

BO-PROFIBUS DP HIGH-FLEX PUR

PROFIBUS cables for dynamic installation in high performances chain

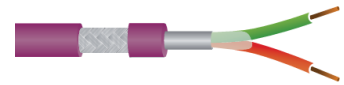


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Conductor:	Stranded bare copper 0,38 mm ² (AWG22) complying with CEI EN 60228
Insulation:	Foam skin PE
Colour Code:	Core colours: green and red
Screen:	Aluminium/polyester tape with tinned copper wire braid having coverage 85%
Outer Sheath:	PUR according to UL1581 and C22.2 n°210. Colour violet RAL 4001
Technical Data & Standard References	Product features: Torsion use: Not recommended Flame retardant: Horizontal flame test per UL758, FT2 test acc. to CSA C.22.2 n°210 Halogen gas emission: ≤ 0,5% IEC 60754, CEI EN 50267-2 Industrial oil resistance: EN 50363-10-2 U.V. resistance: Yes Water absorption: EN 50363-10-2
	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 Dynamic installation -30 to 70 °C Minimum bending radius: Fixed application 6 x D Dynamic appl. into chain 12 x D Max traslation speed: 3,0 m/sec (subject to correct installation) Max acceleration: 3,0 m/sec (subject to correct installation) Electrical and transmission properties at 20°C Max operating voltage: 300 V Test voltage: 1500 V

Max DC conductor resistance: 59,4 Ω /km
Capacitance core/core (nom): 30 pF/m
Characteristic impedance: 150 Ω ($\pm 10\%$) 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 G Ω x km
Transfer impedance:
7 m Ω /m at 100 kHz
3 m Ω /m at 1 MHz
0,6 m Ω /m at 10 MHz
2 m Ω /m at 30 MHz
8 m Ω /m at 100 MHz

Application:

The PROFIBUS DP cable for fixed installation 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 $\pm$ 10%]	Cu mass [Kg/km]	cable mass [Kg/km]
	1x2x0,38 mm ² /AWG22	8,1	28	74