

## FO cable - PSM-LWL-RUGGED-FLEX-980/1000 - 2744335

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Polymer fiber cable, duplex 980/1000  $\mu\text{m}$ , heavy-weight, highly flexible version for flexible conduit applications, by the meter, without connector

### Your advantages

- ✓ Highly flexible round cable for use in trailing cables or drag chains
- ✓ 2.2 mm individual wires made from extremely hard-wearing polyamide (PA)
- ✓ Rugged polyurethane (PUR) outer sheath
- ✓ Designed for an alternating bending frequency of up to 5,000,000 cycles
- ✓ Halogen-free, ozone, and UV resistant

### Key Commercial Data

Packing unit	1 M
GTIN	
GTIN	4017918170837
Weight per Piece (excluding packing)	0.010 g
Custom tariff number	85447000
Country of origin	Germany

### Technical data

#### Mechanical characteristics

Number of positions	2
Fiber	Polymer fiber, 980/1000 $\mu\text{m}$
Cable diameter	8 mm
Duty cycle testing	5 000 000 cycles

#### Ambient conditions

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m

### Material data

Outer sheath, material	PUR
External sheath, color	red
Fiber	Polymer fiber, 980/1000 µm

### Electrical characteristics

Number of positions	2
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### Line characteristics

Cable type	Polymer fiber
Cable abbreviation	J-V11Y 4Y2P 980/1000 180A 10
Length of cable	Free input (0.4 ... 100 m)
External cable diameter	8 mm
Wire colors	black/orange
External sheath, color	red
Outer sheath, material	PUR
Strain relief elements, external sheath	Non-metallic, aramide fiber
Cable weight	54 kg/km
Bending radius, single element	30 mm (Short-term) 30 mm (Permanent)
Bending radius, entire cable	50 mm (Short-term) 50 mm (Permanent)
Tensile strength short-term/long-term	200 N / 100 N
Lateral pressure short term	300 N/cm
Lateral pressure, long-term	20 N/cm
Impact strength	2 Nm / 10 x
cable layer type	Indoors
Halogen-free	According to IEC 60754-2
Fiber	Polymer fiber, 980/1000 µm

### Attenuation

660 nm	275 dB/km
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### Standards and Regulations

Duty cycle testing	5 000 000 cycles
Impact strength	2 Nm / 10 x

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## Technical data

### Standards and Regulations

Halogen-free	According to IEC 60754-2
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### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Classifications

### eCl@ss

eCl@ss 4.0	27061001
eCl@ss 4.1	27061001
eCl@ss 5.0	27061803
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27061803
eCl@ss 8.0	27061803
eCl@ss 9.0	27061803

### ETIM

ETIM 2.0	EC000034
ETIM 3.0	EC000034
ETIM 4.0	EC000034
ETIM 5.0	EC000034
ETIM 6.0	EC000034

### UNSPSC

UNSPSC 6.01	26121607
UNSPSC 7.0901	26121607
UNSPSC 11	26121607
UNSPSC 12.01	26121607
UNSPSC 13.2	26121607

## Approvals

### Approvals

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Approvals

EAC

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### Approvals

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Ex Approvals

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### Approval details

EAC		EAC-Zulassung
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### Accessories

Accessories

Assembly tool

Assembly tool - PSM-SET-FSMA-POLISH - 2799348



Polymer fiber polishing set, for F-SMA quick mounting connectors

Assembly tool - PSM-POF-KONFTOOL - 2744131



Polymer fiber DIY case, consisting of: Stripping knife, stripping pliers, polishing wheels for F-SMA and SC-RJ quick mounting connectors, polishing pad and emery paper

Stripping tool - PSM-FO-STRIP - 2744199



Stripping pliers for transmitting individual elements of the fiber optic cable. Especially suited for all polymer and PCF cables. Special mechanics and precise blade form avoid damage to the fiber optic fibers. Dimensions: (L x W x H) 160 x 130 x 36 mm.

Connector set

## FO cable - PSM-LWL-RUGGED-FLEX-980/1000 - 2744335

### Accessories

FO connectors - PSM-SET-SCRJ-DUP/2-POF - 2708656



SC-RJ connector set for polymer fiber, for self assembly, consisting of 2 duplex quick mounting connectors with bending protection

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FO connectors - PSM-SET-FSMA/4-KT - 2799720



F-SMA plug set for polymer fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

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### Data cable preassembled

FO patch cable - FOC-RUGGED-FLEX-1013/IP20/... - 2901549



Highly flexible POF round cable (IP20 heads only) for use in drag chains. Individual elements made from extremely wear-resistant polyamide (PE). The cable is halogen-free, ozone and UV resistant, and has a rugged polyurethane (PUR) outer sheath.

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FO patch cable - FOC-RUGGED-FLEX-1013/... - 1402187



Highly flexible POF round cable for use in drag chains for an alternating bending frequency of up to 5 million cycles with individual elements made of highly wear-resistant polyamide (PE). The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

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### Stripping tool

Stripping tool - WIREFOX-D 16 - 1212173



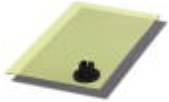
Stripping tool, for stripping lines (specially for fiber optics lines) of  $\varnothing$  4 - 16 mm

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### Accessories

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FO accessories - VS-SCRJ-POF-POLISH - 1656673



Refilling set for VS-SC-RJ-POF-KONFTOOL-POLISH, consisting of two polishing discs and a polisher

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