

HITRONIC® POF SIMPLEX PE

DB28000001EN

valid from: 13.06.2016

1. Product Description

Cable designation J-V2Y 1P980/1000

2. Application

HITRONIC® POF SIMPLEX PE cables are POF single cores for use in fixed installations in industrial environment. They are designed for optical signal transmission in dry rooms under low mechanical stress. The cables are equipped with a PE buffer coating and are suitable for direct connector assembly.

Application range:

Indoor use in industrial environment, fixed installation in control cabinets, cable ducts and tubes

3. Cable Design

Fibre type	Polymer optical fibre (POF)
Cable core	Polymethylmethacrylate with fluoropolymer cladding
Buffer coating	Polyethylene (PE)
Colour of buffer coating	Black, similar RAL 9005
Colour coding	Black (other colours on demand)

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	-55°C to +85°C
Installation temperature	-10°C to +50°C
Storage temperature	-55°C to +85°C



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6. Mechanical Properties

Number of fibres		1
Cable outer diameter		2.2 mm
Cable weight		3.8 kg/km
Min. bending radius	fixed installation	25 mm
Max. tensile strength	long term	5 N
	short term	15 N

7. Chemical Properties

PE buffer coating	Non-aging, halogen-free, good stability to acids and alkalis
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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

Article number	Article designation	No. of Fibres	Outer \varnothing (mm)
28000001	HITRONIC® POF SIMPLEX PE	1	2.2