

M100BH and M100BH1 Modular 8-Pos./8-Cond. Information Outlets



Figure 5-3. M100-Type Modular Outlet

The M100BH and M100BH1 are M-Series modular information outlets designed for high-speed networking applications that use data transmission rates up to 100 MHz. This 8-position/8-conductor outlet meets the Category 5 transmission requirements for connecting hardware specified in EIA/TIA TSB-40. The high performance, small size, and modular nature of this outlet provide maximum versatility in designing a premises distribution system. The wire insertion caps supplied can be used to install 24-AWG horizontal wire and should be left in place to provide protection from contamination and to secure the wire connections. Multicolor labels mark wire terminals, assuring fast, accurate installation.

M100BH outlet uses the EIA/TIA-T568B wiring label and is recommended for *SYSTIMAX* SCS applications.

M100BH1 outlet uses the EIA/TIA-T568A wiring label.

Mounting: The M100BH and M100BH1 are designed to snap into any M-Series modular faceplate, frame, or surface-mount box. When the outlet is inserted into the faceplate, frame, or surface-mount box, it locks into place and can only be released using the dual-purpose wire insertion cap. This mounting and removal system allows easy installation and modifications.

Optional Accessories: M10A Single Faceplate, M10AW Single Faceplate, M12A Duplex Faceplate, M13A Triplex Faceplate, M14A Quadplex Faceplate, M16A Sixplex Faceplate, M14B Quadplex Raised Floor Faceplate, M28A Double Gang Faceplate, M1000 MULTIMAX PANEL, M10AF Mounting Frame, M105FR1 Mounting Frame, M106FR2 Duplex Mounting Frame, M106FR4 Quadplex Mounting Frame, M101SMB Single Surface-Mount Box, M102SMB Duplex Surface-Mount Box, M104SMB Quadplex Surface-Mount Box, M112SMB Twelveplex Surface-Mount Box, M13C Modular Furniture Triplex Outlet Faceplate, M40RJ2 Triplex Panel, M30MC Mounting Collar, M20AP Dust Cover/Blank

Subsystem: Horizontal

Physical Specifications:

Width: 0.8 in. (2.03 cm)

Length: 0.8 in. (2.03 cm)

Depth: 1.2 in. (3.05 cm)

Plastic: High-impact, flame-retardant, UL-rated 94 V-0 thermoplastic

Jack Wires: 50 micro-inch lubricated gold plating over 100 micro-inch nickel underplate

Connector: Insulation displacement connectors accept 24-AWG solid wire.

Electrical Specifications:

EIA/TIA Category: 5

Data Rate: Compatible with 10 Mbps IEEE 802.3 10BASE-T applications. Fully supports 100 Mbps TP-PMD at 328 ft (100 m) over UTP per ANSI X3T9.5. Compatible with 16 Mbps IEEE 802.5 Token Ring applications.

Insulation resistance: 500 M Ω minimum

Dielectric withstand voltage 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface

Contact resistance: 20 M Ω maximum

Current rating: 1.5 A at 68 °F (20 °C) per IEC Publication 512-3, Test 5b.



Listed



Certified

FCC Part 68

Mechanical Performance:

Plug Insertion Life: Special lubrication process provides for a minimum of 750 plug insertions

Contact Force: 3.5 oz (99.2 g) minimum using FCC-approved modular plug

Plug Retention Force: 30 lb (133 N) minimum between modular plug and jack

Temperature Range: -40 to 150 °F (-40 to 66 °C)

Product Number	Description	Color	Comcode
M100BH-003	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Black	106 821 564
M100BH-112	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Orange	107 167 181
M100BH-123	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Yellow	107 138 018
M100BH-226	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Green	107 138 026
M100BH-246	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Ivory	106 821 598
M100BH-262	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical White	106 821 606
M100BH-270	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Gray	106 821 614
M100BH-317	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Red	107 204 943
M100BH-318	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Blue	107 204 950
M100BH1-003	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Black	106 821 705
M100BH1-112	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Orange	107 167 207
M100BH1-123	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Yellow	107 138 034
M100BH1-226	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Green	107 138 042
M100BH1-246	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Ivory	106 821 721
M100BH1-262	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical White	106 821 739
M100BH1-270	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Gray	106 821 747
M100BH1-317	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Red	107 204 968
M100BH1-318	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Blue	107 204 976
M100BH-B1K-003	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Black	106 821 457*
M100BH-B1K-123	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Yellow	107 137 911*
M100BH-B1K-226	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Green	107 137 929*
M100BH-B1K-246	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Ivory	106 821 473*
M100BH-B1K-262	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical White	106 821 481*
M100BH-B1K-270	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Gray	106 821 499*
M100BH-B1K-317	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Red	107 204 901*
M100BH-B1K-318	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Blue	107 204 919*
* Bulk quantities packaged 1000 communication outlets per package (bag). Minimum ordering quantity is 1000 outlets (per ordering code).			