



USE OF CABLE
as 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 & limited flexible 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 (only mineral oil)
- UV-resistant: all PA TRAY versions (blue & black) & versions with black outer sheath
- optimized EMC compliant shielding
- PA TRAY with UL/CSA approval:
 - cULus: 300 V, 75 °C, CMG/PLTC/SunRes/OilRes &
 - cURus: 600 V, 60 °C

REMARKS

- conform to RoHS
- LABS-/silicone-free (during production)
- FC-Type = 'fast-connect' construction
- PI = Profibus & Profinet International
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	1,0 mm²: fine-wired acc. IEC 60228 cl. 5; AWG18: single wire
Core insulation:	Foamed PE/PP
Core identification:	Gn, rd
Stranding:	BUScores stranded to a pair
Shield3:	Copper braid tinned; TRAY: alu-lamin. polyester foil, metal side outside, cover. 100% under copper braid tinned
Outer sheath:	PVC
Sheath colour:	Blue RAL 5015 (BU) or black (BK)
Rated voltage:	250 V (not for high voltage purposes)
Testing voltage:	1,5 kV
Loop resistance:	39,0 Ω/km - 1,0 mm²; max. 36,4 Ω/km - AWG 18/1
Capacity:	Nom. 52 nF/km
Characteristic impedance:	100 Ω ± 20 Ω
Min. bending radius fixed:	7,5 x d
Min. bending radius moved:	15 x d
Operat. temp. fixed min/max:	-40°C / +80°C
Operat. temp. moved min/max:	-10°C / +70°C
Burning behavior:	Flame retardant, acc. to IEC 60332-1-2 resp. CMG: acc. to IEC 60332-3-24(Cat.C), FT 4
Resistant to oil:	Acc. to DIN EN 60811-2-1 (only mineral oil)
Approvals:	PA TRAY: UL/CSA - cULus 300V, 75°C, CMG/PLTC/SunRes/OilRes & cURus 600V, 60°C

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
2003658	1 X 2 X 1	8,0	45,00	76,00	blue	V1: PROFIBUS PA
2003659	1 X 2 X 1	8,0	45,00	76,00	black	V1: PROFIBUS PA
2003660	1 X 2 X AWG 18/1 (1,05 mm)	8,0	47,00	102,00	blue	V2: PROFIBUS PA TRAY - cULus - CMG PLTC
2003661	1 X 2 X AWG 18/1 (1,05 mm)	8,0	47,00	102,00	black	V2: PROFIBUS PA TRAY - cULus - CMG PLTC