to suit. Remove all sharp edges.

Securely screw the base unit to a ceiling joist or wall, as appropriate.

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TELEPHONE SOCKETS

Master telephone sockets should only be installed by an authorised engineer.

Normally, up to a maximum of 5 secondary sockets can be used for extensions, but the maximum length of cable used between sockets should not exceed 50m.

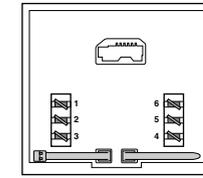
The maximum length of cable between the master and the final socket in a multiple chain of extensions, is 100m.

On the rear of the product, there are two sets of slotted connectors. Each is numbered as shown in the illustration on page 16.

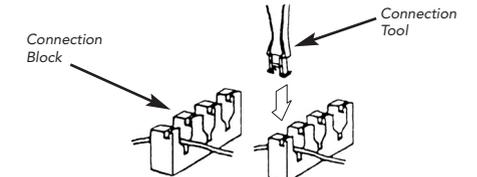
When creating an extension, the socket needs to be mounted on a surface or flush mounted back box, of suitable depth.

The terminals used are numbers 2,3,4 & 5. Using four core telephone cable, connect the cable to these terminals on the secondary socket and link them to the same terminals on the last socket in the chain. Use the same colours as those used on the other sockets.

Trim back the outer sheath of the cable, then each wire is connected into the slotted connector by using a suitable tool, as shown in the diagram on page 16. Securely connect the outer sleeving of the cable to the product by using the cable tie.



Telephone Socket



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Take care to avoid existing wiring or pipe work.

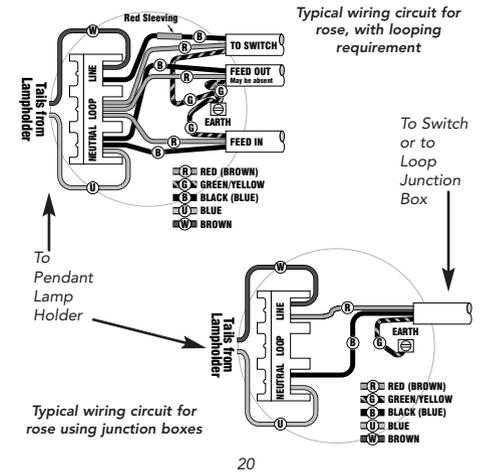
When fitted correctly and using 0.75mm 2 core circular cable, the ceiling rose is designed to carry fittings with a maximum weight of 3kg. Install the cables to the appropriate terminals. See the illustrations showing two typical circuits on page 20.

A piece of red sleeving will be required for one type of circuit, this is to ensure clear indication when the black sleeved conductor has been used in a line situation.

Fit the cables around the cable restraints as shown in the illustration on page 21. Screw the rose cover back into place.

A shade conversion ring is included with the 40mm low energy lamp holder, which can be used to convert an existing 30mm lamp shade. The conversion ring is designed to fit both 2-arm and 3-arm shades.

- 1) Remove the 30mm shade ring by cutting the support arms close to the central ring.
- 2) Fit the ends of the support arms into the appropriate tabs of the conversion ring. Note: it is important to fit the conversion ring under the support arms so that it takes the weight of the lampshade.
- 3) Tighten the metal tab firmly around each support arm using pliers.
- 4) Remove the spare tab if necessary.



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JUNCTION BOXES

The terminals of Junction Boxes can be used for any polarity. Remove the central screw and remove cover to expose terminals. In multi-terminal junction boxes, take care to use only one polarity in any one group of terminals.

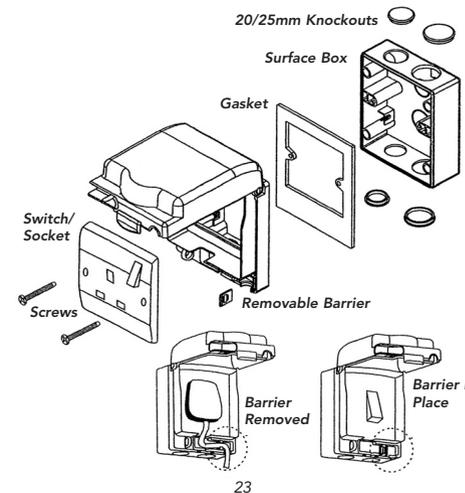
Position the way the cable lies, so as to pass through one of the apertures in the side of the base.

When cable installations are complete, position the cover so as to block off the cable entry apertures not used in the base and tighten the screw.

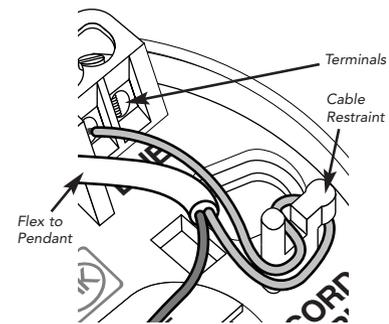
WEATHERPROOF SURFACE BOX

The Weatherproof box has been designed and tested to meet IP55 on a flat, smooth and even surface. IP55 means low pressure jets of water will cause no harmful effects. Therefore, when mounting the unit, care must be taken to ensure water cannot flow through the perimeter gasket and come into contact with live parts.

When switches are installed, the barrier must be in position to avoid water penetration (see illustration). When a socket is installed and the cable is wrapped through the tunnel as illustrated, the barrier must be removed.



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Cable restraints

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GUARANTEE

This product is guaranteed for 12 months from the date of purchase against faulty materials or workmanship. While under guarantee it will be repaired or replaced free of charge, providing that:-

1. The faulty product is returned to the store from where it was purchased, along with the receipt.
2. The product was purchased for the buyers own use only.
3. The product has been used for the purpose for which it is intended.
4. The product has not been misused or abused and has been kept in a suitable environment
5. The product has not been opened or tampered with in an attempt to modify or repair.
6. The product has been properly installed in accordance with the relevant wiring regulations and good installation practices.

This guarantee does not affect your statutory rights other than those expressed above and does not cover for subsequent loss or damage.



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