

Loopback

(MTP/MPO/SC/LC)

The loopback is both ends of fiber in a duplex connector or a multi-fiber connector, then the optical signal in the same connector, don't change signals or repeated back to its itself. It can provide an effective solution, test the emission ability of the network equipment and receive sensitivity, especially in 40/100G network communication through back signal positioning can be all kinds of potential phenomenon, so as to achieve optical fiber network in pairs on a single element or interface and effective test and evaluation of the Internet.



MTP Loopback with housing and pull-tab

Product Features:

- Duplex connector or multi fiber connector
- MPO or MTP connector (for multi-fiber connector)
- Standard loss or low loss (for multi-fiber connector)
- PC or APC polish
- Cable form or housing form
- Available in G.652, G.657, OM1, OM2, OM3, OM4 fiber
- Option for LSZH, OFNR or OFNP cable jacket
- Option for A, B or C polarity or Customized (for multi-fiber connector)
- Customized length available (multi-fiber connector \geq 15cm; duplex connector \geq 7.5cm)
- 100% factory terminated and tested

Product Applications:

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

Standards:

- TIA/EIA-568.3-D
- ISO/IEC 11801
- IEC-61754 Series
- EIA/TIA-604 Series
- GR-326-CORE/GR-1435-CORE
- RoHS

General Specifications:

Construction	Description
Fiber Count	2 fibers for duplex type; 2-24 fibers for multi-fiber connector
Fiber Mode	Singlemode: G.652/G.657 (9/125um)
	Multimode: OM1 (62.5/125um) OM2, OM3, OM4 (50/125um)
Fiber Brand	Corning SMF-28® Ultra Optical Fiber Corning ClearCurve® Multimode Fiber
Cable Jacket Ratings	Low Smoke Zero Halogen (LSZH)
	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) Green	SM (PC) Blue	OM3 Aqua	OM4 Magenta/Aqua	Customized
Connector Color (MTP/MPO)	Low Loss	SM (APC) Yellow	SM (PC) Yellow	OM3 Aqua	OM4 Magenta/Aqua	Customized
	Standard	Green	Blue	Aqua	Magenta/Aqua	
Loopback Housing Color	Black					
Operating Temperature	-20°C to + 70°C					
Storage Temperature	-40°C to + 85°C					

Technical Specifications:

Optical Properties	Singlemode	Multimode
Insertion Loss (dB) (SC, LC etc.)	APC \leq 0.30 (Typical: \leq 0.15) UPC \leq 0.20 (Typical: \leq 0.1)	APC \leq 0.30 (Typical: \leq 0.10) PC \leq 0.20 (Typical: \leq 0.1)
Insertion Loss (dB) (MTP/MPO)	Low loss \leq 0.35 (Typical: \leq 0.25) Standard Loss \leq 0.75 (Typical: \leq 0.4)	Low loss \leq 0.35 (Typical: \leq 0.2) Standard Loss \leq 0.6 (Typical: \leq 0.35)
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)	1310/1550	850/1300
Fiber Attenuation (dB/km)	\leq 0.35 at 1310nm, \leq 0.2 at 1550nm	\leq 3.0 at 850nm, \leq 1.0 at 1300nm
Transmission Distance		OM4: 150m at 40/100G, 550m at 10G OM3: 100m at 40/100G, 300m at 10G

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MPO Loopback



MTP/LC/SC Loopback



SC Loopback with housing



LC Loopback with housing