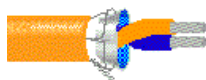


S3076NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, polyolefin fillers, Beldfoil® shield (100% coverage), tinned copper drain wire, polypropylene separator, oil & sunlight resistant LSZH jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	TC - Tinned Copper	0.048

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

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
20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Cabling Fillers: Polyolefin

Overall Nominal Diameter: 0.280 in.

Pair

Pair Color Code Chart:

Number	Color
1	Blue and Orange

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +90°C

UL Temperature Rating: 90°C

Max. Recommended Pulling Tension: 59 lbs.

Min. Bend Radius/Minor Axis: 2.900 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

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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 UL Loading
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
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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

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

Notes (Overall)

Notes: Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. CPE jacket is optional. Tape around pair has shorting fold.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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