



Part Number: 2119A

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

[Request Sample](#)

Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 18 | 7x26 | TC - Tinned Copper | 2 |

Conductor Count: 4

Insulation

| Material | Nominal Wall Thickness |
|-------------------------------|------------------------|
| XLP - Cross Linked Polyolefin | 0.032 in |

Color Chart

| Number | Color |
|--------|----------------------------|
| 1 | Blue and Orange Numbered 1 |
| 2 | Blue and Orange Numbered 2 |

Inner Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® | 100 % | TC - Tinned Copper | 20 | 7x28 |

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 | 18 | 7x26 mm |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|-------------------------------|------------------|------------------------|---------|
| TPE - Thermoplastic Elastomer | 0.512 in | 0.047 in | Yes |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 5.86 Ohm/1000ft |

Capacitance

| Max. Capacitance Unbalance | Nom. Capacitance Conductor to Conductor |
|----------------------------|---|
| 1.2 pF/ft | 22 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 |

Delay

| Nominal Velocity of Propagation (VP) [%] |
|--|
| 64 % |

High Freq

| Max. Insertion Loss (Attenuation) | Max./Min. Input Impedance (unFitted) |
|-----------------------------------|--------------------------------------|
| 0.091 dB/100ft | 100 Ohm |

Current

| Element | Max. Recommended Current [A] |
|---------------|------------------------------|
| Per Conductor | 8.7 Amps per Conductor |

Voltage

| Description | UL Voltage Rating |
|-----------------|-------------------|
| CSA CIC type TC | 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: | 90°C |
| Operating Temp Range: | -40°C To 90°C |

Mechanical Characteristics

| | |
|----------------------------------|----------------|
| Oil Resistance: | Yes |
| Bulk Cable Weight: | 109 lbs/1000ft |
| Max Recommended Pulling Tension: | 137 lbs |
| Min Bend Radius/Minor Axis: | 5.25 in |

Standards

| | |
|-------------------------|------------------|
| NEC/(UL) Specification: | TC-ER |
| CSA AWM Specification: | AWM I A/B II A/B |

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 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Oil Resistance: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|------------------|----------------------|
| UL Flammability: | UL1581 Vertical Tray |
|------------------|----------------------|

| | |
|-----------------------|-------------------------|
| CSA Flammability: | FT4 |
| ISO/IEC Flammability: | 60332-3-24 (Category C) |
| UL voltage rating: | 600 V RMS |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | UPC | Length |
|---------------|-------------|--------------|----------|
| 2119A 0061000 | Blue, Light | 612825129530 | 1,000 ft |
| 2119A 0065000 | Blue, Light | 612825129547 | 5,000 ft |
| 2119A 0031000 | Orange | 612825129516 | 1,000 ft |
| 2119A 0035000 | Orange | 612825129523 | 5,000 ft |

History

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| Update and Revision: | Revision Number: 0.329 Revision Date: 08-22-2019 |
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