

2127Z Multi-Conductor - DataBus® Fieldbus Cable



For more Information
please call

1-800-Belden1

**General Description:**

1 pair, 16 AWG, Stranded (7x24) Tinned Copper, 100% Beldfoil Shield, Tinned Copper Drain Wires, XLP Insulation, Haloarrest Xlink 2 jacket

Physical Characteristics (Overall)**Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	7x24	TC - Tinned Copper

Total Number of Conductors: 2

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 Jacket

Outer Jacket Material:

Outer Jacket Material
Haloarrest Xlink 2

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 9.271 mm

Pair

Pair Color Code Chart:

Number	Color
1	Blue & Orange

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +90°C

UL Temperature Rating: 90C Wet/Dry

Bulk Cable Weight: 107.150 Kg/Km

Max. Recommended Pulling Tension: 413.683 N

Min. Bend Radius/Minor Axis: 95.250 mm

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

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NEC/(UL) Specification:	TC
CSA Specification:	AWM I A/B II A/B, C22.2 #230 Type TC; C22.2#239 Type CIC
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:

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

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Operating Voltage - Other:

Voltage	Description
600 V RMS	CSA CIC type TC

Max. Recommended Current:

Description	Current
Per Conductor	11.6 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
2127Z 0105000	5,000 FT	370.000 LB	BLACK		1 PR #16 XLPO FS TSNH

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