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please call

1-800-Belden1



### General Description:

5 pair, 16 AWG, Stranded (7x24) Tinned Copper, Individually Foil Shielded Pairs, Overall Beldfoil Shield, Tinned Copper Drain Wires, XLP Insulation, LSZH jacket, Bronze Braid Armor

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
5	16	7x24	TC - Tinned Copper

Total Number of Conductors: 10

#### 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
LSZH- Low Smoke Zero Halogen

Outer Jacket Ripcord: Yes

#### Outer Jacket over Armor

##### Outer Jacket Material Over Armor:

OJ Over Armor Material
LSZH- Low Smoke Zero Halogen

#### Armor

Armor Type: Bronze Braid

#### Overall Cable

Overall Nominal Diameter: 24.536 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
5	Blue & Orange Numbered 5

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +90°C
UL Temperature Rating:	90C Wet/Dry
Bulk Cable Weight:	751.541 Kg/Km
Max. Recommended Pulling Tension:	2241.893 N
Min. Bend Radius/Minor Axis:	254 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	45
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	IEC 61158-2 (ISA/SP-50) Type A, ABS Type Approval 13-HS1104623B

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
IEC Flame Test:	60332-3-22 (Category A)
IEEE Flame Test:	1202

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	No

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Unaveraged Impedance:

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

### Nom. Inductance:

METRIC MEASUREMENT VERSION

## 772129T Multi-Conductor - DataBus® Fieldbus Cable

**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
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**Max. Attenuation:**

**() Freq. (MHz) Attenuation (dB/100m)**

0.298571	0.039	0.299
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**Max. Operating Voltage - UL:**

**Voltage**

600 V RMS

**Max. Operating Voltage - Other:**

**Voltage Description**

600V RMS	CSA CIC type TC
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**Max. Recommended Current:**

**Description Current**

Per Conductor	10.1 Amps
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**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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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