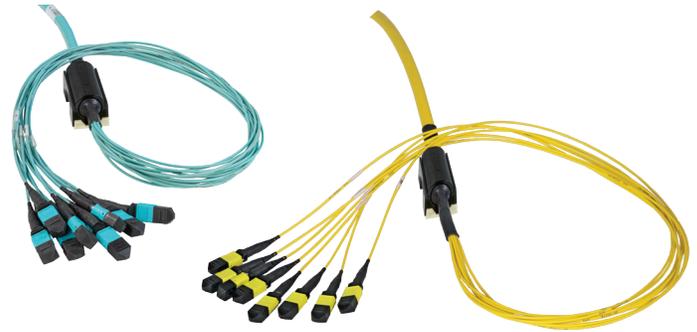


DENALI™ MPO Trunk Assemblies

DENALI MPO Trunk Assemblies provide high-performance, scalable plug-and-play connectivity ideal for high-density data center applications.

Built around a reduced-diameter MicroCore® cable, these trunks offer excellent bend tolerance and airflow efficiency ideal for routing through raceways, ducts, cable trays, and conduits in space-constrained environments.

DENALI trunks are available in Base-8, Base-12, Base-16 and Base-24 configurations to align with various network architectures. All connectors feature high-quality optical and mechanical properties for reliable performance.



Multimode (aqua) and Single-mode (yellow) MPO Trunk Assemblies

Features

Low-Loss MPO Connectivity

- Polarity options available for various applications
- MPO interface available with male or female connectors
- Base-8, Base-12, Base-16 and Base-24 connectors available
- MPO components feature superior optical and mechanical properties
- MTP® PRO connectors include field-reversible polarity and gender (multimode only)
- Low-loss Premium MPO connectors assures low insertion losses and power penalties in tight power budget, high-speed network environments

Installation-Friendly Design

- Optional pulling eye for easier installation
- Pre-defined breakout lengths reduce design complexity
- Reduced diameter MicroCore cable with 2.0 mm subunits (up to 144 fibers)
- Integrated Outback Clip mates directly with the trunk cable management area in all DENALI Housings



Integrated mounting clip

Specifications – Connector Performance

Parameter	SM	MM
Insertion Loss (Max)	0.35 dB	≤ 0.25 dB
Return Loss	0.35 dB	≤ 0.60 dB

Applications

- AI/ML
- Hyperscale
- Colocation
- Campus Networks
- Central Office and Office Backbone

Connector Specifications

Connector	Connector Ordering Code	Connector Housing Color	Fiber Type	Cable Jacket Color	IL (Typical dB)	IL (Max. dB)	Reflectance (Typical dB)
8F MPO Low Loss (unpinned)	EEF	Yellow	Single-mode G.657.A1 (BIF)	Yellow	0.1	0.35	-60
8F MPO Low Loss (pinned)	EEM	Yellow	Single-mode G.657.A1 (BIF)	Yellow	0.1	0.35	-60
8F MTP Pro (unpinned)	PFEF	Aqua	50 μm OM3, OM4	Aqua	0.1	0.35	-20
8F MTP Pro (pinned)	PFEM	Aqua	50 μm OM3, OM4	Aqua	0.1	0.35	-20
12F MPO Low Loss (unpinned)	ETF	Yellow	Single-mode G.657.A1 (BIF)	Yellow	0.1	0.35	-60
12F MPO Low Loss (pinned)	ETM	Yellow	Single-mode G.657.A1 (BIF)	Yellow	0.1	0.35	-60
12F MTP Pro (unpinned)	PFTF	Aqua	50 μm OM3, OM4	Aqua	0.1	0.35	-20
12F MTP Pro (pinned)	PFTM	Aqua	50 μm OM3, OM4	Aqua	0.1	0.35	-20

DENALI™ MPO Trunk Assemblies

Specifications – Cable Performance

Cabled Fiber Type (ISO/IEC 11801)	SM (OS1/OS2)	OM3	OM4
Attenuation Coefficient (dB/km)	≤0.38 Max (1310 nm) ≤0.25 Max (1550 nm) ≤0.34 Typ (1310 nm) ≤0.19 Typ (1550 nm)	≤ 3.5 Max (850 nm) ≤ 1.5 Max (1300 nm) ≤ 2.7 Typ (850 nm) ≤ 0.9 Typ (1300 nm)	≤ 3.5 Max (850 nm) ≤ 1.5 Max (1300 nm) ≤ 2.7 Typ (850 nm) ≤ 0.9 Typ (1300 nm)
Minimum Bandwidth: Overfilled Launch (MHz-km)	N/A	≥ 1500 (850 nm) ≥ 500 (1300 nm)	≥ 3500 (850 nm) ≥ 500 (1300 nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (MHz-km)	N/A	≥ 2000 (850 nm)	≥ 4700 (850 nm)

Ordering Information

CONNECTOR END A	CONNECTOR END B	CABLE TYPE	FIBER COUNT	FIBER TYPE	CABLE LENGTH	PULLING EYE	POLARITY	OBC	BREAKOUT DESIGN	BASE SELECTION	PLATFORM
ETF	ETF	PNB	144	SM	0003MT	AE	MF	RR	STD	12	DENALI
EEF = MPO Low Loss, SM, 8 fiber, Female EEM = MPO Low Loss, SM, 8 fiber, Male PFEF = MTP PRO-MM, 8 fiber, Female PFEM = MTP PRO-MM, 8 fiber, Male ETF = MPO Low Loss, SM, 12 fiber, Female ETM = MPO Low Loss, SM, 12 fiber, Male PFTF = MTP PRO-MM, 12 fiber, Female PFTM = MTP PRO-MM, 12 fiber, Male XXX = No Connector (Pigtail)	PNB = Plenum Sub-unitized MicroCore® (250 µm) PRW = 4.8mm Ruggedized Plenum MicroCore (250 µm) (8 & 12 fiber only) LNB = LSZH Sub-unitized MicroCore (250 µm)	008 = 8 012 = 12 024 = 24 048 = 48 072 = 72 096 = 96 144 = 144 288 = 288	SM = Single-mode G.657.A1 BIF M3 = Multimode OM3 M4 = Multimode OM4	XXXXMT = Meters XXXXFT = Feet XX = No Pulling Eye AA = Pulling Eye End A (12F-24F) AD = Pulling Eye End A (48F-96F) AE = Pulling Eye End A (144F) AO = Pulling Eye End A Blunt Cable	MF = Method F MA = Method A RR = Rock and Lock, Small, Both Ends (standard)	STD = DENALI Standard (800 mm) 08 = BASE-8 12 = BASE-12	DENALI				

Qualifications

Governing Body	Standard Code	Component
ITU	G.657.A1	Single-mode optical fiber only
Telcordia	GR-409	Cable
	GR-326/GR-1435	Connectors
EIA/TIA	568-A	Cable
RoHS	Compliant	Cable

Cable Temperature Specifications

	Temperature Range
Installation	0°C to +60°C (32°F to +140°F)
Operation	0°C to +60°C (32°F to +140°F)
Storage	-20°C to +70°C (-4°F to +158°F)