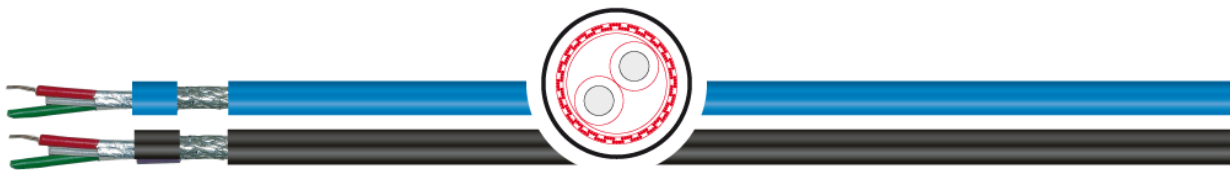




for fixed installation, UL/CSA



APPLICATION

Fieldbus cable for PROFIBUS (Process Field BUS) PA (Process Automation) systems, specifically for use in process automation as well as in hazardous areas to connect sensors and actuators, for fixed installation.

Standard acc. to Profibus-Spec.: EN61158 & EN61784 (DIN19245 T3 & EN50170)



SPECIAL FEATURES

- Largely resistant to grease, coolant fluids and lubricants.
- Oil-resistant: acc. to DIN EN 60811-2-1 (Mineral oil) & acc. to UL OIL RES .
- UV-resistant: SUN RES acc. to UL 1581.
- Optimized EMC compliant shielding.
- FC-Type = 'fast-connect' construction.
- PA TRAY with UL/CSA approval:
cULus: 300 V, 75 °C, CMG/PLTC/SunRes/OilRes & cURus: 600 V, 60 °C

REMARKS

- Complies with RoHS and the 2014/35/EU Directive (Low Voltage Directive) CE.
- LABS-/silicone-free (during production).
- PI = Profibus & Profinet International

PRODUCT DETAILS

DESIGN

Conductor material	bare copper wire
Conductor class	Ø 1,05 mm (AWG18/1): solid
Core insulation	foamed PE/PP
Core identification	gn, rd
Stranding	stranded to a pair
Overall shielding	alu-lamin. polyester foil, metal side outside, cover. 100% under copper braid tinned
Outer sheath material	PVC
Outer sheath color	black, RAL9005 (BK) or blue, RAL5015 (BU)

ELECTRICAL PROPERTIES

Rated voltage	250 V (not for high voltage purposes)
Testing voltage	1,5 kV
Loop resistance	max. 36,4 Ω/km - AWG 18/1
Capacity	nom. 52 nF/km
Characteristic impedance	100 +/- 20 Ω

MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	7,5 x d
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THERMAL PROPERTIES

Operat. temp. fixed min/max	-40 °C / +80 °C
Operat. temp. moved min/max	-10 °C / +70 °C

FIRE BEHAVIOR

Burning behavior	flame-retardant acc. to IEC 60332-1, UL/CSA types: acc. to IEC 60332-3-24(Cat.C), FT4
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CHEMICAL RESISTANCE & OTHER

Oil resistance
UV resistance

OIL RES acc. to UL 1277 and UL 1063; acc. to DIN EN 60811-2-1 (Mineral oil)
SUN RES acc. to UL 1581

STANDARDS & APPROVALS

Standards
Approvals

acc. to Profibus-Spec.: EN61158 & EN61784 (DIN19245 T3 & EN50170)
UL/CSA types : cULus: 300V, 75°C, CMG/CL3/SunRes/OilRes & cURus: 600V, 60°C

ITEM OVERVIEW

PROFIBUS PA TRAY UL/CSA - cULus - CMG|PLTC

Item no.	OEM Reference	Type	Dimension [n x 2 x AWG]	Conductor structure	Outer-Ø [mm] nom.	Outer-Ø. [inch] nom.	Weight [≈lbs/mft]
2003660	6XV1830-5EH10	FC C-PVC Ex UL/CSA - BU	1 X 2 X AWG 18/1 (1,05 mm)	► AWG 18 (1/AWG 18) – 1,05mm	8,0	0,315	68,5
2003661	6XV1830-5FH10	FC C-PVC UL/CSA - BK	1 X 2 X AWG 18/1 (1,05 mm)	► AWG 18 (1/AWG 18) – 1,05mm	7,8	0,315	68,5