



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. (in.)
1	20	Solid	BC - Bare Copper	.032

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

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

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

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: 70 lbs/1000 ft.

Max. Recommended Pulling Tension: 124 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.500 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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/ft)

1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.1

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	.3
3.6	.6
10	.8
71.5	2.2
135	3.0
270	4.2
360	4.8
540	5.9
720	6.9
750	7.1

1000	8.8
1500	12.0
2250	16.4
3000	20.4

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: 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	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0021000	1,000 FT	83.000 LB	RED	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0041000	1,000 FT	83.000 LB	YELLOW	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0051000	1,000 FT	83.000 LB	GREEN, DARK	C	#20 PE/GIFHDPELDPE PVC TRIAX
1856A 0061000	1,000 FT	83.000 LB	BLUE, LIGHT	C	#20 PE/GIFHDPELDPE PVC TRIAX

Notes:

C = CRATE REEL PUT-UP.

Video Triax Cable

RG-59/U Type



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

20 AWG Solid .032" Bare Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Belflex® Jacket (Red, Yellow, Green, Blue or Black); Polyethylene Insulation between Braids

75°C	1856A	—	1000	304.8	83.0	37.7	20 AWG (solid)	.145	3.68	(2) BC Braids	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
							.032"			95% Coverage							3.6	.6	2.0
							BC			Inner:							10	.8	2.6
							10.1Ω/M'			2.5Ω/M'							71.5	2.2	7.2
							33.1Ω/km			8.2Ω/km							135	3.0	9.8
										Outer:							270	4.2	13.8
										1.6Ω/M'							360	4.8	15.7
										5.3Ω/km							540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
																	3000	20.4	66.9

Suitable for Outdoor applications: Black for permanent installations, all colors for field deployable use.

Gas-injected Foam HDPE Insulation • Belflex Jacket (Red, Yellow, Green, Blue, Purple or Black); PVC Insulation between Braids

75°C	1856B	NEC: CMR CEC: CMG FT4	1000	304.8	86.0	39.1	20 AWG (solid)	.145	3.68	(2) BC Braids	.360	9.14	75	83%	16.2	53.1	1	.3	1.0
							.032"			95% Coverage							3.6	.6	2.0
							BC			Inner:							10	.8	2.6
							10.1Ω/M'			2.5Ω/M'							71.5	2.2	7.2
							33.1Ω/km			8.2Ω/km							135	3.0	9.8
										Outer:							270	4.2	13.8
										1.6Ω/M'							360	4.8	15.7
										5.2Ω/km							540	5.9	19.4
																	720	6.9	22.6
																	750	7.1	23.3
																	1000	8.8	28.9
																	1500	12.0	39.4
																	2250	16.4	53.8
																	3000	20.4	66.9

Suitable for Indoor/Outdoor applications.

Gas-injected Foam HDPE Insulation • Paper Tape Separator • Black Hypalon® Jacket (Polyethylene Insulation between Braids)

80°C	9267	—	500	152.4	39.5	18.0	20 AWG (solid)	.145	3.68	(2) BC Braids	.360	9.14	75	82%	16.3	53.5	1	.3	1.0
VW-1			1000	304.8	77.0	35.0	.032"			95% Coverage							3.6	.6	2.0
							BC			Inner:							10	.9	3.0
							10.0Ω/M'			2.5Ω/M'							71.5	2.1	6.9
							33.1Ω/km			8.2Ω/km							135	2.9	9.5
										Outer:							270	4.2	13.8
										2.6Ω/M'							360	4.8	15.7
										8.5Ω/km							540	6.0	19.7
																	720	6.7	22.0
																	750	6.9	22.6
																	1000	8.3	27.2
																	1500	10.5	34.5
																	2250	13.4	44.0
																	3000	15.9	52.2

Suitable for Outdoor and Direct Burial applications and Aerial when supported by a Messenger wire.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene

Hypalon is a DuPont trademark.