

1865A Coax - Sub-Miniature

	For more information please call 1-800-Belden1 <u>See Put-ups and Colors</u>
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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:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	Sub-miniature 59/U
AWG	25
Stranding	19x37
Conductor Diameter	.021 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.094 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield %Coverage	100 %
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.150 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
UL Temperature Rating	75°C

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Bulk Cable Weight	16 lbs/1000 ft.
Max. Recommended Pulling Tension	30 lbs.
Min. Bend Radius (Install)	1.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
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SWEEP TEST:

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

Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black Only
Suitability - Aerial	Yes - Black only, when supported by a messenger wire
Suggested Connectors	BNC - Kings 2025-47-9

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.093 µH/ft
Nom. Capacitance Conductor to Shield	16.5 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	27.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	5.4 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	850	21
		851	3000	18

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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	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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1865A 0011000	#25 GIFHDPE SH FR PVC	1000	14	BROWN	C
1865A 0021000	#25 GIFHDPE SH FR PVC	1000	14	RED	C
1865A 0031000	#25 GIFHDPE SH FR PVC	1000	14	ORANGE	
1865A 0041000	#25 GIFHDPE SH FR PVC	1000	14	YELLOW	
1865A 0061000	#25 GIFHDPE SH FR PVC	1000	14	BLUE, LIGHT	C
1865A 0071000	#25 GIFHDPE SH FR PVC	1000	14	VIOLET	C
1865A 0081000	#25 GIFHDPE SH FR PVC	1000	14	GRAY	
1865A 0091000	#25 GIFHDPE SH FR PVC	1000	14	WHITE	C

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1865A 0101000	#25 GIFHDPE SH FR PVC	1000	14	BLACK	C
1865A N3U1000	#25 GIFHDPE SH FR PVC	1000	14	GREEN, MIL	

C = CRATE REEL PUT-UP.

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