



## 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	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	 <ul style="list-style-type: none"> <li>• Wire: Stranded tinned copper AWG 22/7</li> <li>• Insulation: : PE Ø 1.5 mm (+0.024/ - 0.036)</li> <li>• Inner sheath: Thermoplastic copolymer (FRNC)</li> <li>• Overall screen: Aluminate foil overlapped, tinned copper wire braid, braid coverage about 85%</li> <li>• Outer sheath: Polyurethane (PUR), flame retardant</li> </ul> <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/s <sup>2</sup>
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

## Technical Characteristics

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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[HARTING:](#)

[09456000141](#)