

# MTP/MPO TRUNK CABLES

Norden MTP/MPO Trunk & Fan-out trunk patch cords provide an efficient way to install a large number of cables quickly. 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.

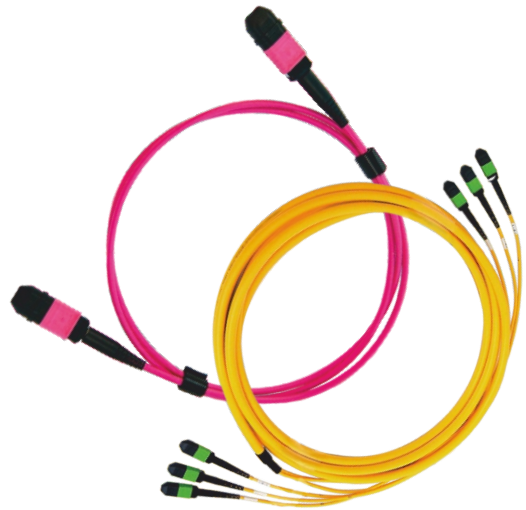
## STANDARDS

EIA/TIA, Telecordia GR-326-CORE Standards

TIA 605-4 (FOCIS 5)

IEC61754-7

LSZH: IEC 60332-1, IEC 60754, IEC 61034



## 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								
Connector Type	MTP -Male, Female; MPO-Male, Female								
Polarity	Type A, Type B, Type C								
Breakout/fanout Connectors	LC, SC, FC & Customized								
Breakout Length	0.5 -1.0m *								
Strength Member	Aramid Yarn								
Length	Standard & Custom Lengths								
Cable Jacket	PVC, LSZH, OFNP & OFNR								
Operating Temperature	-20°C ~ 70°C								
Storage Temperature	-20°C ~ 70°C								
Installation	0°C ~ 50°C								
Fibre Count	8	12	16	24	36	48	72	96	144
Pulling Eye OD (MTP)	19	19	19	19	19	19	35	35	38

\*For customized lengths, specify them in the product description



# MTP/MPO TRUNK CABLES

## TRUNK CABLE PHYSICAL SPECIFICATIONS

Fiber Count	Cable Diameter	MAX Installation Tension(N)	MAX Crush Resistance(N/dm)	Minimum Bend Radius (mm)	
				Installation	Long Term
8	3.0	200	500	20D	10D
12	3.0	200	500	20D	10D
24	3.0	200	500	20D	10D
36	7.5	600	1000	20D	10D
48	7.5	600	1000	20D	10D
72	8.4	600	1000	20D	10D
96	9.9	600	1000	20D	10D
144	12.0	600	1000	20D	10D

Performance Specifications	Multi Mode System (OM3)		Multi Mode System (OM4)		Single Mode System (OS2)	
	850 nm	1300 nm	850 nm	1300 nm	1310 nm	1550 nm
Maximum Attenuation (dB/km)	3.5	1.5	3.5	1.5	0.36	0.21

## MTP / MPO TERMINATION

Type	Single-mode (APC polish)		Single-mode (PC polish)		Multi- mode (PC polish)	
	Ultra-Low Loss	Standard	Ultra-Low Loss	Standard	Ultra-Low Loss	Standard
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	≤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	

## MTP/MPO FAN-OUT HYDRA CABLE

MTP/MPO fanout/ breakout cable assembly with one MTP/MPO connector on one end and multiple single-fibre connectors (LC, SC, FC) on the other end, designed for data distribution and routing to patch panels. It is used to transition from trunk backbone assemblies to the fibre rack system. These cables are fully configurable and available with a variety of cable and connector combinations.



# MTP/MPO TRUNK CABLES



## ORDERING GUIDE

Trunk Cable	MTP/MPO Connector Type	MTP/MPO Gender Type	Number of MTP/MPO Connector Per End	Number of Fibre Per MTP/MPO Connector
40	P: MPO Std R: MTP ULL N: MPO ULL K: MTP PRO ULL B: MPO Std with Push-pull Tab H: MTP Fan Out Hydra-Male D: MTP Fan Out Hydra-Female M: MTPULL Fan Out Hydra-Female E: MPO Fan Out Hydra-Male F: MPO Fan Out Hydra-Female S: MPO ULL Fan Out Hydra-Female Q: MPO ULL Fan Out Hydra - Male	1: Male 2: Female 3: Male - Female <b>Hydra Cables</b> 4: 08 LC Simplex 8: 06 LC Simplex 9: 12 LC Simplex A: 24 LC Simplex E: 72 LC Simplex U: 04 LC Duplex 5: 06 LC Duplex R: 04 Uniboot LC Duplex P: 06 Uniboot LC Duplex B: 08 LC Duplex C: 12 LC Duplex K: 24 LC Duplex D: 72 LC Duplex 6: 08 SC Simplex F: 12 SC Simplex G: 24 SC Simplex 7: 06 SC Duplex H: 12 SC Duplex	1: 01 2: 02 3: 03 4: 04 5: 06 6: 08 7: 12 8: 16 9: 1-2	08: 08 Fibre 12: 12 Fibre 16: 16 Fibre 24: 24 Fibre

Polarity	Jacket Materials	Fiber Type	Polish	Length (XXX)	Colour(X)
A: Type A B: Type B C: Type C  <b>0: Hydra Cable</b>	P: PVC L: LSZH F: LSZH (IEC 60332-3-24) E: Eca LSZH C: Cca LSZH Q: OFNR J: OFNP	OM3 OM4 OM5 OS2 7A1 : G657.A1 7A2 : G657.A2	P : PC-PC U : UPC-UPC A : APC-APC AU : APC-UPC AP : APC-PC	XXX	AQ :Aqua (OM3) TQ :Turquoise TE :Teal LG :Lime Green(OM5) YL :Yellow (OS2) VL :Violet (OM4)

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

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

\*\* Total number of fibre should be mentioned in product description. \*\*

### For Example:

MTP/MPO Trunk Cable:

40 — R — 1 — 1 — 12 — A — L — OM3 — P — 003 — AQ

Description for Ultra Low Loss: MTP12 / PC-MTP12 / PC male MM OM3 Type A, Ultra low loss Trunk Cable LSZH,03 Mtr -Aqua

40 — N — 2 — 9 — 24 — B — L — OS2 — A — 003 — YL

Description: MPO24F/APCx1 Female - MPO12F/APCx2 Female,24F SM OS2, Type B 0.5 Fan-out Ultra Low-Loss Trunk Cable, LSZH, 03 Mtr - Yellow

72 Core MTP/MPO Multi-Core Trunk Cable:

40 — P — 2 — 5 — 12 — B — L — OM4 — U — 003 — VL

Description: MPO12F / UPCx6 Female 72F MM OM4 Type B Multi-Core, Standard Loss,Trunk Cable LSZH, 03 Mtr - Violet

Description for Ultra Low Loss: MPO12F / UPCx6 Female 72F MM OM4 Type B Multi-Core Ultra low loss,Trunk Cable LSZH, 03 Mtr - Violet

MTP/MPO Fan-out Hydra Cable:

40 — H — A — 1 — 24 — 0 — L — OS2 — A — 002 — YL

Description: MTP24 / APCx1 Male-LC/APC 24 Simplex SM OS2, Fan-Out Hydra Cable LSZH, 02 Mtr- Yellow

