

PB 334

New Modular Industrial Patch Panel (MIPP™)

Belden® introduces the MIPP, a modular industrial patch panel that makes it possible to terminate fiber and copper in one solution.



The New MIPP Brings Flexibility and Versatility to Cable Termination, Providing Space and Cost Savings as well as Maximum System Availability.

BELDEN



HIRSCHMANN

A BELDEN BRAND

A new product to serve your needs. Be certain.

- Combining copper and fiber management for the first time in one patch panel for maximum system flexibility and versatility
- The innovative modular design enables quick and easy installation significantly reducing initial set-up cost

The new MIPP is a termination panel for cables that need connecting to active equipment such as switches. Thanks to the modular design, MIPP can be linked to create a large single patch panel, to which, for the first time ever, both fiber and copper cables can be connected.

The MIPP is a completely new solution that provides the ideal connection between Belden® cables and Hirschmann™ switches. Available in a choice of modules suitable for both fiber and copper cables, up to 6 modules can be connected to create a single panel that can accommodate both types of cable at the same time for maximum system flexibility. Using patchcords to connect to active equipment, cables can be terminated outside the cabinet in an organized and structured manner to ensure the highest level of reliability.

Applications

The MIPP is ideal for use in a wide range of industrial applications requiring maximum system reliability and flexibility. The industrial design makes it highly suited for use in Machine Building, Transportation, Alternative Power Generation, Power Transmission & Distribution, and Oil & Gas markets, as well as for general use in enterprise, buildings and other applications.

Benefits

The MIPP is designed for industrial use, where its functionality and reliability can make a significant contribution to the uptime and availability of the system. Thanks to its modular design, installation is quick and easy, saving time and significantly reducing initial set-up costs, whilst at the same time contributing to greater reliability and easier and more efficient system management, requiring less maintenance.

Designed to have the same look and feel as the Hirschmann range of industrial switches, the MIPP has a lightweight aluminum structure, which increases its overall versatility. It easy to mount on a DIN Rail or it can attach at the sides of the cabinets simply using a wall mount plate. Thanks to its small housing, high port density and modularity, cabinet space is kept to a minimum.

MIPP: A Versatile, Modular Patch Panel for Industrial Use

The MIPP is available as both single and double modules:

- Single Modules
 - 6 x SC duplex adapters (up to 12 fiber connections)
 - 6 x LC duplex adapters (up to 12 fiber connections)
 - 4 x RJ45 keystone jacks
- Double Modules
 - 12 x SC duplex adapters (up to 24 fiber connections)
 - 12 x LC duplex adapters (up to 24 fiber connections)

Thanks to their compact dimensions, up to 6 modules can be combined in any permutation – and when required, each module can be easily removed or replaced for maximum flexibility.

MIPP is a modular, flexible patch panel that combines both copper and fiber cabling in one innovative solution.













The Advantages at a Glance

- Accommodating various media and connectors
- LC, SC fiber duplex adapters
- RJ45 copper keystone jacks (Shielded and Unshielded, Cat 5e, Cat 6, Cat 6A)
- High port density for maximum use of available space
- Easy to use, allows space for handling cable and module is removable from unit to facilitate connection/splicing
- Splice tray and multiple fingers for easy fiber management
- Cable entry in two places (top or bottom) for ease of use and choice of placement in cabinet
- Resilient for protection against the harsher industrial environments
- Wide temperature range from -20°C to +70°C
- Available as part of a system with market leading Hirschmann™ switches and high performance Belden cabling for optimum reliability in Industrial Ethernet networks
- UL approval (UL 1863) pending





Technical Information

Housing Type and Description						
Description	Modular Industrial Patch Panel, DIN Rail					
Number of Single Modules	1	2	3	4	5	6
						
