

# **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.



#### **Specifications:**

SM Ultra PC	SM Angle PC		
0.10 dB max	0.10 dB max		
≥ 55 dB1	≥ 70 dB1		
max 0.1 dB			
max 100 N			
max 1.0 W			
100 N			
-30°C to +70°C			
min 1000 cycles			
glue and polish			
physical contact			
coupling nut			
JIS 5970, EIA/TIA FOCIS, IEC 61754-13, EN 50377-2, GR-326-CORE			
full ceramic zirconia			
zinc alloy, nickel plated			
zinc alloy, nickel plated, zirconia sleeve			
20 years in environment defined by EN 61753-1:2007, category C $$			
	0.10 dB max ≥ 55 dB1 max 0.1 dB max 100 N max 1.0 W 100 N -30°C to +70°C min 1000 cycles glue and polish physical contact coupling nut JIS 5970, EIA/TIA FOCIS, IEC 617 full ceramic zirconia zinc alloy, nickel plated zinc alloy, nickel plated, zirconia s		

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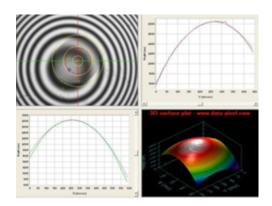


## **Geometrical parameters:**

Eccentricity of core for the center of ferrule	≤ 0.5 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:	PC polishing: 10 – 18 mm	APC polishing: 5 – 12 mm
SFF connectors:	PC/APC: 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		

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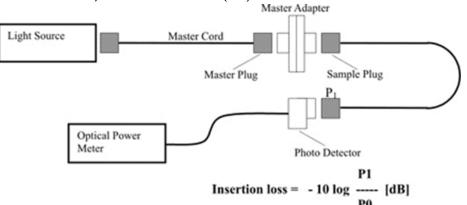
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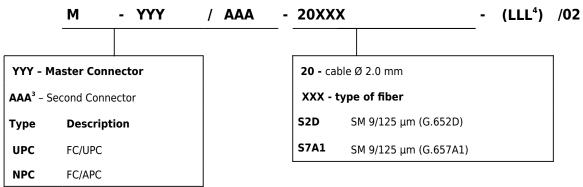
### **IEC Test Method::**

### Single mode:

IEC 61300-3-4, Insertion method (C2)



#### **Ordering code:**



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

2) Valid over 1260-1650 nm wavelength range and within operation temperature range -30 to +70°C, tested according to IEC 61300-3-12

3) AAA - second connector types according to relevant datasheets

4) Standard Master patchcord length - 2 m, other on demand



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