

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.

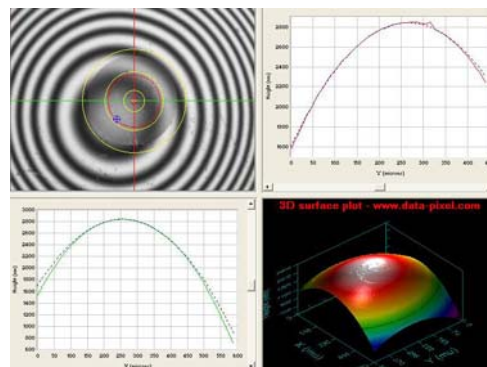
The Master patchcord is equipped with a master connector according to the specifications below. The second connector is a standard type. For the hybrid patchcord version different types of master and standard connector types are also available.



M-USC/USC-20 SM



M-SC/SC-28 M6S



Specifications:

Insertion loss (IL)

Return loss (RL)

Geometrical parameters:

Eccentricity of core for the center of ferrule
Outer diameter of ferrule

End curve offset
Fiber height
End curve radius

APC angle

Temperature stability (-40°C to +80°C)
Mating durability (500 cycles)
Cable retention (Ø 2.8 mm)

Material:

Connector body
Ferrule material
Fibre
Crimp sleeve
Boot

Singlemode

≤ 0.1 dB
(λ = 1310, 1550, 1650 nm)
UPC ≥ 55 dB
APC ≥ 65 dB

≤ 0.5 μm
Standard connectors:
SFF connectors:

Standard connectors:

SFF connectors:
8 ± 0.1°

< 0.2 dB
< 0.2 dB
100 N

metal, plastic
full ceramic zirconia
9/125
metal
rubber

Multimode

≤ 0.1 dB
(λ = 850, 1300 nm)
PC ≥ 30 dB

≤ 0.5 μm
2.499 μm
1.249 μm
≤ 25 μm
-30 to +50 nm
Standard connectors:
PC polishing 10 – 18 mm
APC polishing 5 – 12 mm
SFF connectors:
PC/APC 5 – 12 mm
N/A

< 0.2 dB
< 0.2 dB
100 N

metal, plastic
full ceramic zirconia
50/125; 62.5/125
metal
rubber

Underwriters Laboratories approval, file number OBFA.E231946

Features:		Visual inspection:				
<ul style="list-style-type: none"> • ISO 9100 approved • 100% Return loss test • 100% Visual Inspection • 100% Insertion loss test • 100% Interferometric test • Manufactured to meet EIA/TIA Standards • Batch traceability • UL approval 		Singlemode				
		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		

Ordering code:

M - YYY / AAA - XX XX

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

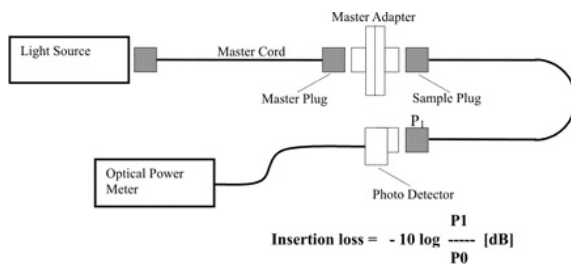
XX - diameter of cable	
17	cable Ø 1.7 mm
20	cable Ø 2.0 mm
24	cable Ø 2.4 mm
28	cable Ø 2.8 mm
XX - type of fibre	
SM	SM 9/125 µm (G.652)
M5	MM 50/125 µm
M5S	MM 50/125 µm with scrambler ²
M6	MM 62.5/125 µm
M6S	MM 62.5/125 µm with scrambler ²

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

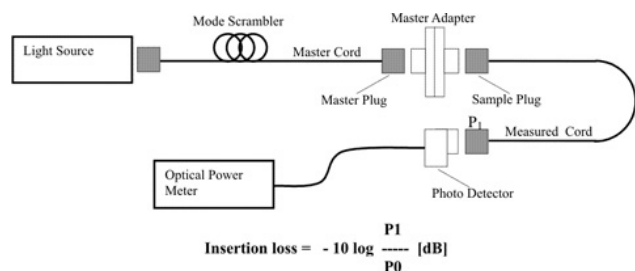
- Standard master patchcord length – 2 m, other on demand
- NPC – 2.05 standard, 2.15 on demand
- Other connector types on request
- Polishing types:
 - PC – multimode connectors
 - UPC – ultra PC, singlemode connectors
 - APC – angled PC, 8°, singlemode connectors

IEC Test Methods:

Singlemode:
IEC 874-1 4.4.7.4. Method 7



Multimode:
IEC 874-1 4.4.7.4. Method 7



Other IEC test methods – according to FOT_02-01_EN