

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



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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	Order number	
<p>PROFINET Type C Cable 4-wire, Cat. 5, PUR</p> <p>20 m ring 50 m ring 100 m ring 500 m reel</p>	<p>09 45 600 0131 09 45 600 0141 09 45 600 0101 09 45 600 0111</p>	<div data-bbox="1062 1126 1414 1473" data-label="Image"> </div> <ul style="list-style-type: none"> • 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 <p>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</p>

All data given are in line with the actual state of art and therefore not binding.
HARTING reserves the right to modify designs without giving the relevant reasons.

Technical Characteristics

Performance Category 5 according to EN 50288-2-1:2003, IEC 61156-5:2002

Mechanical Characteristics

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/s²

Torsion strength +/-180° on 1m, 30 thousand cycles

Electrical Characteristics at 20°C

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 2000V
1min)

Chemical Characteristics

Flame retardant IEC 60332-1-2

Free of hazardous substances RoHS 2002/95/EG

Oil resistance EN 60811-2-1

UV-resistant

Thermal Characteristics

Permissible temperature range - 40° C to + 70° C

During laying - 20° C to + 60° C

Printing

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"

Weight about

61 kg/km

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

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