

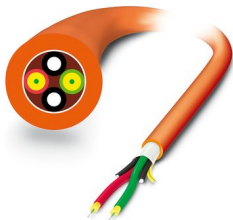
# PSM-LWL-GDM-RUGGED- 50/125 - FO cable



2799322

<https://www.phoenixcontact.com/us/products/2799322>

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Fiber glass cable, duplex 50  $\mu\text{m}$ /125  $\mu\text{m}$ , 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
- Rugged polyurethane (PUR) outer sheath
- Highly tear-resistant aramid strain relief elements
- 2.9 mm individual wires made from highly flexible FRNC material
- Halogen-free, ozone, and UV resistant

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2799322                        |
| Packing unit                         | 1 m                            |
| Minimum order quantity               | 1 m                            |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DN06                           |
| Product key                          | DNC233                         |
| Catalog page                         | Page 372 (C-8-2015)            |
| GTIN                                 | 4017918074029                  |
| Weight per piece (including packing) | 51.88 g                        |
| Weight per piece (excluding packing) | 51.88 g                        |
| Customs tariff number                | 85447000                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Number of positions | 2                       |

### Electrical properties

|                     |                       |
|---------------------|-----------------------|
| Transmission medium | Multi-mode fiberglass |
|---------------------|-----------------------|

### 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 |
|------------------------|-----|

### Cable/line

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Cable length                          | Free input (1.0 ... 2000 m)           |
| Cable weight                          | 50 kg/km                              |
| Cable abbreviation                    | I-V(ZN)H11Y 2G50/125 2,5B600+0,7F1200 |
| External cable diameter               | 8 mm                                  |
| Outer sheath, material                | PUR                                   |
| Single wire, material                 | FRNC material                         |
| Individual wire diameter              | 2.9 mm ±0.1 mm                        |
| Bending radius, single element        | 30 mm (Short-term)                    |
|                                       | 30 mm (Short-term)                    |
| Bending radius, entire cable          | 65 mm (Short-term)                    |
|                                       | 65 mm (Short-term)                    |
| Bending radius                        | 30 mm (Short-term)                    |
|                                       | 50 mm (Permanent)                     |
|                                       | 65 mm (Short-term)                    |
|                                       | 65 mm (Permanent)                     |
| Tensile strength short-term/long-term | 1000 N / 200 N                        |
| Lateral pressure short term           | 400 N/cm                              |
| Lateral pressure, long-term           | 100 N/cm                              |

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|                 |                          |
|-----------------|--------------------------|
| Impact strength | 2 Nm / 10 x              |
| 850 nm          | 2.5 dB/km                |
| 1300 nm         | 0.7 dB/km                |
| Halogen-free    | According to IEC 60754-2 |

## FO cable

|       |                       |
|-------|-----------------------|
| Fiber | Fiberglass, 50/125 µm |
|-------|-----------------------|

## Mechanical properties

|                                       |                |
|---------------------------------------|----------------|
| Tensile strength short-term/long-term | 1000 N / 200 N |
|---------------------------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Impact strength                         | 2 Nm / 10 x      |
| Ambient temperature (operation)         | -20 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Ambient temperature (installation)      | -5 °C ... 50 °C  |
| Altitude                                | 5000 m           |

## Mounting

|                  |         |
|------------------|---------|
| cable layer type | Indoors |
|------------------|---------|

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## Classifications

### ECLASS

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

### ETIM

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

### 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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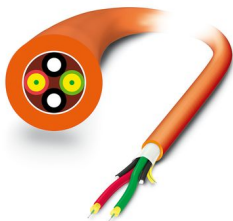
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## Accessories

### FOC-GDM-RUGGED-1016/IP20/... - FO patch cable

2901558

<https://www.phoenixcontact.com/us/products/2901558>



Robust GOF 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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