

HITRONIC® POF DUPLEX FD PE-PUR
DB28320002EN
 valid from: 13.06.2016

1. Product Description

Cable designation: J-V2Y(ZN)11Y 2P980/1000

2. Application

HITRONIC® POF DUPLEX FD PE-PUR are highly flexible POF duplex core cables with reinforced PUR outer sheath for use in drag chains and moved installations in industrial environments. They are designed for optical signal transmission in dry rooms under increased mechanical stress. The cables are suitable for direct connector assembly.

3. Cable Design


| | |
|--------------------------|----------------------------------------------------------|
| Fibre type | Polymer optical fibre (POF) |
| Fibre construction | Polymethylmethacrylate cores with fluoropolymer cladding |
| Cable inner sheath | Polyethylene (PE) |
| Strain relief | Aramid yarns, longitudinal |
| Cable outer sheath | Polyurethane (PUR) |
| Colour of buffer coating | Black, Orange |
| Colour of outer sheath | Orange, similar to RAL 2003 |

4. Optical and Physical Properties of Fibre

| | | | |
|--------------------|----------|------------|------------|
| Attenuation | @ 650 nm | dB/km | ≤ 160 |
| | @ 660 nm | dB/km | ≤ 230 |
| Bandwidth | @ 650 nm | MHz · 100m | ≥ 10 |
| Numerical aperture | | | 0.5 ± 0.05 |
| Core diameter | | µm | 980 ± 2 |
| Cladding diameter | | µm | 1000 ± 2 |

5. Thermal Properties

| | |
|--------------------------|----------------|
| Operating temperature | -20°C to +70°C |
| Installation temperature | -10°C to +50°C |
| Storage temperature | -40°C to +80°C |



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6. Mechanical Properties

| | | |
|-------------------------------------------------------------------|--------------------|--------------------|
| Number of fibres | | 2 |
| Fibre diameter | | 2.2 mm |
| Cable outer diameter | | 6.0 mm |
| Cable weight | | 30 kg/km |
| Min. bending radius | | 10x cable ø |
| Max. tensile strength | fixed installation | 100 N |
| | short term | 400 N |
| Max. lateral pressure | fixed installation | 440 N/10cm |
| | short term | 2.200 N/10cm |
| For use in drag chains* | bending cycles | min 5.000.000 |
| | speed | 3 m/s |
| | acceleration | 3 m/s ² |
| <i>* Please note assembly guidelines T3 (LAPP main catalogue)</i> | | |

7. Chemical Properties

| | |
|-------------------|--------------------------------------------------------------|
| PE buffer coating | Non-aging, halogen free, good stability to acids and alkalis |
| PUR outer sheath | Flame retardant, halogen free, oil resistant |

8. Approvals

This cable is conform to the EU-Directive 2011/65/EU:
RoHS (Restriction of the use of hazardous substances)

9. Product Range Overview

| Part number | Article designation | No. of Fibres | Outer ø (mm) |
|-------------|--------------------------------|---------------|--------------|
| 28320002 | HITRONIC® POF DUPLEX FD PE-PUR | 2 | 6.0 |

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