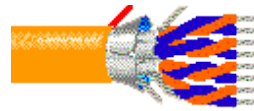
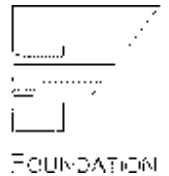


METRIC MEASUREMENT VERSION

## 2135A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information  
please call

1-800-Belden1



### General Description:

36 pair, 16 AWG, Stranded (7x24) Tinned Copper, 600V, Individually Foil Shielded Pairs, Overall Beldfoil Shield, Tinned Copper Drain Wires, XLP Insulation, Sunlight- and oil-resistant TPE jacket

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
36	16	7x24	TC - Tinned Copper

Total Number of Conductors: 72

#### Insulation

##### Insulation Material:

Insulation Material
XLP - Cross-linked Polyolefin

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
18	7x26	TC - Tinned Copper

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
16	7x24		TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
TPE - Thermoplastic Elastomer

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 49.581 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3
4	Blue & Orange Numbered 4

## 2135A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8
9	Blue & Orange Numbered 9
10	Blue & Orange Numbered 10
11	Blue & Orange Numbered 11
12	Blue & Orange Numbered 12
13	Blue & Orange Numbered 13
14	Blue & Orange Numbered 14
15	Blue & Orange Numbered 15
16	Blue & Orange Numbered 16
17	Blue & Orange Numbered 17
18	Blue & Orange Numbered 18
19	Blue & Orange Numbered 19
20	Blue & Orange Numbered 20
21	Blue & Orange Numbered 21
22	Blue & Orange Numbered 22
23	Blue & Orange Numbered 23
24	Blue & Orange Numbered 24
25	Blue & Orange Numbered 25
26	Blue & Orange Numbered 26
27	Blue & Orange Numbered 27
28	Blue & Orange Numbered 28
29	Blue & Orange Numbered 29
30	Blue & Orange Numbered 30
31	Blue & Orange Numbered 31
32	Blue & Orange Numbered 32
33	Blue & Orange Numbered 33
34	Blue & Orange Numbered 34
35	Blue & Orange Numbered 35
36	Blue & Orange Numbered 36

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-25°C Cold Impact, -40°C To +90°C, -55°C Cold Bend
<b>UL Temperature Rating:</b>	90°C Wet/Dry
<b>Installation Temperature Rating:</b>	-25°C
<b>Bulk Cable Weight:</b>	2790.375 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	15177.258 N
<b>Min. Bend Radius/Minor Axis:</b>	501.650 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	TC-ER
<b>CSA Specification:</b>	AWM I A/B II A/B, C22.2 #230 Type TC; C22.2#239 Type CIC
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

## 2135A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

**Other Specification:** IEC 61158-2 (ISA/SP-50) Type A

### Flame Test

**UL Flame Test:** UL1581 Vertical Tray

**CSA Flame Test:** FT4

**IEC Flame Test:** 60332-3-24 (Category C)

### Suitability

**Suitability - Indoor:** Yes

**Suitability - Outdoor:** Yes

**Sunlight Resistance:** Yes

**Oil Resistance:** Yes

### Plenum/Non-Plenum

**Plenum (Y/N):** No

## Electrical Characteristics (Overall)

### Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

### Nom. Inductance:

Inductance (µH/m)
0.722

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
72.182

### Maximum Capacitance Unbalance:

Capacitance (pF/m)
3.9372

### Nominal Velocity of Propagation:

VP (%)
64.000

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
13.780

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.039	0.213

### Max. Attenuation:

()	Freq. (MHz)	Attenuation (dB/100m)
0.298571	0.039	0.299

### Max. Operating Voltage - UL:

Voltage
600 V RMS

### Max. Operating Voltage - Other:

Voltage	Description
600V RMS	CSA CIC type TC

### Max. Recommended Current:

Description	Current
Per Conductor	7.2 Amps

**Other Electrical Characteristic 1:** Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft

**Other Electrical Characteristic 2:** 31.25 KBits/sec

## 2135A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2135A 0031000	1,000 FT	2,399.000 LB	ORANGE		600V/PR/36/16AWG/7T/XLPE/ORGBL
2135A 0061000	1,000 FT	2,399.000 LB	BLUE, LIGHT		600V/PR/36/16AWG/7T/XLPE/ORGBL

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