COMMSCOPE®

Modular Front Patching System

For all your high-density FTTx deployments

Across the globe, demand for fiber is snowballing and you are trying hard to keep up. From smart cities to intelligent buildings, the fiber network is the nervous system of communities across the region. It enables the on-demand capacity, speed and reliability your subscribers expect.

Meanwhile, competition in your markets is raging as other MSOs (Multi Service Operators) rush to deploy more IP-based services to more customers. The pressure is on to rollout quickly while reducing your CapEx and OpEx wherever possible. In this environment, there are no small decisions. Especially when it comes to your fiber patching solutions.

Fiber-connected households generate more traffic than households with other sources of broadband. The average FTTH household generated 68 GB per month in 2015 and will generate 138 GB per month in 2020.

-Cisco VNI Global IP Traffic Forecast, 2015–2020
http://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/vni-hyperconnectivity-wp.html

Your patching shelves. A new perspective

The patching shelf within your fiber access nodes is among the most critical junctures in your network. Here, your core network ends and the all-important "last mile" begins. Uptime, growth potential, cost savings.
So much depends on this one component. Do you have the right one?

Ask yourself...

Does your patching shelf have enough...
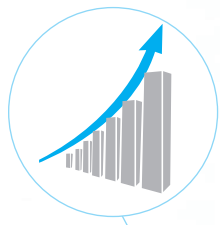
Capacity: The more patching capacity you have, the more subscribers you can connect (and the more revenue you can generate) with each node.

Flexibility: The environment inside and outside every access node is different: connector configurations, density requirements, functional capabilities. Does your patching shelf adapt to you or you to it?

Serviceability: It's -10⁰ C and your crew needs to splice and patch six more fiber cables at a street cabinet. How long will it take and how will it affect other concentration points in the area?

In today's high-density, high-demand environment, your patching solution has to deliver in all three areas—now, and years from now.

If it can't, we have one that can.

The Modular Front Patching System from CommScope.

Modular Front Patching System (MFPS)

CommScope's MFPS family of solutions is specifically designed to meet the current and future challenges of your dynamic high-density FTTx deployments. The innovative modular design features stackable 40mm elements. With as many as 288 patch positions in a 3HU size, the MFPS provides best-in-class fibre density.

Yet the space-saving design also gives technicians and installers all the accessibility they need. Each shelf element swings out individually for easy maintenance while protecting all other elements. The fibre management system secures each fibre in the tray while ensuring minimal bend and maximum optical performance.

Available in a variety of configurations and HU sizes, the MFPS family lets you easily customize your patching and splicing capabilities for each cabinet. Modular splitter shelves let you scale on demand, so you can defer your CapEx when you're ready, not before.
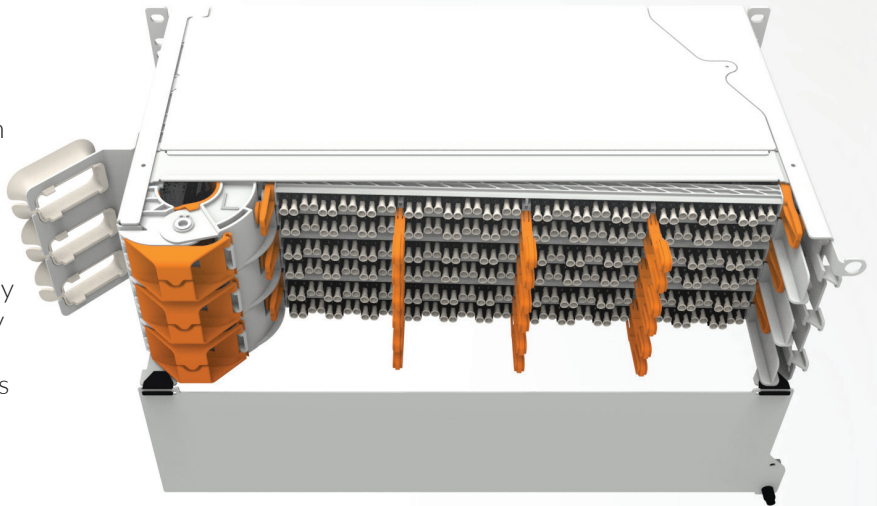
Capacity

- Compact and stackable 40mm modules

- Total of 48, 72, 96, 144, 192, 216 or 288 patch positions per shelf

- Highest density of any front panel patch and splice solution

Flexibility

- Available as: Splice/patch, patch/patch, pre-cabled, with splitters/ WDMs

- 1, 2, and 3HU sizes

- SC or LC connector

- Add capacity as you need with modular splitter shelves

Serviceability

- Full front panel access and port-level fiber identification

- Shelf remains closed for all patching operations

- Engineered fiber guides and bend control elements

- Minimal impact on live fibers during service

The MFPS family of patching solutions

The MFPS family of solutions provides a range of configurations, densities and sizes.
So you have one reliable solution for all your FTTx patching applications.

