



## CONTACT

Market information  
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Interbus hybrid cables with PVC jacket for dynamic applications, shielded, 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 mm<sup>2</sup>: DIN 47100

Section 1 mm<sup>2</sup>: Blue - Red - Green/yellow

## **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



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
Taping	Non woven tape
Shielding	≥85% tinned copper braid coverage
Outer sheath	PVC
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 <sub>0</sub> /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	1 Mio.
Speed	60 m/min
Maximum acceleration	2 m/s <sup>2</sup>

**Usage characteristics**

Field of application	Dynamic
Minimum dynamic operating bending radius	10 (xD)
Operating temperature, range	-20 ... 80 °C
Storage temperature, range	-30 ... 80 °C
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1

## PRODUCT LIST

Reference	Country Ref.	Name
☎ 13-DRX17Z09R	13-DRX17Z09R	INTERBUS PVC (3x2x0,25+3G1)C

☎ = Make to order, 📦 = In stock,