

# FL FOC PN-C-FLEX-980/1000 - FO cable



2313407

<https://www.phoenixcontact.com/us/products/2313407>

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

## Your advantages

- Highly flexible round cable for use in trailing cables or drag chains
- For indoors
- 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
- PROFINET type C
- Halogen-free, ozone, and UV resistant

## Commercial data

Item number	2313407
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to order (non-returnable)
Sales key	DN06
Product key	DNC231
GTIN	4046356418508
Weight per piece (including packing)	51.74 g
Weight per piece (excluding packing)	51 g
Customs tariff number	85447000
Country of origin	DE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Data cable by the meter
Number of positions	2

### Electrical properties

Transmission medium	Polymer fiber
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### Interfaces

Signal	Ethernet
	PROFINET
	PROFIBUS
	Modbus

### Dimensions

#### External dimensions

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

### Material specifications

Outer sheath, material	PUR
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### Cable/line

Cable length	Free input (0.4 ... 100 m)
Cable weight	51 kg/km
Cable abbreviation	J-V11Y 4Y2P 980/1000 180A 10
External cable diameter	8 mm
Outer sheath, material	PUR
External sheath, color	green
External sheath, strain relief elements	Non-metallic, aramide fiber
Single wire, material	PA
Individual wire diameter	2.2 mm ±0.07 mm
Single wire, color	black and orange with arrow labeling
Bending radius, single element	30 mm (Short-term)
	30 mm (Short-term)
Bending radius, entire cable	50 mm (Short-term)
	50 mm (Short-term)
	30 mm (Short-term)

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Bending radius	30 mm (permanent)
	50 mm (Short-term)
	50 mm (permanent)
Duty cycle testing	5 000 000 cycles
Tensile strength short-term/long-term	200 N / 100 N
Lateral pressure short term	200 N/cm
Lateral pressure, long-term	20 N/cm
Impact strength	2 Nm / 10 x
660 nm	275 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	1.68 MJ/m (0.40 kWh/m)

## FO cable

Fiber	Polymer fiber, 980/1000 µm
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## Mechanical properties

Duty cycle testing	5 000 000 cycles
Tensile strength short-term/long-term	200 N / 100 N

## Environmental and real-life conditions

### Ambient conditions

Impact strength	2 Nm / 10 x
Ambient temperature (operation)	-20 °C ... 70 °C
	-20 °C ... 70 °C (with quick mounting connector)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Ambient temperature (installation)	5 °C ... 50 °C
Altitude	5000 m
Resistance to oil	IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1

## Standards and regulations

Behavior in fire	1.68 MJ/m (0.40 kWh/m)
Resistance to oil	IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1

### Testing

Duty cycle testing	5 000 000 cycles
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## Mounting

cable layer type	Flexible cable conduit application
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## Classifications

### ECLASS

ECLASS-13.0	27061803
ECLASS-15.0	27061803

### ETIM

ETIM 9.0	EC000034
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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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