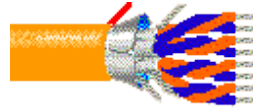


1328A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information
please call

1-800-Belden1



Description:

5 pair, 18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, individual & overall Beldfoil® shield (100% coverage), tinned copper drain wire, oil-resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 5 | 18 | 7x26 | TC - Tinned Copper | .048 |

Insulation

Insulation Material:

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

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG | Stranding | Conductor Material |
|-----|-----------|--------------------|
| 20 | 7x28 | TC - Tinned Copper |

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:

| AWG | Stranding | Drain Wire | Conductor Material |
|-----|-----------|------------|--------------------|
| 18 | 7x26 | | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.550 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|--------------------------|
| 1 | Blue & Orange Numbered 1 |
| 2 | Blue & Orange Numbered 2 |
| 3 | Blue & Orange Numbered 3 |
| 4 | Blue & Orange Numbered 4 |
| 5 | Blue & Orange Numbered 5 |

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Pair Lay Length & Direction:

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 2.000 | 6.000 |

Mechanical Characteristics (Overall)

| | |
|--|----------------|
| Operating Temperature Range: | -30°C To +90°C |
| UL Temperature Rating: | 90°C |
| Max. Recommended Pulling Tension: | 309 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 5.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CMG |
| 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): | 09/01/2006 |
| 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 |

Flame Test

| | |
|------------------|-------------------------|
| UL Flame Test: | UL1685 FT4 Loading |
| IEC Flame Test: | 60332-3-24 (Category C) |
| IEEE Flame Test: | 1202 |

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

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .19 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 45.0 |

Nom. Mutual Capacitance:

| Capacitance (pF/ft) |
|---------------------|
| 24.0 |

Maximum Capacitance Unbalance:

| Capacitance (pF/ft) |
|---------------------|
|---------------------|

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1.2

Nominal Velocity of Propagation:

VP (%)
66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.86

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.9

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 7.500 Ohm/1000 ft

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 pS/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|-------------------------|
| 1328A 0031000 | 1,000 FT | 164.000 LB | ORANGE | C | 5 FS PR #18 PP FS FRPVC |
| 1328A 0031640 | 1,640 FT | 288.640 LB | ORANGE | C | 5 FS PR #18 PP FS FRPVC |
| 1328A 0061000 | 1,000 FT | 164.000 LB | BLUE, LIGHT | C | 5 FS PR #18 PP FS FRPVC |
| 1328A 0061640 | 1,640 FT | 288.640 LB | BLUE, LIGHT | C | 5 FS PR #18 PP FS FRPVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-19-2008

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