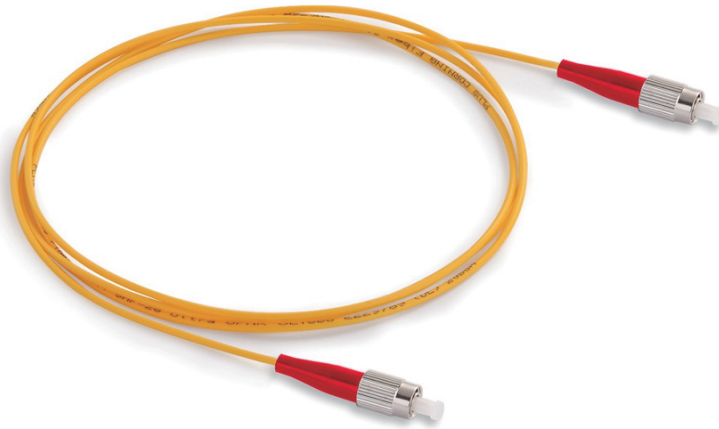


## LC SC FC Reference Cord



### Description

Reference Cords are precision-manufactured with high-quality ferrules and connector components to ensure consistent optical performance and long-term reliability. Tight control of ferrule end-face geometry and rigorous IL/RL verification across multiple mating cycles provide low insertion loss, excellent repeatability, and measurement stability.

Designed specifically for optical testing and calibration, these cords support accurate insertion loss verification and reliable measurement consistency in fiber optic laboratories and quality assurance processes.

### Features

- Low insertion loss and high return loss
- Precision ferrules with controlled end-face geometry (UPC or APC)
- Pre-assembled for repeatable optical measurements

### Applications

- Patch cord mass product testing
- The on-site testing of patch cord installation
- Patch cord incoming and Outgoing testing
- Lab testing

### Standards Compliance

- TIA-568.3-D
- IEC 61755-1

- IEC 61755-2
- IEC 61755-3
- Telcordia GR-326-CORE
- RoHS Compliant

### General Specification

Constructions	Descriptions					
Fiber Count	1 Fiber					
Fiber Mode	Single-mode: G.652/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					
Connector Ferrule	1.25 mm/2.5 mm					
Connector Color		SM (APC)	SM (PC)	OM3	OM4	or customized
	Low Loss	Green	Blue	Aqua	Magenta	
Operating Temperature	-10 °C to + 60 °C					
Storage Temperature	-40 °C to + 85 °C					

### Technical Specification

Geometric Requirements	Single-mode (APC)	Single-mode (UPC)	Multimode
ROC (mm)	6-11 (APC)	7-20 (1.25 mm)	7-20 (1.25 mm)
		10-25 (2.5 mm)	10-25 (2.5 mm)
Apex Offset (µm)	0-30	0-30	0-30
Fiber Height (nm)	±50	±50	±50
Angle (°)	8±0.3	0±0.2	0±0.2
Core Dip (nm)	NA	NA	±50

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss $\leq 0.10$	Low Loss $\leq 0.10$
Return Loss (dB)	UPC $\geq 55$ ; APC $\geq 65$	UPC $\geq 35$ dB
Durability	$\leq 0.2$ dB Typical change, 500 matings	
Wavelength (nm)	Single-mode: 1310/1550, Multimode: 850/1300	