HITRONIC® POF SIMPLEX PE-PUR

DB28020001_EN (version 1.0)
valid from: 01.09.2012

1. Product Description

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

Simplex polymer optical fibre cable with strain relief and PUR outer sheath

2. Application

Indoors, for fixed installation in industrial environments and machines with high mechanical stress

3. Cable Design

Cable core	Polymethylmethacrylate (PMMA) with fluoropolymer cladding
Cable inner sheath	Polyethylene (PE), halogen-free
Cable outer sheath	Polyurethane (PUR), halogen-free, flame-retardant
Colour of inner sheath	Black
Colour of outer sheath	Orange (similar to RAL 2003)
Colour of loose tube	Not applicable
Strain relief	Aramid yarns, longitudinal
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	-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

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

7. Chemical Properties

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

8. EC Directives

Not applicable

9. Approvals

RoHS

10. Product Range Overview

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

Note that the old article no. for this item is 2185030

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