

1857A Coax - RG-59/U Type

For more Information
please call

1-800-Belden1

**Description:**

22 AWG stranded (19x34) .031" bare copper conductor, foam polyethylene insulation, bare copper braid shields (95% coverage), Belflex® jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	19x34	BC - Bare Copper	.031

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.143

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PE - Polyethylene	.216

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	94.7

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Belflex®	PVC Blend - Polyvinyl Chloride Blend

Overall Cable

Overall Nominal Diameter: 0.360 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -35°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 79 lbs/1000 ft.

Max. Recommended Pulling Tension: 124 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU CE Mark: No

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:	59/U
----------	------

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Suitability - Outdoor:	Yes - Black for permanent installations. All colors for field deployable use.
------------------------	-------------------------------------------------------------------------------

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

75

Nom. Inductance:

Inductance (μH/ft)

0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.0

Nominal Velocity of Propagation:

VP (%)

79

Nominal Delay:

Delay (ns/ft)

1.29

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.0

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
-------------	--------------------------

1	0.3
---	-----

3.6	0.5
-----	-----

10	0.8
----	-----

71.5	2.2
------	-----

135	3.1
-----	-----

270	4.5
-----	-----

360	5.4
-----	-----

540	6.8
-----	-----

720	8.1
-----	-----

750	8.4
-----	-----

1000	10.1
1500	13.3
2250	17.6
3000	21.4

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	850	21
851	3000	15

Sweep Test

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

Notes (Overall)

Notes: For use in field deployable applications where high flexibility, wide temperature range, and durability are required. Permanently indent printed for field identification.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1857A B591000	1,000 FT	86.000 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A B59500	500 FT	42.500 LB	BLACK, MATTE	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0021000	1,000 FT	86.000 LB	RED	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0041000	1,000 FT	86.000 LB	YELLOW	C	#22 FLDPE VLDPE PVC TRIAX
1857A 004500	500 FT	42.500 LB	YELLOW		#22 FLDPE VLDPE PVC TRIAX
1857A 0061000	1,000 FT	86.000 LB	BLUE, LIGHT	C	#22 FLDPE VLDPE PVC TRIAX
1857A 0071000	1,000 FT	86.000 LB	VIOLET	C	#22 FLDPE VLDPE PVC TRIAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 04-06-2009

© 2012 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.