

AFOP - Armoured Fiber Optic Patchcord

Description:

The OPTOKON Armoured Fiber Optic Patchcord enables easy handling and installation in a similar way to standard electrical cable. This most recent version of the Armoured Fiber Optic Patchcord differs from the traditional product due to the development of a micro diameter armoured flexible tube encased in stainless steel in order to prevent optical fiber from being easily destroyed or broken and also comes with the option of a flame resistant PVC coating. This unique design ensures an easier construction process therefore reducing the return loss and extending the life span of the optical fiber.



USC-ACB SM-P-002

Features:

- Strong safeguard of optical fibers due to use of stainless steel material.
- High tensile strength, pressure resistant, re-twist resistance, rodent protected.
- Easy handling similar to electrical cable and easy installation.

Specifications:

Connectors ¹ :	SC, FC, ST, LC, ...		
	Multimode	Single mode	
Optical fiber type	PC	UPC	APC
Polishing technology			
Insertion Loss ² (IL)	≤ 0.5 dB	≤ 0.25 dB	≤ 0.50 dB
Return Loss (RL)	≥ 30 dB	≥ 50 dB	≥ 60 dB
Repeatability	≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB

Optical fiber:	Multimode		Single mode	
	50±2.5	62.5±2.5	9.2±0.4 @ 1310 nm	10.4±0.8 @ 1550 nm
Core/MFD (µm)				
Cladding diameter (µm)	125±1		125±1	
Max. attenuation (db/km)	3.5 @ 850 nm 1.5 @ 1300 nm		0.5 @ 1310 nm 0.4 @ 1550 nm	

Cable jacket:

Outer diameter (mm)	AC type: 2.0±0.10 /ACB type: 2.85±0.10		
Weight (kg/km)	18		
Allowable bending radius (mm)	Dynamic 15x OD; Static 10x OD		
Tensile strength (N)	long term: 200 short term: 400		
Crush resistant (N/100 mm)	long term: 3000 short term: 5000		
Material	LSZH ³	PU ⁴	PVC ⁴
Operational temperature (°C)	-40 to +90	-40 to +90	-20 to +70
Flame resistance	UL 94V-0	UL 94V-0	UL 94V-1

Note: 1) other type on request
2) premium IL ≤ 0.10 dB – on demand
3) standard
4) on request

