

**HITRONIC® PCF DUPLEX FRNC-PUR indoor**
**DB28020702EN (version 2.0)**  
 valid from: 01.03.2013

**1. Product Description**

Cable designation: J-V(ZN)H11Y 2K200/230

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

**2. Application**

- Indoors, for fixed installation in harsh industrial environments
- 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		2.9 mm
Cable outer diameter		8.0 ± 0.3 mm
Cable weight		56 kg/km
Min. bending radius		20x Cable ø
Max. tensile strength	fixed installation	400 N
	short term	1.200 N
Max. lateral pressure	fixed installation	1.200 N/ 10 cm
	short term	3.000 N/ 10 cm

**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)
28020702	HITRONIC® PCF DUPLEX FRNC-PUR indoor	2	8.0

**Note that the old article no. for this item is 2185311**