

NP 129E

New Modular Industrial Patch Panel

Belden® introduces the MIPP™, a modular industrial patch panel which 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

- 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 costs

The new MIPP™ is a termination panel for cables that need to be connected to active equipment such as switches. Thanks to its 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 organised 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 more 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 aluminium structure which increases its overall versatility. It can easily be mounted on a DIN Rail, or it can even be fixed 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.

**A new product to serve your needs.
Be certain.**

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






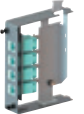
- Accommodating various media and connectors
- LC, SC fiber duplex adapters
- RJ45 copper keystone jacks (Shielded and Unshielded, Cat 5e, Cat 6, Cat 6A)
- High port density for maximum use of available space
- Easy to use, allows space for handling cable and module is removable from unit to facilitate 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

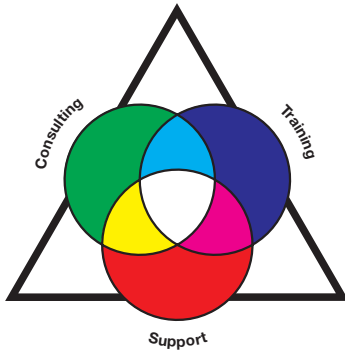




Technical Information

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, mini-breakout or breakout cables of up to 12 fibers	Loose-tube, mini-breakout or breakout cables of up to 12 fibers	Loose-tube, mini-breakout or breakout cables of up to 24 fibers	Loose-tube, mini-breakout 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 	–	–
Brilliance Field Installable Connector	12 brilliance connectors SC, 900 micron: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 	24 brilliance connectors SC, 900 micron: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 	–	–



The Belden® Competence Center

Make sure you get an economical end-to-end solution for your network: In addition to its well-known products, Belden can also offer you a wide range of vendor-independent services. Whether it's consulting, training or support – at the Belden® Competence Center you can be certain of tailor-made service from a single supplier.

Whichever technology you use: our experts will support you all the way, from designing your network to optimizing the measures required in the operating phase. Up-to-date manufacturer's expertise, an international service network and fast access to external specialists guarantees you the best possible support. Bundle your individual service package today!

Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who are able to add value to your business. When it comes to signal transmissions, Belden is the number one solutions provider. We understand your business and want to know your specific challenges and targets to see how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our three leading brands, Belden®; Hirschmann™; and Lumberg Automation™, we are able to offer the solution you need. Today it may be a single cable, a switch or a connector, thus solving a specific issue; tomorrow it can be a complex range of integrated applications, systems and solutions.

We guarantee the superior performance of your mission-critical systems, even in the most demanding circumstances. If signal transmission is vital to your business, get in touch with the partner that delivers. Be certain. Belden.