BG ELECTRICAL NXRJ45IL-D RJ45 Ethernet Data Socket Outlet Instruction Manual

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Contents

Wiring Instructions

Replacing an existing accessory

1. Unscrew the accessory from the wall/mounting box.
2. Note the cable connections.
3. Disconnect the wires.

New installation

1. Install mounting box (metal or moulded) for either flush or surface mounting, ensuring appropriate size of product (Mounting box to be purchased separately).
2. Select the most suitable entry point of the mounting box (knock-out) and route the cables through. If a metal box is used, a cable grommet should be fitted to the entry point.

Connection (See diagram)

1. Line up the new socket to mounting box and take note of where each terminal is located.
2. Carefully arrange the cable(s) so as to lie along the edges of the product keeping the central area clear.
3. Carefully remove 50mm of the cable outer sheath to expose the inner insulated conductors.
4. To assist with the correct installation of this product please consult the wiring diagram.
5. Fit wire to terminals, please see connection notes.
6. Supplied with this RJ45 socket is a cable tie that can be used to secure the wiring to the module. A terminal cap is also supplied, push click over terminals to secure.
7. Carefully position the accessory into the mounting box, ensuring that no wires have sharp bends or are trapped between the plate and the wall and secure with screws (do not over tighten) then insert screw covers (optional).

Additional Advice for Decorative Products

Fixing method varies depending on which product range is supplied. Always ensure wall surface is reasonably flat and smooth, with no bumps or projections. Metal frontplates WITH screw fixing holes, fix the unit to the back box

using two fixing screws supplied. All Decorative products MUST have an earth connection between the frontplate and back box. Frontplates WITHOUT screw fixing holes. These products comprise main unit with integral gasket, and frontplate as separate item. Fix unit to back box using two fixing screws supplied. Clip frontplate onto main assembly, ensuring screwdriver notch is located bottom right hand corner. To remove plate, place medium size flat bladed screwdriver in notch and lever off against gasket.

Technical

ASTA Approved

The ASTA quality mark is evidence that the product has been independently tested to comply with the relevant clauses of the applicable standards
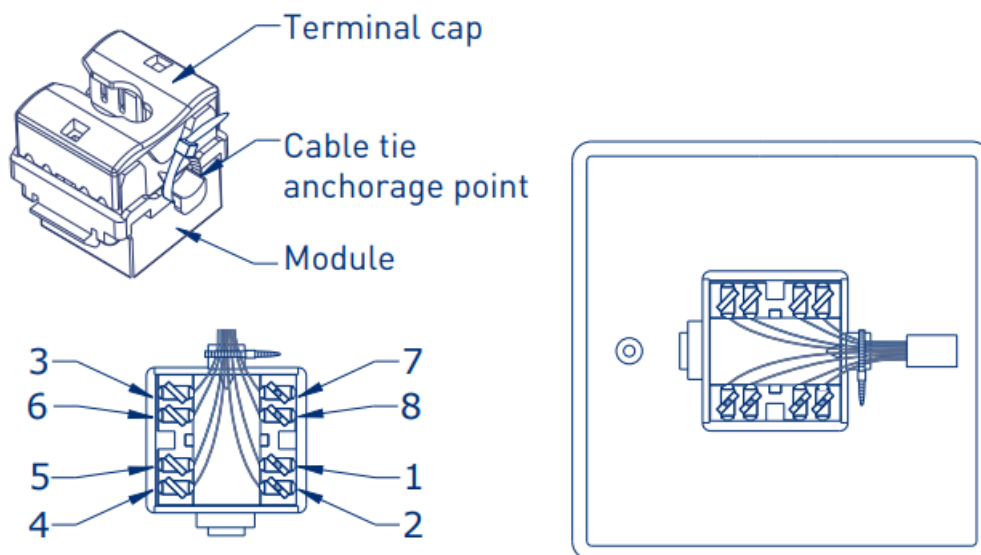

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Safety Warning

Before use please read and carefully use in accordance with these safety wiring instructions. To ensure a satisfactory operation these products should be installed by a competent person.
These products should not be installed into the same enclosure containing mains exceeding 50V. Avoid running the telecom within 50mm of mains electrical cable.
If in doubt, consult a qualified electrician.

Single RJ45 Data Socket

Connect the wires as shown in the diagram below.

Viewed from rear with locking tab at the bottom

IDC Type Connection
Using a suitable IDC tool push each lead into the appropriate IDC terminal according to the wiring Scheme.
Trim off any excess inner conductors protruding from the terminals.
Data Outlet Connection Type

Eight-conductor data cable contains 4 pairs of wires. Each pair consists of a solid coloured wire and a white wire with a stripe of the same colour. The pairs are twisted together. To maintain reliability on Ethernet, you should not untwist the anymore than necessary approx. 1cm. There are two wiring standards for these cables, called "T-568A" and "T-568B". They differ only in connection sequence, not in use of the various colours. Please refer to the table for correct pin designations.

RJ45 Wiring Scheme		
Pin	T568B	T568A
1	White/Orange	White/Green
2	Orange	Green
3	White/Green	White/Orange
4	Blue	Blue
5	White/Blue	White/Blue
6	Green	Orange
7	White/Brown	White/Brown
8	Brown	Brown

T568A – Colour coding used for cross-over cabling
T568B – Colour coding used for normal network cabling
Note – An existing installation may use a different wiring colour code system. It is essential that the new product is wired up in the same way as the old one.
The simplest way is either to label each conductor with the location of the terminal to which it connects as you release it or to transfer one conductor at a time to the corresponding terminal on the new product.

Double RJ45 Data Socket

Connect the wires as shown in the diagram above for each socket.
Socket provides two separate outlets from two separate inputs.

Care

To maintain the high quality appearance of decorative finish switches and sockets, BG Electrical recommend the use of a soft cloth periodically to clean the front face. When installing a decorative product please ensure that the wall is decorated, finished and free of moisture prior to installation. BG Electrical recommends avoiding using, but not restricted to, these substances from becoming in contact with the decorative metal front-plates when cleaning or decorating:

- Adhesive tape, including low tack masking tape
- Solvents
- White spirit
- Multi surface cleaners
- Industrial multipurpose cleaning wipes
- Wet wipes
  Using items like those listed above may cause a degrading effect to the front-plates lacquer/plated finish, although the function will remain unaffected.

Batch Code explanation

yyWxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

Address/Helpline

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ENGLAND SPAIN

If you have further technical assistance you can get in touch with our Technical Helpline **on: +44 (0)3300 249 279** technical. **support@bgelectrical.co.uk**
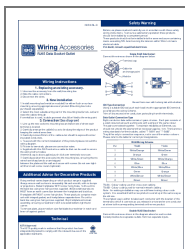
Environmental Protection

This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/ electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/ battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

Documents / Resources

BG ELECTRICAL NXRJ45IL-D RJ45 Ethernet Data Socket Outlet [pdf] Instruction Manual NXRJ45IL-D RJ45 Ethernet Data Socket Outlet, NXRJ45IL-D, RJ45 Ethernet Data Socket Outlet, Data Socket Outlet, Socket Outlet