

# Modular Front Patching System

For all your high-density FTTx deployments

COMMSCOPE®

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.

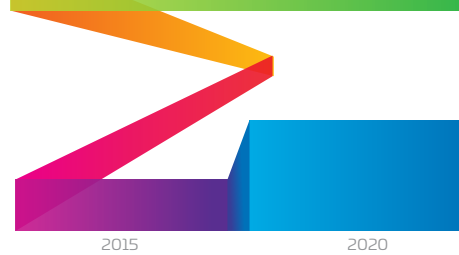
Meanwhile, competition in your markets is raging as other MSOs (Multi Service Operators) rush to deploy more IP-based services to more customers. The pressure is on to rollout quickly while reducing your CapEx and OpEx wherever possible. In this environment, there are no small decisions. Especially when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

## 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?

## The average FTTH household

Generated 68 GB in 2015



Which will increase to  
**138 GB** by 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>

## 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.

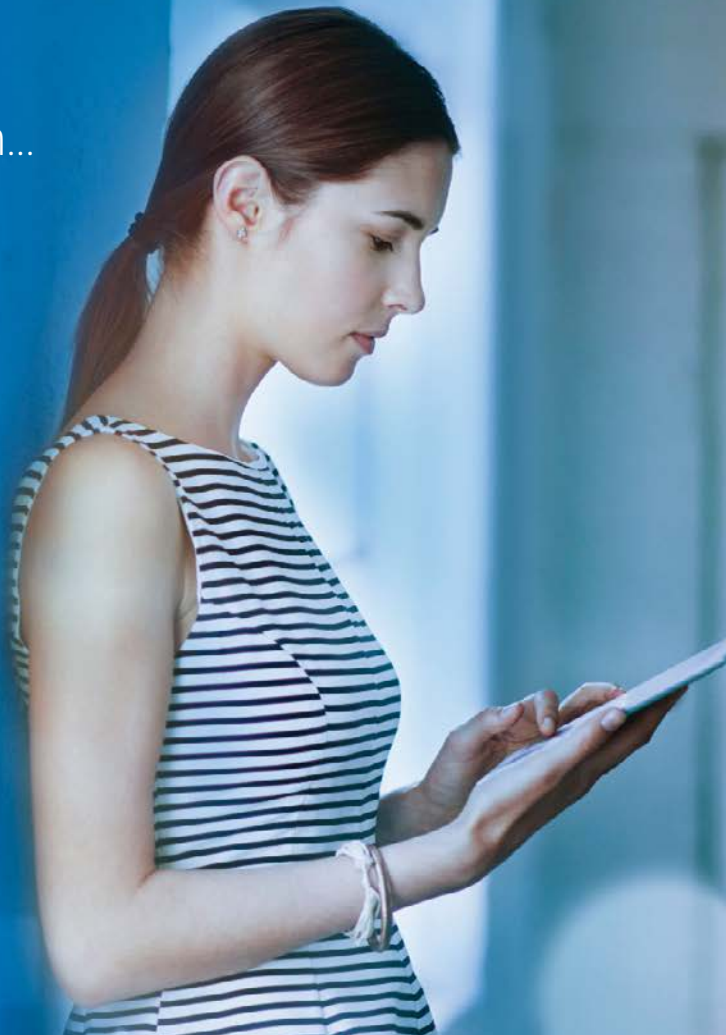
**Flexibility:** The environment inside and outside every access node is different: connector configurations, density requirements, functional capabilities. Does your patching shelf adapt to you or you to it?

**Serviceability:** It's -10° 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.

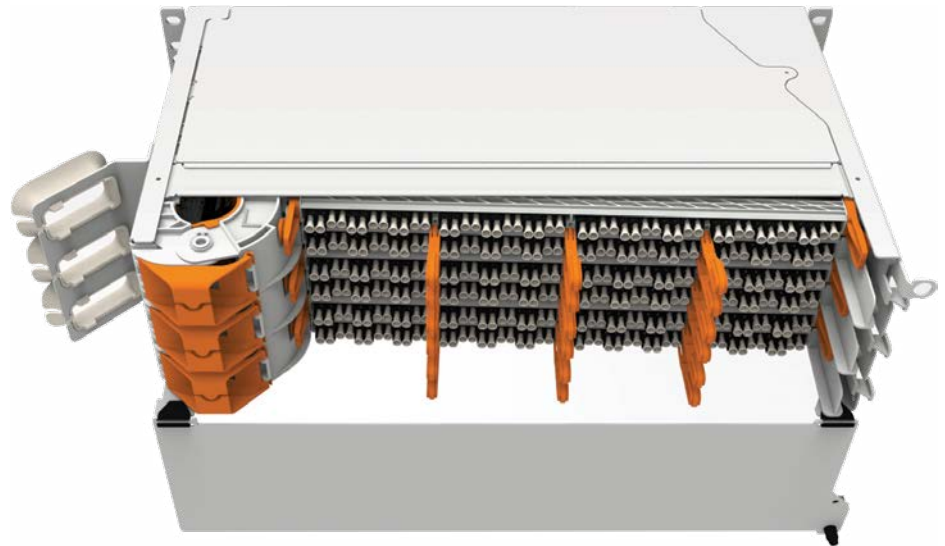


# Modular Front Patching System (MFPS)

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.



