



**Reference:** 10553014  
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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	(1x2x1.8+1x2x1)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	11.8 mm
Copper content	88 kg/km
Approximate weight	175 kg/km

**Electrical characteristics**

Rated Voltage U <sub>0</sub> /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 <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
Oil resistance	EN 50363-10-2
Flame retardant	IEC/EN 60332-1-2; FT1; UL 1581 FT1