Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



1857A Triax - RG-59/U Type

For more Information please call

1-800-Belden1



General 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. (mm)
1	22	19x34	BC - Bare Copper	0.7874

Total Number of Conductors:

1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	3.6322

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. (mm)
PE - Polyethylene	5.4864

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: 9.144 mm

Mechanical Characteristics (Overall)

The state of the s				
Operating Temperature Range:	-35°C To +75°C			
Non-UL Temperature Rating:	75°C			
Bulk Cable Weight:	117.568 Kg/Km			
Max. Recommended Pulling Tension:	551.577 N			
Min. Bend Radius/Minor Axis:	95.250 mm			
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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EU Directive 2011/65/EU (ROHS II):	Yes
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:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



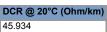
Nominal Velocity of Propagation:



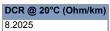
Nominal Delay:



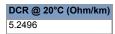
Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.6405
10	2.6248
71.5	7.2182
135	10.1711
270	14.7645
360	17.7174

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540	22.3108
720	26.5761
750	27.5604
1000	33.1381
1500	43.6373
2250	57.7456
3000	70.2134

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	С	#22 FLDPE VLDPE PVC TRIAX
1857A B594000	4,000 FT	336.000 LB	BLACK, MATTE		#22 FLDPE VLDPE PVC TRIAX
1857A B59500	500 FT	42.500 LB	BLACK, MATTE	С	#22 FLDPE VLDPE PVC TRIAX
1857A B595000	5,000 FT	435.000 LB	BLACK, MATTE		#22 FLDPE VLDPE PVC TRIAX
1857A 0021000	1,000 FT	86.000 LB	RED	С	#22 FLDPE VLDPE PVC TRIAX
1857A 0041000	1,000 FT	86.000 LB	YELLOW	С	#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	С	#22 FLDPE VLDPE PVC TRIAX
1857A 0071000	1,000 FT	86.000 LB	VIOLET	С	#22 FLDPE VLDPE PVC TRIAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 09-19-2012

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