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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

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

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

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 \varnothing 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

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/s ²
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 1min)	2000V

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



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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