

Master 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 specified with its Serial Number on connector body, 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: **Specifications:** Single mode Multimode $\leq 0.1 \text{ dB}$ < 0.1 dB Insertion loss (IL) $(\lambda = 1310, 1550, 1650 \text{ nm})$ $(\lambda = 850, 1300 \text{ nm})$ $UPC \ge 55 \text{ dB}, \text{APC} \ge 65 \text{ dB}$ $PC \ge 30 \text{ dB}$ Return loss (RL) Geometrical parameters: Eccentricity of core for the center of ferrule $\leq 0.3 / 0.55 \,\mu m$ N/A Outer diameter of ferrule Standard connectors: 2.499 µm SFF connectors: 1.249 µm End curve offset ≤25 µm Fiber height -30 to +50 nm End curve radius Standard connectors: PC polishing 10 - 18 mm APC polishing 5 - 12 mm SFF connectors: PC/APC 5 - 12 mm APC angle $8 \pm 0.1^{\circ}$ N/A Temperature stability (-40°C to +80°C) < 0.2 dB < 0.2 dB < 0.2 dB < 0.2 dB Mating durability (500 cycles) 100 N 100 N Cable retention (Ø 2.8 mm) Material: Connector body metal, plastic metal, plastic Ferrule material full ceramic zirconia full ceramic zirconia

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Fiber	9/125	50/125; 62.5/125
Crimp sleeve	metal	metal
Boot	rubber	rubber

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	Visual inspection:					
Single	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 Methods::



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Ordering code:

Μ YYY -

1

connectors
YYY - Master connector
AAA ¹ - standard connector

	code	type
LC	LC	LC/PC
	ULC	LC/UPC
	NLC	LC/APC
MU	MU	MU/PC
	UMU	MU/UPC
	NMU	MU/APC
FC	PC	FC/PC
	UPC	FC/UPC
	NPC	FC/APC
SC	SC	SC/PC
	USC	SC/UPC
	NSC	SC/APC
ST	SL	ST/PC
	USL	ST/UPC
LSH	PE2	LSH (E2000)/PC
	UE2	LSH(E2000)/UPC
	NE2	LSH(E2000)/APC

XX XX(S²) - (LL³)AAA

XX - Ø of cable		XX - type	XX - type of fiber ²	
20	cable Ø 2.0 mm	OM1	MM 62.5/125 μm	
		OM2-5	MM 50/125 μm	
		S2D	SM 9/125 μm (G.652D)	
		S5X ⁴	SM 9/125 μm (G.655X)	
		S7X⁴	SM 9/125 μm (G.657X)	

Note:

1) AAA - additional connector types according to CON_13-01_EN - ORD_CODE datasheet 2) Mode scrambler shall be used for MM measurement

3) Standard master patchcord length – 2 m or 3 m $\,$

4) X - according fiber subtype (e.g. G.657A1)

• NPC - 2.02 standard, 2.15 on demand

• Other connector types on request

• Polishing types:

PC - multimode connectors UPC - ultra PC, singlemode connectors APC - angled PC, 8° singlemode connectors

MASTER ADAPTOR:

Attenuation between two master plugs: <0.15 dB

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