

PROFIBUS DP

ES Trailing Cable



Cable Design

Wire

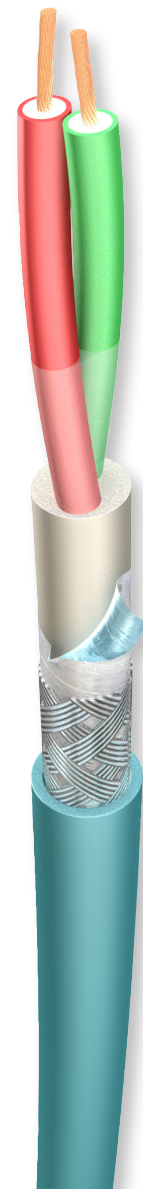
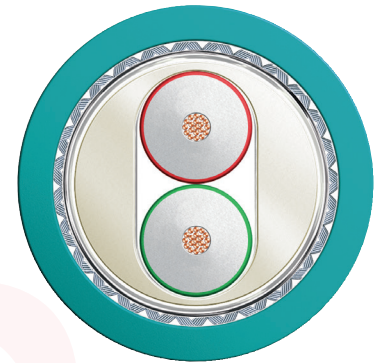
Conductor Stranded bare copper wire 0.30 mm² (AWG24/19)
 Insulation Foamed Polyethylene (PE) Ø 2.55 - 2.60 mm

Core

Pair 2 wires twisted to a pair (RD-GN)
 Tape Plastic tape overlapped
 Easystrip Jacket Halogenfree thermoplastic compound
 Foil Screen Plastic laminated aluminium-foil, metal facing outside
 Braid Tinned copper wire braid, 70 ± 5 %

Outer Jacket

Thermoplastic Polyurethane (PUR), Ø 7,8 ± 0,2 mm
 Colour Turquoise blue, similar to RAL 5018



Characteristics

- VW-1 vertical flame test acc. to UL 2556 sec. 9.4 and UL 1581 sec. 1080
- Flame Retardant acc. to IEC 60332-1-2
- Oil Resistance acc. to IEC 60811-404 and DIN EN 50363-10-2
- Halogen Free acc. to IEC 60754-1, acc. to DIN VDE 0472 part 815
- c(UL)us Listing Type CMX 75 °C acc. to UL444 for USA and Canada
- CE compliant (RoHS included)
- UKCA compliant

Specification

Part Number	Type
PDP122-UAR	PROFIBUS DP ES, trailing cable (easy to strip), AWG24/19, UL listed: CMX, TPU

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Electrical Data @ 20 °C

Operation Voltage	max. 125 V (peak value, not for connection to public mains)
Rated Voltage	max. 300 V (peak value, not for connection to public mains)
Test Voltage	50 Hz, 1 min, 2,000 V (core/core and core/screen)
Loop Resistance	max. 133,0 Ω/km
Insulation Resistance	min. 5 GΩ .km
Capacitance	nom. 30 nF/km
Impedance at 3-20 MHz	nom. 150 Ω
Impedance at 38.4 kHz	nom. 185 Ω
Impedance at 9.6 kHz	nom. 270 Ω
Attenuation at 16 MHz	max. 4.9 dB/100m
Attenuation at 4 MHz	max. 2.5 dB/100m
Attenuation at 38.4 kHz	max. 0.5 dB/100m
Attenuation at 9.6 kHz	max. 0.3 dB/100m

Mechanical & Thermal Characteristics

Temperature Range - installation	-20 °C to +60 °C
Temperature Range - fixed laying	-40 °C to +80 °C
Temperature Range - flexible laying	-30 °C to +70 °C
Temperature Range - flexible laying with forced guidance	20 °C to +60 °C
Min. Bending Radius - fixed laying	4 x cable-Ø
Min. Bending Radius - flexible laying	8 x cable-Ø
Min. Bending Radius - flexible laying with forced guidance	15 x cable-Ø
Tensile Strength - fixed laying	max. 90 N
Tensile Strength - flexible laying	max. 25 N
Bending Cycles	min. 3,000,000
Chain-Length	4.5 m
Velocity	5 m/s
Acceleration	10 m/s ²

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