

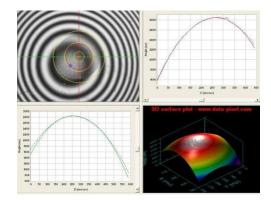
Master FC Patchcord

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.





M-UPC/UPC-20S7A1

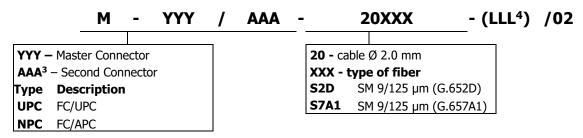
Interferometer testing

Specifications:							
Insertion loss ² (IL)	SM Ultra PC		SM Angle PC				
(IEC 61300-3-4)	0.10 dB max		0.10 dB max				
Return loss ² (RL) (IEC 61300-3-6, method 1)		≥ 55 dB¹	≥ 70 dB¹				
PDL ²	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	coupling nut						
Standards	JIS 5970, EIA/TIA FOCIS, IEC 61754-13, EN 50377-2, GR-326-CORE						
Ferrule material	full ceramic zirconia						
Connector material	zinc alloy, nickel plated						
Adapter material	zinc alloy, nickel plated, zirconia sleeve						
Connector lifetime	20 years in environment defined by EN 61753-1:2007, category C						
Geometrical param	eters:						
Eccentricity of core for the center of ferrule			≤ 0.3 / 0.5⁵ μm				
Outer diameter of ferrule		2.5 mm connectors:	2.499 μm				
		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:		Visual inspection:					
		Single mode					
	 ISO 9100 approved 		Allowable Defects and Scratches				
	100% Return loss test	Zone	Description	Diameter	Defects (diameter)	Scratches (width)	
•	100% Visual Inspection	1a	Core Zone	0 to 25 μm	none	none	
100%Manu Stand	100% Insertion loss test 100% Interferometric test Manufactured to meet IEC/EN	1b	Cladding Zone	25 to 120 μm	any < 2 μm 5 from 2 - 5 μm none > 5 μm	none > 3 µm	
	Standards Batch tracebility	-	Adhesive Zone	120 to 130 μm	any	any	
		2	Contact Zone	130 to 250 μm	none > 10 μm	any	

Ordering code:



Note: 1) RL ≥ 58 dB (UPC) and RL ≥ 78 dB (APC) measured with low coherence reflectometry (IEC 61300-3-6 method 3 OLCR)

- Valid over 1260-1650 nm wavelength range and within operation temperature range -30 to +70°C, tested according to IEC 61300-3-12
- AAA second connector types according to relevant datasheets
- Standard Master patchcord length 2 m, other on demand However in case of longer Master patchcord Rayleigh scattering in glass produces small levels of back reflections. Because of backscatter, a link will produce intrinsic reflections which are dependent on the length.

