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CONTACT

Market information
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Profinet cable with pur jacket for drag chain applications, shielded, oil resistant
 MOTIONLINE® ADVANCED

STANDARDS

Product UL and CSA approval

Profinet cable with pur jacket for drag chain applications, shielded, oil resistant, UL CMX approval

Application

Profinet cables are designed for Data networks in industrial environments.
 Profinet Type C cables are made for dynamic applications

Construction

1. **Conductor:** bare copper AWG22/7
2. **Insulation:** Polyolefin compound
Four insulated conductors twisted to a quad.
3. **Inner jacket - Bedding** TPE-O
4. **Screen:** ALU/PET foil
Alu outside
5. **Tinned copper braid**
6. **Jacket:** See products

Environment

Designed to reduce the environmental impact, Nexans cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation.



Operating temp.
-30 ... 80 °C



Storage temperature, range
-40 ... 80 °C



Flame retardant
IEC 60332-1



Oil resistance
EN 60811-2-1

CHARACTERISTICS**Construction characteristics**

Construction type	1x(4xAWG22/7)
Conductor material	Bare copper
Insulation	Polyolefin
Insulation colour	White, Orange, Blue, Yellow
Inner sheath	TPE-O
Taping	Polyester / Alu tape (Alu outside)
Shielding	80% tinned copper braid coverage
Separator	Non woven tape
Outer sheath	Polyurethane compound
Sheath colour	Green RAL 6018

Dimensional characteristics

Nominal outer diameter	6.6 mm
Copper content	28 kg/km
Approximate weight	72 kg/km

Electrical characteristics

Rated Voltage U _o /U	300 V
Test voltage	2500 V
Characteristic impedance	100 Ohm

Transmission characteristics

Attenuation, max. 1 MHz	3.2 dB/1000m
Attenuation at 4 MHz	6.5 dB/100m
Attenuation, max. 10 MHz	9.9 dB/100m
Attenuation, max. 16 MHz	12.3 dB/100m
Attenuation, max. 20 MHz	13.8 dB/100m
Attenuation, max. 100 MHz	33.00 dB/100m

Mechanical characteristics

Bending cycles	3 Mio.
Speed	200 m/min
Maximum acceleration	4 m/s ²

Usage characteristics

Field of application	Dynamic
Minimum dynamic operating bending radius	10 (xD)
Operating temperature, range	-30 ... 80 °C
Storage temperature, range	-40 ... 80 °C
Flame retardant	IEC 60332-1
Oil resistance	EN 60811-2-1