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Robust PCF installation cable for indoor use with highly tear-proof aramid strain relief elements. Individual elements made from highly flexible FRNC material. The cable is halogen-free, ozone and UV-resistant with robust polyurethane (PUR) outer sheath, assembled with 2x F-SMA to 2x F-SMA, length: 1.5 m

## Your advantages

- High degree of reliability, thanks to the exceptional quality
- Reliable even in EMC-sensitive applications
- Fast data transmission for demanding applications
- Universal installation cables for fixed installation indoors and outdoors (direct underground installation not permitted)
- Highly tear-resistant aramid strain relief elements
- Halogen-free, ozone, and UV resistant
- Robust polyurethane (PUR) outer sheath

## Commercial data

Item number	1012910
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNIBB
GTIN	4055626495279
Weight per piece (including packing)	128.5 g
Weight per piece (excluding packing)	96.56 g
Country of origin	DE

# FOC-FS:A-FS:A-HB03/1,5 - FO patch cable

1012910

<https://www.phoenixcontact.com/us/products/1012910>



## Technical data

### Product properties

Product type	Data cable preassembled
Application	Standard
Number of positions	2
Number of slots	2

### Electrical properties

Attenuation	≤ 1.5 dB (at 650 nm) ≤ 1.5 dB (with 850 nm)
Transmission medium	PCF fiber
Transmission speed	100 Mbps
Transmission speed	100 Mbps

### Mechanical properties

Mechanical data	
Smallest bending radius	=> 150 mm with outer sheath

### Material specifications

Color (Male connector)	black (RAL 9005)
Color (Cable)	orange (RAL 2003)
Outer sheath, material	PUR

### Dimensions

External dimensions	
External diameter min.	7.5 mm
External diameter max.	8.5 mm

Mechanical characteristics	
Ferrule diameter	3.17 mm

### Connection data

Connection technology	
Connection method	F-SMA
Conductor connection	
Connection method	F-SMA

### Connector

Connection 1	
Type	Plug straight FSMA
Degree of protection	IP20

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IP20

## Connection 2

Type	Plug straight FSMA
Degree of protection	IP20

## Cable/line

Cable length	1.50 m
Cable weight	54 kg/km
External cable diameter	8 mm
Outer sheath, material	PUR
Single wire, number of litz wires	2
Single wire, material	FRNC material
Individual wire diameter	2.9 mm ±0.1 mm
Numerical aperture	0.37
Tensile strength	1000 N (Short-term) 200 N (permanent)
Impact strength	2 Nm / 10 x
Bending radius, single element	30 mm (Short-term) 30 mm (Short-term)
Bending radius, entire cable	60 mm (Short-term) 60 mm (Short-term)
660 nm	10 dB/km
850 nm	8 dB/km
Halogen-free	According to IEC 60754-2
Resistance to oil	IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1
Behavior in fire	1.72 MJ/m (0.48 kWh/m)

## FO cable

Number of fibers	2
Fiber	200/230 µm
Fiber type	PCF
Cable, attenuation	< 1,0 dB
Attenuation	10 dB/km
Transmission medium	PCF fiber

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Impact strength	2 Nm / 10 x
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 55 °C
Resistance to UV radiation	500 hours, in accordance with DIN EN ISO 4892-2
Resistance to oil	according to IRM 902, 72 h at 100 °C

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## Standards and regulations

Flame resistance	yes
Resistance to oil	according to IRM 902, 72 h at 100 °C

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## Classifications

### ECLASS

ECLASS-13.0	27061003
ECLASS-15.0	27061003

### ETIM

ETIM 9.0	EC002607
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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