



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 |
|-------------|-----|-----------|--------------------|--------------|
|             | 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 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

| Type | 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 |
|------------------------------------|
|------------------------------------|

|                |
|----------------|
| 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 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                                                      |

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, LSOH, 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          |
|---------------|--------|------------|----------|--------------|
| 1339A 0037500 | Orange | Reel       | 7,500 ft | 612825112280 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

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

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