

Modular Front Patching System

For all your high-density FTTx deployments

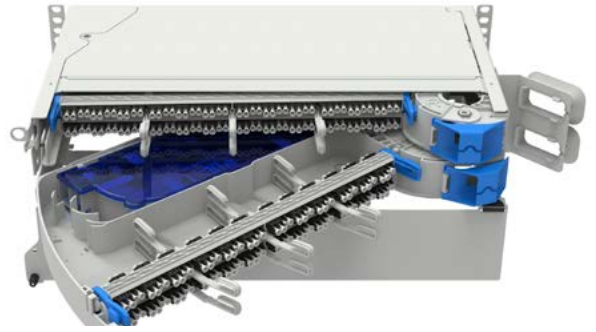
COMMSCOPE®

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?



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 3RU size, the MFPS provides best-in-class fibre density.

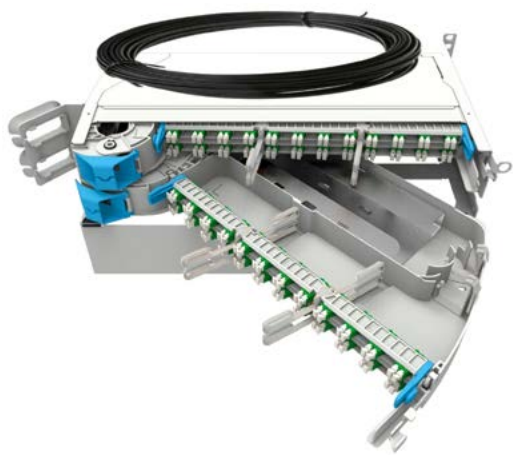
Yet the space-saving design also gives technicians and installers all the accessibility they need. Each module swings out individually for easy maintenance while protecting all other elements. The fibre management system secures each fibre in the tray while ensuring minimal bend and maximum optical performance.

Available in a variety of configurations and RU sizes, the MFPS family lets you easily customize your patching and splicing capabilities for each cabinet.

Our pre-cabled option allows you to avoid the high cost of field splicing, and makes installation faster. We offer indoor/outdoor cable options and various lengths which allows for flexibility in placement (e.g. move splice to nearest closure to the CO/POP/cabinet).

The MFPS splitter Panel comes with high quality factory pre-installed splitters and is available for all common splitter options.

It offers the optimal combination of intuitive plug and play installation on day one with long term usable density and network manageability.



Capacity

- Compact 40mm modules available in 1, 2 and 3 RU chassis
- 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
- Cable accessories included for back mounting or inside the shelf
- Mounting brackets included for 19" and Etsi Frames
- SC or LC connector
- Ribbon capability
- Pre-installed splitter option



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

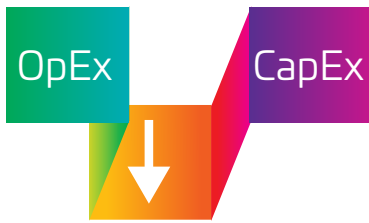
The MFPS family of solutions provides a range of configurations, densities and sizes. So you have one reliable solution for all your FTTx patching applications.

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 3RU 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"	1RU	48	48	72	96
	2RU	96	96	144	192
	3RU	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.

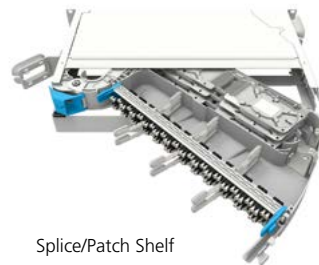
And finally, the name on the outside means better performance, innovation and experience on the inside. A recognized global leader in fiber network solutions, CommScope understands your day-to-day challenges and has the technical expertise and global resources to help ensure your success. End-to-end,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

Choose your configuration

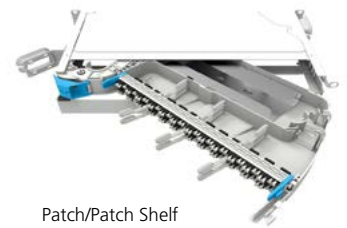
In addition, every module size in each series is available as splice/patch, patch/patch and with integrated splitters (only 1RU). So you can configure each shelf based on capabilities you need.

