

MT32 Pre-wired underfloor power distribution

Singles cabling system

Extension, connection, adaptor and terminal cables

Cable Type	6491B (HO1Z-R) to BS 7211 (LS0H)
Size	4.0mm ² x 3 (PE) or 4.0mm ² x 4 (CE)
Connector Self Lock Retention	> 80N
Male/Female Connector Diameter	19.2mm
Terminal Block	6 x 4.0mm ²
Adaptor (4.0mm ²)	20mm

Underfloor Distribution System

Conduit assembly, tap off and adaptor

Cable Type	6491X (BASEC BS 6004 H07V-R)
Protective Earth (P.E)	4.0mm ² x 3 (Grey Plug)
Clean Earth (C.E)	4.0mm ² x 4 (Red Plug)
Protection: Conduit Assembly	25mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)
Protection: Tap Off	20mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)

General specification

Approvals: System	Designed to comply with BS 7671:2008 IEE Wiring Regulations
Approvals: Connector	Designed to comply with EN 61535:2009 (Fixed installation couplers for permanent connection)
Normal Voltage	250 volts
Frequency	50/60 Hertz
Volt Drop Line & Neutral Connector	1.0 mV/A/M
Volt Drop Line & Neutral (Flexible Cabling System) 2.5mm	19.0 mV/A/M
Volt Drop Line & Neutral (Underfloor) 4.0mm	12.0 mV/A/M
Connector Impedance	1.0m Ω/connector
Connector, Body Material	PA66 – GF25
Connector Colour Female	Black
Connector Colour Male	White
Compatibility	Keyed against incorrect insertion
Operating Temperature (Ambient)	-5°C to + 40°C
Safety	PE contact engages first
Degree of Protection	Engaged IP2XC

Installation

MT32 pre-wired socket range

Fitting

- Plug in incoming pre-wired lead (from previous socket or distribution board) to appropriate connector mounted in socket assembly box.
- Connect selected pre-wired lead to outgoing connector mounted on opposite side of socket assembly box.
- Clip complete assembly into trunking compartment.
- When trunking cover is fitted, it should be slid between back box frame and the loosened accessory face plate.
- Front plate is then fully tightened down to clamp accessory in place.
- For pre-made close coupled assemblies, use lid spacer (ES1WH) between boxes.

MT32 system with non-Marshall-Tufflex socket assemblies

Fitting

- For non-Marshall-Tufflex accessories, use pre-assembled outlet box unit.
- Connect cable tails to accessory in accordance with wiring regulations and fit accessory to back box.
- Connect pre-wired incoming and outgoing leads and fit to trunking (as above).
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Earthing requirements for the installation of equipment having High Protective/Conductor currents. BS 7671: 2008 Reg. 543.7

The scope of Reg. 543.7.1.203 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high integrity protective connection.

Singles Cabling System 4.0mm²

Final Circuit

MT32 singles systems conform to the high integrity protective requirement by virtue of having a single copper protective conductor of 4mm², (Reg 543.7.1.203) with the protective conductor being enclosed throughout in trunking or flexible conduit to provide additional protection against mechanical damage.

Note: Different key ways apply between 2.5mm² and 4.0mm²