

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



2744322

<https://www.phoenixcontact.com/nl/products/2744322>

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Polymer fiber cable, duplex 980µm/1000µm, heavy-weight version for installation in stationary systems and machines, by the meter without male connector

## Your advantages

- Robust installation cable for installation in stationary systems and machines
- For indoors
- Designed to meet increased requirements in terms of tensile and lateral loads
- Reinforced polyurethane (PUR) outer sheath
- 2.2 mm individual wires made from extremely hard-wearing polyamide (PA)
- Halogen-free, ozone, and UV resistant

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2744322                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DNC231                         |
| Product key                          | DNC231                         |
| GTIN                                 | 4017918170844                  |
| Weight per piece (including packing) | 51,74 g                        |
| Weight per piece (excluding packing) | 51,74 g                        |
| Customs tariff number                | 85447000                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|                     |   |
|---------------------|---|
| Number of positions | 2 |
|---------------------|---|

### Electrical properties

|                     |               |
|---------------------|---------------|
| Transmission medium | Polymer fiber |
|---------------------|---------------|

### Interfaces

|        |          |
|--------|----------|
| Signal | Ethernet |
|--------|----------|

### Dimensions

#### External dimensions

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

### Material specifications

|                            |                  |
|----------------------------|------------------|
| Color (Outer sheath)       | red (RAL 3001)   |
| Color (Single-core wire)   | black (RAL 9005) |
| Material (Separating film) | Aluminum         |
| Outer sheath, material     | PUR              |

### Cable/line

|                                         |                              |
|-----------------------------------------|------------------------------|
| Cable length                            | Free input (0.4 ... 100 m)   |
| Cable weight                            | 54 kg/km                     |
| Cable abbreviation                      | J-V11Y 4Y2P 980/1000 160A 10 |
| External cable diameter                 | 8 mm                         |
| Outer sheath, material                  | PUR                          |
| External sheath, strain relief elements | Non-metallic, aramide fiber  |
| Single wire, material                   | PA                           |
| Individual wire diameter                | 2.2 mm ±0.07 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)           |
|                                         | 30 mm (permanent)            |
|                                         | 65 mm (Short-term)           |
|                                         | 65 mm (permanent)            |

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|                                       |                          |
|---------------------------------------|--------------------------|
| Tensile strength short-term/long-term | 1000 N / 100 N           |
| Lateral pressure short term           | 300 N/cm                 |
| Lateral pressure, long-term           | 20 N/cm                  |
| Impact strength                       | 2 Nm / 10 x              |
| 660 nm                                | 230 dB/km                |
| Halogen-free                          | According to IEC 60754-2 |

## FO cable

|       |                            |
|-------|----------------------------|
| Fiber | Polymer fiber, 980/1000 µm |
|-------|----------------------------|

## Mechanical properties

|                                       |                |
|---------------------------------------|----------------|
| Tensile strength short-term/long-term | 1000 N / 100 N |
|---------------------------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Impact strength                         | 2 Nm / 10 x      |
| Ambient temperature (operation)         | -20 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Ambient temperature (installation)      | -5 °C ... 50 °C  |
| Altitude                                | 5000 m           |

## Mounting

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061803 |
| ECLASS-15.0 | 27061803 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000034 |
|-----------|----------|

### 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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