

BO-ETHERNET CAT 5e HIGH-FLEX PUR

ETHERNET cables for dynamic installation

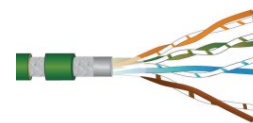


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Conductor:	Stranded bare copper complying with CEI EN 60228
Insulation: Colour Code:	PO 2 pairs: white/orange - orange, white/green - green 4 pairs: white/blue - blue, white/orange - orange, white/ green - green, white/brown - brown
Screen:	Aluminium/polyester tape with tinned copper wire braid having coverage 85%
Outer Sheath:	PUR according to UL1581 and C22.2 n°210. Colour green RAL 6016
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
	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 6 x D Dynamic appl. into chain 8 x D Max traslation speed: 5,0 m/sec (subject to correct installation) Max acceleration: 5 m/s ² (subject to correct installation) Torsion use: Not recommended Electrical and transmission properties at 20°C Max operating voltage: 300 V Test voltage: 1500 V Max DC conductor resistance: 140 Ω/km (AWG26) 87,6 Ω/km (AWG24)

Capacitance core/core (nom):
 $\leq 50 \text{ pF/m at } 800 \text{ Hz}$
Characteristic impedance:
 $100 \Omega (\pm 15\%) \text{ 1 to } 100 \text{ MHz}$
Min. insulation resistance:
 $5,0 \text{ G}\Omega \times \text{km}$

Application:

The ETHERNET cables refer to the American standard EIA/TIA 568B (category 5E) and the European standards of the EN 50288 series (category 5), designed to meet the requirements of FAST ETHERNET, allowing data flow of up to 100 Mbit/s. Detailed characteristics are available upon request.

Botec P/N	assembly	outer diameter [mm $\pm$ 10%]	Cu mass [Kg/km]	cable mass [Kg/km]
	(2x2xAWG24)	6,0	27	65
	(4x2xAWG26)	6,9	27	74
	(4x2xAWG24)	7,9	40	83