

MPS100BH and MPS100BH1 Modular 8-Pos./8-Cond. Information Outlets

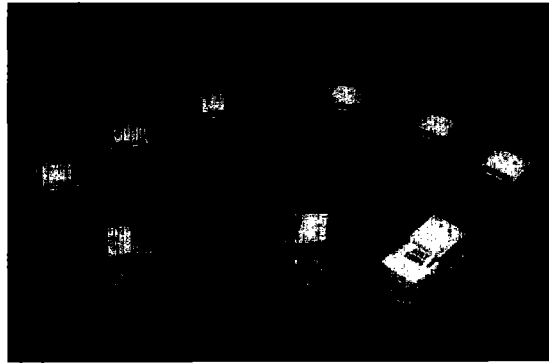


Figure 5-2. MPS100-Type Modular Outlet

The MPS100BH and MPS100BH1 (CH1) outlets are high density modular information jacks designed for high speed networking applications using data transmission rates with frequencies up to 100 MHz. These 8-position/8-conductor jacks meet the Category 5 transmission requirements for connecting hardware specified in EIA/TIA 568A. The high performance, small size, and modular nature of these jacks provide maximum versatility in designing a premises distribution system. Marked with "MP5" molded above the jack opening, the power sum jacks are easily distinguished from the Category 5 M100 series and Category 3 M1 series jacks, and can also support Category 4 applications.

Insulation displacement connectors accept 22- and 24-AWG insulated wire. The supplied wire caps can be used to insert 24-AWG wire. It is recommended that an AT-8762D Impact Tool be used to insert 22-AWG wire. The wire caps should be used to provide protection from contamination and to secure the connections. Multi-color labels mark wire terminals, assuring fast, accurate installation. The MPS100BH power sum outlets have EIA/TIA T568B wiring labels and the MPS100BH1 power sum outlets have EIA/TIA T568A wiring labels. The wire insertion caps supplied 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.

MPS100BH outlet uses the EIA/TIA-T568B wiring label and is recommended for SYSTIMAX SCS applications.

MPS100BH1 outlet uses the EIA/TIA-T568A wiring label.

Mounting: The MPS100BH and MPS100BH1 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.



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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
MPS100BH-003	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Black	107 565 483
MPS100BH-112	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Orange	107 565 401
MPS100BH-123	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Yellow	107 565 509
MPS100BH-226	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Green	107 565 517
MPS100BH-246	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Ivory	107 565 525
MPS100BH-262	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical White	107 565 533
MPS100BH-270	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Gray	107 565 541
MPS100BH-317	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Red	107 565 558
MPS100BH-318	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Blue	107 565 566
MPS100BH-BIK-003	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Black	107 565 574*
MPS100BH-BIK-112	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Orange	107 565 590*
MPS100BH-BIK-123	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Yellow	107 565 608*
MPS100BH-BIK-226	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Green	107 565 624*
MPS100BH-BIK-246	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Ivory	107 565 632*
MPS100BH-BIK-262	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical White	107 565 657*
MPS100BH-BIK-270	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Gray	107 565 665*
MPS100BH-BIK-317	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Red	107 565 681*
MPS100BH-BIK-318	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Blue	107 565 699*
MPS100BH1-003	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Black	107 565 715
MPS100BH1-112	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Orange	107 565 723
MPS100BH1-123	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Yellow	107 565 731
MPS100BH1-226	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Green	107 565 749
MPS100BH1-246	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Ivory	107 565 756
MPS100BH1-262	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical White	107 565 764
MPS100BH1-270	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Electrical Gray	107 565 772
MPS100BH1-317	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Red	107 565 780
MPS100BH1-318	Mod. Outlet EIA/TIA-T568A 8-Pos./8-Cond.	Blue	107 565 798
MPS100BH1-BIK-003	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Black	107 565 889*
MPS100BH1-BIK-112	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Orange	107 565 897*
MPS100BH1-BIK-123	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Yellow	107 565 905*
MPS100BH1-BIK-226	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Green	107 565 913*
MPS100BH1-BIK-246	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Ivory	107 565 939*
MPS100BH1-BIK-262	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical White	107 565 947*
MPS100BH1-BIK-270	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Electrical Gray	107 565 954*
MPS100BH1-BIK-317	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Red	107 565 962*
MPS100BH1-BIK-318	Mod. Outlet EIA/TIA-T568B 8-Pos./8-Cond.	Blue	107 565 970*

* Bulk quantities packaged 1000 communication outlets per package (bag). Minimum ordering quantity is 1000 outlets (per ordering code).

Outlet Position No.	Modular Jack Pin No.	EIA/TIA-T568B* Wire Color	EIA/TIA-T568A Wire Color
1	1	White-Orange	White-Green
2	2	Orange	Green
3	3	White-Green	White-Orange
4	4	Blue	Blue
5	5	White-Blue	White-Blue
6	6	Green	Orange
7	7	White-Brown	White-Brown
8	8	Brown	Brown
* SYSTIMAX SCS-recommended wiring scheme (T568B)			

Note: The wire insertion caps supplied can be used to install 24-AWG inside wire and should be left in place to provide protection from contamination and to secure the wire connections.