



Description:

20 AWG Solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shield (95% coverage), PVC 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

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.242 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 33 lbs/1000 ft.

Max. Recommended Pulling Tension: 68 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

AWM Specification: UL Style 1354

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

Flame Test

UL Flame Test:	UL1685 UL Loading
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - When supported by a messenger wire.

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)
16.3

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/ft)
1.21

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
5	.65
10	.9
50	1.9
100	2.6
200	3.6
400	5.0
700	7.0
900	8.0
1000	8.5

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354)
300 V RMS (CM)

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1426A 010U1000	1,000 FT	37.000 LB	BLACK		#20 PE/GIFHDLPE BRD PVC

Standard Analog Video 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-covered Steel Conductor • Bare Copper Braid Shield (80% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket																			
75°C	9240	—	1000	304.8	31.0	14.1	20 AWG (solid)	.143	3.63	BC Braid	.241	6.12	75	78%	17.3	56.7	1	.6	2.0
							.032"			80% Shield Coverage							10	1.0	3.3
							BCCS			5.6Ω/M'							50	2.1	6.9
							44.5Ω/M'			18.4Ω/km							100	3.0	9.8
							146.0Ω/km										200	4.5	14.8
																	400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8

Suitable for Outdoor applications.

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

Foam Polyethylene Insulation • Black Polyethylene Jacket																			
80°C	8212	—	U-500	U-152.4	16.5	7.5	20 AWG (solid)	.143	3.63	BC Braid	.242	6.15	75	78%	17.3	56.7	1	.6	2.0
			500	152.4	15.0	6.8	.032"			95% Shield Coverage							10	1.0	3.3
			U-1000	U-304.8	31.0	14.1	BCCS			2.6Ω/M'							50	2.1	6.9
			1000	304.8	33.0	15.0	44.5Ω/M'			8.5Ω/km							100	3.0	9.8
							146.0Ω/km										200	4.5	14.8
																	400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8

Suitable for Outdoor and Aerial applications when supported by a Messenger Wire.

Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	9274	NEC: CM	500	152.4	15.5	7.0	20 AWG (solid)	.143	3.63	BC Braid	.240	6.10	75	82%	16.3	53.5	1	.6	2.0
		CEC: CM	1000	304.8	35.0	15.9	.032"			95% Shield Coverage							10	1.0	3.3
							BCCS			3.5Ω/M'							50	2.1	6.9
							44.5Ω/M'			11.5Ω/km							100	3.0	9.8
							146.0Ω/km										200	4.5	14.8
																	400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8

Suitable for Outdoor applications.

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

Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 75°C)	1426A	NEC: CM	U-1000	U-304.8	35.0	15.9	20 AWG (solid)	.145	3.68	BC Braid	.242	6.15	75	83%	16.3	53.5	1	.3	1.0
							.032"			95% Shield Coverage							5	.7	2.1
							BC			2.6Ω/M'							10	.9	3.0
							10.0Ω/M'			8.5Ω/km							50	1.9	6.2
							32.8Ω/km										100	2.6	8.5
																	200	3.6	11.8
																	400	5.0	16.4
																	700	7.0	23.0
																	900	8.0	26.3
																	1000	8.5	27.9

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance