

MTP/MPO RUGGEDIZED TRUNK CABLE



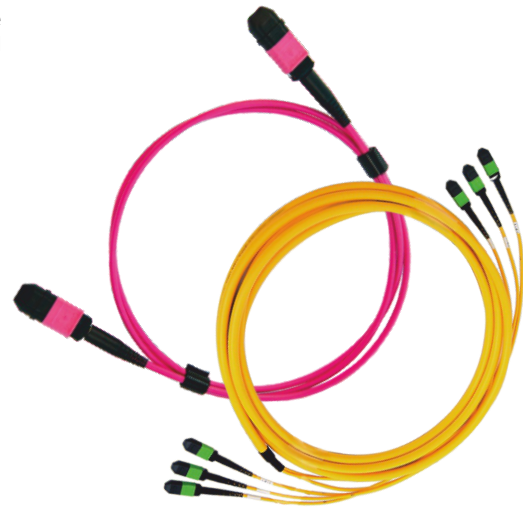
Norden MTP/MPO ruggedized Trunk cables provide an efficient way to install a large number of cables quickly. Ruggedized armoured Trunk cables are constructed with a stainless-steel tube over a standard patch cord with an outer jacket. The flexible metal tube limits the bending radius, preventing the optical fibre from breaking. This ensures a safe and durable optical fibre network system. It also provides high flexibility on unplugging and re-use. It is especially suitable for the areas that require rapid deployment of high-density backbone cabling in data centers, and high fibre environments for high performance. MTP Trunk Cables are factory pre-terminated and available with OM3, OM4, & SM assemblies.

STANDARDS

EIA/TIA, Telecordia GR-326-CORE Standards
 TIA 605-4 (FOCIS 5)
 IEC61754-7

FEATURES

- Easy to deploy - Factory-terminated systems can save installation and network reconfiguration time.
- Reliability - use high-standard components to ensure product quality.
- Factory terminated and tested
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Ideal for 400G High-Speed Network connection



MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

| | |
|----------------------------|---|
| Fibre Mode | Single-mode: OS2 9/125µm Multimode: OM3/OM4/OM5 50/125µm |
| Connector | MTP/MPO Standard & MTP/MPO PRO |
| Polarity | Type A, Type B, Type C |
| Peripheral Strength Member | Kevlar Yarn |
| Central Strength Member | FRP (36F to 144F) |
| Armouring | Stainless steel |
| Length | Standard & Custom Lengths |
| Cable Jacket | PVC, LSZH, OFNP & OFNR |
| Operating Temperature | -20°C ~ 70°C |
| Storage Temperature | -20°C ~ 70°C |

TRUNK CABLE PHYSICAL SPECIFICATIONS

| Fiber Count | Cable Diameter | Tensile Strength (N) | | Max Crush Resistance(N/100mm) | | Minimum Bend Radius (mm) | |
|-------------|----------------|----------------------|-------|-------------------------------|-------|--------------------------|-----------|
| | | Long | Short | Long | Short | Installation | Long Term |
| 8 | 3.0 | 80 | 150 | 500 | 2000 | 20D | 10D |
| 12 | 3.0 | 80 | 150 | 500 | 2000 | 20D | 10D |
| 24 | 4.2 | 80 | 150 | 500 | 2000 | 20D | 10D |
| 36 | 9.5 | 500 | 1200 | 500 | 2000 | 20D | 10D |
| 48 | 9.5 | 500 | 1200 | 500 | 2000 | 20D | 10D |
| 72 | 12.0 | 500 | 1200 | 500 | 2000 | 20D | 10D |
| 96 | 13.5 | 500 | 1200 | 500 | 2000 | 20D | 10D |
| 144 | 18.0 | 500 | 1200 | 500 | 2000 | 20D | 10D |

MTP/MPO RUGGEDIZED TRUNK CABLE



MTP / MPO TERMINATION

| Type | Single-mode (APC polish) | | Single-mode (PC polish) | | Multi-mode (PC polish) | |
|------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Fibre Count | 12,24,48,72,144 | | 12,24,48,72,144 | | 12,24,48,72,144 | |
| Fibre Type | G652D, G657A1, G657A2 | | G652D, G657A1, G657A2 | | 62.5/125, OM2, OM3, OM4 | |
| Maximum Insertion Loss | Ultra-Low Loss | Standard | Ultra-Low Loss | Standard | Ultra-Low Loss | Standard |
| | ≤0.35 dB 0.25 dB Typical | ≤0.70 dB 0.5 dB Typical | ≤0.35 dB 0.25 dB Typical | ≤0.70 dB 0.5 dB Typical | ≤0.35 dB 0.2 dB Typical | ≤0.7 dB 0.35 dB Typical |
| Return Loss | ≥60 dB | | ≥50 dB | | ≥30 dB | |
| Durability | ≥200 times | | ≥200 times | | ≥200 times | |
| Test Wavelength | 1310 nm / 1550 nm | | 1310 nm / 1550 nm | | 850 nm / 1300 nm | |

ORDERING GUIDE

| Ruggedized Trunk Cable | Connector Type | Gender Type | Number of MTP/MPO Connector Per End | Number of Fibre per MTP/MPO Connector | Polarity | Jacket Material | Polish | Fibre Type | Length (XXX) | Colour (X) |
|------------------------|--|-------------------------------------|--|--|-------------------------------------|--|------------------------|--|--------------|--|
| NC11 | 1:MTP Std 2:MTP ULL 3:MPO Std 4:MPO ULL | 1:Male 2:Female 3:Male-Female | 1:01 2:02 3:03 4:04 5:06 6:08 7:12 | 08: 08 Fibre 12: 12 Fibre 16: 16 Fibre 24: 24 Fibre 36: 36 Fibre 48: 48 Fibre 72: 72 Fibre 144: 144 Fibre | A: Type A B: Type B C: Type C | P: PVC L: LSZH E: Eca LSZH C: Cca LSZH Q: OFNR | P:PC U:UPC A:APC | OM3 OM4 OM5 OS2 7A1:G657.A1 7A2:G657.A2 | XXX | AQ: Aqua TQ: Turquoise TE: Teal LG: Lime Green YL: Yellow MG: Magenta |

For Example:

MTP/MPO Std Ruggedized Trunk cable:

NC11 — 1 2 1 12 B L P OM4 010 — X

Description for Standard Loss: MTP12/PC -MTP12/PC Female 12F, MM OM4 Type B, Standard Loss ruggedized Trunk Cable LSZH, 10 Mtr

Description For Ultra-Low Loss: MTP12/PC -MTP12/PC Female 12F, MM OM4 Type B, Ultra Low Loss ruggedized Trunk Cable LSZH, 10 Mtr

72 Core MTP/MPO Ruggedized Multi-Core Trunk cable

NC11 — 1 2 5 12 B L P OM4 010 — X

Description for Standard Loss: MTP12/PC X 6 Female 72F, MM OM4 Type B, Standard Loss, ruggedized Trunk Cable LSZH, 10 Mtr

Description For Ultra-Low Loss: MTP12/PC X 6 Female 72F, MM OM4 Type B, Ultra Low Loss, Multi-core ruggedized Trunk Cable LSZH, 10 Mtr