

# AFOP2 - 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.



## 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
- Armoured only part with connector (see drawing)

## Specifications:

### Connectors<sup>1</sup>:

Optical fiber type

Polishing technology

Insertion Loss<sup>2</sup> (IL)

Return Loss (RL)

Repeatability

SC, FC, ST, LC, ...

Multimode

**PC**

≤ 0.5 dB

≥ 30 dB

≤ 0.2 dB

Single mode

**UPC**

≤ 0.25 dB

≥ 50 dB

≤ 0.2 dB

**APC**

≤ 0.50 dB

≥ 60 dB

≤ 0.2 dB

### Optical fiber:

Cladding diameter (μm)

Max. attenuation (db/km)

Single mode

125±1

1310nm ≤ 0.4

1550nm ≤ 0.3

Multimode

125±1

850nm ≤ 3.5

1300nm ≤ 1.5

### Cable jacket:

Outer diameter (mm)

Weight (kg/km)

Allowable bending radius (mm)

Crush resistant (N/100 mm)

Material

Operational temperature (°C)

6.8 - 7.0

42

15 x OD

long term: 200

short term: 400

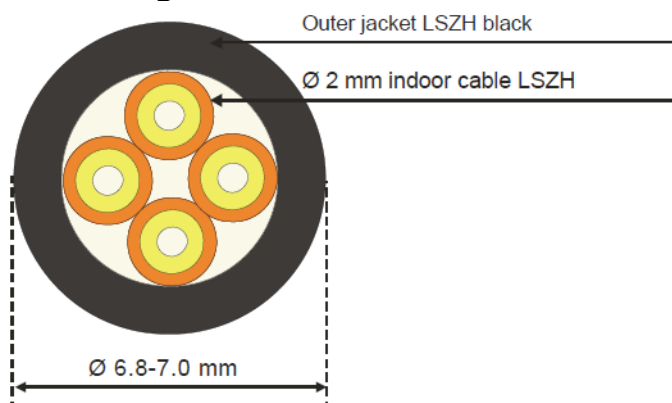
LSZH

-20 to +60

Note: 1) other type on request

2) premium IL ≤ 0.10 dB – on demand

## Cable design:



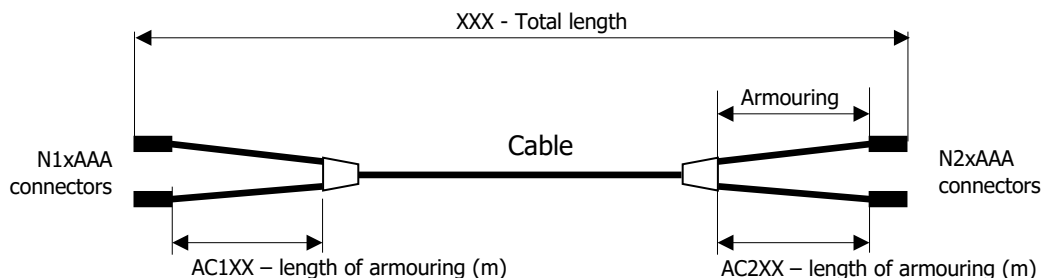
Breakout cable 4x 2.0 LSZH simplex optical fiber cable

## Ordering code:

|               |   |               |   |               |   |          |   |              |   |              |   |            |
|---------------|---|---------------|---|---------------|---|----------|---|--------------|---|--------------|---|------------|
| <b>N1xAAA</b> | - | <b>N2xAAA</b> | - | <b>XXXXXX</b> | - | <b>X</b> | - | <b>AC1XX</b> | - | <b>AC2XX</b> | - | <b>XXX</b> |
|---------------|---|---------------|---|---------------|---|----------|---|--------------|---|--------------|---|------------|

|               |                                                     |
|---------------|-----------------------------------------------------|
| <b>N</b>      | number of fibers (1-4 connectors)                   |
| <b>AAA</b>    | connector type according to CON_13-01_EN - ORD_CODE |
| <b>XXXXXX</b> | cable and fiber type:                               |
|               | MB4S7A cable, SM fiber                              |
|               | MB4OM2 cable, MM fiber 50/125 µm                    |
|               | MB4OM3 cable, MM fiber 50/125 µm                    |
|               | MB4OM1 cable, MM fiber 62.5/125 µm                  |
| <b>X</b>      | J<br>P<br>jumper, patchcord<br>pigtail              |
| <b>ACXX</b>   | length of armouring (m)                             |
| <b>XXX</b>    | Total length                                        |

## Drawing multipatchcord:



## Sample:

4xULC-4xUPC-MB4S7A-J-AC0,3-AC0,5-010