

OPTIC FIBER FAST CONNECTOR Top one quality of china Optic fiber Cable manufacturer




Service Hotline:
+86-755-2377 8221
 Email:ceo@szopticfiber.com

QUICK CONNECTOR MECHANICAL SPLICER HOT MELT CONNECTOR STRAIGHT THROUGH CONNECTOR

The **Fast Connector** also is called "Field Assembly Connector" or "**Field terminated fiber connector**" or "quickly assembly Fiber connector". It is designed for simple and fast field termination of single fibers, without polishing or epoxy. The unique design is a pre-polished ferrule and a mechanical splice inside the connector body. Assembly of the SC type quick connector requires only normal fiber preparation tools: a fiber stripping tool, wipes and a fiber cleaver. No electrical power supply is needed. Our **Fast Connector** series connectors are now available in FC, SC and LC variants, catering for 250um to 900um diameter single mode and multimode fiber types, including Multi-mode 62.5/125um and Multi-mode 50/125um. The single-mode versions are available with PC or APC ferrules.

Features

- Low insertion loss and high return loss
- High reliability, and save maintenance cost
- Pre-embedded fiber is polished in high quality
- Can be reusable with easy disassembly and assembly
- Can work stably in harsh environment, like severe coldness and dust, high temperature, high humidity, etc
- Few special installation tools required, installation is simple and fast, with less than 30 seconds averagely;
- low technical requirements for the operators

Applications

- Telecommunication networks
- FTTX, FTTH (Fiber to the Home)
- Fiber testing and testing equipment
- FTTH Drop Cable, 86 socket outlet, and ONU

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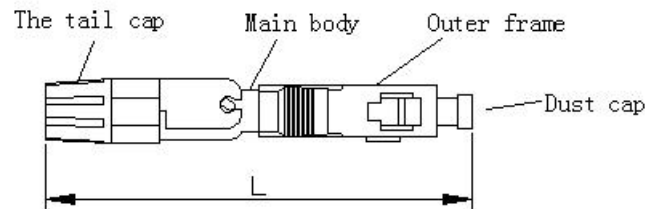
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1. Product Structure

1.1 Measured the Structure



1.2 Product length

$$50\text{mm} \leq L \leq 60\text{mm}$$

2. Optical Characteristics

Category	Specification		Remarks
Aoolicable for	Drop cable. Indoor cable		
Fiber mode	Single mode or Multi mode		
Operation time	S	About 50(no fiber cut)	
Insertion Loss	dB	≤ 0.5	
Insertion Loss Typical value	dB	0.3	
Return Loss	dB	≥ 50	
Fastening strength of naked fiber	N	≥ 5	
Tensile strength	N	≥ 50	
Reusable	Time	≥ 10 times	
Operating Temperature	°C	-40~+85	
On-line tensile strength(20N)	dB	$\Delta IL \leq 0.3$	
Mechanical durability(500 times)	dB	$\Delta IL \leq 0.3$	
Drop-off test(drop-off height4m, once per direction, totally 3 times)	dB	$\Delta IL \leq 0.3$	



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3. Environmental performance requirements

Category	Specification			
	Condition	IL Variation	RL Variation	Appearance
High TEMP	110°C, 200H	≤0.5	≤5	No mechanical damage, like deformation, cracking and untight
Low TEMP	-40°C, 200H	≤0.5	≤5	
TEMP Cycling	-40~85°C, 3.5H/Cle, 100C	≤0.5	≤5	
HAST	110°C, 90%RH, 200H	≤0.5	≤5	
Immersion	25°C, 200H	≤0.5	≤5	
Salt Mist	5% Nacl, 6.5<PH<7.5, 35°C, 200H	≤0.5	≤5	

4. Mechanical Performance Requirements

Category	Specification			
	Condition	IL Variation	RL Variation	Appearance
Impact	Height: 4m; 1 drop each axis; 3 cycles	≤0.5	≤5	No mechanical damage, like deformation, cracking and untight
Vibration	Frequency: 10 ~ 50HZ; Sweep: 45 times / min; amplitude: 0.75mm; Duration:30min each axial	≤0.5	≤5	
Torsional	Pull: 15N; The distance between Loading location and fast connector: L = 22-28cm; Rate: 10times / min. Times: 200	≤0.5	≤5	

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Tensile	Pull: 50N; The distance between Loading location and fast connector: L = 22-28cm; Duration: 1min.	≤ 0.5	≤ 5	
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5. Product Packaging Information

5.1 Blister Box Packing

	Size (CM)	14.5x7x1.5
	QTY (PCS/Box)	10
	N. W (KG/PCS)	0.0034
	N. W (KG/Box)	0.034
	G. W (KG/Box)	0.0415

5.2 Gift Box Packing (Inner packing)

	Size (CM)	15x7.6x1.8
	QTY (Blister Box/Gift Box)	1
	N. W (KG/Box)	0.034
	G. W (KG/Box)	0.045

5.3 Outer Packing

	Size (CM)	49X32X32.5	49X32X17
	QTY (Gift Box/Box)	200	100
	QTY (Pcs/Box)	2000	1000
	N. W (KG/Box)	6.8	3.4
	G. W (KG/Box)	10	5.5