

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



2799885

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



2799885

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

## 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
---------------------	-----------

### 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

Color (Outer sheath)	orange (RAL 2003)
Color (Single-core wire)	red (RAL 3001)
Outer sheath, material	PUR

### 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)

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



2799885

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

	60 mm (Short-term)
	60 mm (Permanent)
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
-------	-----------------

## 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
------------------	---------

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



2799885

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

## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC000034
----------	----------

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

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



2799885

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

## Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)