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CONTACT

Market information
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Industrial Ethernet CAT5e cables with PUR jacket for dynamic applications, shielded, oil resistant, flame retardant

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°: Bl + Wht/Bl; 2°: Or + Wht/Or; 3°: Grn + Wht/Grn; 4°: Brn + Wht/Brn
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

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