



Part Number: 3076F

FOUNDATION Fieldbus/ PROFIBUS PA, (1 pr) 18 AWG (7x26) TC, PO/PVC, Foil Shld, CMG, CMX-Outdoor, PLTC-ER

Product Description

One 18 AWG pair stranded (7x26) tinned copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | Nominal Diameter | No. of Pairs |
|------------------------------------|-----------|--------------------|------------------|--------------|
| 18 | 7x26 | TC - Tinned Copper | 0.046 in | 1 |
| Total Number of Conductors: | | | | 2 |

Insulation:

| Material |
|-----------------|
| PO - Polyolefin |

Stranding:

| Lay Length |
|------------|
| 0.091 mm |

Cabling 1:

| Lay Length | Twists | Filler |
|------------|--------------|---------------|
| 2.25 in | 5.3 twist/ft | Polypropylene |

Outershield 1:

| 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 mm |

Outerjacket 1:

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.28 in |

Electrical Characteristics**Conductor DCR:**

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 5.86 Ohm/1000ft | 7.5 Ohm/1000ft |

Capacitance:

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

| | |
|---|---|
| Other Electrical Characteristic 1: | Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft |
| Other Electrical Characteristic 2: | 31.25 KBits/sec |

High Frequency (Nominal/Typical):

| Nom. Insertion Loss |
|---------------------|
| 0.08 db/100ft |

Delay:

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

High Freq:

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Max./Min. Input Impedance (unFitted) |
|-----------------|-----------------------------------|--------------------------------------|
| 0.031 MHz | 0.091 db/100ft | 100 Ohm |
| 0.039 MHz | | |
| 0.039 MHz | | |

Current:

| Element | Max. Recommended Current [A] |
|---------------|------------------------------|
| Per Conductor | 5.2 Amps |

Inductance:

| Nominal Inductance | |
|--------------------|--|
| 0.19 μ H/ft | |

Voltage:

| UL Voltage Rating | |
|-------------------|--|
| 300 V RMS | |

Use

| | |
|------------------------------------|----------|
| Suitability - Oil Resistance: | Yes |
| Suitability - Burial: | Yes - UL |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |
| Max Recommended Pulling Tension: | 60 lbs |

Safety

| | |
|---------------------|--------------|
| C(UL) Flammability: | FT4 |
| IEEE Flammability: | 1202 |
| UL Flammability: | UL1666 Riser |

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -40°C To +105°C |
| UL Temp Rating: | 105°C |

Mechanical Characteristics

| | |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 2.5 in |
|-----------------------------|--------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification: | CEC/C(UL) Specification |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| NEC Articles: | NEC Articles |
| NEC/(UL) Specification: | NEC/(UL) Specification |

| | |
|---------------------------------|-------------------------------|
| Other Specification: | Other Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | EU CE Mark |

History

| | |
|---------------|--|
| Notes: | Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010 |
|---------------|--|

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|-------------|-------------|---------|
| 3076F 0031000 | ORANGE | Reel | 1000 ft |
| 3076F 0032500 | ORANGE | Reel | 2500 ft |
| 3076F 003250 | ORANGE | Reel | 250 ft |
| 3076F 0035000 | ORANGE | Reel | 5000 ft |
| 3076F 003500 | ORANGE | Reel | 500 ft |
| 3076F 0061000 | BLUE, LIGHT | Reel | 1000 ft |

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