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

## **PVC 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 0hm has a moderate UV-resistant and is suitable for fixed installation.

### **CONSTRUCTION**

Element A Data Pair 24AWG 1PR
Conductor A Stranded tinned copper
Conductor Size 24AWG, 19 strands Class C
Insulation Material Foamed Polyethylene

Insulation Thickness0.026" Nom.Core Diameter0.077" Nom.

Pair Assembly Aluminum/Mylar Shield 100% Coverage

Element B Power Pair 22AWG 1PR
Conductor B Stranded tinned copper
Conductor Size 22AWG, 19 strands Class C
Insulation Material Polyvinyl Chloride
Insulation Thickness 0.021" Nom.
Core Diameter 0.073" Nom.

Pair Assembly Aluminum/Mylar Shield 100% Coverage

Overall Cable Assembly Aluminum foil screened Data pair twisted together with Aluminum foil screened Power pair around a drain wire

Drain Wire 22AWG, 19 strands, tinned copper

36AWG Tinned copper, coverage 65%

Jacket MaterialPolyvinyl ChlorideJacket Thickness0.040" Nom.Overall Diameter0.291"±0.015"

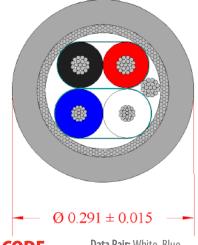
Jacket Color Gray

**Print Legend** 

Braid

ASCENT DeviceNet  $^{\rm TM}$  E478021 22AWG 1PR/SH (POWER) + 24AWG 1PR/SH (DATA) 75C C(UL)US CMG SUN RES FT4 OR AWM STYLE 2463

600V 80C "ROHS COMPLIANT" MADE IN USA



**COLOR CODE** 

**Data Pair:** White, Blue **Power Pair:** Red, Black

#### **ELECTRICAL PROPERTIES**

**Operating Temperature**  $-40^{\circ}\text{C to } +80^{\circ}\text{C}$ 

Maximum Operating Voltage CMG 300V RMS, AWM 600V RMS

Conductor DC Resistance@20°C 28 Ω/Mft (24AWG)

17.5 Ω/Mft (22AWG)

Outer Shield DC Resistance@20°C 3.2 Ω/Mft

Characteristic Impedance $120 \Omega$  for Data pairCapacitance11pF/ft for Data pair

**Inductance** 0.221 µH/ft (22AWG power pair)

 $0.251 \,\mu\text{H/ft}$  (24AWG power pair)

Weight 45 Lbs/Mft

### **SAFETY PROPERTIES**

Cable suitable for installation under NEC (NFPA 70) article 800 guidelines Cable suitable for installation in Canada under Section 60 of CEC, Part I C(UL) US listed as CMG per UL standard 444 and per CSA C22.2 No. 214-17 UL recognized component as AWM 2463, 80°C, 600V per UL standard 758 For internal wiring or external interconnection of electronic equipment

Cable meets (UL) 1685 FT4 flame test

Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive,

RoHS 3 2015/863/EU Directive

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

All trademarks are property of their respective owners. All specifications are subject to change.