- 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.

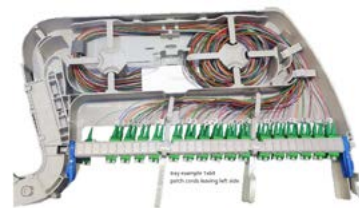
Splitter panels are available in a 1RU panel with 18x 1:2 up to 1x 1:64 (2:N available up on request).



Splice/Patch Shelf



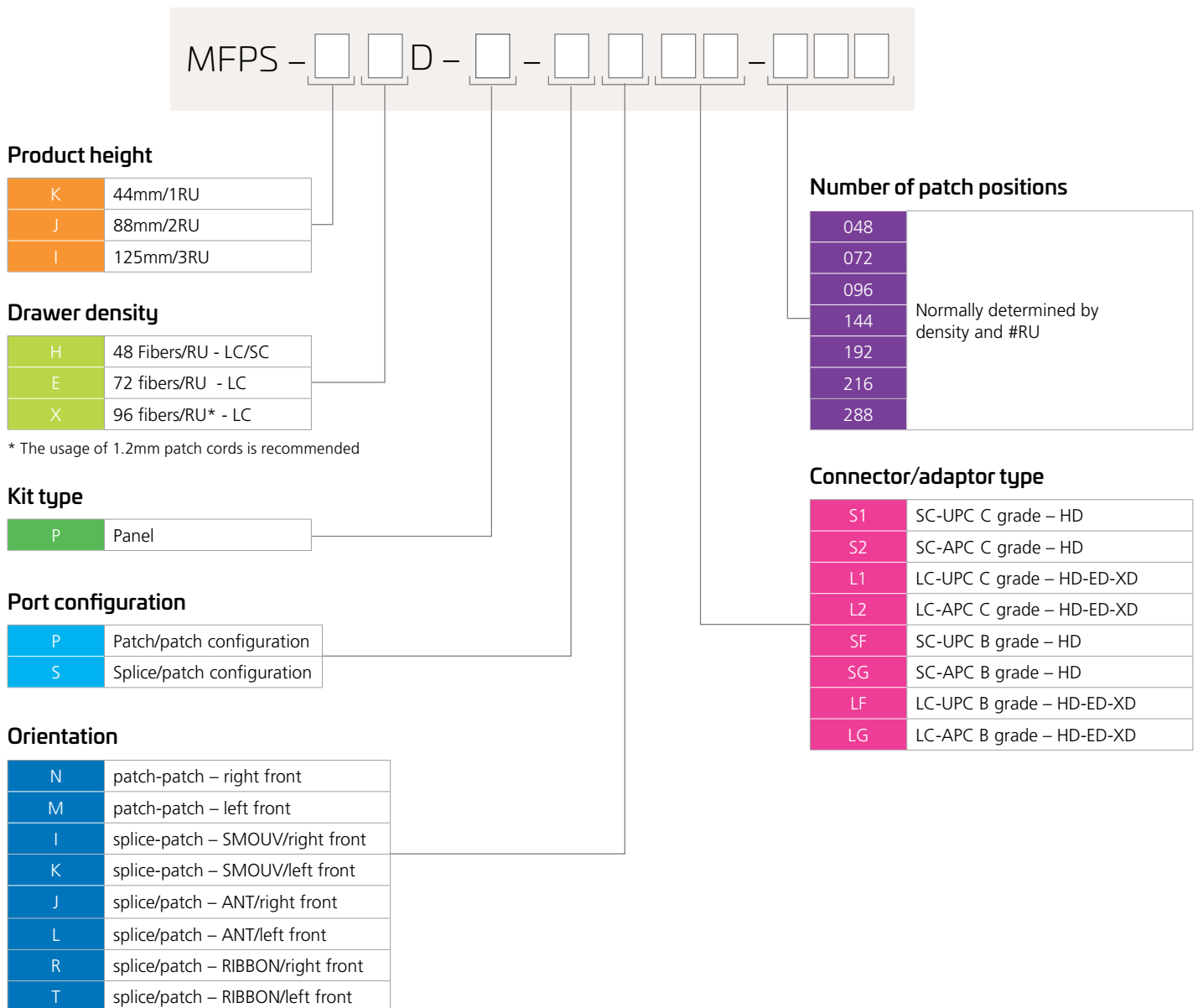
Patch/Patch Shelf



MFPS tray with 1x64

Ordering Information

Standard configurations - Patch/patch and Splice/patch



