

1855A Coax - Sub-Miniature

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

23 AWG solid .023" 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	23
Stranding	Solid
Conductor Diameter	.023 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.102 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	.159 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C

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Bulk Cable Weight	18 lbs/1000 ft.
Max. Recommended Pulling Tension	36 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 4.5 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 2065-11-9

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.107 μ H/ft
Nom. Capacitance Conductor to Shield	16.3 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.22 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	20.1 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	7.6 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	1600	23
		1601	4500	21

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.39
	3.58			.78
	5			.92
	7			1.08
	10			1.20
	67.5			2.83
	71.5			3.06
	88.5			3.16
	100			3.33
	135			3.81
	143			3.92
	180			4.38
	270			5.40
	360			6.20
	540			7.70
	720			9.47
	750			9.59
	1000			10.5
	1500			13.0
	2000			15.1
	2250			16.0
	3000			18.5
	4500			22.8

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.

NOTES:

Notes	Also available in multiples, bundled. See 7787A through 7792A.
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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1855A 0011000	#23 PE/GIFHDPE SH FR PVC	1000	16	BROWN	C
1855A 0021000	#23 PE/GIFHDPE SH FR PVC	1000	16	RED	C
1855A 0031000	#23 PE/GIFHDPE SH FR PVC	1000	16	ORANGE	C
1855A 0041000	#23 PE/GIFHDPE SH FR PVC	1000	16	YELLOW	C
1855A 0061000	#23 PE/GIFHDPE SH FR PVC	1000	16	BLUE, LIGHT	C
1855A 0071000	#23 PE/GIFHDPE SH FR PVC	1000	16	VIOLET	C

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1855A 0081000	#23 PE/GIFHDPE SH FR PVC	1000	16	GRAY	C
1855A 0091000	#23 PE/GIFHDPE SH FR PVC	1000	16	WHITE	C
1855A 0101000	#23 PE/GIFHDPE SH FR PVC	1000	16	BLACK	C
1855A 010500	#23 PE/GIFHDPE SH FR PVC	500	9	BLACK	
1855A N3U1000	#23 PE/GIFHDPE SH FR PVC	1000	16	GREEN, MIL	C

C = CRATE REEL PUT-UP.

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