



**Product:** [1340A](#)

Fieldbus, 8 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, 600V TC-ER

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### Product Description

Fieldbus, 8 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, 600V TC-ER

### 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	No. of Conductors	No. of Pairs
Pair(s)	18	7x26	TC - Tinned Copper		8
Ground Wire	18	7x26	TC - Tinned Copper	1	

Conductor Count:	17
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##### Insulation

Element	Material
	PVC - Polyvinyl Chloride
Ground Wire	PVC - Polyvinyl Chloride

##### Color Chart

Number	Color
1	Blue, Orange and Numbered
2	
3	
4	
5	
6	
7	
8	
9	

##### Color Chart 2

Color
Green/Yellow

##### Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	18	7x26
	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	20	7x28

## Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.81 in

## Electrical Characteristics

### Conductor DCR

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

### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	45 pF/ft	24 pF/ft

### Inductance

Nominal Inductance
0.22 $\mu$ H/ft

### Impedance

Nominal Characteristic Impedance
100 Ohm

### High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.08 dB/100ft

### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.031 MHz	0.091 dB/100ft	100 Ohm

### Current

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

### Voltage

UL Voltage Rating
600 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:	75°C
Operating Temperature Range:	-30°C to +75°C

## Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max. Pull Tension:	381 lbs
Min. Bend Radius/Minor Axis:	8.1 in

## Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC-ER

## 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 - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
1340A 0035000	Orange	Reel	5,000 ft	612825112297

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

Update and Revision:	Revision Number: 0.288 Revision Date: 11-09-2022
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