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*

Pre-cabled configurations

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

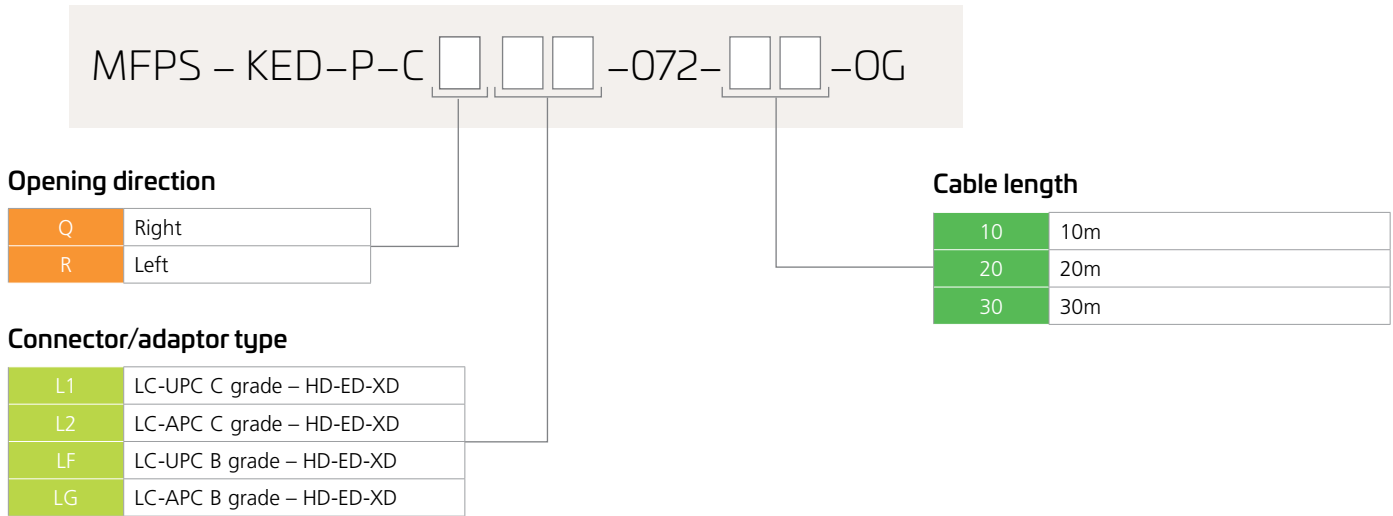
S1	SC-UPC C grade – HD
S2	SC-APC C grade – HD
L1	LC-UPC C grade – HD-ED-XD
L2	LC-APC C grade – HD-ED-XD
SF	SC-UPC B grade – HD
SG	SC-APC B grade – HD
LF	LC-UPC B grade – HD-ED-XD
LG	LC-APC B grade – HD-ED-XD

