Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

1855A Coax - Sub-Miniature



For more Information
please call

1-800-Belden1

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. (mm)
1	23	Solid	BC - Bare Copper	0.5842

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	2.5908

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:	4.039 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	25.299 Kg/Km
Max. Recommended Pulling Tension:	160.135 N
Min. Bend Radius (Install)/Minor Axis:	38.100 mm

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

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

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.351067

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

Nominal Velocity of Propagation:

VP (%)
82

Nominal Delay:

Delay (ns/m)
4.00282

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
65.9481

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
24.9356

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	1.280
3.580	2.559
5.000	3.019
6.000	3.281
7.000	3.543
10.000	3.937
12.000	4.265
25.000	5.906
67.500	9.285
71.500	10.040
88.500	10.368
100.000	10.926
135.000	12.501
143.000	12.862
180.000	14.371
270.000	17.717

360.000	20.342
540.000	25.264
720.000	31.071
750.000	31.465
1000.000	34.451
1500.000	42.653
2000.000	49.543
2250.000	52.496
3000.000	60.699
4500.000	74.807

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	1600	23
1601	4500	21

Sweep Test

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

Misc. Information (Overall)

Notes (Overall)

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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1855A N3U1000	305 MT	7.711 KG	GREEN, MIL	C	#23 PE/GIFHDPE SH FR PVC
1855A 0011000	305 MT	7.711 KG	BROWN	C	#23 PE/GIFHDPE SH FR PVC
1855A 0021000	305 MT	7.711 KG	RED	C	#23 PE/GIFHDPE SH FR PVC
1855A 0031000	305 MT	7.711 KG	ORANGE	C	#23 PE/GIFHDPE SH FR PVC
1855A 0041000	305 MT	7.711 KG	YELLOW	C	#23 PE/GIFHDPE SH FR PVC
1855A 0061000	305 MT	7.711 KG	BLUE, LIGHT	C	#23 PE/GIFHDPE SH FR PVC
1855A 0071000	305 MT	7.711 KG	VIOLET	C	#23 PE/GIFHDPE SH FR PVC
1855A 0081000	305 MT	7.711 KG	GRAY	C	#23 PE/GIFHDPE SH FR PVC
1855A 0091000	305 MT	7.711 KG	WHITE	C	#23 PE/GIFHDPE SH FR PVC
1855A 0101000	305 MT	7.711 KG	BLACK	C	#23 PE/GIFHDPE SH FR PVC
1855A 010500	152 MT	4.309 KG	BLACK		#23 PE/GIFHDPE SH FR PVC

Notes:
C = CRATE REEL PUT-UP.

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