

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

ANSI/TIA/EIA 568.3-D, 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
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

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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	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-PC U : UPC-UPC A : APC-APC AU : APC-UPC AP : APC-PC	OM3 OM4 OM5 OS2 7A1:G657.A1 7A2:G657.A2	XXX	AQ: Aqua TQ: Turquoise TE: Teal LG: Lime Green YL: Yellow MG: Magenta

** Only the MTP Ultra Low Loss (ULL) connector type is available for MTP ruggedized trunk cables. **

** For Single Mode MTP connectors, only the APC polish type should be chosen. **

For Example:

MTP/MPO ULL Ruggedized Trunk cable

NC11 — 2 — 2 — 1 — 12 — B — L — P — OM4 — 010 — X

Description : 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 — 2 — 2 — 5 — 12 — B — L — P — OM4 — 010 — X

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

