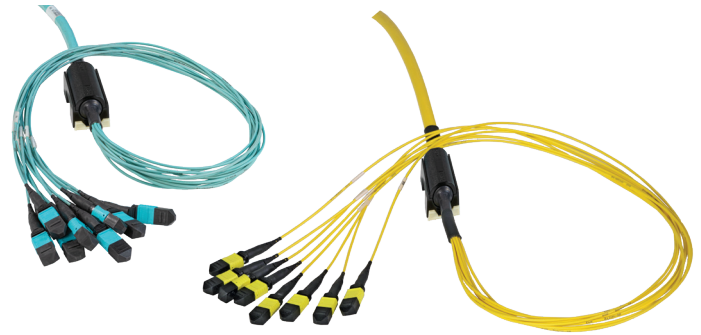


DENALI™ MPO Trunk Assemblies

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 | BASE SELECTION | PLATFORM |
|---|--|------------|-------------|---------------------------------|---------------|----------------------------|---------------|--|-------------------|---------------|
| ETF | ETF | PL | 012 | Q | 0001 | PA | MF | RS | 12 | DENALI |
| EEF = MPO Low Loss, SM, 8 fiber, Female | Options for Trunk & Pigtail Assemblies: | | 008 = 8 | Q = Single-mode G.657.A1 BIF | XXXX = Meters | | MF = Method F | | 08 = BASE-8 | DENALI |
| EEM = MPO Low Loss, SM, 8 fiber, Male | PL = Plenum MicroCore® (250 µm) | | 012 = 12 | L = Multimode OM3 | XXXXFT = Feet | | MA = Method A | | 12 = BASE-12 | |
| PFEF = MTP PRO-MM, 8 fiber, Female | P4 = 4.8 mm Plenum MicroCore (for 12F cables only) | | 024 = 24 | C = Multimode OM4 | | N = No Pulling Eye | | | | |
| PFEM = MTP PRO-MM, 8 fiber, Male | GE = LSZH MicroCore (250 µm) | | 048 = 48 | | | PA = Pulling Eye End A | | | | |
| ETF = MPO Low Loss, SM, 12 fiber, Female | | | 072 = 72 | | | PB = Pulling Eye End B | | HM = Hook & Loop OBC, Mixed | | |
| ETM = MPO Low Loss, SM, 12 fiber, Male | Options for Pigtail Assemblies Only: | | 096 = 96 | | | PC = Pulling Eye Both Ends | | HS = Hook & Loop OBC, Small | | |
| PFTF = MTP PRO-MM, 12 fiber, Female | GQS = 2.0 mm Plenum MicroCore (SWR) | | 144 = 144 | | | | | HL = Hook & Loop OBC, Large | | |
| PFTM = MTP PRO-MM, 12 fiber, Male | GES = 2.0 mm LSZH MicroCore (SWR) | | 288 = 288 | | | | | RS = Rock & Lock*, Small | | |
| XXX = No Connector (Pigtail) | | | | | | | | NC = Spool Only | | |
| | | | | | | | | Blank = Standard OBC | | |
| | | | | | | | | * NOTE – The "Rock and Lock" mounting clip is only available for trunk cable diameters up to 13 mm and will come standard on trunk cables with fiber counts up to 288. The "Hook and Loop" mounting clip is available by request only. | | |

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) |