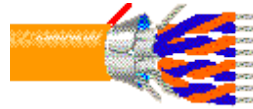
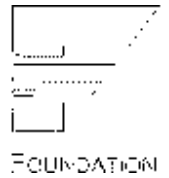


METRIC MEASUREMENT VERSION

2111A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable



For more Information
please call

1-800-Belden1



General Description:

5 pair, 16 AWG Stranded (7x24) Tinned Copper, 300V, Individually Foil Shielded Pairs, Overall Beldfoil (100% Shield Coverage), Tinned Copper Drain Wires, XLP Insulation, Sunlight- and oil-resistant FR-PVC jacket

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
5	16	7x24	TC - Tinned Copper

Total Number of Conductors: 10

Insulation

Insulation Material:

Insulation Material
XLP - Cross-linked 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
18	7x26	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
16	7x24		TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FR PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 20.041 mm

Pair

Pair Color Code Chart:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3

2111A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

4	Blue & Orange Numbered 4
5	Blue & Orange Numbered 5

Mechanical Characteristics (Overall)

Operating Temperature Range:	-25°C Cold Impact, -40°C To +90°C, -55°C Cold Bend
UL Temperature Rating:	90°C Wet/Dry
Installation Temperature Rating:	-25°C
Bulk Cable Weight:	437.531 Kg/Km
Max. Recommended Pulling Tension:	2241.893 N
Min. Bend Radius/Minor Axis:	203.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification:	CMG, ITC, PLTC-ER
CSA Specification:	AWM I A/B II A/B, C22.2 #230 Type TC; C22.2#239 Type CIC
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 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
Other Specification:	IEC 61158-2 (ISA/SP-50) Type A

Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
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)
	.03125			100

Nom. Inductance:

Inductance (µH/m)
0.722

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
72.182

Maximum Capacitance Unbalance:

METRIC MEASUREMENT VERSION

2111A Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cable

Capacitance (pF/m)

3.9372

Nominal Velocity of Propagation:

VP (%)

64.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

13.780

Nom. Attenuation:

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

0.039	0.213
-------	-------

Max. Attenuation:

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

0.298571	0.039	0.299
----------	-------	-------

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Operating Voltage - Other:

Voltage	Description
---------	-------------

300V RMS	CSA CIC type TC
----------	-----------------

Max. Recommended Current:

Description	Current
-------------	---------

Per Conductor	10.1 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
2111A 0031000	1,000 FT	379.000 LB	ORANGE		300V/PR/05/16AWG/7T/XLPE/ORGBL
2111A 0035000	5,000 FT	1,750.000 LB	ORANGE		300V/PR/05/16AWG/7T/XLPE/ORGBL
2111A 0061000	1,000 FT	379.000 LB	BLUE, LIGHT		300V/PR/05/16AWG/7T/XLPE/ORGBL
2111A 0065000	5,000 FT	1,750.000 LB	BLUE, LIGHT		300V/PR/05/16AWG/7T/XLPE/ORGBL

Revision Number: 1 Revision Date: 09-29-2014

© 2019 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).