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CONTACT

Market information
 industryprojects.business@lynxéo.com
 ogroup.com

Interbus cable with PUR jacket for dynamic applications, shielded, oil resistant, flame retardant

STANDARDS

Product UL and CSA approval

Applications

Interbus cables connect sensors and actors with all standard equipment in automation. Our product range fulfill the special requirement of:

- Standard for fix installation or few bending
- For use in chain
- HFFR (Halogen Free & Flame Retardant)
- Direct burial
- Food industry
- Marine and submarine
- Railway systems

Design

Insulation colour code

Section 0.25 mm²: DIN 47100
 Section 1 mm²: Blue - Red - Green/yellow

D.C. Resistance

Section 0.25 mm²: 80 Ohm/km
 Section 1 mm²: 19.5 Ohm/km

Insulation resistance

Section 0.25 mm²: 5000 MOhm/km
 Section 1 mm²: 5 MOhm/km

Normative references

UL recognized / CSA approval
 AWM 80°C-30V
 AWM 75°C-30V FT1



Operating temp.
 -20 ... 80 °C



Storage temperature, range
 -30 ... 80 °C



Oil resistance
 EN 50363-10-2



Flame retardant
 IEC/EN 60332-1-2; FT1; UL 1581 FT1

CHARACTERISTICS

Construction characteristics

Construction type	(3x2x0,25+3G1)C
Conductor material	Bare copper
Insulation	Polyolefin
Insulation colour	DIN 47100
Material of filler / inner sheath	Textile
Taping	Non woven tape
Shielding	≥85% tinned copper braid coverage
Separator	Non woven tape
Outer sheath	PUR
Sheath colour	Violet RAL 4001

Dimensional characteristics

Nominal outer diameter	8.2 mm
Copper content	50 kg/km
Approximate weight	105 kg/km

Electrical characteristics

Rated Voltage U _o /U	30 V
Characteristic impedance	100 Ohm
Test voltage	1500 V

Transmission characteristics

Attenuation at 256 kHz	1.5 dB/100m
Attenuation at 722 kHz	2.4 dB/100m
Attenuation at 1 Mhz	2.7 dB/100m
Attenuation at 4 MHz	5.2 dB/100m
Attenuation at 10 MHz	8.4 dB/100m
Attenuation at 16 MHz	11.2 dB/100m
Attenuation at 20 MHz	11.9 dB/100m
Near End Cross Talk @ 722 kHz	61 dB/100m
Near End Cross Talk @ 1 MHz	59 dB/100m
Near End Cross Talk @ 2 MHz	55 dB/100m
Near End Cross Talk @ 4 MHz	50 dB/100m
Near End Cross Talk @ 8 MHz	46 dB/100m
Near End Cross Talk @ 10 MHz	44 dB/100m
Near End Cross Talk @ 16 MHz	41 dB/100m
Near End Cross Talk @ 20 MHz	40 dB/100m
Nominal Velocity of Propagation (NVP)	66 %

Mechanical characteristics

Bending cycles	5 Mio.
Maximum acceleration	20 m/s ²
Speed	240 m/min

Usage characteristics

Field of application	Dynamic
Minimum dynamic operating bending radius	10 (xD)

Usage characteristics

Operating temperature, range	-20 ... 80 °C
Storage temperature, range	-30 ... 80 °C
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1