

IndustriCore Can Bus Cable

0.50mm²*2P, AL Foil, 80% TC Braid, PUR Sheath



Applications

Designed for CAN (Controller Area Network) fieldbus system according to ISO11898 as well as for high performance data networks with 120 Ohms nominal impedance. The possible data transmission for max. 40m is 1 Mbit/s.

Construction

Conductor Material	Stranded bare copper
Insulation Material	Foam Polyethylene (FPE)
Core Identification	White/brown, green/yellow
Screen 1	AL-PET Tape
Screen 2	Tinned copper wire 80% coverage
Sheath Material	Polyurethane (PUR)
Sheath Color	Violet

Dimensions

Conductor Diameter	0.50 mm ² (64/0.10 mm)
Insulation Diameter	2.15 mm Nom.
Braid Wire Diameter	0.11 mm
Overall Diameter	9.20 mm Nom.

Physical Characteristics

Bend Radius	Flexing 10 x OD Static 5 x OD
Temperature Rating	Flexing -30°C to +70°C Static -40°C to +80°C
Traction Force	100N Max.

Electrical Characteristics

Conductor DCR	38 Ω/KM Max. @20°C
Insulation Resistance	Min. 5G Ω x km @20°C
Nominal Capacitance	50 pF/km
Characteristic Impedance	120 Ω Nom.
Voltage Rating	250V
Dielectric Strength	1500Vx1min (Core/Core) 1500Vx1min (Core/Screen)
Near-end cross-talk	40 dB Min. @20 MHz
Attenuation	
100 kHz	0.35 dB/100 m Nom.
1 MHz	1.1 dB/100 m Nom.
5 MHz	2.9 dB/100 m Nom.
10 MHz	4.1 dB/100 m Nom.
20 MHz	6.2 dB/100m Nom.
Velocity of Propagation	76% Nom.
Signal Transit Time	4.4 ns/m
Transfer Impedance	250 mΩ/m Max. @30 MHz

Standards

RoHS Compliant	Yes
Reach Compliant	Yes
CE Compliant	Yes
UV Resistance	ISO 4892-2, method A
Flame Retardant	IEC 60332-1-2 UL 1581 VW-1
Halogen & Corrosive Gas	IEC 60754-1/2
Smoke density	IEC 61034-2
CPR Classification	Eca EN 50575:2014+A1:2016