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CONTACT

Market information
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Interbus cables with PUR jacket for dynamic application, 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

Standards According to Interbus requirements



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**

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

Dimensional characteristics

Outer Diameter	8 mm
Copper content	27 kg/km
Approximate weight	62 kg/km

Electrical characteristics

Rated Voltage U ₀ /U	30 V
Test voltage	1500 V
Characteristic impedance	100 Ohm

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

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

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