

**HITRONIC® POF SIMPLEX PE-PUR**
**DB28020001EN**  
 valid from: 13.06.2016

**1. Product Description**

Cable designation J-V2Y(ZN)11Y 1P980/1000

**2. Application**

HITRONIC® POF SIMPLEX PE-PUR cables are POF single fibre cables with reinforced PUR sheath for use in fixed installations in industrial environments. They are designed for optical signal transmission in dry rooms under increased mechanical stress. They also are resistant to specific oils, microbes and hydrolysis. The cables are suitable for direct connector assembly.

**3. Cable Design**


Fibre type	Polymer optical fibre
Cable core	Polymethylmethacrylate core with fluoropolymer cladding
Buffer	Polyethylene (PE)
Strain relief	Aramid yarns, longitudinal
Cable sheath	Polyurethane (PUR)
Colour of buffer	Black
Colour of sheath	Orange, similar to RAL 2003

**4. Optical and Physical Properties of Fibre**

Attenuation coefficient	@ 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		1
Fibre diameter		2.2 mm
Cable outer diameter		5.5 mm
Cable weight		25 kg/km
Min. bending radius	fixed installation	55 mm
	short term	30 mm
Max. tensile strength	fixed installation	100 N
	short term	600 N
Max. lateral pressure	fixed installation	100 N/10 cm
	short term	1.000 N/10 cm

**7. Chemical Properties**

PE buffer	Non-aging, halogen-free, good stability to specific acids and alkalis
PUR sheath	Flame retardant, halogen free

**8. Approvals**

Die Leitungen sind konform zur EU-Richtlinie 2011/65/EU:  
RoHS (Restriction of the use of hazardous substances)

**9. Product Range Overview**

Part number	Article designation	No. of Fibres	Outer $\varnothing$ (mm)
28020001	HITRONIC® POF SIMPLEX PE-PUR	1	5.5

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