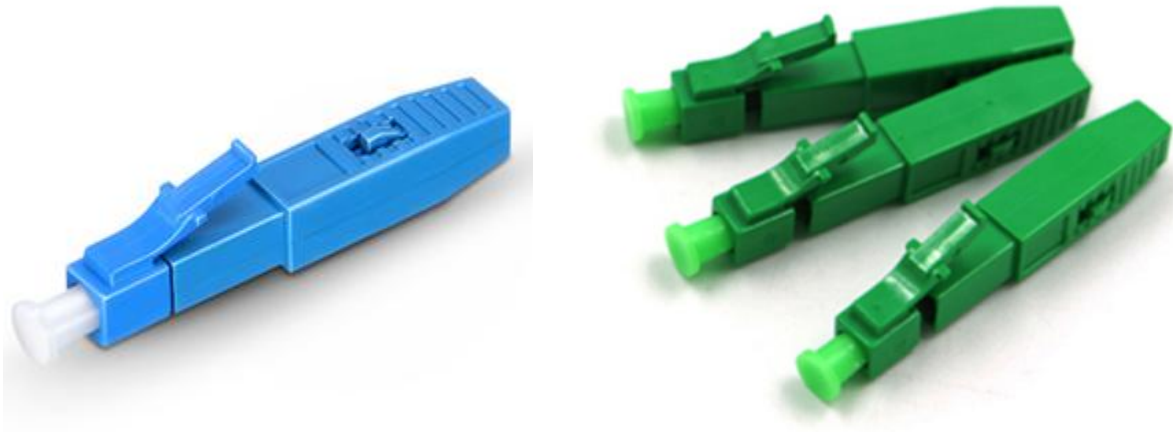


LC Field Assembly Optical Connector



Description

The LC Field Assembly Optical Connector are pre-polished from factory with V groove mechanical splicing principal to be terminated without epoxy. It operates simply without any additional practices or adhesives for field installation.

We provide singlemode, multimode fiber optic fast connector which is widely used in optical wiring, CCTV, FTTH projects.

Features

- Field installable in short time
- Factory pre-installed fiber stub
- No epoxy and polish required and without special tools to be used
- Eliminates cable excess length and pigtail splice storage
- Reliable and superior optical performance
- UPC or APC endface polish, singlemode or multimode for option

Application

- FTTH access network.
- Telecommunication Networks
- CATV Networks
- Local Area Networks
- Optical repair or replacement requirement
- Maintenance or emergency restoration of fiber networks

Optical Characteristics

Category	Specification	
Applicable for	Drop cable, Indoor cable	
Optical fiber diameter and fiber	125um(G657A1&G657A2&G657B)	
Tight buffer Diameter	250um	
Fiber mode	Single mode or Multi mode	
Operation time	Sec	About 50(no fiber cut)
Insertion Loss	dB	≤0.3(max 0.5)
Insertion Loss Typical value	dB	0.3
Return Loss	dB	≥45
Fastening strength of naked fiber	N	≥5
Tensile strength	N	≥50
Reusable	Time	≥10 times
Operating Temperature	°C	-40~+85 °C
On-line tensile strength(20N)	dB	ΔIL≤0.3
Mechanical durability(500 times)	dB	ΔIL≤0.3
Drop-off test(drop-off height4m, once per direction, totally 3 times)	dB	ΔIL≤0.3

Environmental performance requirements

Category	Specification			
	Condition	IL Variation	RL Variation	Appearance
High TEMP	110°C, 200H	≤0.3	≤5	No mechanical damage, like deformation, cracking and untight
Low TEMP	-40°C, 200H	≤0.3	≤5	
TEMP Cycling	-40~85°C, 3.5H/Cle, 100C	≤0.3	≤5	
HAST	110°C, 90%RH,200H	≤0.3	≤5	
Immersion	25°C,200H	≤0.3	≤5	
Salt Mist	5% Nacl, 6.5<PH<7.5, 35°C,200H	≤0.3	≤5	

Mechanical Performance Requirements

Category	Specification			
	Condition	IL Variation	RL Variation	Appearance
Impact	Height: 4m; 1 drop each axis; 3 cycles	≤0.3	≤5	No mechanical damage, like deformation, cracking and untight
Vibration	Frequency: 10 ~ 50HZ; Sweep: 45 times / min ; amplitude: 0.75mm; Duration:30min each axial	≤0.3	≤5	
Torsional	Pull: 15N; The distance between Loading location and fast connector: L = 22-28cm; Rate: 10times / min. Times: 200	≤0.3	≤5	
Tensile	Pull : 50N ; The distance between Loading location and fast connector: L = 22-28cm; Duration: 1min.	≤0.3	≤5	