

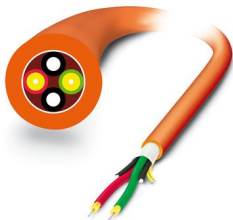
# PSM-LWL-HCS-RUGGED-200/230 - FO cable



2799885

<https://www.phoenixcontact.com/us/products/2799885>

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PCF cable, duplex 200 µm/230 µm, by the meter without male connector, for installation in stationary systems and machines

## Your advantages

- Robust installation cable for installation in stationary systems and machines
- For indoors
- 2.9 mm individual wires made from highly flexible FRNC material
- Highly tear-resistant aramid strain relief elements
- Rugged polyurethane (PUR) outer sheath
- Halogen-free, ozone, and UV resistant

## Commercial data

Item number	2799885
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to order (non-returnable)
Sales key	DN06
Product key	DNC232
Catalog page	Page 412 (C-2-2019)
GTIN	4017918074159
Weight per piece (including packing)	47 g
Weight per piece (excluding packing)	47 g
Customs tariff number	85447000
Country of origin	DE

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## Technical data

### Product properties

Product type	Data cable by the meter
Tensile strength GRP	1000 N (Short-term)
	200 N (Permanent)

### Electrical properties

Transmission medium	PCF fiber
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### Interfaces

Signal	INTERBUS
	PROFIBUS
	Point-to-point
	Ethernet
	RS-485

### 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 (1.0 ... 2000 m)
Cable weight	54 kg/km
Cable abbreviation	I-VH11Y 2K200/230 HCS
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
Bending radius, single element	30 mm (Short-term)
	30 mm (Short-term)
Bending radius, entire cable	60 mm (Short-term)
	60 mm (Short-term)
Bending radius	30 mm (Short-term)
	50 mm (Permanent)
	60 mm (Short-term)
	60 mm (Permanent)

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Tensile strength	1000 N (Short-term)
	200 N (Permanent)
Impact strength	2 Nm / 10 x
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

Fiber	PCF, 200/230 µm
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## Environmental and real-life conditions

### Ambient conditions

Impact strength	2 Nm / 10 x
Ambient temperature (operation)	-40 °C ... 70 °C
	-20 °C ... 70 °C (with quick mounting connector)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (installation)	-20 °C ... 60 °C
Altitude	5000 m
Resistance to UV radiation	500□hours, in accordance with DIN□EN□ISO□4892-2
Resistance to oil	IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1

## Standards and regulations

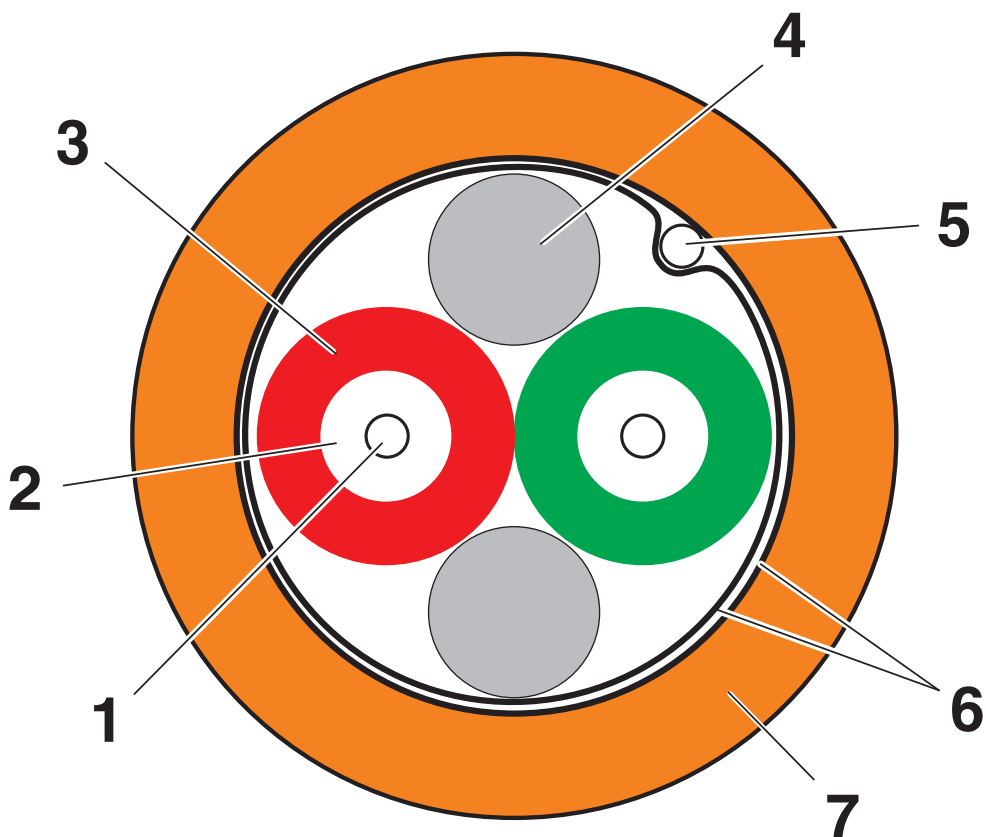
Resistance to UV radiation	500□hours, in accordance with DIN□EN□ISO□4892-2
Behavior in fire	1.72 MJ/m (0.48 kWh/m)
Free from substances that could impair the application of coating	in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0
Resistance to oil	IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1

