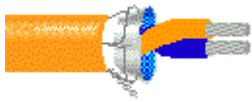


S3076NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

For more Information
please call

1-800-Belden1



Description:

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, 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. (mm)
1	18	7x26	TC - Tinned Copper	1.219

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 Cabling

Overall Cabling Fillers: Polyolefin

Overall Nominal Diameter: 7.112 mm

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: 262.444 N

Min. Bend Radius (Install)/Minor Axis: 73.660 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM, ITC, PLTC

CEC/C(UL) Specification: CM

METRIC MEASUREMENT VERSION

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

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 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

Electrical Characteristics (Overall)

Unaveraged Impedance:

Freq. (MHz) Impedance (Ohm)

0.031	100.000
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Nom. Inductance:

Inductance (µH/m)

0.623

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

147.645

Nom. Mutual Capacitance:

Capacitance (pF/m)

78.744

Maximum Capacitance Unbalance:

Capacitance (pF/m)

3.937

Nominal Velocity of Propagation:

VP (%)

66.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

19.227

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 24.608 Ohm/km

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

0.039	0.262
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Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

0.039	0.299
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METRIC MEASUREMENT VERSION

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

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.

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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Revision Number: 0 Revision Date: 04-19-2011

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