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please call

1-800-Belden1



### General Description:

1 pair 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, polyolefin filler, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, Haloarrest XLink 2 jacket. Bronze Braid Armor.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	TC - Tinned Copper	1.168

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Material
PO - Polyolefin

#### 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
20	7x28	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
Haloarrest Xlink 2

##### Outer Jacket Diameter:

Nom. Dia. (mm)
9.652

#### Outer Jacket over Armor

##### Outer Jacket Material Over Armor:

OJ Over Armor Material
Haloarrest Xlink2

#### Armor

Armor Type: Bronze Braid

Diameter over Armor: .515

#### Overall Cable

Overall Cabling Fillers: Polypropylene

##### Overall Cabling Lay Length & Direction:

Length (mm)	Twists (twist/m)
57.150	17.3893

### Mechanical Characteristics (Overall)

## 973076Z Multi-Conductor - DataBus® Fieldbus Cable

Operating Temperature Range:	-20°C To +105°C
Max. Recommended Pulling Tension:	266.892 N
Min. Bend Radius/Minor Axis:	139.700 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, PLTC-ER
CEC/C(UL) Specification:	CMG
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 RoHS Compliance Date (mm/dd/yyyy):	09/16/2014
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:	ITC-ER, ABS Type Approval Certificate 14-HS1221997

#### Flame Test

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

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes - UL
Sunlight Resistance:	Yes
Oil Resistance:	Yes - Oil Res II
Non-halogenated:	Yes

#### Plenum/Non-Plenum

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

#### Unaveraged Impedance:

Freq. (MHz)	Impedance (Ohm)
0.031	100.000

#### Nom. Inductance:

Inductance (µH/m)
0.62339

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
147.645

#### Nom. Mutual Capacitance:

Capacitance (pF/m)
78.744

METRIC MEASUREMENT VERSION

## 973076Z Multi-Conductor - DataBus® Fieldbus Cable

### Maximum Capacitance Unbalance:

Capacitance (pF/m)
3.937

### Nominal Velocity of Propagation:

VP (%)
66

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
19.2267

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
24.608

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.039	0.262

### Max. Attenuation:

()	Freq. (MHz)	Attenuation (dB/100m)
0.298571	0.039	0.300

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Description	Current
Per Conductor	5.2 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

## Notes (Overall)

**Notes:** Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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