



**Product:** [1329A](#)

ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS, (8 pr) 18 AWG (7x26) TC, PO/PVC, IS/OS, CMG, CMX, PLTC-ER

[Request Sample](#)

## Product Description

Eight 18 AWG pairs stranded (7x26) tinned copper conductors, polyolefin insulation, individual plus overall Beldfoil® shield (100% coverage), oil-resistant PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Pairs
Pair(s)	18	7x26	TC - Tinned Copper	0.048 in	8

Conductor Count:	16
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#### Insulation

Material
PP - Polypropylene

#### Color Chart

Number	Color
1	Blue, Orange and Numbered
2	
3	
4	
5	
6	
7	
8	

#### Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	20	7x28
	Tinned Copper (TC)				

#### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18	7x26

#### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.67 in	Yes

### Construction and Dimensions

## Stranding

### Twists

6 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

### Inductance

#### Nominal Inductance

0.19  $\mu$ H/ft

### Impedance

#### Nominal Characteristic Impedance

100 Ohm

### High Frequency (Nominal/Typical)

#### Nom. Insertion Loss

0.08 dB/100ft

### Delay

#### Nominal Velocity of Propagation (VP) [%]

66%

### High Frequency

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

### Current

Element	Max. Recommended Current [A]
Per Conductor	5.2 Amps per Conductor

### Voltage

#### UL Voltage Rating

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 Temperature Range: -40°C to +105°C

## Mechanical Characteristics

Oil Resistance: Yes

UV Resistance: Yes

Max. Pull Tension: 481 lbs

Min. Bend Radius/Minor Axis: 6.7 in

## Standards

NEC Articles: Article 725, Article 727, Article 800

NEC/(UL) Compliance: CMG, CMX-Outdoor, ITC, PLTC-ER

CEC/C(UL) Compliance: CMG

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
IEC Flammability:	IEC 60332-3-24
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## History

Update and Revision:	Revision Number: 0.253 Revision Date: 05-05-2023
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