Mechanical Construction						
Material Housing	Aluminium					
Dimensions (WxHxD)	42 x 138 x 122 mm	72 x 138 x 122 mm	102 x 138 x 122 mm	132 x 138 x 122 mm	162 x 138 x 122 mm	192 x 138 x 122 mm
Dimensions with Adapters and Gland, max. (HxD)	165 x 133 mm	165 x 133 mm	165 x 133 mm	165 x 133 mm	165 x 133 mm	165 x 133 mm
Mounting	DIN Rail					
Appr. Weight (incl. Modules)	500 g	800 g	1100 g	1400 g	1700 g	2000 g
Protection Class	IP20					
Module Type and Description						
Type	Single Module	Single Module	Double Module	Double Module	Single Module	Single Module
Description	6 x SC Duplex	6 x LC Duplex	12 x SC Duplex	12 x LC Duplex	4 x RJ45 Keystone Jack, Unshielded	4 x RJ45 Keystone Jack, Shielded
						
Mechanical Construction						
Material	Aluminium					
Adapter/Keystone Types	<ul style="list-style-type: none"> Blue SC adapter OS2 UPC zirconia ceramic Beige SC adapter OM1/OM2 PC phosphor bronze Aqua SC adapter OM3/OM4 PC zirconia ceramic 	<ul style="list-style-type: none"> Blue LC adapter OS2 UPC zirconia ceramic Beige LC adapter OM1/OM2 PC phosphor bronze Aqua LC adapter OM3/OM4 PC zirconia ceramic 	<ul style="list-style-type: none"> Blue SC adapter OS2 UPC zirconia ceramic Beige SC adapter OM1/OM2 PC phosphor bronze Aqua SC adapter OM3/OM4 PC zirconia ceramic 	<ul style="list-style-type: none"> Blue LC adapter OS2 UPC zirconia ceramic Beige LC adapter OM1/OM2 PC phosphor bronze Aqua LC adapter OM3/OM4 PC zirconia ceramic 	<ul style="list-style-type: none"> Cat 5e Modular Jack, Keyconnect AX101310, black Cat 6+ Modular Jack, Keyconnect AX101321, black Cat 6A/10GX Modular Jack, Keyconnect AX102283, black 	<ul style="list-style-type: none"> Cat 5e Shielded Modular Jack, Keyconnect AX104595, metal body Cat 6+ Shielded Modular Jack, Keyconnect AX104596, metal body Cat 6A/10GX Shielded Modular Jack, Keyconnect AX104562, metal body
Cable Entry	M16 Gland	M16 Gland	M20 Gland	M20 Gland	–	–
Maximum Diameter Cable	10 mm	10 mm	13 mm	13 mm	4 x 7.5 mm	4 x 7.5 mm
Cable Types	Loose-tube, minibreakout or breakout cables of up to 12 fibers	Loose-tube, minibreakout or breakout cables of up to 12 fibers	Loose-tube, minibreakout or breakout cables of up to 24 fibers	Loose-tube, minibreakout or breakout cables of up to 24 fibers	<ul style="list-style-type: none"> Cat 5e Unshielded Cat 6 Unshielded Cat 6A Unshielded 	<ul style="list-style-type: none"> Cat 5e Shielded Cat 6 Shielded Cat 6A Shielded Cat 7 Shielded
Accessories						
Pigtails	1 pack of 12 pigtails, 900 micron, 0.6 m in 12 different colours: <ul style="list-style-type: none"> SC/UPC SM 9/125, OS2 SC/PC MM 62.5/125, OM1 SC/PC MM 50/125, OM2 SC/PC MM 50/125, OM3 SC/PC MM 50/125, OM4 	1 pack of 12 pigtails, 900 micron, 0.6 m in 12 different colours: <ul style="list-style-type: none"> LC/UPC SM 9/125, OS2 LC/PC MM 62.5/125, OM1 LC/PC MM 50/125, OM2 LC/PC MM 50/125, OM3 LC/PC MM 50/125, OM4 	2 packs of 12 pigtails, 900 micron, 0.6 m in 12 different colours: <ul style="list-style-type: none"> SC/UPC SM 9/125, OS2 SC/PC MM 62.5/125, OM1 SC/PC MM 50/125, OM2 SC/PC MM 50/125, OM3 SC/PC MM 50/125, OM4 	2 packs of 12 pigtails, 900 micron, 0.6 m in 12 different colours: <ul style="list-style-type: none"> LC/UPC SM 9/125, OS2 LC/PC MM 62.5/125, OM1 LC/PC MM 50/125, OM2 LC/PC MM 50/125, OM3 LC/PC MM 50/125, OM4 	–	–

