

YX-15 Fast Connector



Product Structure :

Measured the Structure



Product length :

$50\text{mm} \leq L \leq 60\text{mm} (\approx 55\text{m})$

Optical Characteristics :

Category	Specification
Applicable for	Drop cable, Indoor cable
Fiber mode	Single mode or Multi mode
Fiber type	G.652D, G.657A2,
Fiber cable	3.0*2.0mm rubber-insulated optical cable $\varnothing 3.0/\varnothing 2.0$ / $\varnothing 0.9$ insulated optical cable
Fiber diameter	0.125mm
Force holds 2 x 3mm cable type at the beginning the fast connector	$\geq 50\text{ N}$, loss $\leq 0.3\text{ dB}$ (sample cable length: 3M) test time: 2 minutes
Fiber lock	Lock holds fiber reliability, bears hang force ≥ 3.8

	N, attenuation changes ≤ 0.2 dB	
Working wavelength	1310 nm, 1490 nm, 1550 nm	
Operation time	S	About 50(no fiber cut)
Insertion Loss	dB	≤ 0.35
Insertion Loss Typical value	dB	0.3
Return Loss	dB	UPC ≥ 50 , APC ≥ 55
Fastening strength of naked fiber	N	≥ 3
Tensile strength	N	≥ 45
Reusable	Time	≥ 10 time
Operating Temperature		-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 height 4m, once per direction, totally 3 times)	dB	$\Delta IL \leq 0.3$

Environmental performance requirements:

Category	Specification			
	Condition	IL Variation	RL Variation	Appearance
High TEMP	85°C, 96H	≤ 0.3	≤ 5	No mechanical damage, like deformation, cracking and untight
Low TEMP	-40°C, 96H	≤ 0.3	≤ 5	
Temperature Cycle	Cycle: 8 hours Total: 12 cycles / 96 hours Temperature Maintenance: 1 hour	≤ 0.3	≤ 5	
Temperature/ Humidity	85°C, 95%RH, 96H	≤ 0.3	≤ 5	
Immersion	25°C, 96H	≤ 0.3	≤ 5	
Salt Mis	5% Nacl, 6.5 < PH < 7.5, 35°C, 96H	≤ 0.3	≤ 5	

Mechanical Performance Requirement

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	≤ 0.3	≤ 5	

	connector: L = 22-28cm; Rate : 10times / min. Times:			
Tensile	Pull : 50N; The distance between Loading location and fast connector: L =3M; Duration:1min	≤0.3	≤5	

Product Packaging Information :

Blister Box Packing

	Size(CM)	14.7*7.8*1.5
	QTY(PCS/Box)	10
	N.W(KG/PCS)	0.0033
	N.W(KG/Box)	0.033
	G.W(KG/Box)	0.042

Adapter (supports strip and cut fiber):

Instructions for SC hot melt optical fiber quick connector


1. Hot melt components.
2. The components are in order to take the optical cable (skin sleeve, main body, heat conductive tape) fiber into the small slot at the front.
3. Put the fiber into the hot melt slot, press it to make whether the bare fiber is in the blank or not.
4. Use a fiber stripper to remove the coating.
5. Strip the hot melt head and strip the coating.
6. After coating the cover, the machine will automatically strip the coating. PRESET the function key to splice the fiber.
7. Press the "Hot Melt Strain Relief" to melt the heat shrink tube.
8. Clean the optical fiber with alcohol and put it into the groove or cut the adapter fiber.
9. Strip the optical fiber with alcohol and put it into the groove or cut the adapter fiber.
10. After coating the cover, the machine will automatically strip the coating. PRESET the function key to splice the fiber.
11. Take out carefully after working.
12. Put the hot melt sleeve to the bare fiber position and put it into the heat shrink slot.
13. Put the fiber into the hot melt tank, put fiber in alcohol, whether the bare fiber is in the blank or not.
14. Take out carefully after hot melting.
15. Pull the optical fiber into the hot melt tank, put fiber in alcohol, whether the bare fiber is in the blank or not.
16. Build the body that was originally put into the groove of the hot melt head, screw the tail sleeve and put the heat shrink sleeve.

1 Operation Manual/ 100 fast connector

Gift Box Packing(Inner packing) :

	Size(CM)	15.5*8*12
	QTY(Blister Box/Gift Box)	10
	N.W(KG/Box)	0.41
	G.W(KG/Box)	0.44

Outer Packing:

	Size(CM)	39*17*26
	QTY(Gift Box/Box)	10
	QTY(Pcs/Box)	1000
	N.W(KG/Box)	3.3
	G.W(KG/Box)	5