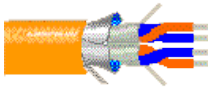


## S1327NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



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.)
2	18	7x26	TC - Tinned Copper	0.048

Total Number of Conductors: 4

#### 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®	FRPE - Flame Retardant Polyethylene

#### Overall Cable

Overall Nominal Diameter: 0.440 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Blue and Orange and Numbered 1
2	Blue and Orange and Numbered 2

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: 137 lbs.

Min. Bend Radius/Minor Axis: 4.400 in.

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

## S1327NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

NEC/(UL) Specification:	CM, IIC, 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):	11/07/2007
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:	60332-3-24 (Category C)

### Suitability

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

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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.)
0.039	0.091

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

## ENGLISH MEASUREMENT VERSION

### S1327NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

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
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