

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, retwist resistance, rodent protected.
- Easy handling similar to electrical cable and easy installation.

Specifications:

SC, FC, ST, LC,		
Multimode	Single mode	
PC	UPC	APC
≤ 0.5 dB	≤ 0.25 dB	≤ 0.50 dB
≥ 30 dB	≥ 50 dB	≥ 60 dB
≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB
	Multimode PC ≤ 0.5 dB ≥ 30 dB	MultimodeSinglePCUPC $\leq 0.5 \text{ dB}$ $\leq 0.25 \text{ dB}$ $\geq 30 \text{ dB}$ $\geq 50 \text{ dB}$

Multimode		Single mode	
50±2.5	62.5±2.5	9.2±0.4 @ 1310 nm 10.4±0.8 @ 1550 nm	
125±1		125±1	
3.5 @ 850 nm		0.5 @ 1310 nm 0.4 @ 1550 nm	
	50±2.5 12 3.5 @ 8	50±2.5 62.5±2.5 125±1	

Cable jacket:

Outer diameter (mm) AC type: 2.0±0.10 /ACB type: 2.85±0.10 Weight (kg/km)

Allowable bending radius (mm) Dynamic 15x OD; Static 10x OD

long term: 200 Tensile strength (N) short term: 400 long term: 3000 Crush resistant (N/100 mm) short term: 5000

Material LSZH³ PU^4 PVC⁴ Operational temperature (°C) -40 to +90 -40 to +90-20 to +70 UL 94V-0 UL 94V-0 UL 94V-1 Flame resistance

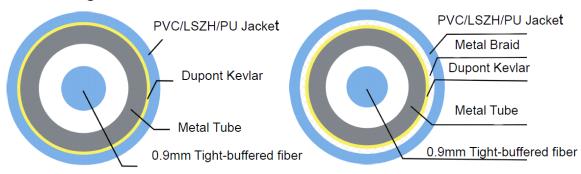
Note: 1) other type on request

2) premium IL \leq 0.10 dB – on demand

3) standard 4) on request



Cable design:



AC – armoured cable without wire braid

ACB - armoured cable with wire braid

Ordering code:

AAA - $AC(B^5) XX$ - X - XXXSingle fiber:

NxAAA - <u>AC(B⁵) XX</u> - <u>X</u> - <u>XXX</u> Multi fiber:

number of fibers (connectors)

AAA connector type according to CON_13-01_EN - ORD_CODE AC(B) XX cable and fiber type: AC SM armoured cable, SM fiber

> AC OM2 armoured cable, MM fiber 50/125 µm AC OM3 armoured cable, MM fiber 50/125 µm AC OM1 armoured cable, MM fiber 62.5/125 µm

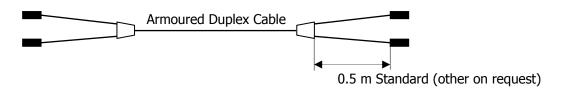
Χ jumper, patchcord

pigtail

XXXlength (m)

Note: 5) AC - armoured cable without wire braid ACB - armoured cable with wire braid

Duplex Cable:



Samples:

pigtails with FC, LC, SC connectors, single mode, 2 m length