Cable length

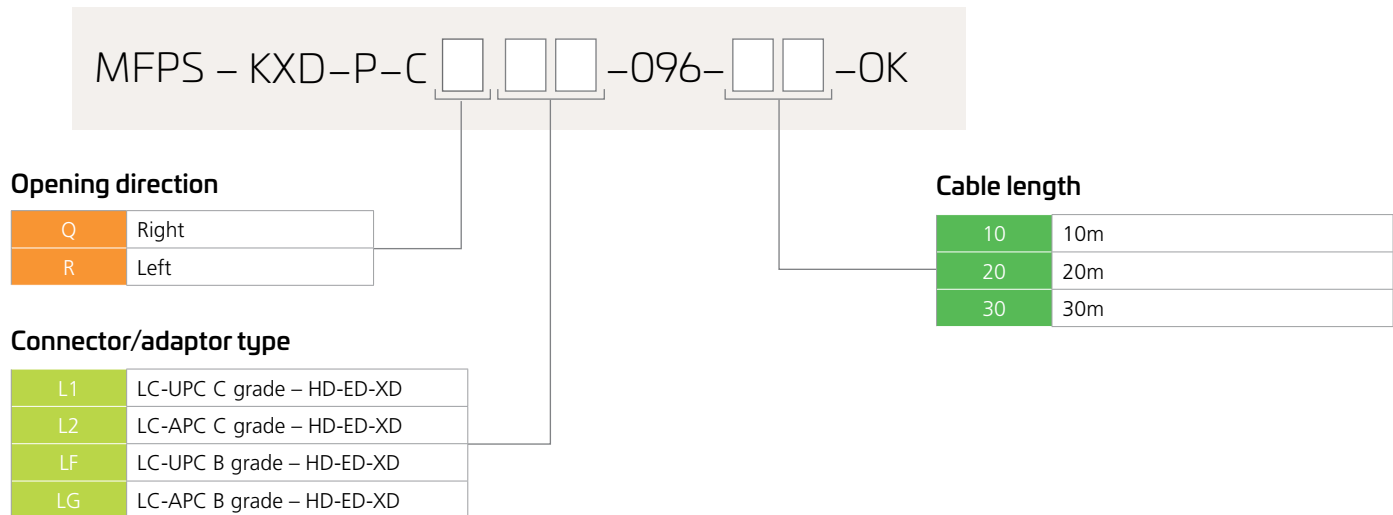
10	10m
20	20m
30	30m

Ordering Information *continued*

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



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



Ordering Information *continued*

Splitter configurations

MID	Description	Opening direction	Connector type	Grade	Split Ratio	Number of splitters	Insertion loss MAX (dB)	Uniformity MAX (dB)	RL Min (dB)	PDL MAX (dB)	Directivity MIN (dB)
760259679	MFPS-KED-P-YRLG-18102P	Right	LC/APC	B	1x2	18	3.7	0.6	55	0.2	55
760259680	MFPS-KED-P-YLLG-18102P	Left	LC/APC	B	1x2	18	3.7	0.6	55	0.2	55
760259681	MFPS-KED-P-YRLG-12104P	Right	LC/APC	B	1x4	12	7.1	0.7	55	0.2	55
760259682	MFPS-KED-P-YLLG-12104P	Left	LC/APC	B	1x4	12	7.1	0.7	55	0.2	55
760259683	MFPS-KED-P-YRLG-06108P	Right	LC/APC	B	1x8	6	10.4	1.0	55	0.2	55
760259684	MFPS-KED-P-YLLG-06108P	Left	LC/APC	B	1x8	6	10.4	1.0	55	0.2	55
760259685	MFPS-KED-P-YRLG-04116P	Right	LC/APC	B	1x16	4	13.7	1.3	55	0.3	55
760259686	MFPS-KED-P-YLLG-04116P	Left	LC/APC	B	1x16	4	13.7	1.3	55	0.3	55
760259687	MFPS-KED-P-YRLG-02132P	Right	LC/APC	B	1x32	2	17.0	1.6	55	0.3	55
760259688	MFPS-KED-P-YLLG-02132P	Left	LC/APC	B	1x32	2	17.0	1.6	55	0.3	55
760259046	MFPS-KED-P-YRLG-01164P	Right	LC/APC	B	1x64	1	20.5	2.0	55	0.4	55
760259047	MFPS-KED-P-YLLG-01164P	Left	LC/APC	B	1x64	1	20.5	2.0	55	0.4	55

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

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