NTFA09 Datasheet 01

3 in 1 Precon Harden Field Assembly Reinforced Optical Connector

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Brief Overview

This kind of 3 in 1 Precon Harden Field Assembly Reinforced Optical Connector design and producing from NEATEL company, it has compatible for OptiTap, Slim and FastConenct all in one with connector body, apply to outer cable diameter: 3.0mm and 5.0mm round cable, 2.0+5.3mm and 2.0+3mm pre-connectorized on drop cable. Please welcome for contacting us for more RFQ.

Application

- 1) FTTH;
- 2) Outdoor FTTX Solution;
- 3) Harsh Environment.



Features

- 1) Waterproof level: P67;
- 2) Compatible with Slim connector;
- 3) Fully compatible with the connector systems of Furukawa slim connector;
- 4) Field installation, easily mounted on the field optical connector, no required for any specific tools or devices;
- 5) Low insert loss and high return loss;
- 6) High mechanical strength performance;
- 7) PEI material, Acid and alkali resistance, Ultraviolet resistance;
- 8) Outdoor use, 20-year service life;
- 9) Apply to Field Assembly Optical Connector type: Slim/APC、Slim/PC.

Connector Scheme





Technical Parameter

Table 1 is as follows

ltems	Methods	Standard				Samples Chosen
1. Visual inspection 1, the surface can not appear obvious scratches, corners, deformation				n and other defects, product		
Visual Inspection	2. 200 times magnifying lass	specifications and models and actual compliance.				General inspection level I, AQL 0.65
		2. See Table 2.				
Geometric Size	CCD projector detection	According to the drawings			General inspection level I, AQL 0.65	
		Polish Type	Curvature Radius	Vertex Shift Amount	Concavity and Convexity	General inspection level I, AQL 0.65
			(mm)	(µm)	(nm)	
		PC Type	10~25	≤50	-100~+50	
		(Ф2.5mm)				
		PC Type	7~25	≤50	-100~+50	
End Face Geometry Index	3D detector detection	(Ф1.25mm)				General inspection level I, AQL 0.65
		APC Type	5~12	≤50	-100~+50	
		(Ф2.5mm)				
		APC Type	5~1	≤50	-100~+50	
		(Ф1.25mm)				
Insertion Loss	Loss detector standard line	PC: Average Value: ≤0.25dB, Maximum Value: ≤0.4dB			General inspection level I, AQL 0.65	
	detection method	APC: Average Value: ≤ 0.25 dB, Maximum Value: ≤ 0.4 dB				
Return Loss	Loss detector standard line	PC: ≥ 45 dB,			General inspection level I, AQL 0.65	
	detection method	APC: ≥ 50 dB				
Average Assembly Time	Normal skilled operator	≤2.5Mins				General inspection level II, AQL 0.65
One Assembly Success Rate	Normal skilled operator	≥98%				At least 98 per assembly
Repeated Assembly	Normal skilled operator	≥5 Times				Special inspection level S-I level, AQL 0.65

Table 2 is as follows

Inspection Item	Inspection Requirements	Judgments Standard		
		PC: average value: ≤0.3dB, maximum value: ≤0.5dB, APC: average		
Insertion Loss	Loss detector standard line detection method	value: ≤ 0.25 dB, maximum value: ≤ 0.4 dB.		
Return Loss	Loss detector standard line detection method	PC: ≥ 45 dB, APC: ≥ 50 dB.		
Average Assembly Time	Normal skilled operator	≤2.5Mins		
One Assembly Success rate	Normal skilled operator	≥95%		
		Insertion loss change: ≤0.2dB, return loss change: ≤4dB. No		
Repeatability	Insert 10 times	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
High Temperature	+85°C, 96hrs	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Damp Heat	+75°C, 95%, 96hrs	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Soaking Water	25±2°C, 168hrs, tap water	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Repeated Assembly	Assembly Times: 5 Times	mechanical damage, no obvious scratches on the surface of the		
		pin.		
	Frequency: 10-50Hz	Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Vibration (Sine)	Sweep: 45 times per minute Amplitude: 0.75mm single amplitude Time:	mechanical damage, no obvious scratches on the surface of the		
	three directions, each 2hrs	pin.		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Fall Test	Height: 1.5m No. of times: 8 times	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena		
		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Mechanical Durability	Plug and Pull>10 Times	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena.		
	Cable Type: 20N, online measurement; Cable Type: 30N, not measured	Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
Tensile	online, the time is 2 minutes.	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena.		
Torsion (optical cable type)		Insertion loss change: ≤0.3dB, return loss change: ≤4dB. No		
	Load: 15N Rate: 10 times / min No. of times: 100 times	mechanical damage, such as deformation, cracks, Chi and other		
		phenomena.		

