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please call

1-800-Belden1



### General Description:

5 pair, 18 AWG, Stranded (7x26) Tinned Copper, Individually Foil Shielded Pairs, Overall Beldfoil Shield, Tinned Copper Drain Wires, XLP Insulation, Haloarrest XLink 2 jacket, Bronze Braid Armor

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
5	18	7x26	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
20	7x28	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
18	7x26		TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
Haloarrest Xlink 2

Outer Jacket Ripcord: Yes

#### Outer Jacket over Armor

##### Outer Jacket Material Over Armor:

OJ Over Armor Material
Haloarrest Xlink 2

#### Aarmor

Armor Type: Bronze Braid

#### Overall Cable

Overall Nominal Diameter: 22.911 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:	666.714 Kg/Km
Max. Recommended Pulling Tension:	1374.494 N
Min. Bend Radius/Minor Axis:	228.600 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-HS1085604

**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:	Yes - Oil Res II

**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:**

## 972120Z 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)**

19.2267

**Nom. Attenuation:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	.039			0.26248

**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	7.6 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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
972120Z 0105000	5,000 FT	2,655.000 LB	BLACK		5FSPR#18XLPOFSTSNHBBRDARM TSNH

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