



Product: [1345F](#)

Fieldbus, 2 C #15+18 Str TC, PVC-NYL&FEP Ins, IS+OA TC Brd, TPE Jkt, High Flex

[Request Sample](#)

Product Description

Fieldbus, 2 Conductor 15+18AWG (65x33+65x36) Tinned Copper, PVC-NYL&FEP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, Orange TPE Outer Jacket, High Flex

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 |
|-----|-----------|--------------------|--------------|
| 15 | 65x33 | TC - Tinned Copper | 1 |
| 18 | 65x36 | TC - Tinned Copper | 1 |

| | |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

Insulation

| Material | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.021 in |
| PE - Polyethylene (Foam) | 0.053 in |

Color Chart

| Number | Color |
|------------|--------------|
| 1 (15 AWG) | Red & Black |
| 2 (18 AWG) | Blue & White |

Inner Shield Material

| Type | Layer | Material | Coverage [%] |
|------|-------------|-------------|--------------|
| Tape | 15 AWG Pair | Alum / Poly | 100% |

Outer Shield Material

| Type | Material | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|--------------------|--------------|--------------------|---------------|------------------------------|
| Braid | Tinned Copper (TC) | 65% | TC - Tinned Copper | 18 | 65x36 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.480 in | 0.060 in |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|-----------------------|--------------------------|
| 15 AWG | 3.6 Ohm/1000ft | 1.8 Ohm/1000ft |
| | 6.9 Ohm/1000ft | |

Capacitance

| Element | Nom. Capacitance Conductor to Conductor |
|------------------|---|
| 18 AWG Pair Only | |
| | 12.0 pF/ft |

Inductance

| Element | Nominal Inductance |
|------------------|--------------------|
| 15 AWG Pair Only | 0.174 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 100 Ohm |
| 120 Ohm |

Delay

| Max. Delay | Max. Delay Description | Nominal Delay | Nominal Velocity of Propagation (VP) [%] | Nominal Velocity of Propagation (VP) Description |
|------------|------------------------|---------------|--|--|
| 1.36 ns/ft | 18 AWG Pair Only | | | 18 AWG Pair Only |
| | | 1.36 ns/ft | 75% | |

High Freq

| Element | Frequency [MHz] | Max./Min. Input Impedance (unFitted) |
|------------------|-----------------|--------------------------------------|
| 18 AWG Pair Only | 0.125 MHz | 120 Ohm |
| | 0.5 MHz | |
| | 1 MHz | |

Current

| Element | Max. Recommended Current [A] |
|---------|------------------------------|
| 15 AWG | 8 Amps per Conductor |
| 18 AWG | 5 Amps per Conductor |

Voltage

| UL Description | UL Voltage Rating |
|----------------|-------------------|
| CMG, PLTC-ER | 300 V |
| UL AWM 20201 | 600 V |

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -30°C to +75°C |

Mechanical Characteristics

| | |
|-----------------------------|----------------|
| Oil Resistance: | Yes |
| Bulk Cable Weight: | 133 lbs/1000ft |
| Max. Pull Tension: | 205 lbs |
| Min Bend Radius/Minor Axis: | 4.6 in |

Standards

| | |
|--------------------------|--------------------------|
| NEC Articles: | Article 725, Article 800 |
| NEC/(UL) Compliance: | CMG, PLTC-ER |
| CEC/C(UL) Compliance: | CMG |
| UL AWM Style Compliance: | 20201 |
| CSA AWM Compliance: | AWM I/II A |
| CPR Euroclass: | Eca |

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): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Oil Resistance: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|--------------------|
| UL Flammability: | UL1685 FT4 Loading |
| CSA Flammability: | FT4 |
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|----------|------------|----------|--------------|
| 1345F T5U1000 | Gray T5U | Reel | 1,000 ft | 612825112327 |

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

Product Notes

| | |
|--------|---|
| Notes: | High-Flex. Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed ""1PR16"" instead of ""1PR15"" due to UL requirements for CMG Listing. |
|--------|---|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.371 Revision Date: 07-09-2020 |
|----------------------|--|

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Multi-Conductor Cables](#) category:

Click to view products by [Belden](#) manufacturer:

Other Similar products are found below :

[89182-010-1000](#) [89705-008-500](#) [6000FE-877-1000](#) [CS2885-000](#) [M27500-20SP2S23](#) [6300FE-877-U1000](#) [6309UE-877-1000](#) [M3905-BK005](#)
[6502FE 8771000](#) [6541PA-008-U1000](#) [CV6807-000](#) [CW9530-000](#) [CX6543-000](#) [CXA-0066-20-4-9CS2973](#) [CXA-0078-16-1-9CS2405](#) [CXA-](#)
[0078-22-4-9CS2405](#) [CXA-0078-24-4-9CS2405](#) [CXA-0140-16-6/9-9CS2405](#) [CY0660-000](#) [720451-000](#) [752687-000](#) [768146-000](#) [773159-000](#)
[82841-877-5000](#) [83318E-009-500](#) [8348-060-500](#) [83559-002-1000](#) [83653-002-5000](#) [83659-002-1000](#) [83709-002-1000](#) [8404-060-500](#) [8469](#)
[060100](#) [858171-000](#) [8628-060-500](#) [868361-001](#) [8730-060-1000](#) [8737-060-U1000](#) [8747-060-100](#) [8747-060-1000](#) [8769-060-1000](#) [8775-060-](#)
[500](#) [877541-000](#) [8780-060-1000](#) [8782-001-U1000](#) [88444-002-1000](#) [9159-060-500](#) [939870-000](#) [9423 060U500](#) [9444 060U1000](#) [9497](#)
[0001000](#)