Accessories (continued)						
Brilliance Field Installable Connector	12 brilliance connectors SC, 900 micron: • SM 9/125, OS2, blue, AX104247 • MM 62.5/125, OM1, beige, AX104244 • MM 50/125, OM2, black, AX104245 • MM 50/125, OM3/OM4, aqua, AX104246	12 brilliance connectors LC, 900 micron: • SM 9/125, OS2, blue, AX104243 • MM 62.5 micron, OM1, beige, AX104240 • MM 50 micron, OM2, black, AX104241 • MM 50 micron, OM3/OM4, aqua, AX104242	24 brilliance connectors SC, 900 micron: • SM 9/125, OS2, blue, AX104247 • MM 62.5/125, OM1, beige, AX104244 • MM 50/125, OM2, black, AX104245 • MM 50/125, OM3 OM4, aqua, AX104246	24 brilliance connectors LC, 900 micron: • SM 9/125, OS2, blue, AX104243 • MM 62.5/125, OM1, beige, AX104240 • MM 50/125, OM2, black, AX104241 • MM 50/125, OM3 OM4, aqua, AX104242	-	-

MIPP Product Configurator

NOTE: Use the configured product code to order



Design/Model

MIPP - =Modular Industrial Patch Panel

Housing Type

- X** = No Housing
- W** = Wall Mount Plate included
- D** = Standard DIN Rail

Mode (Note: A double module requires two places)

- X** = No Housing
- A** = 1 x Single module
- B** = 2 x Single module
- C** = 3 x Single module
- D** = 4 x Single module
- E** = 5 x Single module
- F** = 6 x Single module
- G** = 1 x Double module fiber
- H** = 2 x Double module fiber
- I** = 3 x Double module fiber
- J** = 1 x SM + 1 x DM fiber
- K** = 1 x SM + 2 x DM fiber
- L** = 2 x SM + 1 x DM fiber
- M** = 2 x SM + 2 x DM fiber
- N** = 3 x SM + 1 x DM fiber
- O** = 4 x SM + 1 x DM fiber

Note: SM = Single module and DM = Double module

Module Type

- 1** = Single module (fiber or blind)
- 2** = Double module (fiber or blind)
- C** = Single copper module

Adapter and Keystone Type

- L** = LC Duplex adapters
- S** = SC Duplex adapters
- U** = Unshielded keystones
- S** = Shielded keystones
- N** = Blind module

Fiber Type / Category Type for Copper

- 1** = MM/OM1
- 2** = MM/OM2
- 3** = MM/OM3
- 4** = MM/OM4
- 9** = SM/OS2
- E** = CAT5e
- D** = CAT6
- A** = CAT6A
- N** = Blind module

Accessories and Number of Keystones

- P** = Pigtails
- B** = Brilliance Field Installable Connectors
- 2** = 2 keystones
- 4** = 4 keystones
- N** = No accessories

Description of Parts Configured:

MIPP patch panel, no housing, (1) OM1 single fiber module, (6) LC duplex adapters, (1) pack of 12 pigtails.

Always the Right Solution

Belden is the world's leading supplier of signal transmission solutions including cable, connectivity and active components for mission-critical applications ranging from industrial automation and alternative power generation through to professional broadcasting. Belden offers an extensive portfolio of highly specialized products for steering, control and field level, which the company produces and markets under its proprietary Belden®, Hirschmann™, and Lumberg Automation™ brands. We would be glad to give you a more personal introduction to our integrated product palette for industrial applications and the worldwide Belden Service

You will find further information and technical details online at www.belden.com/hirschmann or contact our Sales Team directly: **Tel. 717.217.2299.**