

QSFP-DD 16F Cable Assemblies >

QSFP-DD 16F Cable Assemblies are designed to unleash 16-fiber high-speed capabilities tailored for the future of data centers, networking and a wide array of transceiver applications. These cable assemblies come equipped with jumpers and breakouts, empowering 16F systems to achieve groundbreaking performance with data rates of 400G, 800G and 1TB+.



ADVANTAGES AND FEATURES

Delivers 16-fiber connectivity for high data-rate applications

Design permits use with transceivers in 400G, 800G and 1TB+ applications

Helps ensure reliability and simplified installation with industry-standard MTP and LC connectors

MTP-to-MTP jumpers and MTP-to-LC breakouts are available

Supports high-speed QSFP-DD data transmission rates

16F design transmits up to 28 Gbps NRZ or 56 Gbps PAM-4, with 800 Gbps or higher aggregate

Provides quick and reliable connection

Cable assemblies are fitted with pushpull MTP connector housings

Fiber Types	Single-mode, multi-mode
Fiber Count	16
Connectors	MTP-to-MTP, MTP-to-MDC, MPO- to-MPO, MTP-to-LC
Cable Outside Diameter	3.00mm
Fiber (Core/Cladding)	9/125µm (SM), 50/125µm (MM)
Operating Temperatures	-40 to +70°C

Affords multiple options for increased design flexibility

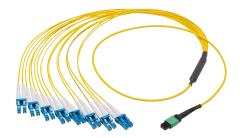
Cable options include single-mode and multi-mode OM3 or OM4 cable, MTP-to-MTP jumpers and breakouts, and various cable lengths

Offers improved return loss performance with angle-polished connectors (APCs)

SM and MM cable assemblies are available with APCs, while multimode cables are also available with ultra-polished connectors (UPCs)









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APPLICATIONS

Server and Storage

400G/800G/1TB+ systems Servers Switches Routers

Telecommunications

Optical transceivers Cable distribution and management Cloud computing





Servers and Storage

Switches

SPECIFICATIONS

Reference Information

Packaging: Individually bagged

Fiber Count: 16

Wire/Cable Types:

Single-Mode: SM

Multi-Mode: OM3, OM4 Connector

Types: MTP, MDC, MPO, LC

Designed in: Millimeters RoHS: Yes

Halogen Free: Yes

LSZH (Low Smoke Zero Halogen)

or OFNP (Plenum)

Optical

Connector Insertion Loss (IL):

Single-Mode: 0.75 dB

Multi-Mode: 0.35 dB

Connector Return Loss (RL):

Single-Mode: 55 dB (max.)

Multi-Mode: 25 dB (max.)

Low Loss Insertion Loss: 0.35 to 0.5 dB

Low Loss Return Loss:

Multi-Mode Flat Polish: 20 dB (max.)

Multi-Mode APC: 20 dB (max.)

Single-Mode APC: 50 dB (max.)

Physical

Connector Housings:

Single-Mode: Green APC

Multi-Mode: Aqua UPC or Green APC

Boot Type: Straight Cable Lengths:

Jumpers: 1.0 to 15.0m

Breakouts: 1.0m

Fiber Core Diameter: 9µm (SM) or 50µm (MM)

Fiber Cladding Diameter: 125µm Cable Outside Diameter: 3.00mm Operating Temperatures: -40 to +70°C