Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



1856A Triax - RG-59/U Type

For more Information please call

1-800-Belden1



General Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% coverage), Belflex® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Total Number of Conductors:

1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)	
Gas-injected FHDPE - Foam High Density Polyethylene	3.683	

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

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)

Operating Temperature Range:	-35°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	113.103 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
Sui	tability	
	Suitability - Indoor:	Yes
	Suitability - Outdoor:	Yes - Black for permanent installations. All colors for field deployable use.
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



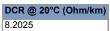
Nominal Delay:



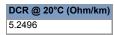
Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.9686
10	2.6248
71.5	7.2182
135	9.843
270	13.7802
360	15.7488

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540	19.3579
720	22.6389
750	23.2951
1000	28.8728
1500	39.372
2250	53.8084
3000	66.9324

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: Permanent indent printing for field identification.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1856A B591000	1,000 FT	83.000 LB	BLACK, MATTE	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A B594000	4,000 FT	312.000 LB	BLACK, MATTE		#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0021000	1,000 FT	83.000 LB	RED	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0041000	1,000 FT	83.000 LB	YELLOW	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0051000	1,000 FT	83.000 LB	GREEN, DARK	С	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0061000	1,000 FT	83.000 LB	BLUE, LIGHT	С	#20 PE/GIFHDPELDPE PVC TRIAX

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-19-2012

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