## 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
  - 1, 2, and 3HU sizes
  - SC or LC connector



## 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

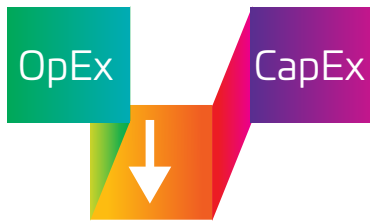
The MFPS family of solutions provides a range of configurations, densities and sizes. So you have one reliable solution for all your FTTx patching applications.

## 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

\* The usage of 1.2mm patch cords is recommended



## 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.

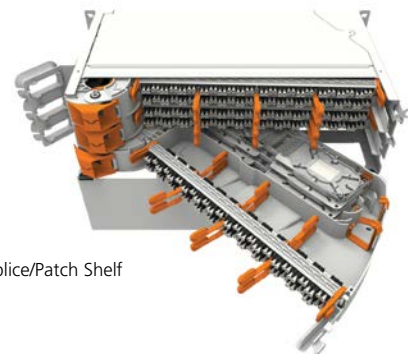
At the same time, the MFPS solutions enable technicians and installers to work more efficiently and quickly in any conditions. Full front panel patching, port-to-cable identification and protected shelf access save time while minimizing mistakes and the chance of service interruptions. So you can lower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

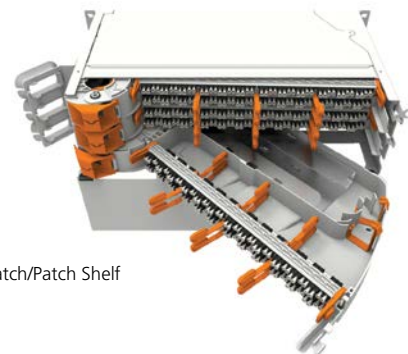
## Choose your configuration

In addition, every module size in each series is available as splice/patch, patch/patch. So you can configure each shelf based on capabilities you need.

- Splice/Patch Shelf is delivered with 900µm pigtailed 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.

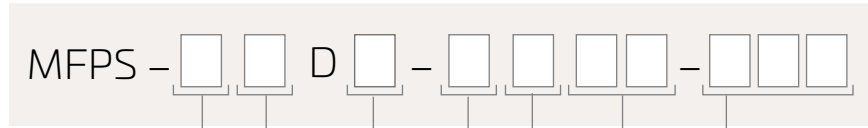


Splice/Patch Shelf



Patch/Patch Shelf

# Ordering Information



## Product height

K	44mm – 19 inch
J	88mm – 19 inch
I	125mm – 19 inch

## Drawer density

H	48 fibers/HU LC/SC
E	72 fibers /HU LC/SC
X	96 fibers /HU* LC/SC

\* The usage of 1.2mm patch cords is recommended

## Kit type

P	Panel
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## Port configuration

P	Patch/patch configuration
S	Splice/patch configuration

## Orientation

N	patch-patch – right front
M	patch-patch – left front
I	splice-patch – SMOUV/right front
K	splice-patch – SMOUV/left front
J	splice/patch – ANT/right front
L	splice/patch – ANT/left front

## Number of patch positions

048	Normally determined by density and #HU
072	
096	
144	
192	
216	
288	

## Connector/adaptor type

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

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.

## Ordering Information *continued*

### 48 Series (48 fibers – indoor/outdoor LSZH - CPR class: Dca)

MFPS – KHD–P–C    –048–   –OF

**Opening direction**

Q	Right
R	Left

**Connector/adaptor type**

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

**Cable length**

10	10m
20	20m
30	30m

### 48 Series (96 fibers – indoor/outdoor LSZH – CPR class: Dca)

MFPS – JHD–P–C    –096–   –OK

**Opening direction**

Q	Right
R	Left

**Connector/adaptor type**

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

**Cable length**

10	10m
20	20m
30	30m

## Ordering Information *continued*

### 72 Series (72 fibers – indoor/outdoor LSZH - CPR class: Dca)

MFPS – KED–P–C    –072–   –OG

**Opening direction**

Q	Right
R	Left

**Connector/adaptor type**

L1	LC-UPC C grade – HD-ED-XD
L2	LC-APC C grade – HD-ED-XD
LF	LC-UPC B grade – HD-ED-XD
LG	LC-APC B grade – HD-ED-XD

**Cable length**

10	10m
20	20m
30	30m

### 96 Series (96 fibers – indoor/outdoor LSZH – CPR class: Dca)

MFPS – KXD–P–C    –096–   –OK

**Opening direction**

Q	Right
R	Left

**Connector/adaptor type**

L1	LC-UPC C grade – HD-ED-XD
L2	LC-APC C grade – HD-ED-XD
LF	LC-UPC B grade – HD-ED-XD
LG	LC-APC B grade – HD-ED-XD

**Cable length**

10	10m
20	20m
30	30m

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at [commscope.com](https://commscope.com)

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BR-1110701-EN (04/19)