INTERBUS HYBRID PUR CABLES

INTERBUS PUR (3x2x0,25+3G1)C

Reference: 10553019
Country Ref.: 13-DRX17Z09P
EAN 13: 8054803124403

CONTACT

Market information
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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

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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 Uo/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/s²
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