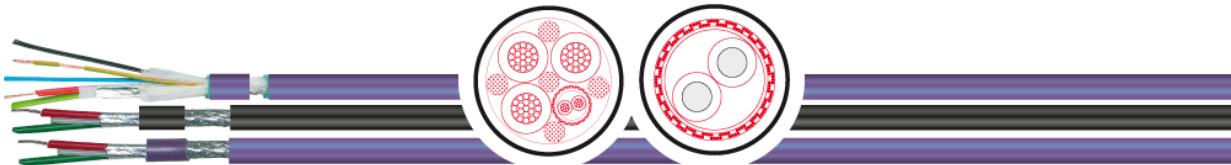


PROFIBUS DP / FMS / FIP 150 Ohm – STANDARD UL/CSA



for fixed installation, UL/CSA



APPLICATION

Fieldbus cables for PROFIBUS (Process Field BUS) systems, for fixed installation installations.

These cables are suitable for PROFIBUS DP (Decentralized Peripherals) and PROFIBUS FMS (Fieldbus Message Specification) and also for FIP (Factory Instrumentation Protocol) applications.

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.

REMARKS

- Complies with RoHS and the 2014/35/EU Directive (Low Voltage Directive) CE.
- LABS-/silicone-free (during production).
- DESINA-compliant (violet)
- PI = Profibus & Profinet International
- max. cable lengths for a bus segment acc.to PI at stated transmission rate:
PROFIBUS DP: 93,75kbit/s-max.1,2km | 187,5kbit/s-max.1km | 0,5Mbit/s-max.400m
1,5 Mbit/s-max.200m | 12,0 Mbit/s-max.100m
FIP : 2,5 Mbit/s-max. 200m

PRODUCT DETAILS

DESIGN

Conductor material	bare copper wire
Conductor class	Ø 0,64 mm (AWG 22/1), solid
Core insulation	foamed PE
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	violet, RAL4001 (VT) or blue, RAL5015 (BU)

ELECTRICAL PROPERTIES

Rated voltage	250 V (not for high voltage purposes)
Loop resistance	max. 110,0 Ω/km
Capacity	nom. 30 nF/km
Characteristic impedance	150 +/- 15 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 DP - STANDARD

Item no.	OEM Reference	Type	Dimension [n x 2 x mm]	Conductor structure	Outer-Ø [mm] nom.	Outer-Ø. [inch] nom.	Weight [≈lbs/mft]
2003631	6XV1830-0EH10	FC C-PVC UL/CSA - VT	1X2X0,64 (AWG 22/1)	► AWG 22 (1/AWG 22) - 0,64mm	7,8	0,307	50,4
2003632	6XV1831-2A	FC C-PVC Ex UL/CSA - BU	1X2X0,64 (AWG 22/1)	► AWG 22 (1/AWG 22) - 0,64mm	7,8	0,307	50,4