MTP®/MPO Reference Cord

Description

MTP®/MPO Reference Cords are high-precision master assemblies used as a standardized interface for IL/RL testing and performance verification.

With tightly controlled MT ferrule geometry and validated through repeated mating evaluations, they deliver excellent measurement repeatability and serve as a reliable baseline for patch cord qualification and system-level optical testing.

Features

- Designed for high repeatability in IL/RL measurements
- Controlled MT ferrule geometry for consistent test results
- PC / UPC / APC end face options available
- 100% factory tested and verified

Applications

- Reference interface for patch cord testing and validation
- Incoming and outgoing inspection of MPO assemblies
- On-site installation testing and verification
- Laboratory and system-level optical testing

Standards Compliance

- TIA-568.3-D
- TIA-604-5
- IEC 61754-7

8 Jinxiu Middle Road, Pingshan, Shenzhen, Guangdong, 518118, P. R. China
+86 755 32983688 | info@china-tscom.com | www.china-tscom.com

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- IEC 61753-1
- Telcordia GR-1435-CORE
- RoHS Compliant

General Specification

Constructions		Descriptions				
Fiber Count		8/12/16/24/32 Fibers				
Fiber Mode		Single-mode: G.625/G.657				
		Multimode: OM1/OM2/OM3/OM4				
Cable Jacket Material		Low Smoke Zero Halogen (LSZH)				
		PVC				
Cable Jacket Ratings		Riser (OFNR)				
		Plenum (OFNP)				
Cable Jacket Color		G.652/G.657: Yellow				
		OM1/OM2: Orange				
		OM3: Aqua				
		OM4: Aqua/Magenta				
		Customized				
Polarity		Type A, Type B, Type C (TIA-568.3-D)				
Connector Ferrule		12F/16F/24F				
Connector Type		Male; Female				
Connector Brand		US Conec MTP®, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO, TASLO MPO				
Connector Color		SM (APC)	SM (PC)	OM3	OM4	or customized
	Low Loss	Yellow	Yellow	Aqua	Magenta	
Operating Temperature		-10 °C to + 60 °C				
Storage Temperature		-40 °C to + 85 °C				

Technical Specification

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss ≤ 0.35	Low Loss ≤ 0.35
Return Loss (dB)	PC ≥ 50; APC ≥ 60	PC ≥ 25; APC ≥ 40
Wavelength (nm)	1310/1550	850/1300
Durability	≤ 0.3 dB Typical change, 50 matings	