

IndustriCore DeviceNet Thick Cable

18AWG Data, 15AWG Power, PUR Sheath



Applications

For links between industrial devices such as sensors and actuators and higher-level devices such as PLCs and PCs. Suitable for highly flexible applications in power chains and permanent moved machine parts

Construction

| | |
|-----------------------------|--|
| Conductor Material | Stranded tinned copper |
| Insulation Material (Data) | Foam Polyethylene (FPE) |
| Insulation Material (Power) | Polyethylene (PE) |
| Core Identification | White/blue (Data) Red/black (Power) |
| Individual Screen | AL-PET Tape |
| Overall Screen | Tinned copper wire (80%) |
| Drain Wire | Stranded tinned copper |
| Sheath Material | Polyurethane (PUR) |
| Sheath Color | Violet |

Dimensions

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|-----------------------------|--------------------|
| Conductor Diameter (Data) | 18AWG (19/0.25 mm) |
| Conductor Diameter (Power) | 22AWG (19/0.35 mm) |
| Insulation Diameter (Data) | 3.80 mm Nom. |
| Insulation Diameter (Power) | 2.70 mm Nom. |
| Braid Wire Diameter | 0.15 mm |
| Drain Wire Diameter | 18AWG (19/0.25 mm) |
| Overall Diameter | 11.20 mm Nom. |

Physical Characteristi

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|--------------------|---|
| Bend Radius | Flexing 15 x OD Static 8 x OD |
| Temperature Rating | Flexing -30°C to +70°C Static -40°C to +80°C |

Electrical Characteristics

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|--------------------------|--|
| Conductor DCR (Data) | 20.6 Ω/KM Max. @20°C |
| Conductor DCR (Power) | 10.2 Ω/KM Max. @20°C |
| Insulation Resistance | 5GΩ·km Min. (Data) 200MΩ·km Min. (Power) |
| Inductance (Data) | 900 mH/km Nom. @1kHz |
| Inductance (Power) | 600 mH/km Nom. @1kHz |
| Capacitive Coupling | |
| Data Pair | 39.8 nF/km Nom. @1kHz |
| Power Pair | 65 nF/km Nom. @1kHz |
| Characteristic Impedance | 120 ± 12 Ω |
| Attenuation | |
| 125 kHz | 0.42 dB/100 m Nom. |
| 500 kHz | 0.81 dB/100 m Nom. |
| 1 MHz | 1.31 dB/100 m Nom. |
| Signal Propagation Time | 4.8 ns/m Nom. @1MHz |
| Rated Voltage | 300V |
| Dielectric Strength | 2000Vx1min (Core/Core) 2000Vx1min (Core/Screen) |

Standards

| | |
|-------------------------|-------------------------------|
| RoHS Compliant | Yes |
| Reach Compliant | Yes |
| CE Compliant | Yes |
| UV Resistance | ISO 4892-2, method A |
| Oil Resistant | ISO 6722 |
| 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 |