

OCFPS 1U-C/D

Coarse and Dense Wavelength Division Multiplexers in Front Patching Shelf

Coarse and dense wavelength division multiplexing techniques combine (multiplex) multiple signals with different wavelengths in one common fiber. The same components can also be used to separate the wavelengths (de-multiplex) at the remote location.

These devices are integrated into CommScope's 1RU 19-inch front patching shelves. This allows easy integration of optical components in outdoor cabinets or rack mount applications.

Applications

- CWDM upgrades in metro networks
- DWDM transmission in long-haul metro networks
- Increased capacity between the central office and the headend in hybrid fiber coax (HFC) networks
- CWDM overlay in passive optical network (PON) architectures
- Local area networks (LAN)

The components are based on TFF (thin-film-filter) technology. We can also mount our range of compact CWDM modules in these shelves to offer a low-loss solution based on integrated free-space optics. All our CWDM and DWDM components are qualified for outdoor use.

Advantages

- Consistent performance
- Low optical loss
- Low polarization sensitivity
- Excellent mechanical and environmental characteristics
- Fast installation and commissioning
- Front and back mounting
- Identification card included

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Ordering Information Coarse WDM

OCFPS1U - C X X X X X X

Type	
M	Multiplexing
D	Demultiplexing
X	Double demux (for 2 fiber system)
Y	Double mux (for 2 fiber system)

Number of Channels			
8	8 channels	N	10 channels
P	11 channels	G	12 channels
S	16 channels	O	18 channels

Starting Wavelength	
27	1271 nm
29	1291 nm
⋮	⋮
61	1611 nm

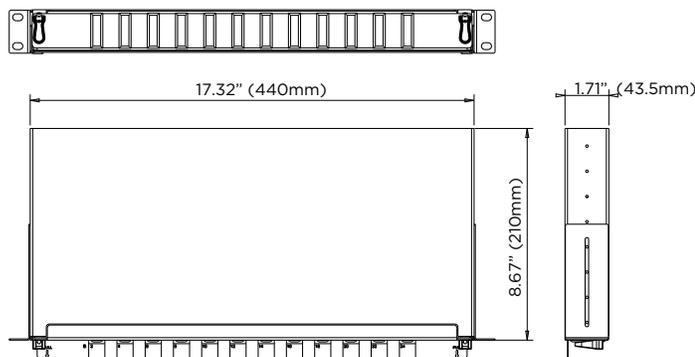
Test Port	
T	Test port
2T	Tx and Rx test ports

Connector Type		
SC	LC	Min. return loss
S1	L1	50 dB (UPC)*
S2	L2	60 dB (APC 8°)*
S3		60 dB (APC 9°)*

* UPC Ultra polished physical contact
* APC Angled polished physical contact

Channel Spacing/Sequence	
1	20 nm e.g. 1271, 1291, 1311,...
2	40 nm e.g. 1271, 1311, 1351,...
3	20 nm + 1310 nm port
4	20 nm + upgrade port
5	20 nm + upgrade port + 1310 nm
6	40 nm + upgrade port e.g. 1271, 1311, 1351,...
A	Skipped channels

Dimensions



Example

OCFPS1U-CYN435L2-2T

Front patching shelf with two CWDM modules for a two fiber system. Each module has 10 wavelength channels (1431 nm, 1451 nm, ..., 1611 nm), upgrade port and 1310 nm port. 30 LC/APC connectors, Tx and Rx test ports.

Performance Specifications

Please refer to RUD proposal 5336 (CWDM for outside plant environment). The compact modules are specified in RUD 5141.

