

Master SC Patchcord

Description:

We offer an extensive range of pre-terminated cable assemblies that are 100% tested to ensure conformance with your specifications. These assemblies are used for measuring and manufacturing of fiber optic components and optical network testing.

The Master patchcord is equipped with a Master connector according to the specifications below. The master connector is marked and specified with its Serial Number, which ensures traceability of transmission and geometrical parameters. The second connector is a standard type. For the hybrid patchcord version different types of master and standard connector types are also available.



Specifications:

Insertion loss2 (IL)	SM Ultra PC	SM Angle PC	
(IEC 61300-3-4)	0.10 dB max	0.10 dB max	
Return loss2 (RL)	55 104	70 IP4	
(IEC 61300-3-6, method 1)	≥ 55 dB1	≥ 70 dB1	
PDL2	max 0.1 dB		
Strain relief	max 100 N		
Allowable input power	max 1.0 W		
Strain relief	100 N		
Operating temperature	-30°C to +70°C		
Durability	min 1000 cycles		
Assembly procedure	glue and polish		
Connection	physical contact		
Lock mechanism	snap-on		
Standards	IEC 61755-4, EN-50377-4, GR-326-CORE		
Ferrule material	full ceramic zirconia		
Connector material	thermoplastic, zinc alloy nickel plated		
Adapter material	polymer composite, zinc alloy		
Connector lifetime	20 years in environment defined by EN 61753-1:2007, category C		

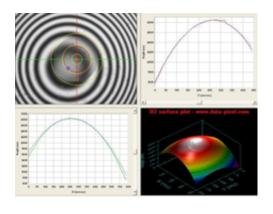


Geometrical parameters:

Eccentricity of core for the center of ferrule	≤ 0.3 / 0.55 μm		
Outer diameter of ferrule	2.5 mm connectors:	2.499 μm	
Outer diameter of ferrule	SFF connectors:	1.249 μm	
End curve offset		≤25 μm	
Fiber height		-30 to +50 nm	
End curve radius: 2.5 mm connectors: SFF connectors:	PC polishing: 10 - 18 mm PC/APC: 5 - 12 mm	APC polishing: 5 - 12 mm	
APC angle	8 ± 0.1°		

Features:

- ISO 9100 approved
- 100% Return loss test
- 100% Visual Inspection
- 100% Insertion loss test
- 100% Interferometric test
- Manufactured to meet IEC/EN Standards
- Batch tracebility



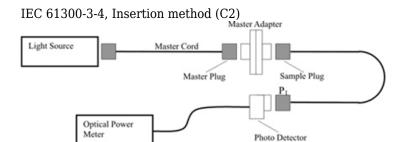
Visual inspection:

Single mode						
Allowable Defects and Scratches						
Zone	Description	Diameter	Defects (diameter)	Scratches (width)		
1a	Core Zone	0 to 25 μm	none	none		
1b	Cladding Zone	25 to 120 μm	any < 2 μm 5 from 2 - 5 μm none > 5 μm	none > 3 μm		
-	Adhesive Zone	120 to 130 μm	any	any		
2	Contact Zone	130 to 250 μm	none > 10 μm	any		



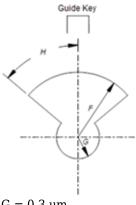
IEC Test Method::

Single mode:



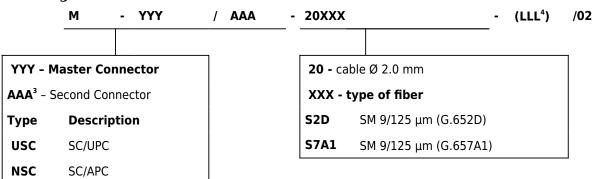
Insertion loss = - 10 log ----- P0

Note 5) Eccentricity of core



 $G = 0.3 \mu m$ $F = 0.5 \mu m$ $H = 30^{\circ}$

Ordering code:



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