

HITRONIC® POF SIMPLEX PE
DB28000001_EN (version 1.0)
 valid from: 01.04.2012

1. Product Description

Cable designation: J-V2Y 1P980/1000

Simplex polymer optical fibre cable with PE sheath for direct connector assembly in industrial environments with low mechanical stress

2. Application

 Indoors, for fixed installation in control cabinets, cable ducts and tubes
 Direct connector assembly

3. Cable Design


Cable core	Polymethylmethacrylate (PMMA) with fluoropolymer cladding
Cable inner sheath	Not applicable
Cable outer sheath	Polyethylene (PE), halogen-free
Colour of inner sheath	Not applicable
Colour of outer sheath	Black (as per RAL 9005)
Colour of loose tube	Not applicable
Type of armouring	Not applicable

4. Optical and Physical Properties of Fibre

Attenuation	@650 nm	dB/km	≤ 160
	@660 nm	dB/km	≤ 230
Bandwidth	@ 650 nm	MHz x 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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Max. 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 sheath	Non-aging, halogen-free, good stability to acids and alkalis
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8. EC Directives

Not applicable

9. Approvals

RoHS

10. Product Range Overview

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

Note that the old article no. for this item is 2185001