

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

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

Total Number of Conductors:

1

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	95.000

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/Minor Axis: 3.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μ H/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

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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.

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.

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