Select your capacity

The MFPS family features our 48, 72 and 96 Series products, which range in capacity from 48 to 288 patch positions. Each series offers one, two and 3HU modules that fit a standard 19-inch rack opening. The number of patch positions is designed to match the fiber counts of most outside plant cables.

MFPS Series		48		72	96
Connector type		SC	LC	LC	LC adapter pack
19"	1HU	48	48	72	96
	2HU	96	96	144	192
	3HU	144	144	216	288

Lower CapEx — Less OpEx — Greater peace of mind

It can easily cost $20,000 or more to build and provision a fiber aggregation node, such as a street cabinet or PoP house. With the ability to run more fiber from each node, the MFPS family of patching solutions can help reduce the total nodes needed. And because you can add capacity as you grow, there is no need to pay for it up front. The result? Lower overall CapEx and lower cost per subscriber.

At the same time, the MFPS solutions enable technicians and installers to work more efficiently and quickly in any conditions. Full front panel patching, port-to-cable identification and protected shelf access save time while minimizing mistakes and the chance of service interruptions. So you can lower your OpEx while you raise your overall quality of service.

And finally, the name on the outside means better performance, innovation and experience on the inside. A recognized global leader in fiber network solutions, CommScope understands your day-to-day challenges and has the technical expertise and global resources to help ensure your success. End-to-end, we know fiber—and how to help you do more with it.

Choose your configuration

In addition, every module size in each series is available as splice/patch, patch/patch, pre-cabled and splitter/WDM designs. So you can configure each shelf based on capabilities you need.

- Splice/Patch Shelf is delivered with 900µm pigtails already installed and ready for splicing.
  Each stackable splice tray is designed for single element splicing.

- Patch/Patch Shelf comes with adapters only. Extra storage capacity is located in the shelf interior.

- Pre-Cabled Shelf is factory-spliced and ready for full front side patching.
  It includes 10, 20 or 50m of cable, with a variety of cable types available.

- Splitter/WDM Module extends your capacity with a range of splitters and configurations.

MFPS - **X X** D - **X** - **X X XX** - **XXX**

(Position markers: 1, 2 above first two X's; 3 above third X; 4, 5, 6 above next group; 7 above last group)

Product height

1	K	44mm - 19 inch
	J	88mm - 19 inch
	I	125mm - 19 inch

Drawer density

2	H	HD (48 fibers/HU) LC/SC
	E	ED (72 fibers /HU) LC only
	X	XD (96 fibers /HU) LC only

Kit type

3	P	Panel

Product configuration

4	P	Patch/patch configuration
	S	Splice/patch configuration

Orientation

5	N	patch-patch - right front
	M	patch-patch - left front
	I	splice-patch - SMOUV / right front
	K	splice-patch - SMOUV / left front

Connector/adaptor type

6	S1	SC-UPC C grade - HD
	S2	SC-APC C grade - HD
	L1	LC-UPC C grade - HD-ED-XD
	L2	LC-APC C grade - HD-ED-XD
	SF	SC-UPC B grade - HD
	SG	SC-APC B grade - HD
	LF	LC-UPC B grade - HD-ED-XD
	LG	LC-APC B grade - HD-ED-XD

Number of patch positions

7	048	
	072	
	096	Normally determined by density and #HU, can be some exceptions in customer-specific configurations (use of blind plugs)
	144	
	192	
	288	

The MFPS family of solutions provides a range of configurations, densities and sizes. So you have one reliable solution for all your FTTx patching applications.

Take the next step.

CommScope (NASDAQ: COMM) helps companies around the world design, build and manage their wired and wireless networks. Our network infrastructure solutions help customers increase bandwidth; maximize existing capacity; improve network performance and availability; increase energy efficiency; and simplify technology migration. You will find our solutions in the largest buildings, venues and outdoor spaces; in data centers and buildings of all shapes, sizes and complexity; at wireless cell sites and in cable headends; and in airports, trains, and tunnels. Vital networks around the world run on CommScope solutions.

COMMSCOPE®