



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: 26.788 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	1.27959
3.58	2.55918
5	3.01852
7	3.54348
10	3.9372
67.5	9.28523
71.5	10.0399
88.5	10.368
100	10.9257
135	12.5006
143	12.8615
180	14.3708
270	17.7174
360	20.3422
540	25.2637
720	31.0711

750	31.4648
1000	34.4505
1500	42.653
2000	49.5431
2250	52.496
3000	60.6985
4500	74.8068

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)

Other Description: 02/11/05 BAG: Changed to 82% VP per long term capability. 3-29-05 BAG: Added 4.5 GHz RL Testing. 06/27/05 BAG: Added 4.5 GHz Atten

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 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.

Revision Number: 8 Revision Date: 04-18-2008

© 2008 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and

the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.