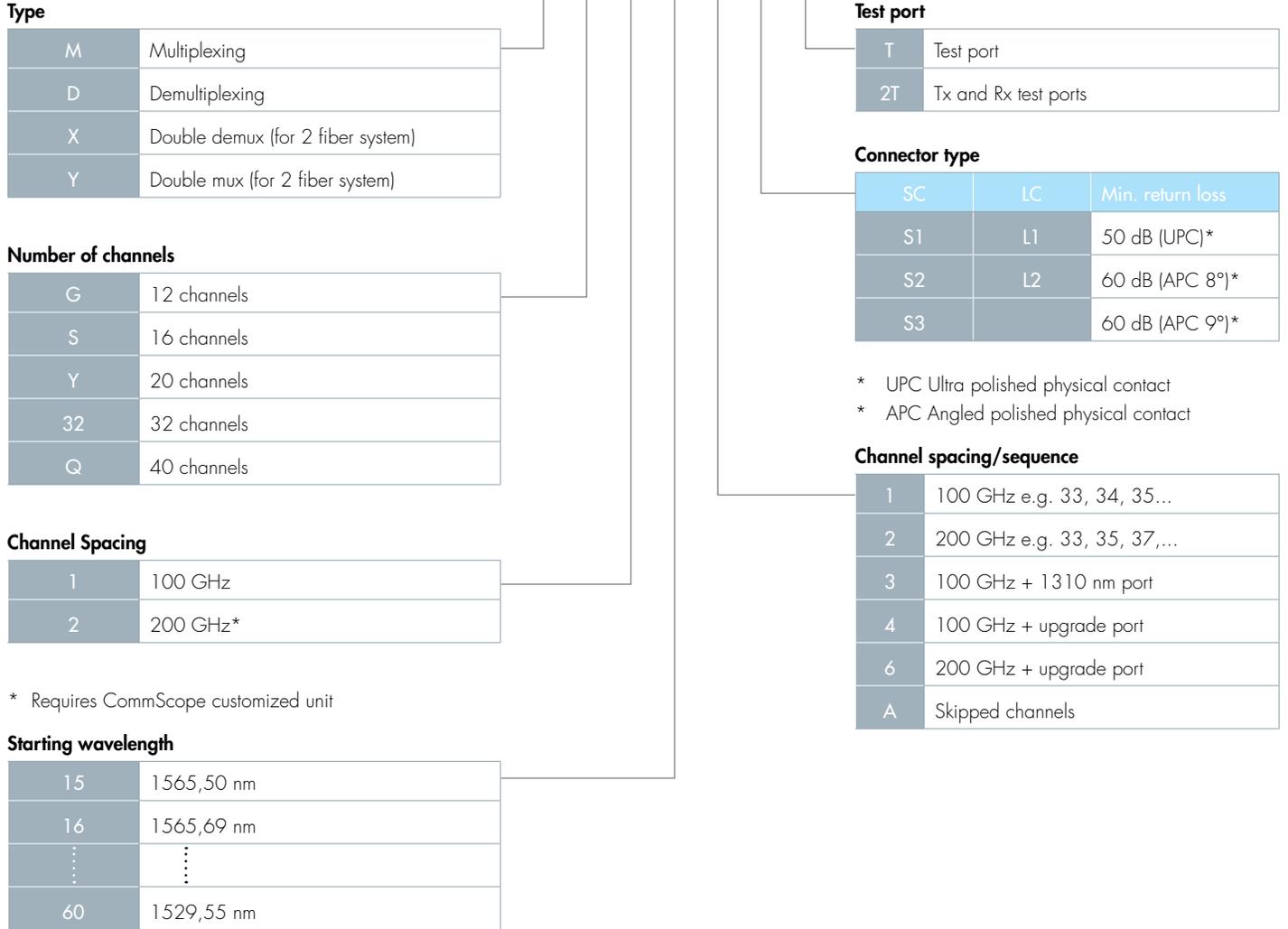
Note: Other configurations available upon request. To ensure you receive the component best suited to your requirements, please contact CommScope for assistance.

OCFPS1U-C/D

Coarse and Dense Wavelength Division Multiplexers in Front Patching Shelf

Ordering Information Dense WDM

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Example

OCFPS1U-DMQ120112-2T

Front patching shelf for multiplexing 40 DWDM channels, single fiber solution, starting at ITU channel 20 with 100GHz filters and channel spacing, LC/APC connectors, TX and Rx test ports.

OCFPS1U-DYQ120112-2T

Front patching shelf for multiplexing 40 DWDM channels, dual fiber solution, starting at ITU channel 20 with 100GHz filters and channel spacing, LC/APC connectors, TX and Rx test ports.

Performance Specifications

Please refer to RUD proposal 5400.

Note: Other configurations available upon request. To ensure you receive the component best suited to your requirements, please contact CommScope for assistance.



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