

## ASOP - Shielded Fiber Optic Patchcord

### Description:

The OPTOKON Shielded Fiber Optic Patchcord enables easy handling and installation in a similar way to standard electrical cable. This most recent version of the Shielded Fiber Optic Patchcord offers increased protection against the possibility of light leakage in order to eavesdrop on the signal while reducing the bending radius below the recommended limit. This unique design ensures an easier construction process therefore reducing the return loss and extending the life span of the optical fiber.



### Features:

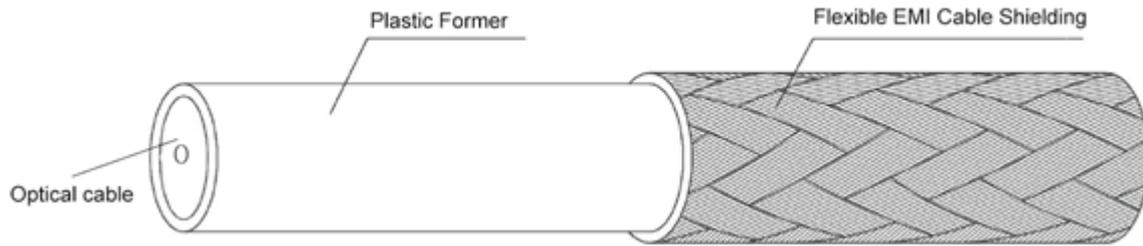
- Strong safeguard of optical fibers due to use of metal braid
- High tensile strength, pressure resistant, re-twist resistance, rodent protected
- Easy handling similar to electrical cable and easy installation
- Increased eavesdropping protection
- Available with MM, SM, PC and APC polished connectors

### Specifications:

Connectors <sup>1</sup> :	SC, FC, ST, LC, ...		
Optical fiber type	Multimode		Single mode
Polishing technology	PC	UPC	APC
Insertion Loss (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
Core/MFD (µm)	50±2.5	62.5±2.5	9.2±0.4 @ 1310 nm 10.4±0.8 @ 1550 nm
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

Note: 1) other type on request

## Flexible EMI Cable Shielding



- High screening efficiency and low surface transfer impedance values with computer optimization and Quality control automation
- Average nominal optical closure 99%, minimum or value 93%
- High expansion and contraction ability with super elasticity
- Plastic Former that can be easily removed and used as a guide
- In addition to facilitating the installation of guide hose, it provides protection of the EMI cable shielding braid form.
- It is produced in 11 different diameters from 3mm to 40mm according cable type
- It is suitable for cable screening in military standards.

### Flexible EMI Cable Shielding Cu/Sn\* or Cu/Ni\*

Wire Size AWG/mm	Harness Tolerance (mm)**		Coverage %		Max. weight (kg/km)***
	Min Ø	Max. Ø	Minimum	Nominal	
	38/0,10	2,5	5,0	93,00	99,0

#### NOTE:

\* With tin or nickel -plated copper wire

\*\* Recommended harness tolerance values. Reference values can be increased or decreased according to the application.

\*\*\* Max. weight value does not include optical cable weight. The thickness tolerance value for copper wire is  $\pm 3,5$  turns.

**Ordering code:**

**Single fiber: AAA - AS XX - X - XXX**

<b>AAA</b>	connector type according to CON_13-01_EN - ORD_CODE
<b>AS XX</b>	cable and fiber type:
	AS S7A1 shielded cable, SM fiber G.657.A1
	AS OM2 shielded cable, MM fiber 50/125 µm
	AS OM3 shielded cable, MM fiber 50/125 µm
	AS OM1 shielded cable, MM fiber 62.5/125 µm
<b>X</b>	J jumper, patchcord
	P pigtail
<b>XXX</b>	length (m)