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CONTACT

Market information
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Interconnecting fieldbus cables for dynamic application

STANDARDS

Product UL and CSA approval

APPLICATIONS

Bus cables for dynamic applications

Normative references

UL AWM Listed 80°C 30V

Flame resistance

IEC 60332.1



Operating temp.
-20 ... 80 °C



Storage temperature, range
-40 ... 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
Insulation	Polyolefin
Insulation colour	1°: Wht+Gry; 2°: Blu+Pnk; 3°: Or+Yel; 4°: Brn+Vlt
Taping	Aluminium / Polyester tape
Shielding	75% tinned copper braid coverage
Outer sheath	PUR
Sheath colour	Violet RAL 4001

Dimensional characteristics

Nominal outer diameter	7.2 mm
Approximate weight	60 kg/km
Copper content	21 kg/km

Electrical characteristics

Rated Voltage U _o /U	300 V
Test voltage	1500 V
Characteristic impedance	100 Ohm

Transmission characteristics

Attenuation at 1 MHz	3.2 dB/100m
Attenuation at 4 MHz	6.5 dB/100m
Attenuation, max. 10 MHz	9.9 dB/100m
Attenuation at 16 MHz	12.3 dB/100m
Attenuation, max. 20 MHz	13.8 dB/100m
Attenuation, max. 31.25 MHz	17.7 dB/100m
Attenuation, max. 62.5 MHz	25.7 dB/100m
Attenuation, max. 100 MHz	33.00 dB/100m
Near End Cross Talk @ 1 MHz	62 dB
Near End Cross Talk @ 4 MHz	53 dB
Near End Cross Talk @ 10 MHz	47 dB
Near End Cross Talk @ 16 MHz	44 dB
Near End Cross Talk @ 20 MHz	42 dB
Near End Cross Talk @ 31.25 MHz	40 dB
Near End Cross Talk @ 62.50 MHz	35 dB
Near End Cross Talk @ 100 MHz	32 dB

Mechanical characteristics

Bending cycles	1 Mio.
Speed	180 m/min
Maximum acceleration	4 m/s ²

Usage characteristics

Field of application	Dynamic
Minimum dynamic operating bending radius	7.5 (xD)
Operating temperature, range	-20 ... 80 °C
Storage temperature, range	-40 ... 80 °C
Oil resistance	EN 50363-10-2

Usage characteristics

Flame retardant

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