



Product: [1335A](#)

Fieldbus, 2 C #16 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CM

Request Sample

Product Description

Fieldbus, 2 Conductor 16AWG (7x24H) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, Orange PVC Outer Jacket, CM

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

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 16  | 7x24      | TC - Tinned Copper | 1            |

Conductor Count: 2

Insulation

| Material           |
|--------------------|
| PP - Polypropylene |

Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Blue & Orange |

Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape  | 1     | Alum / Poly        | Beldfoil®           | 100 %        | TC - Tinned Copper | 20            | 7x28                         |
| Braid | 2     | TC - Tinned Copper |                     | 65 %         |                    |               |                              |

Outer Jacket Material

| Material                 | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.34 in          | Yes     |

Electrical Characteristics

Conductor DCR

| Max. Outer Shield DCR | Nominal Conductor DCR |
|-----------------------|-----------------------|
| 4.9 Ohm/1000ft        | 4.2 Ohm/1000ft        |

Capacitance

| Max. Capacitance Unbalance | Nom. Capacitance Conductor to Shield | Nom.Mutual Capacitance |
|----------------------------|--------------------------------------|------------------------|
| 1.2 pF/ft                  | 45 pF/ft                             | 24 pF/ft               |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 100 Ohm                          |

High Frequency (Nominal/Typical)

| Nom. Insertion Loss |
|---------------------|
| 0.066 dB/100ft      |

Delay

| Nominal Velocity of Propagation (VP) [%] |
|------------------------------------------|
| 66 %                                     |

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 Amps                       |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 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: | -30°C To +90°C |

Mechanical Characteristics

|                                  |        |
|----------------------------------|--------|
| Oil Resistance:                  | Yes    |
| UV Resistance:                   | Yes    |
| Bulk Cable Weight:               | 79 lbs |
| Max Recommended Pulling Tension: | 84 lbs |
| Min Bend Radius/Minor Axis:      | 3.4 in |

Standards

|                          |               |
|--------------------------|---------------|
| NEC/(UL) Specification:  | CM, ITC, PLTC |
| CEC/C(UL) Specification: | CM            |

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                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                  |                   |
|------------------|-------------------|
| UL Flammability: | UL1685 UL Loading |
|------------------|-------------------|

|                    |           |
|--------------------|-----------|
| UL voltage rating: | 300 V RMS |
|--------------------|-----------|

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color       | Putup Type | Length   | UPC          |
|---------------|-------------|------------|----------|--------------|
| 1335A 0061000 | Blue, Light | Reel       | 1,000 ft | 612825112198 |
| 1335A 0031000 | Orange      | Reel       | 1,000 ft | 612825112167 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.328 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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