


Product: [1856B](#) 

Video Triax, RG59, #20 Solid, Belflex jacket, CMR/CMG



Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1
Conductor Count:				1
Insulation				
Material		Nominal Diameter		
PE - Polyethylene (Foam)		0.145 in		
Table Notes:				Gas Injected

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

Inner Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.216 in

Outer Shield		
Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Outer Jacket		
Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.36 in

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
10.1 Ohm/1000ft	10.1 Ohm/1000ft	2.5 Ohm/1000ft	1.6 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
16.2 pF/ft	

Inductance	
Nominal Inductance	
0.097 µH/ft	

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-850 MHz	21 dB
850-3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
3.6 MHz	0.6 dB/100ft
10 MHz	0.8 dB/100ft
71.5 MHz	2.2 dB/100ft
135 MHz	3 dB/100ft
270 MHz	4.2 dB/100ft
360 MHz	4.8 dB/100ft
540 MHz	5.9 dB/100ft
720 MHz	6.9 dB/100ft
750 MHz	7.1 dB/100ft
1000 MHz	8.8 dB/100ft
1500 MHz	12 dB/100ft
2250 MHz	16.4 dB/100ft
3000 MHz	20.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83%

Voltage

Non-UL Voltage Rating	UL Voltage Rating
300 V RMS	300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	-35°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	81 lbs/1000ft
Max. Pull Tension:	124 lbs
Min. Bend Radius/Minor Axis:	3.75 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MIL Order #39 (China RoHS):	Yes

Suitability

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Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
1856B B591000	Black, Matte	Reel	1,000 ft	612825358527
1856B 0061000	Blue, Light	Reel	1,000 ft	612825356707
1856B 0051000	Green, Dark	Reel	1,000 ft	612825356714
1856B 0021000	Red	Reel	1,000 ft	612825356820
1856B 0071000	Violet	Reel	1,000 ft	612825356691
1856B 0041000	Yellow	Reel	1,000 ft	612825356721

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.268 Revision Date: 12-15-2021
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