

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

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/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

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.

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



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

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.