Product: 1339A

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
Pair(s)	18	7x26	TC - Tinned Copper	5
Ground Wire	18	7x26	TC - Tinned Copper	

Conductor Count:	11

Insulation

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

Color Chart

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

Color Chart 2

Color
Green/Yellow

Inner 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	7x26

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	7x28

Outer Jacket

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

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR
7.5 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 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.039 MHz	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
Max. Pull Tension:	246 lbs
Min. Bend Radius/Minor Axis:	6.8 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 2003/11/EC (BFR):	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, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1339A 0037500	Orange	Reel	7,500 ft	612825112280

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.290 Revision Date: 05-05-2023