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## FDH 4000 & 5000 Plug-and-Play CDWDM Module, 20-channel, ITU 40-59, SC/APC

- Rugged packaging is built for high performance, while the Plug-and-Play design reduces installation time
- Bend-optimized fiber and ruggedized extreme temperature cabling
- Easy to insert and remove without affecting adjacent splitters
- Reversible dust cap makes test and turn-up easy

### Product Classification

Regional Availability	Latin America   North America
Portfolio	CommScope®
Product Type	DWDM module
Product Series	FDH 4000   FDH 5000   FPS

### General Specifications

Device Type	Plug-and-play module
Functionality	Demultiplexing   Multiplexing
Application	For use in FDH 4000 and 5000 cabinets
Distribution Type	20-channel DWDM
Interface, front	SC/APC
Interface, Input	SC/APC
Interface, Output	SC/APC
Interface, rear	SC/APC
Multiplexers, quantity	1
Port Type, optional	Tx and Rx test fibers

### Dimensions

Height	38.1 mm   1.5 in
Width	152.4 mm   6 in

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Depth	88.9 mm   3.5 in
Pigtail Length, Input	1.3 m   4.265 ft
Pigtail Length, Output	1.3 m   4.265 ft
Pigtail Diameter	1.2 mm   0.047 in

Optical Specifications

Fiber Type	G.657.A1
Channel Grid (Wavelength) Range	ITU 16 – 63 (1527.1 – 1564.81 nm)
Channel Spacing	100 GHz
Directivity Upgrade/Express, minimum	45 dB
Directivity, minimum	55 dB
Input Power, maximum	300 mW
Operating Wavelength Range (ITU Channels)	ITU 40-59
Polarization Dependent Loss, maximum	0.6 dB
Polarization Mode Dispersion, maximum	0.6 ps
Starting Channel Number	16
Starting Wavelength	1260 nm
Uniformity, maximum	3 dB
Wavelength Range	1260–1620 nm
Insertion Loss Express	< 2.0 dB
Insertion Loss Upgrade	< 4.4 dB
Insertion Loss Upgrade/Express Port, maximum	3.3 dB
Insertion Loss, DWDM Channel Port Paired, maximum	3 dB
Insertion Loss, DWDM Channel Port, maximum	3.5 dB
Insertion Loss, Test Port	18.2 – 21.5 dB
Isolation, Adjacent Channels, minimum	30 dB
Isolation, Non-adjacent Channels, minimum	40 dB
Isolation Express	≥ 12 dB
Isolation Upgrade	≥ 10 dB
Return Loss, minimum	45 dB
Ripple within Passband	0.7 dB

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Relative Humidity	5%–95%
Qualification Standards	Telcordia GR-1209-CORE   Telcordia GR-1221-CORE   Telcordia GR-326-CORE

Packaging and Weights

Packaging quantity	1
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

