

S1328NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

For more Information
please call

1-800-Belden1

**Description:**

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

Physical Characteristics (Overall)**Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 5 | 18 | 7x26 | TC - Tinned Copper | 0.048 |

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 | 100.000 |

Outer Shield Drain Wire AWG:

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

Outer Jacket**Outer Jacket Material:**

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|-------------------------------|
| Haloarrest® | LSZH - Low Smoke Zero Halogen |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.550 in.

Pair**Pair Color Code Chart:**

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

Pair Lay Length & Direction:

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| 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**

| | |
|---------------------------------------|---------------|
| NEC/(UL) Specification: | CM, 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): | 11/19/2007 |
| 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 Vertical Tray Flame Test |
| IEC Flame Test: | IEC 332-3 Category C Bunched Cables |

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:**

| Freq. (MHz) | Impedance (Ohm) |
|-------------|-----------------|
| 0.031 | 100.000 |

Nom. Inductance:

| Inductance (μH/ft) |
|--------------------|
| 0.190 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 45.000 |

Nom. Mutual Capacitance:

| Capacitance (pF/ft) |
|---------------------|
| 24.000 |

Maximum Capacitance Unbalance:

| Capacitance (pF/ft) |
|---------------------|
| 1.200 |

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Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 66.000 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.860 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 4.900 |

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

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 0.039 | 0.080 |

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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