

Description

The armored optical fiber patch cord are used in central offices, customer premises or in outside plant applications. They will provide a flexible interconnection to the electronic equipment, to passive optical devices or provides a cross-connect function between different fibers. The fiber can be safeguard by stainless steel tube around the fiber.

Application

- Telecommunication networks
- CATV
- LAN & WAN
- Network
- FTTX
- Broadband Network

Features

- Easy installation
- Meet Bellcore GR-326 requirements
- Duplex clip available separately
- Armored cable applications

Parameter

- Optical Parameter

Item	SM			MM
Polishing Type	PC	UPC	APC	/
Insertion Loss	≤0.3dB			≤0.3dB
	Custom			
Return Loss	≤-45dB	≤-50dB	≤-60dB	/
	Custom			
Durability(1000 Mating)	0.2 dB Max. Increase			
Operating Temperature	-40°C~+85°C			
Storage Temperature	-40°C~+85°C			
Remark: Ferrule Concentricity<1μm Ferrule inner diameter tolerance +1/-0μm Ferrule outer diameter tolerance±0.5μm Insertion loss <0.7dB random mating				

- Geometry dimension for ferrule endface

PC Geometry dimension for ferrule endface

Measurement Parameter	Pass/Fail Limits	
	Minimum	Maximum
Radius of Curvature	7mm	25mm
Fiber Height (Spherical Fit)	-125μm	100μm
Fiber Height (planar Fit)	-10nm	200nm
Apex Offset	0nm	50nm
Bearing		
Angle	-0.20deg	0.20deg
Fiber Roughness (Rq)	0nm	50nm
Fiber Roughness (Ra)	0nm	50nm
Ferrule Roughness (Rq)	0nm	50nm
Ferrule Roughness (Ra)	0nm	50nm

APC Geometry dimension for ferrule end face

Measurement Parameter	Pass/Fail Limits	
	Minimum	Maximum
Radius of Curvature	5mm	12mm
Fiber Height (Spherical Fit)	-125µm	100µm
Fiber Height (planar Fit)	-10nm	200nm
Apex Offset	0nm	100nm
Bearing		
Angle	-0.5deg	0.5deg
Key Error	-0.25deg	0.25deg
Fiber Roughness (Rq)	0nm	50nm
Fiber Roughness (Ra)	0nm	50nm
Ferrule Roughness (Rq)	0nm	50nm
Ferrule Roughness (Ra)	0nm	50nm

• Ferrule end-face quality

Ferrule end-face quality under 200x magnification	Zone A: Scratches: < 2 micron in width. Pitting: < 2 micron in diameter Contamination: None Zone B: Scratches: < 2.0 microns in width. Pitting: < 2 microns in diameter. Contamination: None Zone C (cladding): Contamination: None
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