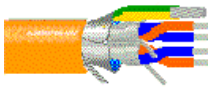
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

SI1343A 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 PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	20	18	7x26	TC - Tinned Copper

Total Number of Conductors:	41

Ground Wire

Ground Wire (Y/N):	Y
Ground Wire AWG:	18
Ground Wire Stranding:	7x26
Ground Wire Conductor Material:	TC - Tinned Copper
Ground Wire Insulation Material:	PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material
FRPO - Flame Retardat 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	100.000

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	1.250 in.

Pair

Pair Color Code Chart:

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

9	Blue and Orange and Numbered 9
10	Blue and Orange and Numbered 10
11	Blue and Orange and Numbered 11
12	Blue and Orange and Numbered 12
13	Blue and Orange and Numbered 13
14	Blue and Orange and Numbered 14
15	Blue and Orange and Numbered 15
16	Blue and Orange and Numbered 16
17	Blue and Orange and Numbered 17
18	Blue and Orange and Numbered 18
19	Blue and Orange and Numbered 19
20	Blue and Orange and Numbered 20
21	Green/Yellow (Ground)

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Max. Recommended Pulling Tension:	918 lbs.
Min. Bend Radius/Minor Axis:	12.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER
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):	11/01/2007
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

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

Nom. Inductance:

Inductance (µH/ft)
0.220

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
45.000

Nom. Mutual Capacitance:

Capacitance (pF/ft)
24.000

Maximum Capacitance Unbalance:

Capacitance (pF/ft)
1.200

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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
600 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

Revision Number: 0 Revision Date: 06-18-2008

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