



Product: <u>1339A</u> ☑

Fieldbus, 5 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, 600V TC-ER

Request Sample

Product Description

Fieldbus, 5 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.

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
	18	7x26	TC - Tinned Copper	5
Ground Wire	18	7x26	TC - Tinned Copper	
Conductor Co	ount:	11		

Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.032 in
PVC - Polyvinyl Chloride	0.032 in

Color Chart

Number	Color
1	Blue and Orange and Numbered 1
2	Blue and Orange and Numbered 2
3	Blue and Orange and Numbered 3
4	Blue and Orange and Numbered 4
5	Blue and Orange and Numbered 5
6	Green/Yellow (Ground)

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100%	TC - Tinned Copper	20	7x26

Outer Shield Material

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100%	TC - Tinned Copper	18	7x28

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.676 in	0.063 in

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR

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 µH/ft

Impedance

Nominal Characteristic Impedance

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.039 MHz	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 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	l

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Oil Resistance:	Yes
Max. Pull Tension:	246 lbs
Min Bend Radius/Minor Axis:	6.8 in

Standards

NEC/(UL) Compliance: TC-ER

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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):	2007-11-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes		

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

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No		

Part Number

Variants

	Item #	Color	Putup Type	Length	UPC
133	39A 0037500	Orange	Reel	7,500 ft	612825112280
Foo	otnote:		C - CRAT	E REEL	PUT-UP.

History

Update and Revision:	Revision Number: 0.232 Revision Date: 04-28-2020

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