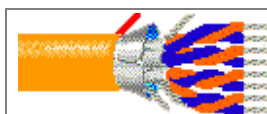


**1330NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable**



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, LSZH jacket.

## Physical Characteristics (Overall):

### Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
12.000	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

Outer Shield Drain Wire AWG

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

### Outer Jacket:

Outer Jacket Material

Outer Jacket Material
FRPE - Flame Retardant Polyethylene

Outer Jacket Ripcord

Yes

### Overall Cabling:

Overall Nominal Diameter: 0.810 x 0.000 in.

### Pair:

Pair Color Code Chart

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3
4	Blue & Orange Numbered 4
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8

**1330NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable**

9	Blue & Orange Numbered 9
10	Blue & Orange Numbered 10
11	Blue & Orange Numbered 11
12	Blue & Orange Numbered 12

**Pair Lay Length & Direction**

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 Dry
Max. Recommended Pulling Tension:	311 lbs.
Min. Bend Radius (Install)/Minor Axis:	8.100 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

NEC/(UL) Specification	CM^ITC^PLTC
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	03/28/2008

**Flame Test:**

UL Flame Test	UL1685 UL Loading
IEC Flame Test	60332-3-24 (Category C)

**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**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop 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

**1330NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable**

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

Description	Freq. (MHz)	Start Freq. (MHz)	Stop 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

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1330A 0031000	1,000 FT	387.000 LB	ORANGE	C	12 FS PR #18 PP FS FRPVC ORG
1330A 0031640	1,640 FT	596.960 LB	BLUE, LIGHT	C	12 FS PR #18 PP FS FRPVC ORG
1330A 0061000	1,000 FT	387.000 LB	BLUE, LIGHT	C	12 FS PR #18 PP FS FRPVC BLULT
1330A 0061640	1,640 FT	596.960 LB	BLUE, LIGHT	C	12 FS PR #18 PP FS FRPVC BLULT

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 03-28-2008

© 2007 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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

---

**1330NH Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable**

usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.