

Type:	MCP patchcords	02.12.2014
		REV: 1.0
		AŁ
Reference:	MCP-, see system ref. below	

Mode Conditioning Patchcord



INTRODUCTION:

Fibrain mode conditioning patchcords are duplex optical connecting components, in which the signal transmitted in a single-mode fiber is injected into a multi-mode fiber. This is achieved with a controlled offset of the single-mode fiber core relatively to the multi-mode fiber core and allows a significant improvement of light propagation quality in the multi-mode fiber due to reduction of modal dispersion. Fibrain mode conditioning patchcords can be used in Gigabit Ethernet (1000Base-LX) in systems based on multi-mode cabling.

The shift of the single-mode fiber core relatively to the multi-mode fiber core reduces the impact of differential mode delay (DMD) on signal degradation.

AREAS OF APPLICATION:

- Telecommunications
- FTTX networks, PON
- Industry
- LAN, MAN, WAN

ADVANTAGES AND FEATURES:

- elimination of the DMD phenomenon to a large extent
- Duplex patchcords
- Any type of connectors
- Available with 50/125 or 62.5/125 μm multimode fiber
- Small dimensions of the SM-MM connection

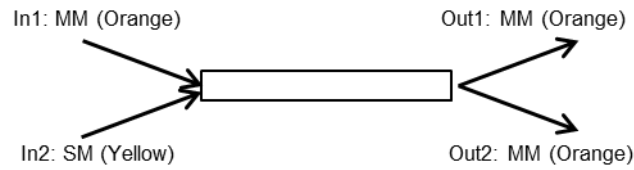
TECHNICAL SPECIFICATIONS:

Parameter	Value
Wavelength	1310 nm
Coupled power ratio (CPR) (acc. IEC 61300-3-31)	12 dB < CPR < 20 dB
SM/MM core offset	10 μm < offset < 16 μm
IL (acc. IEC 61300-3-4)	SM, MM ≤ 0.25 dB
RL (acc. IEC 61300-3-6)	SM PC ≥ 55 dB SM APM ≥ 65 dB MM PC ≥ 35 dB
Temp. operating range	-10 to +65°C
Temp. storage range	-40 to +75°C
SM-MM connection dimensions	100x26x10 mm

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Passive Optical Networks

SCHEME:



ORDERING INFORMATION:

Series	Quality	SM fiber type	Pigtail length SM-MM side	MM fiber type	Pigtail length MM-MM side	Cable type	Cable diameter	Housing type	Connectors SM-MM side	Connectors MM-MM side
MCP	G0	1 - G.652D	0 – 0.5 m	4 – MM50	0 – 0.5 m	DX - duplex	90 – 900 µm	2 - 100x26x10 mm black box	XX - none	XX - none
		2 - G.657A1	1 – 1 m	5 – OM3	1 – 1 m		20 – 2.0 mm		SC	SC
			2 – 2 m	6 - MM62.5	2 – 2 m		30 – 3.0 mm		SCA	SCA
			3 – 3 m		3 – 3 m				FC	FC
									FCA	FCA
									LC	LC
									LCA	LCA
									E2	E2
							E2A	E2A		
							ST	ST		

Example:

MCP-G0-1-0-4-4-DX-20-2-LC-ST FIBRAIN MCP DUPLEX PATCHCORD, 2.0 MM Cable, SM 0.5M, G.652, MM 4.0M, OM2, 100X26X10 housing, CONNECTORS: LC (SM SIDE), ST (MM SIDE)

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.