

## HITRONIC® PCF DUPLEX FRNC-PE Outdoor

 DB28620702EN (version 2.1)  
 valid from: 01.10.2014

### 1. Product Description

Cable designation: A-VQ(ZN)HB2Y 2K200/230

Splittable duplex polymer cladded glass optical fibre cable with halogen-free PE outer sheath, UV-resistant and strain relief, rodent protection, longitudinally watertight

### 2. Application

- Outdoors, 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, central strenght member, fleece wrapping, strain relief elements, PE outer sheath
Cable inner sheath	FRNC, halogen-free, flame-retardant
Cable outer sheath	Polyethylene (PE), halogen-free
Colour of inner sheath	Red, green
Colour of outer sheath	Black (similar to RAL 9005)
Fibre colour coding	Red, green
Strain relief	Glass yarns in the sub unit and total cable construction
Type of armouring	Non metallic rodent protection

### 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		10.5 ± 0.4 mm
Cable weight		88 kg/km
Min. bending radius		20x Cable ø
Max. tensile strength	fixed installation	500 N
	short term	1.500 N
Max. lateral pressure	fixed installation	3.000 N/ 10 cm
	short term	5.000 N/ 10 cm

**7. Chemical Properties**

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

**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)
- Longitudinally watertight according to EN 187000, test procedures 605, test type B

**10. Product Range Overview**

Article number	Article designation	No. Of Fibres	Outer ø (mm)
28620702	HITRONIC® PCF DUPLEX FRNC-PE outdoor	2	10.5