

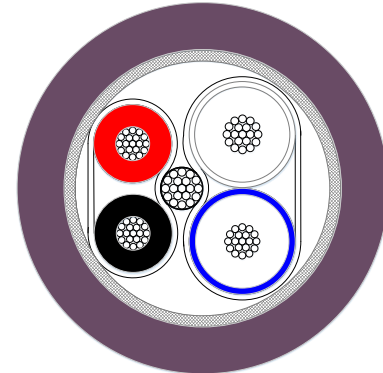
24AWG/1PR + 22AWG/1PR DeviceNet Thin Cable

PUR Outer Sheath



PRODUCT DATA SHEET

DeviceNet is a field bus cable based on proven CAN (Control Area Network) technology with length-related transmission rates (125/250 and 500) kbit/s. Up to 64 participants can communicate in the network with one another. These cable includes two wires for data transmission and also two wires for the power supply. The product with a nominal impedance of 120 Ohm has a moderate UV-resistant and is suitable for fixed installation.



CONSTRUCTION

Element A	Data Pair
Conductor A	Stranded tinned copper
Conductor Size	24AWG, 19 /36
Insulation Material	Foamed Polyethylene
Insulation Thickness	Nom 0.60mm
Core Diameter	Nom.1.9mm
Element B	Power Pair
Conductor B	Stranded tinned copper
Conductor Size	22AWG, 19/34
Insulation Material	Polyethylene
Insulation Thickness	Nom. 0.30mm
Core Diameter	Nom.1.4mm
Stranding	Aluminum foil screened Data pair twisted together with Aluminum foil screened Power pair around a drain wire
Drain Wire	22AWG, 19 strands, tinned copper
Braid	Tinned copper wire, coverage min 75%
Outer Sheath Material	Polyurethane
Outer Diameter	6.9±0.3mm
Outer Sheath Color	Purple (Similar RAL 4001)

Print Legend

ASCENT E477982 ** AWM 20549 80°C DeviceNet Thin Cable
2x24AWG+2x22AWG SHIELDED PUR 80°C CE XXXXXM

Note: "****" is factory code

COLOR CODE

Data Pair: White, Blue

Power Pair: Red, Black

ELECTRICAL PROPERTIES

Peak Operating Voltage	Max. 300V
Dielectric Strength	Cond. to Cond. 2000V Cond. to Screen 2000V
Conductor Resistance@20°C	Max. 90 Ω/km (Data pair) Max. 55 Ω/km (Power pair)
Insulation Resistance@20°C	Min. 20MΩ.km
Characteristic Impedance	120±15 Ω (1MHz) for Data pair
Capacitance	Nom. 39.8 nF/km (1 kHz) for Data pair
Signal Transit Time	446 ns/100m Max.
Attenuation (Data pair)	Nom. 0.95 dB/100m (125 kHz) Nom. 1.64 dB/100m (500 kHz) Nom. 2.29 dB/100m (1 MHz)

MECHANICAL & PHYSICAL PROPERTIES

Operating Temperature (°C)	-20°C to +80°C
Min. Bending Radius	Fixed 7.5 x OD Flexing 15 x OD
Sunlight Resistance	UL 1581 Sec.1200
Certification	UL File E477982, AWM 20549



Application: DeviceNet connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc

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Part Number	32181155
Revision History	
00	2023/07/13 Initial Release
Created L. Jian	Approved A. Huang

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