

## 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 transition 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 wound into the vertical cable organizer.

### Applications

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

### 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

**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

**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						
Ferrule	12F, 16F, 24F, 32F						
Ferrule Brand	US Conec, HANKUSAN, Nissin						
Connector Type	Female, Male						
MTP/ MPO	Connector Brand	US Conec MTP, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO					
	Connector Color	<b>Ferrule</b> <b>Low loss</b> <b>Standard</b>	<b>SM(APC)</b> Yellow Green	<b>SM(PC)</b> Yellow Blue	<b>OM3</b> Aqua Aqua	<b>OM4</b> Magenta Magenta	customized
	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						

Information and specifications are subject to change without notice.  
Please visit [www.china-tscom.com](http://www.china-tscom.com) for more information.



### Technical Specification

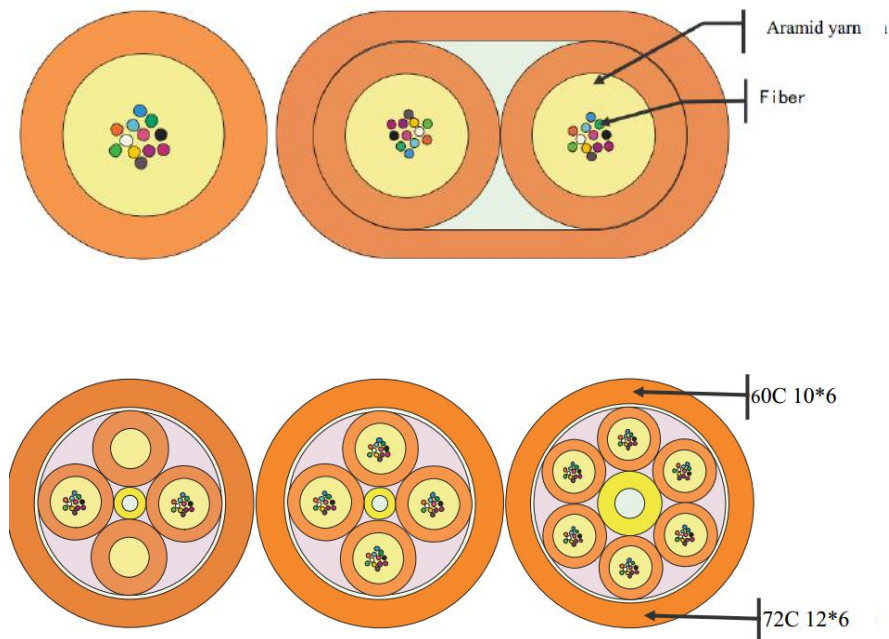
#### MPO / MTP Termination

Optical Properties	Single mode		Multimode	
	Low loss	Standard	Low loss	Standard
Insertion Loss (dB)	≤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
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



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



### Spool Packaging

