

HITRONIC® PCF SIMPLEX PUR Outdoor
DB28600701EN (version 2.0)
 valid from: 01.04.2012

1. Product Description

Cable designation: A-V(ZN)11Y 1K200/230

Simplex polymer-cladded glass optical fibre cable with flame-retardant and halogen-free PUR outer sheath, strain relief, UV-resistant, for direct connector assembly in harsh industrial environments

2. Application

Outdoors, for fixed installation in harsh industrial environments

Methods of deployment: empty plastic pipes, ducts and trays

3. Cable Design


Cable core	Tight-buffer glass fibre with polymer cladding, 1x PCF
Cable inner sheath	-
Cable outer sheath	PUR, flame-retardant and halogen-free
Colour of inner sheath	-
Colour of outer sheath	Black
Colour of loose tube	-
Strain relief	Aramid yarns, longitudinal
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
Primary coating diameter		µm	500

5. Thermal Properties

Operating temperature	-5°C to +60°C
Installation temperature	0°C to +50°C
Storage temperature	-20°C to +70°C

HITRONIC® PCF SIMPLEX PUR OutdoorDB28600701EN (version 2.0)
valid from: 01.04.2012**6. Mechanical Properties**

Max. number of fibres	1
Fibre outer diameter (with buffer)	900 µm
Cable outer diameter	2.9 mm
Cable weight	7.5 kg/km
Min. bending radius	30 mm
Max. tensile strength	200 N
Max. crush resistance	200 N

7. Chemical Properties

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 ϕ (mm)
28600701	HITRONIC® PCF SIMPLEX PUR Outdoor	1	2.9