

1865A Coax - Sub-Miniature



For more Information
please call

1-800-Belden1

**General 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

Total Number of Conductors: 1

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:	27 lbs.
Min. Bend Radius/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 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):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	Sub-miniature 59/U

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/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
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 48.2, 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 50.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	21.000

850.000	3000.000	18.000
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Sweep Test

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

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.

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