

MTP/MPO Harness Cable



MTP/MPO harness cables are a kind of breakout/fanout MPO cable assembly with one MTP/MPO connector on one end and multiple single-fiber connectors (LC, SC, FC, etc.) on the other end, designed for data distribution and routing to patch panels. It is used to transitioning from trunk backbone assemblies to fiber rack system. The harness cables are fully configurable, available with a variety of cable and connector combinations. For the hardware and equipment in the same cabinet, the longer patch cords can provide flexibility at any location, and the branch cables can be winded into the vertical cable organizer.

APPLICATION

- Data Center Interconnect
- High-Density Fiber Management
- Telecommunication Networks and CATV networks
- LAN/WAN Premises

STANDARDS COMPLIANCE

- TIA/EIA-568.3-D and ISO/IEC 11801
- IEC-61754 & EIA/TIA-604-5
- NFPA 262 or IEC 60332
- EN 50575
- Comply with GR-1435-CORE, GR-2866-CORE, GR-326-CORE
- Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

FEATURES

- Low loss performance
- MPO / MTP in 8/12/16/24/32 fibers interface for choices.
- Available in OS1, OS2, G.657A2, OM3, OM4 Fiber Grades – OM1 and OM2 available upon request
- Option for LSZH, OFNP or OFNR cable jacket
- 100% factory terminated and tested
- Pulling eyes are provided as an option to protect the fiber ends during installation
- Save installation and reconfiguration time

MTP/MPO Harness Cable

GENERAL SPECIFICATION

Construction		Description					
Fiber Count		8-288 Fibers					
Fiber Mode		Single mode:OS2/G657 (9/125um) Multimode:OM4 (50/125um),OM3 (50/125um)					
Fiber Brand		SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber					
Cable Jacket Ratings		Riser (OFNR) Plenum (OFNP) Low Smoke Zero Halogen (LSZH)					
Cable Jacket Color		OS2/G657: Yellow OM3: Aqua; OM4: Aqua/Magenta or Customized					
Polarity		A/B/C or Customized					
MTP/ MPO	Ferrule	12F, 16F, 24F, 32F					
	Ferrule Brand	US Conec, HANKUSAN, Nissin					
	Connector Type	Female, Male					
	Connector Brand	US Conec MTP, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO					
	Connector Color	Ferrule	SM(APC)	SM(PC)	OM3	OM4	customized
		Low loss	Yellow	Yellow	Aqua	Magenta	
		Standard	Green	Blue	Aqua	Magenta	
Boot Color		Green/Black/ or Customized					
Single-fiber connector		LC, SC, FC, etc.					
Pulling eye		Customized					
Operating Temperature		-20°C to +70°C					
Storage Temperature		-40°C to +85°C					

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TECHNICAL SPECIFICATION

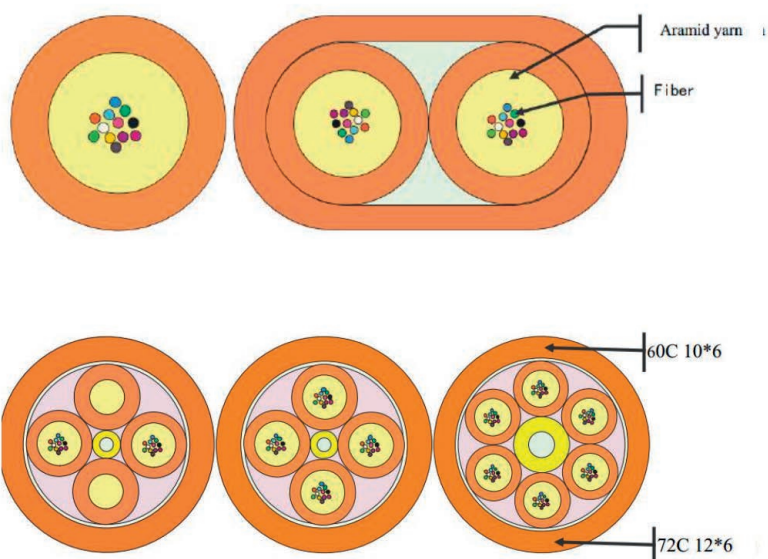
MPO / MTP Termination

Optical Properties	Single mode		Multimode	
Insertion Loss (dB)	Low loss	Standard	Low loss	Standard
	≤0.35(Typical:≤0.25)	≤0.75(Typical:≤0.4)	≤0.35(Typical:≤0.2)	≤0.5(Typical:≤0.35)
Return Loss (dB)	PC≥50; APC≥60		PC≥20; APC≥40	
Wavelength (nm)	1310/1550		850/1300	
Durability	≤0.3 (dB)typical change, 50 matings			

Generic Connector Termination

Optical Properties	Single mode	Multimode
Insertion Loss (dB)	≤ 0.2	≤ 0.2
Return Loss (dB)	PC ≥ 55 ; APC ≥ 60	PC ≥ 25
Wavelength (nm)	1310/1550	850/1300
Durability	≤ 0.2 (dB) typical change, 500 matings	

TYPICAL CABLE STRUCTURE



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Fiber Count	OD(mm)	Nominal Weight(kg/km)	Max. Tension(N)		Max. Crushing Resistance (N/100)	
			Short term	long Term	Short term	long Term
12	3.0±0.1	8.1	150	80	500	150
24	3.0±0.1	8.5	160	80	500	150
24	9.0±0.5	72	500	180	1000	300
36	9.0±0.5	78	500	180	1000	300
48	9.0±0.5	79	600	200	1000	300
60~72	11.2±0.5	126	1000	300	1000	300
96	13.5±0.5	178	1000	300	1000	300
144	17.5±0.5	285	1000	300	1000	300

Note: The actual weight of optical cable may have some tolerance against values stated above.

PULLING ELEMENTS

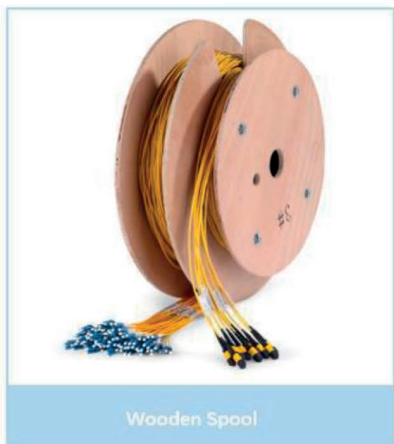


Net-tube pulling eye



Corrugated pipe pulling element

SPOOL PACKAGING



Wooden Spool