



**Part Number:** 1327A

Fieldbus, 2 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, CMG

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## Product Description

Fieldbus, 2 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.048 in	2

Conductor Count: 4

#### Insulation

Material
PO - Polyolefin

#### Color Chart

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

#### Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	20

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	18	7x26 mm

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.44 in

### Construction and Dimensions

#### Stranding

Twists
5.3 twist/ft

### Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.5 Ohm/1000ft	5.86 Ohm/1000ft	4.9 Ohm/1000ft

#### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance

1.2 pF/ft	45 pF/ft	24 pF/ft
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#### Inductance

<b>Nominal Inductance</b>
0.19 $\mu$ H/ft

#### Impedance

<b>Nominal Characteristic Impedance</b>
100 Ohm

#### High Frequency (Nominal/Typical)

<b>Nom. Insertion Loss</b>
0.08 dB/100ft

#### Delay

<b>Nominal Velocity of Propagation (VP) [%]</b>
66 %

#### High Freq

<b>Max. Insertion Loss (Attenuation)</b>	<b>Max./Min. Input Impedance (unFitted)</b>
0.091 dB/100ft	100 Ohm

#### Current

<b>Element</b>	<b>Max. Recommended Current [A]</b>
Per Conductor	5.2 Amps

#### Voltage

<b>UL Voltage Rating</b>
300 V RMS

Electrical Characteristics Notes:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

#### Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-40°C To +105°C

#### Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max Recommended Pulling Tension:	137 lbs
Min Bend Radius/Minor Axis:	4.4 in

#### Standards

NEC/(UL) Specification:	CMG, CMX-Outdoor, ITC, PLTC-ER
CEC/C(UL) Specification:	CMG

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	60332-3-24 (Category C)
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	UPC	Length	Footnote
1327A 0061000	Blue, Light	612825112020	1,000 ft	C
1327A 0031000	Orange	612825112013	1,000 ft	C

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.320 Revision Date: 08-22-2019
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