

HITRONIC® PCF DUPLEX FD FRNC-PUR**DB28320702EN (version 1.1)**
valid from: 01.03.2013**1. Product Description**Cable designation: J/A-V(ZN)H11Y 2K200/230 *highflex*

Flexible splittable duplex polymer cladded glass optical fibre cable with flame-retardant and halogen-free outer sheath and strain relief

2. Application

- Indoors and outdoors, for fixed and flexible installation in harsh industrial environments
- Suitable for drag chains
- Direct connector assembly

3. Cable Design

Construction	2x PCF fibre (polymer cladded fibre with ETFE buffer) , 2x filler, fleece wrapping, strain relief elements, PUR outer sheath
Cable inner sheath	FRNC, halogen-free, flame-retardant
Cable outer sheath	Polyurethane (PUR), halogen-free, flame retardant
Colour of inner sheath	Red, green
Colour of outer sheath	Orange (similar to RAL 2003)
Fibre colour coding	Red, green
Strain relief	Aramid yarns
Type of armouring	-

4. Optical and Physical Properties of Fibre

Attenuation	@ 650 nm	dB/km	≤ 10
	@ 850 nm	dB/km	≤ 8
Bandwidth	@ 650 nm	MHz x km	≥ 17
	@ 850 nm	MHz x km	≥ 20
Numerical Aperture			0.37
Core diameter		µm	200
Cladding diameter		µm	230

5. Thermal Properties

Operating temperature	-20°C to +70°C
Installation temperature	-10°C to +50°C
Storage temperature	-30°C to +70°C

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Max. number of fibres		2
Fibre outer diameter (with buffer)		500 µm
Sub cable outer diameter		2.2 mm
Cable outer diameter		8.8 ± 0.3 mm
Cable weight		68 kg/km
Min. bending radius		20x Cable ø
Max. tensile strength	fixed installation	800 N
	short term	2.000 N
Max. lateral pressure	fixed installation	1.500 N/ 10 cm
	short term	3.500 N/ 10 cm
For use in drag chains*	bending cycles	min. 3.000.000
	speed	3 m/s
	acceleration	3 m/s ²
Torsion		max. 110°/m
<i>*Please note assembly guidelines T3 (LAPP main catalogue)</i>		

7. Chemical Properties

FRNC sub unit sheath	Thermoplastic polymer compound, halogen-free and flame-retardant
PUR outer sheath	Halogen-free, flame-retardant, good stability to oil, acids and alkalis

8. EC Directives

Not applicable

9. Approvals

- RoHS
- Halogen-free according to IEC 60754, DIN VDE 0472 part 815 (with exception of the fibre cladding)

10. Product Range Overview

Article number	Article designation	No. Of Fibres	Outer Ø (mm)
28320702	HITRONIC® PCF DUPLEX FD FRNC-PUR	2	8.8