

BO-INTERBUS FIX PVC

Cables for fixed installation (INTERBUS Remote Bus, 2-wire)

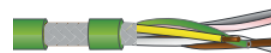


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Conductor:	Stranded bare copper 0,22 mm ² (AWG24) complying with CEI EN 60228
Insulation:	Solid PE
Colour Code:	Core colours according DIN 47100
Screen:	Aluminium/polyester tape with tinned copper wire braid having coverage 85%
Outer Sheath:	PVC class 43 according to UL1581 and C22.2 n°210. Colour green RAL6017
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 Minimum bending radius: Fixed application 10 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: 1000 V Max DC conductor resistance: 85 Ω/km

Capacitance core/core (nom): 54 pF/m

Characteristic impedance:

120 Ω ($\pm 15\%$) 64 MHz

100 Ω ($\pm 15\%$) 1÷20 MHz

Propagation velocity (approx): 67%

Attenuation:

max 1,7 dB/100m at 256 kHz

max 3,0 dB/100m at 772 kHz

max 4,1 dB/100m at 1 MHz

max 8,4 dB/100m at 4 MHz

max 10,0 dB/100m at 10 MHz

max 13,3 dB/100m at 16 MHz

max 15,4 dB/100m at 20 MHz

Min. insulation resistance: 2,0 G Ω x km

Transfer impedance:

250 m Ω /m at 30 MHz

Near-end crosstalk attenuation (NEXT):

min 61 dB at 500 kHz

min 59 dB at 1 MHz

min 50 dB at 4 MHz

min 44 dB at 10 MHz

min 41 dB at 16 MHz

min 40 dB at 20 MHz

Application:

INTERBUS cable for fixed installation and with PVC outer jacket is employed on connection systems where standard EIA RS 485 is required.

Botec P/N	assembly	outer diameter [mm $\pm$ 10%]	Cu mass [Kg/km]	cable mass [Kg/km]
	3x2x0,22 mm ² / AWG24	7,0	29	66