

1855A Coax - Sub-Miniature



Description

23 AWG solid .023" 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	23	Solid	BC - Bare Copper	0.023

Insulation:

Insulation Material

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.102

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 Cabling:

Overall Nominal Diameter: .159 in.

Mechanical Characteristics (Overall):

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

UL Temperature Rating 75°C

Bulk Cable Weight: 18 lbs/1000 ft.

Max. Recommended Pulling Tension: 36 lbs.

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

Applicable Specifications and Agency Compliance (Overall):

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

RG Type Sub-miniature 59/U

Flame Test:

UL Flame Test UL1666 Vertical Shaft

Suitability:

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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

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (µH/ft)
0.107

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.300

Nominal Velocity of Propagation

VP (%)
82

Nominal Delay

Delay (ns/ft)
1.220

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
20.100

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
7.600

Nom. Attenuation

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.390
3.580	0.780
5.000	0.920
7.000	1.080
10.000	1.200
67.500	2.830
71.500	3.060
88.500	3.160
100.000	3.330
135.000	3.810
143.000	3.920
180.000	4.380
270.000	5.400
360.000	6.200
540.000	7.700
720.000	9.470
750.000	9.590
1000.000	10.500
1500.000	13.000
2000.000	15.100
2250.000	16.000
3000.000	18.500
4500.000	22.800

Max. Operating Voltage - UL

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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)
5.000	1600.000	23.000
1601.000	4500.000	21.000

Sweep Test:

Sweep Testing 100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall):

Notes Also available in multiples, bundled. See 7787A through 7792A.

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1855A 0011000	1,000 FT	17.000 LB	BROWN	C	#23 PE/GIFHDPE SH FR PVC BRN
1855A 0021000	1,000 FT	17.000 LB	RED	C	#23 PE/GIFHDPE SH FR PVC RED
1855A 0031000	1,000 FT	17.000 LB	ORANGE	C	#23 PE/GIFHDPE SH FR PVC ORG
1855A 0041000	1,000 FT	17.000 LB	YELLOW	C	#23 PE/GIFHDPE SH FR PVC YEL
1855A 0061000	1,000 FT	17.000 LB	BLUE, LIGHT	C	#23 PE/GIFHDPE SH FR PVC BLULT
1855A 0071000	1,000 FT	17.000 LB	VIOLET	C	#23 PE/GIFHDPE SH FR PVC VIO
1855A 0081000	1,000 FT	17.000 LB	GRAY	C	#23 PE/GIFHDPE SH FR PVC GRY
1855A 0091000	1,000 FT	17.000 LB	WHITE	C	#23 PE/GIFHDPE SH FR PVC WHT
1855A 0101000	1,000 FT	17.000 LB	BLACK	C	#23 PE/GIFHDPE SH FR PVC BLK
1855A 010500	500 FT	9.500 LB	BLACK		#23 PE/GIFHDPE SH FR PVC BLK
1855A N3U1000	1,000 FT	17.000 LB	GREEN, MIL	C	#23 PE/GIFHDPE SH FR PVC GRNML

Notes:

C = CRATE REEL PUT-UP.

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