

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



For more Information
please call

1-800-Belden1



General 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 |

Total Number of Conductors: 10

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:

| Lay Length (in.) | Twists (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.

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

Min. Bend Radius/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 Directive 2011/65/EU (ROHS II): | Yes |
| 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 |

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.) |
|-------------|--------------------------|
|-------------|--------------------------|

ENGLISH MEASUREMENT VERSION

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

| | |
|-------|-------|
| 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 |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

Revision Number: 0 Revision Date: 06-18-2008

© 2017 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).