Detailed Specifications & Technical Data





183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus





For more Information please call

1-800-Belden1



Description:

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, oil & sunilight resistant PVC inner jacket, continuous corrugated aluminum armor, PVC outer jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| ı | # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---|---------|-----|-----------|--------------------|------------|
| | 1 | 18 | 7x26 | TC - Tinned Copper | .048 |

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |

Outer Shield Drain Wire AWG:

| | | Stranding | Drain Wire Conductor Material |
|--|----|-----------|--------------------------------------|
| | 20 | 7x28 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket over Armor (y/n):

Outer Jacket over Armor

Outer Jacket Material Over Armor:

OJ Over Armor Material
PVC - Polyvinyl Chloride

Outer Jacket Wall Thickness Over Armor: .055

Armor

| Armor Type: | Continuously Corrugated |
|----------------------|-------------------------|
| Armor Material: | Aluminum |
| Armor Thickness: | .021 |
| Diameter over Armor: | .452 |
| | |

Overall Cable

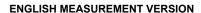
Overall Nominal Diameter: 0.562 in.

Pair

Pair Color Code Chart:
Number Color



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Blue & Orange

Pair Lay Length & Direction:



| Mechanical Characteristics (Overall) | |
|--------------------------------------|------------------|
| Operating Temperature Range: | -40°C To +105°C |
| UL Temperature Rating: | 105°C |
| Bulk Cable Weight: | 145 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 59 lbs. |

Min. Bend Radius (Install)/Minor Axis: 6.800 in.

Applicable Specifications and Agency Compliance (Overall)

| Applicable Standards & Environmental P | Programs |
|----------------------------------------|-----------------|
|----------------------------------------|-----------------|

| NEC/(UL) Specification: | ITC, PLTC |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CM |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/18/2006 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Fla

UL Flame Test: UL1685 UL Loading

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Unaveraged Impedance:

| Description | n Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Impedance (Ohm) |
|-------------|---------------|-------------------|------------------|-----------------|
| | .03125 | | | 100 |

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

Maximum Average Capacitance Unbalance:



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Capacitance (pF/ft)

Nominal Velocity of Propagation:

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.86

Ind. Pair Nominal Shield DC Resistance @ 20

7.500 Ohm/1000 ft

Deg. C:

Nom. Attenuation:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|-------------|-------------------|------------------|--------------------------|
| | .039 | | | .08 |

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.) .091 0.039 0.091

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description Current Per Conductor | 5.2 Amps

Other Electrical Characteristic 1: Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pF/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|--------|-------|----------------------------|
| 183076F 0032000 | 2,000 FT | 240.000 LB | ORANGE | CZ | ARMORED TWPR #18 PP FS PVC |

Notes:

C = CRATE REEL PUT-UP

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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