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CONTACT

Market information
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Interconnecting combined fieldbus cable "Devicenet" type for dynamic application

STANDARDS

Product UL and CSA approval

APPLICATIONS

DeviceNet is one of the world's leading device-level networks for industrial automation. This bus system offers data transmission and power supply in one cable. The special twisting design allows higher bending cycles than competitors traditional parallel twisting.

Normative references

UL recognized
 CSA approval



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	(1x2x0.34+1x2x0.22)C
Conductor material	Stranded tinned copper
Insulation	Foam-skin
Insulation colour	Red, black, white, blue
Drain wire	Stranded tinned copper
Individual screen	Aluminium / Polyester tape
Shielding	70% tinned copper coverage
Taping	Non woven tape
Outer sheath	PUR
Sheath colour	Violet RAL 4001

Dimensional characteristics

Nominal outer diameter	7.0 mm
Copper content	28 kg/km
Approximate weight	55 kg/km

Electrical characteristics

Rated Voltage U ₀ /U	300 V
Characteristic impedance	120 Ohm
Test voltage	2000 V

Transmission characteristics

Attenuation at 1 MHz	AWG24 <= 2.00 db/100m AWG18 <= 1.31 db/100m
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Mechanical characteristics

Bending cycles	5 Mio.
Speed	180 m/min
Maximum acceleration	7 m/s ²

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
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1