

PanNet™ MPO-16 (APC) to SN Trunk Cable Assemblies

SPECIFICATIONS

MPO-16 trunk cable assemblies shall allow for rapid deployment of high-density permanent links in a single assembly for data center applications requiring quick infrastructure deployment, such as main, horizontal, and zone distribution areas. Trunk cable assemblies shall optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. MPO-16 trunk cable assemblies are built with modular MPO connectivity and provide compatibility, flexibility, and system performance in all permanent link applications. MPO-16 trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability to support all MPO-16 applications including 400G-SR8, 800G-SR8 as well as 800GBASE-DR8. These ultra high bandwidth applications are used for high speed switch to switch links, and to support artificial intelligence (AI) and machine learning (ML) applications. MPO-16 trunk cable assemblies shall allow for rapid deployment and breakout of parallel applications such as 400GBASE-SR8 to duplex 8x50GBASE-SR.



STANDARDS - MEETS OR EXCEEDS

ISO/IEC 11801	TIA/EIA-568-C.1
TIA-604-5 (FOCIS-5)	TIA/EIA-568-C.3
GR-409-CORE	ICEA S-83-596
RoHS Compliant	

CONSTRUCTION

Cable type:	Indoor small diameter trunk
Cable jacket rating:	Plenum, LSZH, EuroClass B2Ca
Fiber types:	Multimode: OM4 50/125µm OM4+ Sig Core 50/125µm
Connector types end 'A':	MPO-16 APC female
Connector types end 'B':	SN Duplex
Fiber count:	16
Jacket color:	OM4: Aqua OM4+: Aqua

APPLICATIONS

Allows system designers to tailor configuration, reach, and breakout construction to application requirements; to minimize waste, optimize cable management, speed deployment, improve flexibility and manageability for lower installation costs. Small diameter trunk cable assemblies use 30%–40% less space which is ideal for high cable density applications.

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PHYSICAL PROPERTIES

Cable outside diameter (OD):	16-fiber: 5.4mm
Cable construction:	250µm Distribution cable
Minimum bend radius:	Under load: 20 × cable OD Static: 10 × cable OD
Cable tensile strength:	440N (100 lbs.)
Cable compressive load:	100 N/mm
Connector durability:	500 mating cycles*
Breakout outside diameter:	MPO: 4.0mm SN: 2.0mm
Breakout length:	MPO-16 APC End: 39 in. SN End: 32 in. equal breakout

*With proper cleaning and inspecting

ENVIRONMENTAL PROPERTIES

Operating temperature:	-20°C to 70°C (-4°F to 158°F)
Storage and shipping temperature:	-40°C to 70°C (-40°F to 158°F)
Installation temperature:	-10°C to 60°C (14°F to 140°F)

OPTICAL PROPERTIES

Maximum connector insertion loss:	Optimized Multimode MPO-16 APC:	0.35dB
	Optimized Multimode SN:	0.15dB
Minimum connector return loss:	Optimized Multimode MPO-16 APC:	30dB
	Optimized Multimode SN:	26dB

PART NUMBER CONFIGURATION

Part Number	Fiber Type	Fiber Count	Flame Rating	Connector End A	Connector End B	Polarity	Insertion Loss	Overall Length	
GZCYPO6FH5AF***	OM4	16	Plenum	MPO-16 F	SN	8-to-1 (U2)	Opt IL	*** Feet	
GZCYLO6FH5AM***			LSZH					*** Meters	
GZCYBO6FH5AM***			LSZH Euroclass B2ca						
GSCYPO6FH5AF***	OM4+		Plenum					*** Feet	
GSCYLO6FH5AM***			LSZH						*** Meters
GSCYBO6FH5AM***			LSZH Euroclass B2ca						

Example: GZCYPO6FH5AF*** = OM4, 16-Fiber HD Flex™ Indoor Small Diameter Trunk, Plenum, MPO-16 Female APC with 1-meter breakout to SN with 32-inch equal breakout, 8-to-1 (U2) Polarity, Optimized Insertion Loss, with pulling eye on end A - *** Feet
***Denotes lengths of 015-999 feet or 005-400 meters