

MPO&MTP® Harness Cables Datasheet

MTP®/MPO Harness Cables Applications

The MTP®/MPO to LC Duplex Harness Cable is a high-performance fiber optic assembly designed to transition from high-density backbone trunk cables to standard duplex LC interfaces. Available in 8-fiber or 16-fiber MTP®/MPO connectors on one end, the cable breaks out into 4 or 8 LC duplex connectors on the other end, providing a simple and efficient solution for connecting parallel optics transceivers to duplex-based equipment.

Features

- MPO/MTP® - LC connector interface patch cord
- Available in Plenum (OFNP), Riser (OFNR), and LSZH Cable Jacket
- OS2, OM4 fiber modes
- Connector polish type support UPC or APC (8° angle)
- All connector ends are available in Male(Pinned) or Female(Pinless)
- Optional standard(0.35dB) or low-loss(0.20dB) MTP® / MPO connector
- Fully compatible with parallel optics transceivers

Standards Compliance

Fiber Optic Connectors and Structure Specifications

- IEC 61754-7
- IEC 61754-20
- TIA/EIA-604-5 (FOCIS-5)
- IEC 61300
- GR-1435-CORE

Fiber Types and Performance Standards

- TIA-568.3-D

- ISO/IEC 11801-1
- IEC 60793 / 60794
- ITU-T G.651.1 / G.652.D / G.657.A
- ANSI/TIA-942-A

Environmental protection and flame retardant certification

- RoHS / REACH
- UL 94 V-0
- IEC 60332-1 / -3
- UL 1666 / NFPA 262

Product Specifications

Connector Type	
Connector A	MTP® Female, Male / MPO Female, Male
Connector B	LC Duplex, SC Duplex, LC Simplex, SC Simplex, FC Simplex, ST Simplex
Polish Type	UPC, APC
Cable Jackets	
OS2 9/125 μm	Yellow
OM4 50/125 μm	Magenta
OM3 50/125 μm	Aqua
MTP®/MPO Connectors	
OS2 9/125 μm	Green
OM4 50/125 μm	Aqua (UPC), Green (APC)
OM3 50/125 μm	Aqua
LC Connectors	
OS2 9/125 μm	Blue (UPC), Green (APC)
OM4 50/125 μm	Beige
OM3 50/125 μm	Beige

MTP®/MPO Connector Technical Specification

Type	Single-mode (APC polish)	Single-mode (UPC polish)	Multi-mode (APC polish)	Multi-mode (UPC polish)
Fiber count	8,12,16 etc.	8,12,16 etc.	8,12,16 etc.	8,12,16 etc.
Fiber type	G.652.D/G.657.A1	G.652.D/G.657.A1	50/125 μm	50/125 μm

Maximum Insertion Loss	MTP: ≤0.35 dB(standard); ≤0.2 dB(Low Loss) MPO:≤0.35 dB(Low Loss)			
Return Loss	≥60 dB	≥50 dB	≥35 dB	≥30 dB
Durability	≥500-1000 times			
Test Wavelength	1310nm / 1550nm		850nm / 1300nm	
Attenuation	≤0.35dB/km; ≤0.21dB/km		≤2.3dB/km; ≤1.0dB/km	
Tensile Strength (Long Term/Short Term)	150/80N			
Cable Diameter	3.0mm			
Breakout Length	0.5m±50mm			
Minimum Bend Radius	OS2: 10.0mm, OM4: 7.5mm			

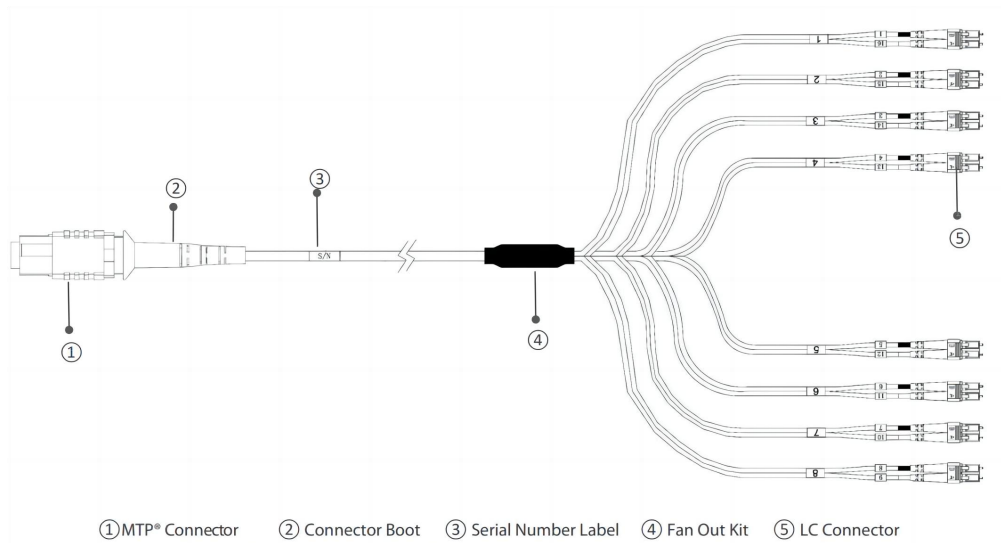
LC/SC/FC/ST Connector Technical Specification

Optical Characteristics	Description
Connector Insertion Loss	≤ 0.5 dB(Standard), ≤ 0.25 dB(Low Loss)
Connector Return Loss	SMF: UPC ≥ 50 dB, APC ≥ 60 dB MMF: UPC ≥ 30 dB
SMF Attenuation at 1310nm	≤ 0.4 dB/km
SMF Attenuation at 1550nm	≤ 0.3 dB/km
MMF Attenuation at 850nm	≤ 3.5 dB/km
MMF Attenuation at 1300nm	≤ 1.5 dB/km

Environmental Characteristics

Environmental Characteristics	Description
Operating Temperature	-10°C to 70°C (14 to 158°F)
Storage Temperature	-40°C to 85°C (-40 to 185°F)

Technical Drawing



Ordering Information

Product number	Description
S2MPOALCU8FB	MPO-8 APC(Female) to 4x LC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow
S2MTPALCU8FB	MTP®-8 APC(Female) to 4x LC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow
S2MPOALCU16F	MPO-16 APC(Female) to 8x LC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow
S2MTPALCU16F	MTP®-16 APC(Female) to 8x LC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow
M4MPOULCU8FB	MPO-8 UPC(Female) to 4x LC Duplex UPC Multimode (OM4) Harness Cable, Type B, LSZH, Magenta
M4MTPULCU8FB	MTP®-8 UPC(Female) to 4x LC Duplex UPC Multimode (OM4) Harness Cable, Type B, LSZH, Magenta
M4MTPALCU16F	MPO-16 APC(Female) to 4x LC Duplex UPC Multimode (OM4) Harness Cable, Type B, LSZH, Magenta
M4MPOALCU16F	MTP®-16 APC(Female) to 8x LC Duplex UPC Multimode (OM4) Harness Cable, Type B, LSZH, Magenta
S2MPOAMDCU8FB	MPO-8 APC(Female) to 4x MDC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow
S2MTPAMDCU8FB	MTP®-8 APC(Female) to 4x MDC Duplex UPC Single-mode (OS2) Harness Cable, Type B, LSZH, Yellow

Further Information:

Web www.naddod.com

Email For order requirements: sales@naddod.com
For customer service: support@naddod.com
For technical support: tech@naddod.com

For cooperation: agency@naddod.com

For other information: info@naddod.com

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