

BO-PROFIBUS DB FLEX PVC

PROFIBUS CABLES FOR FLEXIBLE INSTALLATION

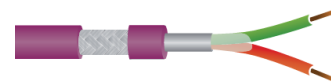


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Conductor:	Stranded bare copper 0,34 mm ² (AWG22) complying with CEI EN 60228
Insulation:	Foam skin PE
Colour Code:	Core colours: green and red
Screen:	Aluminium/polyester tape with tinned copper wire braid having coverage 85%
Outer Sheath:	PVC class 43 according to UL1581 and C22.2 n°210. Colour violet RAL 4001
Technical Data & Standard References	Product features: Flame retardant: Horizontal flame test per UL758, FT2 test acc. to CSA C.22.2 n°210 Halogen gas emission: ≤ 18% IEC 60754, CEI EN 50267-2 Industrial oil resistance: IEC 60811-404 Water resistance: IEC 60811-402
	Norm references / Approvals: Reference Standards: IEC 61158 EN 50170-2 DIN 19245 EIA RS485 DESINA Approved UL/CSA Approved: AWM Style 20601 300V/80°C.
Electrical & Mechanical Data	Operating temperature: Fixed application -40 to 80 °C Flexible installation -5 to 70 °C Minimum bending radius: Fixed application 8 x D Flexible application 10 x D Electrical and transmission properties at 20°C Max operating voltage: 300 V Test voltage: 1500 V Max DC conductor resistance: 54 Ω/km Capacitance core/core (nom): 29 pF/m Characteristic impedance: 150 Ω (±10%) 1-20 MHz Propagation velocity (approx): 78% Attenuation: max 0,3 dB/100m at 9,6 kHz

max 0,4 dB/100m at 38,4 kHz
max 0,5 dB/100m at 200 kHz
max 2,1 dB/100m at 4 MHz
max 4,0 dB/100m at 16 MHz
max 4,4 dB/100m at 20 MHz
Min. insulation resistance: 5,0 GΩ x km
Transfer impedance:
7 mΩ/m at 100 kHz
3 mΩ/m at 1 MHz
0,6 mΩ/m at 10 MHz
2 mΩ/m at 30 MHz
8 mΩ/m at 100 MHz

Application:

The PROFIBUS DP cable for fixed and dynamic (non-continuous) installations complies with European Standards EN 50170 and international Standards IEC 61158- 61784. This cable is used in connection systems for serial communication networks like RS 485.

Botec P/N	assembly	outer diameter [mm ± 10%]	Cu mass [Kg/km]	cable mass [Kg/km]
	1x2x0,34 mm ² /AWG22	7,8	26	78