

MT-2302

Field Assembly Connector



Quick Details:

01. Product Name : Field Assembly Connector (Fast Connector)
02. Place of Origin : China
03. Model No : MT- 2302
04. Product Length : 55mm
05. Gross Weight : 7.9kg(1000pcs/carton)
06. Connector: SC UPC/SC APC
07. Apply for : FTTH Cable 2*3.0mm
08. Packing size: 52*43*26cm

Key Features:

- Linkage structure design, when docking with equipment and joints, the reserved Micro bend remains unchanged

- Double V-slot structure design, fiber optic docking is stable and reliable
- The core structure: the use of normally closed elastic fastening method, excellent technical indicators
- Easy to operate, fast construction, high installation success rate, long life cycle, easy maintenance in the later period

Description:

This kind of Field Assembly Optical Connector is designed for fast and simple field termination of single fiber, without polishing or epoxy. The Connector is made with precision and high quality Zirconium ferrules and provides a highly reliable connection in most of the network application. The SC type is available with 2.0mm x 3.0mm jacket cable.

Batch-by-batch inspection of projects, methods, standards and sampling plans:

Items	Methods	Standard				Samples Chosen
Visual Inspection	1. Visual inspection 2. 200 times magnifying glass	1, the surface can not appear obvious scratches, corners, deformation and other defects, product specifications and models and actual compliance. 2. See Table 2.				General inspection level I, AQL 0.04
Geometric Size	CCD projector detection	According to the drawings				General inspection level I, AQL 0.04
End Face Geometry Index	3D detector detection	Part No.	Curvature Radius (mm)	Vertex Shift Amount (μm)	Concavity and Convexity (nm)	General inspection level I, AQL 0.04
		PC Type ($\Phi 2.5\text{mm}$)	10~25	≤ 50	-100~+50	General inspection level I, AQL 0.04
		PC Type ($\Phi 1.25\text{mm}$)	7~25	≤ 50	-100~+50	
		APC Type ($\Phi 2.5\text{mm}$)	5~12	≤ 50	-100~+50	
		APC Type ($\Phi 1.25\text{mm}$)	5~1	≤ 50	-100~+50	
Insertion Loss	Loss detector standard line detection method	PC: Average Value: $\leq 0.2\text{dB}$, Maximum Value: $\leq 0.4\text{dB}$ APC: Average Value: $\leq 0.3\text{dB}$, Maximum Value: $\leq 0.5\text{dB}$				General inspection level II, AQL 0.025
Return Loss	Loss detector standard line detection method	PC: $\geq 40\text{dB}$, APC: $\geq 55\text{dB}$.				General inspection level II, AQL 0.025
Average Assembly Time	Normal skilled operator	$\leq 2.5\text{Mins}$				General inspection level II, AQL 0.025
One Assembly Success Rate	Normal skilled operator	$\geq 98\%$				At least 98 per assembly
Repeated Assembly	Normal skilled operator	$\geq 5\text{ Times}$				Special inspection level S-I level, AQL 1.5
Inspection Area		Judgments Standard				
Area	Range	Scratch	Spot	Bright spots /white spots	Crack	
1	Within $\Phi 25\mu\text{m}$	Not Allowed	Not Allowed	Not Allowed	Not Allowed	
2	$\Phi 25\mu\text{m} \sim \Phi 60\mu\text{m}$	Width $\leq 1\mu\text{m}$ Quantity $\leq 2\text{pcs}$	Diameter $\leq 1\mu\text{m}$ Quantity $\leq 2\text{pcs}$	Not Allowed	Not Allowed	
3	$\Phi 60\mu\text{m} \sim \Phi 125\mu\text{m}$	Width $\leq 2\mu\text{m}$ Quantity $\leq 3\text{pcs}$	Diameter $\leq 2\mu\text{m}$ Quantity $\leq 3\text{pcs}$	Not Allowed	Not Allowed	

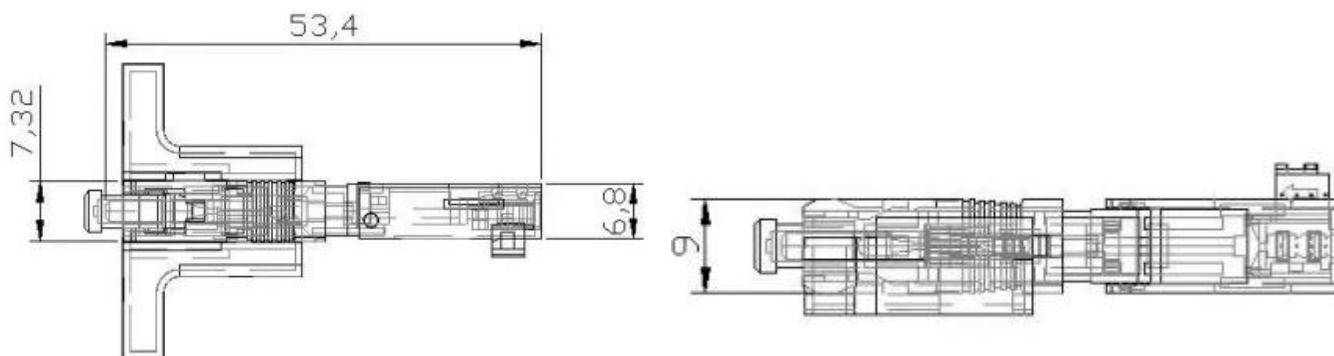
Inspection items, requirements and criteria:

Inspection Item	Inspection Requirements	Judgments Standard
Insertion Loss	Loss detector standard line detection method	PC: average value: ≤ 0.2 dB, maximum value: ≤ 0.4 dB, APC: average value: ≤ 0.3 dB, maximum value: ≤ 0.5 dB.
Return Loss	Loss detector standard line detection method	PC: ≥ 40 dB, APC: ≥ 50 dB.
Average Assembly Time	Normal skilled operator	≤ 2.5 Mins
One Assembly Success rate	Normal skilled operator	$\geq 98\%$
Repeatability	Insert 10 times	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
High Temperature	+85°C, 96hrs	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Low Temperature	-45°C, 96hrs	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Warm Cycle	-40°C ~ +85°C, 30 cycles, a total of 240hrs	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Damp Heat	+75°C, 95%, 96hrs	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Soaking Water	25 \pm 2°C, 168hrs, tap water	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Repeated Assembly	Assembly Times: 5 Times	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, no obvious scratches on the surface of the pin.
Vibration (Sine)	Frequency: 10-50Hz Sweep: 45 times per minute Amplitude: 0.75mm single amplitude Time: three directions, each 2hrs	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, no obvious scratches on the surface of the pin.
Fall Test	Height: 1.5m No. of times: 8 times	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena
Mechanical Durability	Plug and Pull>500 Times	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena.
Tensile	Cable Type: 20N, online measurement; Cable Type: 30N, not measured online, the time is 2 minutes.	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena.
Torsion (optical cable type)	Load: 15N Rate: 10 times / min No. of times: 200 times	Insertion loss change: ≤ 0.2 dB, return loss change: ≤ 4 dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena.

Applications:

- All fiber interconnection
- Telecom Distribution and Local Area Networks, Telecom Distribution and Local Area Networks
- FTTH and FTTX
- Passive optical networks [ATM, WDM, Ethernet]
- Broadband, Cable TV(CATV)

Size:



You may interested:

