

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1865A Coax - Sub-Miniature



For more Information
please call

1-800-Belden1



Description:

25 AWG stranded (19x37) .021" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

#	Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	25	19x37		BC - Bare Copper	.021

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.094

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.150 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 14 lbs/1000 ft.

Max. Recommended Pulling Tension: 30 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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): 01/01/2004

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
RG Type:	Sub-miniature 59/U

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black Only
Suitability - Aerial:	Yes - Black only, when supported by a messenger wire

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μ H/ft)
.093

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.5

Nominal Velocity of Propagation:

VP (%)
82

Nominal Delay:

Delay (ns/ft)
1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
27.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.4

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.47
3.58	1.0
5	1.1
7	1.3
10	1.6
67.5	3.6
71.5	3.7
88.5	4.1
100	4.4
135	5.0
143	5.1
180	5.8
270	7.1
360	8.2
540	10.1
720	11.8

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750	12.0
1000	13.9
1500	17.0
2000	19.6
2250	20.8
3000	24.0

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Other Electrical Characteristic 2:

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	850	21
851	3000	18

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 3 GHz.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1865A N3U1000	1,000 FT	16.000 LB	GREEN, MIL		#25 GifHDPE SH FR PVC
1865A 0011000	1,000 FT	16.000 LB	BROWN	C	#25 GifHDPE SH FR PVC
1865A 0021000	1,000 FT	16.000 LB	RED	C	#25 GifHDPE SH FR PVC
1865A 0031000	1,000 FT	16.000 LB	ORANGE		#25 GifHDPE SH FR PVC
1865A 0041000	1,000 FT	16.000 LB	YELLOW		#25 GifHDPE SH FR PVC
1865A 0061000	1,000 FT	16.000 LB	BLUE, LIGHT	C	#25 GifHDPE SH FR PVC
1865A 0071000	1,000 FT	16.000 LB	VIOLET	C	#25 GifHDPE SH FR PVC
1865A 0081000	1,000 FT	16.000 LB	GRAY		#25 GifHDPE SH FR PVC
1865A 0091000	1,000 FT	16.000 LB	WHITE	C	#25 GifHDPE SH FR PVC
1865A 0101000	1,000 FT	16.000 LB	BLACK	C	#25 GifHDPE SH FR PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 05-12-2010

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