

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.

Applications

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

Features

- Low insertion loss and high return loss
- High precision connector
- PC UPC APC end face polish
- Up to 288 fibers – ideal for high density applications

Information and specifications are subject to change without notice.
Please visit www.china-tscom.com for more information

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- 100% factory terminated and tested
- Pulling eyes are provided as an option to protect the fiber ends during installation
- Save installation and reconfiguration time
- Customized length available
- ROHS Compliant

Standards Compliance

- TIA/EIA 568.3-D
- TIA/EIA 604 Series
- IEC-61754 Series
- IEC 61753-1
- GR 1435-CORE
- GR 2866-CORE
- GR 326-CORE

General Specification

Construction	Description																		
Fiber Count	8-288 Fibers																		
Fiber Mode	Single mode: G652/G657 Multimode: OM1 OM2 OM3; OM4																		
Fiber Brand	SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber																		
Cable Jacket Material	Low Smoke Zero Halogen (LSZH) PVC																		
Cable Jacket Ratings	Riser (OFNR) Plenum (OFNP)																		
Cable Jacket Color	OS2/G657: Yellow OM1/OM2: Orange OM3: Aqua; OM4: Aqua/Magenta or Customized																		
Polarity	Customized																		
Ferrule	12F, 16F, 24F, 32F																		
Connector Type	MTP, MPO																		
Connector Brand	US Conec MTP, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO																		
MTP/ MPO	<table border="1"> <thead> <tr> <th>Ferrule</th> <th>SM(APC)</th> <th>SM(PC)</th> <th>OM3</th> <th>OM4</th> <th></th> </tr> </thead> <tbody> <tr> <td>Low loss</td> <td>Yellow</td> <td>Yellow</td> <td>Aqua</td> <td>Magenta</td> <td>customized</td> </tr> <tr> <td>Standard</td> <td>Green</td> <td>Blue</td> <td>Aqua</td> <td>Magenta</td> <td></td> </tr> </tbody> </table>	Ferrule	SM(APC)	SM(PC)	OM3	OM4		Low loss	Yellow	Yellow	Aqua	Magenta	customized	Standard	Green	Blue	Aqua	Magenta	
Ferrule	SM(APC)	SM(PC)	OM3	OM4															
Low loss	Yellow	Yellow	Aqua	Magenta	customized														
Standard	Green	Blue	Aqua	Magenta															
Boot Color	Green/Black/ or Customized																		
Single-fiber connector	LC, SC, FC, etc.																		

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Pulling eye	Customized
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

Technical Specification

MPO / MTP Termination

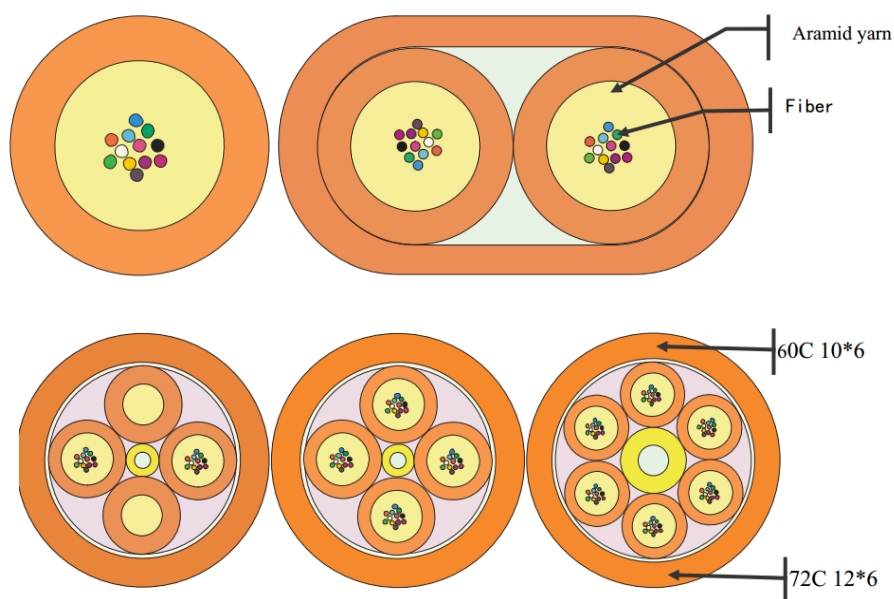
Optical Properties	Single mode		Multimode	
	Low loss	Standard	Low loss	Standard
Insertion Loss (dB)	≤ 0.35 (Typical: ≤ 0.25)	≤ 0.75 (Typical: ≤ 0.4)	≤ 0.35 (Typical: ≤ 0.2)	≤ 0.5 (Typical: ≤ 0.35)
Return Loss (dB)	PC ≥ 50 ; APC ≥ 60		PC ≥ 20 ; APC ≥ 40	
Wavelength (nm)	1310/1550		850/1300	
Durability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

Single-fiber connector Termination

Optical Properties	Single mode	Multimode
Insertion Loss (dB)	UPC ≤ 0.2 ; APC ≤ 0.2	PC ≤ 0.2
Return Loss (dB)	UPC ≥ 50 ; APC ≥ 60	PC ≥ 20
Wavelength (nm)	1310/1550	850/1300
Durability	≤ 0.3 (dB)typical change, 500 matings	

Note: IL&RL Test method: IEC 61300-3-4 insertion B.

Typical Cable Structure



Pulling Elements



Net-tube pulling eye



Corrugated pipe pulling element

Spool Packaging



Wooden Spool