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## HARTING PROFINET Type C Cable 4-wire, Cat. 5, PUR



### PROFINET Type C Cable 4-wire, Cat. 5, PUR

#### Advantages

- Suitable for PROFINET cabling Category 5 / Class D according to ISO/IEC 11801 respectively EN 50173-1 and ISO/IEC 24702 respectively EN 50173-3
- Capable for drag line
- Applicable for industrial premises
- RoHS conform, UL listed, flame retardant, halogen free

#### General

This data cable is suitable for PROFINET cabling according to type C in industrial premises and areas. It is useable for flexible cords especially dragline. The core is fitted with 4 wires twisted to quad that allows the transmission of Fast Ethernet 10/100Mbit/s. It is designed for fast assembling with the easy-stripping tool and can be assembled with all HARTING 4-pole RJ45 connectors.

#### Description

PROFINET Type C Cable  
4-wire, Cat. 5, PUR

20 m ring  
50 m ring  
100 m ring  
500 m reel

#### Order number

09 45 600 0131  
09 45 600 0141  
09 45 600 0101  
09 45 600 0111



- Wire: Stranded tinned copper AWG 22/7
- Insulation: : PE Ø 1.5 mm (+0.024/ - 0.036)
- Inner sheath: Thermoplastic copolymer (FRNC)
- Overall screen: Aluminate foil overlapped, tinned copper wire braid, braid coverage about 85%
- Outer sheath: Polyurethane (PUR), flame retardant

Color code: wh, ye, bu, or  
Color of inner sheath: white  
Color of outer sheath: green, RAL 6018  
Overall diameter: 6.3 mm – 6.7 mm

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### Technical Characteristics

<b>Performance</b>	Category 5 according to EN 50288-2-1:2003, IEC 61156-5:2002
<b>Mechanical Characteristics</b>	
Minimal bending radius	During installation: 7 x diameter After installation: 3 x diameter
Pull force	max. 150 N
Trailing cable	3 million bending cycles bending diameter 200 mm at a speed of 4 m/s acceleration 4 m/s <sup>2</sup>
Torsion strength	+/-180° on 1m, 30 thousand cycles
<b>Electrical Characteristics at 20°C</b>	
Surface transfer impedance at 10 MHz	20 mOhm/m
Loop resistance	max. 120 Ohm/km
Insulation resistance	min. 500 MOhm*km
Signal runtime	5.3 ns/m
Characteristic impedance at 100 MHz	100 Ohm +/- 5 Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)	2000V
<b>Chemical Characteristics</b>	
Flame retardant	IEC 60332-1-2
Free of hazardous substances	RoHS 2002/95/EG
Oil resistance	EN 60811-2-1
UV-resistant	
<b>Thermal Characteristics</b>	
Permissible temperature range	- 40° C to + 70° C
During laying	- 20° C to + 60° C
<b>Printing</b>	HARTING INDUSTRIAL ETHERNET TRAILING CABLE CAT 5 PLUS * 22AWG (SHIELDED) (UL) E119100 VERIFIED CAT 5E PATCH CABLE CMX 75°C FRNC * 094560001010100 "sequential length in meters" * "year/internal order number" "HARTING-LOGO"
<b>Weight about</b>	61 kg/km

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## Technical Characteristics

Frequency MHz	Attenuation dB/100m		NEXT dB	
	typ.	Cat 5 max*	typ.	Cat 5 min*
1	2.1	2.1	80	65.3
4	4	4.0	76	56.3
10	6.3	6.3	70	50.3
16	8	8.0	65	47.2
20	9	9.0	63	45.8
31.25	11.4	11.4	60	42.9
62.5	16.5	16.5	55	38.4
100	21.3	21.3	50	35.3

\* EN 50288-2-1:2003