Fiber Optic Movable Connectors

Product Description

Fiber optic movable connectors, also known as fiber optic patch cords, precisely butt the two ends of the fiber with extremely low insertion loss. Fiber optic cable can be provided with simplex, duplex, micro duplex, and connectors can be provided with SC/ FC/ LC/ ST/ MU/ MT-RJ/ E2000 etc.

Features

- High stability and reliability
- Low insertion loss, high return loss.
- Excellent finish grinding standard.
- End-face geometry compliance
- Various configurations or connection methods

Applications

- Telecom.com
- Cable TV
- Active or passive device terminals
- Industrial, medical and military
- Gigabit Ethernet

Optical Indicators

Test Items	FC、SC、ST、LC、MU		MT-RJ	
	Standard Grade B Grade	Superior A Grade	MM	SM
Insertion loss（dB）	≤0.3 (type：0.15)	≤0.2 (type：0.10)	< 0.5 (repeatability)	< 0.55 (repeatability)
Return loss（dB）	PC≥40 APC≥50	PC≥45 APC≥55	> 25	> 35

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Environmental and mechanical properties

Test Project	Test conditions	Maximum change in insertion loss Max. △ I. L.
High Temperature	+85oC, 168h	0.2dB
Temperature cycling	-40 oC ~ +75oC, 21cycles, 168h	0.2dB
Humidity and heat (steady state)	75oC, 95%R.H. 168h	0.2dB
Humid heat cycle	-10 oC~+65oC, 95%~100%R.H. 14 cycle, 168h	0.2dB
Vibration	10 Hz ~ 55Hz, 1.5mm(p-p)	0.1dB
Bend	0.6 ~ 0.9kgf, -90° ~ +90° 100 cycles	0.1dB
Turning	1.5 ~ 2.5kgf, 10 times/min, ±180°, 200times	0.1dB
Tensile	70 ~ 90N, 10min	0.1dB
Falling	1.5m, 8 times	0.2dB
Repeatability	10 times	0.2dB
Interchangeability	Randomly	0.2dB
Durability	>500 times	0.2dB
Locking mechanism strength	68.6N, 10min	0.1dB

Note: See Telcordia GR-326-CORE or IEC standard

MT-RJ:

Test Project	Test conditions	Maximum change in insertion loss Max. △ I. L.
High Temperature	+60°C, 96h	0.2 dB
Low temperature	-10°C, 96h	0.2 dB
Temperature cycling	-10 °C ~ +60°C, 12 cycles, 96h	0.2 dB
Humidity and heat (steady state)	40°C, 95%R.H, 96h	0.2 dB
Vibration	10 Hz ~ 55Hz, 1.5mm(p-p)	0.2 dB
Bend	0.6kgf, -90° ~ +90° 100 cycles	0.2 dB
Turning	1.5kgf, 10 times /min, ±180°, 200 times	0.2 dB
Tensile	70N, 10min	0.2 dB
Falling	1.5m, 8 times	0.2 dB
Repeatability	10 times	0.2 dB
Durability	>500 times	0.2 dB

Model naming

Series Model		ZL	A	-	FC/APC	-	FC/APC	-	SM	-	0
Product Grade	A =Standard Grade B=Superior										
One End Connector	FC/PC FC/APC SC/PC SC/APC LC/PC LC/APC ST/PC XX/XXX：Customer Specified										
Connector on the other end	FC/PC FC/APC SC/PC SC/APC LC/PC LC/APC ST/PC XX/XXX：Customer Specified										
Fiber Type	SM--Single-mode MM--Multimode 62.5/125 M2--50/125 OM2 M3--50/125 OM3 XX--Other custom fiber optics										
Fiber optic cable type	0 --Bare Fiber 1 =Φ0.9Cladding fiber 2 =Single core Φ2.0 3 =Single core Φ3.0 4 =Dual Core Parallel Φ2.0 5 =Φ3.0 Contains Φ0.6*2 6 =Dual Core Parallel Φ3.0 X =Please specify										