## Mounting

cable layer type	Indoors
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Drawings

Schematic diagram



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## Classifications

### ECLASS

ECLASS-11.0	27061803
ECLASS-12.0	27061803
ECLASS-13.0	27061803

### ETIM

ETIM 9.0	EC000034
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

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

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## Accessories

### PSM-SET-FSMA/4-HCS - FO connectors

2799487

<https://www.phoenixcontact.com/us/products/2799487>

FO connectors, degree of protection: IP20, number of positions: 2, MM, material: Metal, connection method: Cable connection, cable outlet: straight



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### PSM-SET-B-FOC/4-HCS - FO connectors

2708481

<https://www.phoenixcontact.com/us/products/2708481>

FO connectors, degree of protection: IP20, number of positions: 4, MM, material: Metal, connection method: Cable connection, cable outlet: straight



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## PSM-SET-SCRJ-DUP/2-HCS - FO connectors

2313070

<https://www.phoenixcontact.com/us/products/2313070>

FO connectors, degree of protection: IP20, number of positions: 2, MM, material: Plastic, connection method: Cable connection, cable outlet: straight, color: black



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## PSM-HCS-KONFTOOL - Assembly tool

2799526

<https://www.phoenixcontact.com/us/products/2799526>



PCF assembly kit for F-SMA quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS fibers, four F-SMA connectors for standard PCF fibers, and documentation



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## PSM-HCS-KONFTOOL/B-FOC - Assembly tool

2708465

<https://www.phoenixcontact.com/us/products/2708465>



HCS assembly kit for B-FOC(ST) quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS and HCS GI fibers, four B-FOC(ST) connectors for standard HCS fiber, and documentation

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## PSM-HCS-KONFTOOL/SC-RJ - Assembly tool

2708876

<https://www.phoenixcontact.com/us/products/2708876>



HCS assembly kit for SC-RJ quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS and HCS GI fibers, two SC-RJ connectors for standard HCS fiber, and documentation

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## PSM-HCS-CLEAVETOOL - Assembly tool

2744995

<https://www.phoenixcontact.com/us/products/2744995>



Fiber cleaving tool for PCF fibers, pin assignment: F-SMA for the assembly of F-SMA quick mounting connectors, supplements PSM-PCF-KONFTOOL...

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## PSM-HCS-CLEAVETOOL/B-FOC - Assembly tool

2708478

<https://www.phoenixcontact.com/us/products/2708478>



Fiber cleaving tool for PCF fibers, pin assignment: B-FOC (ST) for the assembly of B-FOC quick mounting connectors, supplements PSM-PCF-KONFTOOL...

## PSM-LWL-HCS-RUGGED-200/230 - FO cable

2799885

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## PSM-HCS-CLEAVETOOL/SCRJ - Assembly tool

2313122

<https://www.phoenixcontact.com/us/products/2313122>



Fiber cleaving tool for PCF fibers, pin assignment: SC-RJ or SC duplex for the assembly of SC quick mounting connectors, supplements PSM-PCF-KONFTOOL...

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## FOC-HCS-RUGGED-1014/IP20/... - FO patch cable

2901555

<https://www.phoenixcontact.com/us/products/2901555>



Robust PCF installation cable for assembly (IP20 heads only) for installation in stationary systems and machines, aramid strain relief elements, with individual elements made from FRNC material, halogen-free, ozone and UV resistant, with a polyurethane (PUR) outer sheath

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## PSM-FO-STRIP - Stripping tool

2744199

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

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