

Loopback (MTP/MPO/SC/LC)

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 Green	SM(PC) Blue	OM3 Aqua	OM4 Magenta/Aqua	or customized
Connector Color (MTP/MPO)	Low Loss Standard	SM/APC Yellow Green	SM(PC) Yellow Blue	OM3 Aqua	OM4 Magenta/Aqua or customized
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 ≤ 0.60 (Typical: ≤ 0.30) UPC ≤ 0.40 (Typical: ≤ 0.20)	APC ≤ 0.60 (Typical: ≤ 0.30) PC ≤ 0.40 (Typical: ≤ 0.20)
Insertion Loss (dB) (MTP/MPO)	Low loss ≤ 0.70 (Typical: ≤ 0.50) Standard Loss ≤ 1.50 (Typical: ≤ 0.80)	Low loss ≤ 0.70 (Typical: ≤ 0.50) Standard Loss ≤ 1.20 (Typical: ≤ 0.60)
Return Loss (dB)	PC ≥ 50; APC ≥ 60	PC ≥ 20; APC ≥ 40
Durability	≤ 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.