



**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 µH/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 |
|-------------------------|-------|

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, 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  | UPC          | Length   |
|---------------|--------|--------------|----------|
| 1338A 0037500 | Orange | 612825112273 | 7,500 ft |

History

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

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