

HITRONIC® POF DUPLEX PE

DB2800002EN

valid from: 13.06.2016

1. Product Description

Cable designation: J-V2Y 2P980/1000

2. Application

HITRONIC® POF DUPLEX PE are POF duplex core cables with polyethylene sheath for use in fixed installations in industrial environments. They are designed for optical signal transmission in dry rooms under low 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 outer sheath	Polyethylene (PE)
Colour of outer sheath	Black, similar RAL 9005
Colour coding	One fibre marked with white dots

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		2
Cable outer diameter		2.2 x 4.4 mm
Cable weight		7.6 kg/km
Min. bending radius	fixed installation	25 mm
Max. tensile strength	fixed installation	10 N
	short term	30 N

7. Chemical Properties

PE sheath	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

Part number	Article designation	No. of Fibres	Outer \varnothing (mm)
28000002	HITRONIC® POF DUPLEX PE	2	2.2 x 4.4