SXPI-E2000-APC-OS-1,5M

PATCH CORDS, PIGTAILS, ADAPTERS

Fibre Optics Pigtails

Operating temperature	**-40 to +70 °C**
Storage temperature	**-40 to +70 °C**
The diameter of the primary protection	**250 µm**
The diameter of the secondary protection	**900 µm**
Singlemode fiber type	**G.652.D, G.657.A1**
Multimode fiber type	**G.651.1**
Ferrule	**UPC, APC**
Life cycle	**min. 1 000 insertions**
Ferrule diameter of the LC connector	**1,25 mm**
Ferrule diameter of the SC / ST / E2000 connector	**2,5 mm**

Solarix fibre optics pigtails are designed for terminating optical fibers within various fibre optics patch panels and boxes. Their ferrules are of the UPC (ultra physical contact) type for both single mode and multimode pigtails or APC (angled physical contact) type for singlemode pigtails. Singlemode pigtails use the G.652.D or G.657.A1 type fibres, on the other hand, multimode pigtails use the G.651.1 type. Solarix fibre optics pigtails are available with different connectors, such as LC, SC, ST, and E2000. E2000 connectors are supplied by R & M. The standard length of Solarix pigtail is 1.5 m.

Parameter	Multimode UPC	Singlemode UPC	Singlemode APC
Max IL – insertion loss	< 0,3 dB	< 0,3 dB	< 0,3 dB
Max RL – return loss	> 35 dB	> 50 dB	> 60 dB

Part No.	Description
SXPI-E2000-APC-OS-1,5M	Pigtail 9/125 E2000APC SM OS 1,5m

FIBRE OPTICS

Optical Fibers Parameters

Singlemode Fibers Basic Parameters

Geometric Parameters	Unit	ITU-T G.652.D	ITU-T G.657.A2
Mode Field Diameter (MFD)			
@ 1 310 nm	µm	9,2 ± 0,4	8,6 ± 0,4
@ 1 550 nm	µm	10.4 ± 0,5	9,6 ± 0,4
Cladding diameter	µm	125 ± 1,0	125 ± 0,7
Coating diameter	µm	247 ± 7,0	242 ± 5,0
Core-Cladding Concentricity Error	µm	≤ 0,6	≤ 0,5
Cladding-Coating Concentricity Error	µm	≤ 12	≤ 12
Transmission Parameters			
Attenuation			
@ 1 310 nm	dB/km	≤ 0,35[1)]	≤ 0,35[1)]
@ 1 550 nm	dB/km	≤ 0,21[1)]	≤ 0,20[1)]
@ 1 625 nm	dB/km	≤ 0,24[1)]	≤ 0,23[1)]
Dispersion Coefficient			
@ 1 550 nm	ps/(nm*km)	≤ 18	≤ 18
@ 1 625 nm	ps/(nm*km)	≤ 22	≤ 23
PMD individual fibre	ps/√km	0,1	0,06
Cable Cutoff Wavelenght λcc	nm	≤ 1 260	≤ 1 260
Fibre Cutoff Wavelenght λc	nm	1 150 - 1 330	1 150 - 1 330

[1)] A typical value for fibres in loose tube cables.

Multimode Fibers Basic Parameters

Geometric Parameters	Unit	ITU-T G.651.1 OM2	ITU-T G.651.1 OM3
Core diameter	µm	50 ± 2,0	50 ± 2,0
Cladding diameter	µm	125 ± 1,0	125 ± 1,0
Core-Cladding Concentricity Error	µm	≤ 1,0	≤ 1,0
Cladding-Coating Concentricity Error	µm	≤ 6,0	≤ 6,0
Transmission Parameters			
Numerical aperture	-	0,200 ± 0,015	0,200 ± 0,015
Attenuation			
@ 850 nm	dB/km	≤ 2,7[1)]	≤ 3,0[1)]
@ 1 300 nm	dB/km	≤ 0,8[1)]	≤ 1,0[1)]
Bandwidth			
@ 850 nm	MHz*km	≥ 500	≥ 1 500
@ 1 300 nm	MHz*km	≥ 500	≥ 500

[1)] A typical value for fibres in loose tube cables.