

Loopback (MTP/MPO/SC/LC)

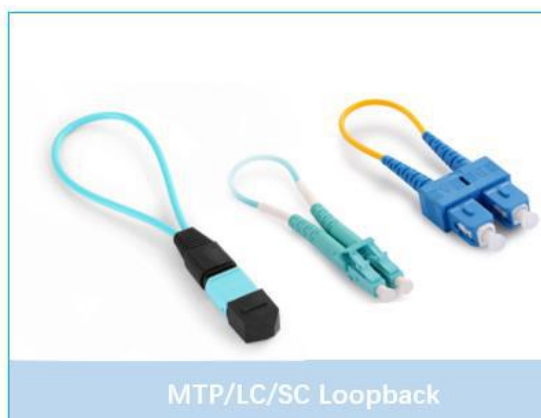


MTP Loopback with housing and pull-tab

Loopback is a type of duplex or multi-fiber connector in which both ends of fibers are in the same connector. Signals input into a loopback have no change and get back to the loopback directly. It provides an effective solution to test the transmission ability and receive sensitivity of a network equipment. Especially, the returning signal can detect potential problems in 40G/100G communication network, so as to effectively test and evaluate optical fiber network on a single element or interface.



MPO Loopback



MTP/LC/SC Loopback



LC Loopback with housing



SC Loopback with housing

Applications

- System loop test
- Optical loop test
- Aging and testing of the system

Features

- Duplex connector or multi fiber connector
- Low insertion loss and high return loss
- High precision connector
- PC UPC APC end face polish
- Cable form or housing form
- Customized length available(for housing only:multi-fiber connector $\geq$ 15cm; duplex connector $\geq$ 7.5cm)
- 100% factory terminated and tested
- ROHS Compliant

Standards Compliance

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

General Specification

Construction	Description
Fiber Count	2fibers for duplex type; 2-48fibers for multi-fiber connector
Fiber Mode	Singlemode: G.652/G.657 Multimode: OM1 OM2 OM3; OM4
Fiber Brand	Corning 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	G.652/G.657: Yellow

	OM1&OM2: Orange OM3: Aqua; OM4: Aqua/Magenta or Customized					
Connector Type	SC, LC, MPO, MTP					
Connector Color (SC/LC)	SM(APC)		SM(PC)	OM3	OM4	or customized
	Green		Blue	Aqua	Magenta/Aqua	
Connector Color (MTP/MPO)	SM(APC)		SM(PC)	OM3	OM4	or customized
	Low Loss	Yellow	Yellow	Aqua	Magenta/Aqua	
	Standard	Green	Blue	Aqua	Magenta/Aqua	
Connector Gender (MTP/MPO)	Male/Female					
Loopback housing color	black					
Operating Temperature	-20°C to + 70°C					
Storage Temperature	-40°C to + 85°C					

Technical Specification

Optical Properties	Singlemode	Multimode
Insertion Loss (dB) (SC,LC etc.)	APC $\leq$ 0.60 (Typical: $\leq$ 0.30) UPC $\leq$ 0.40 (Typical: $\leq$ 0.20)	APC $\leq$ 0.60 (Typical: $\leq$ 0.30) PC $\leq$ 0.40 (Typical: $\leq$ 0.20)
Insertion Loss (dB) (MTP/MPO)	Low loss $\leq$ 0.70 (Typical: $\leq$ 0.50) Standard Loss $\leq$ 1.50 (Typical: $\leq$ 0.80)	Low loss $\leq$ 0.70 (Typical: $\leq$ 0.50) Standard Loss $\leq$ 1.20 (Typical: $\leq$ 0.60)
Return Loss (dB)	PC $\geq$ 50; APC $\geq$ 60	PC $\geq$ 20; APC $\geq$ 40
Durability	$\leq$ 0.2 dB typical change, 50 matings	
Wavelength (nm)	Singlemode: 1310/1550, Multimode: 850/1300	

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