

BO-PROFINET CAT 5e HIGH-FLEX PUR

PROFINET cables for dynamic installation in high performances chain

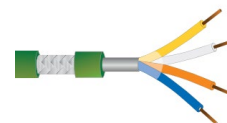


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Conductor:	Stranded copper complying with CEI EN 60228
Insulation: Colour Code:	Solide PE white, yellow, blue, orange
Inner Sheath:	TPE Compound
Screen:	Aluminium/polyester tape with tinned copper wire braid having coverage 85%.
Outer Sheath:	PUR according to UL1581 and C22.2 n°210. Colour green RAL6018
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: ≤ 0,5% IEC 60754, CEI EN 50267-2 Industrial oil resistance: EN 50363-10-2 U.V. resistance: Yes Water resistance: EN 50363-10-2
	Norm references / Approvals: Reference Standards: IEC 61156 EN 50288 DESINA Approved UL/CSA Approved: AWM Style 20978 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 8 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/s² Type B8142M 2,0 m/s² Type B8142 Torsion use: Not recommended Electrical and transmission properties at 20°C Max operating voltage: 300 V Test voltage: 1500 V

	Max DC conductor resistance: 55,4 Ω/km (AWG22 bare copper) 59,4 Ω/km (AWG22 tinned copper) Capacitance core/core (nom): 50 pF/m at 800 Hz Characteristic impedance: 100 Ω ($\pm 15\%$) 1 to 100 MHz Propagation velocity / approx): 67% Min. insulation resistance: 5,0 GΩ x km
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Application:

The PROFINET cable, Cat. 5e, Fast Connect type, is designed for dynamic installation on cable carriers and utilizes Ethernet standards and TCP, UDP protocols for communication, configuration, and network control. The cable meets the transmission requirements of Cat. 5E.

Botec P/N	assembly	outer diameter [mm $\pm$ 10%]	Cu mass [Kg/km]	cable mass [Kg/km]
	1x4xAWG22/7	6,7	33	71
	1x4xAWG22/19	6,5	31	63