



**Part Number:** 1338A

Fieldbus, 2 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, 600V TC-ER

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## Product Description

Fieldbus, 2 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, 600V TC-ER

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
	18	7x26	TC - Tinned Copper	1	2
Ground Wire	18	7x26	TC - Tinned Copper		

Conductor Count:	5
Total Number of Pairs:	2

#### Insulation

Material
PVC - Polyvinyl Chloride
FRPO - Flame Retardant Polyolefin

#### Color Chart

Number	Color
1	Blue and Orange and Numbered 1
2	Blue and Orange and Numbered 2
3	Green/Yellow (Ground)

#### Inner Shield Material

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

#### 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	20	7x28 mm

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.51 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 Freq

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

## 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 Temp Range:	-30°C To +75°C

## Mechanical Characteristics

Max Recommended Pulling Tension:	112 lbs
Min Bend Radius/Minor Axis:	5.1 in

## Standards

NEC/(UL) Specification:	TC-ER
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## 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 - 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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## Part Number

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### Variants

Item #	Color	UPC	Length
1338A 0037500	Orange	612825112273	7,500 ft

### History

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Update and Revision:	Revision Number: 0.319 Revision Date: 08-22-2019
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