



## Description:

20 AWG solid .032" bare copper-covered steel conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), polyethylene jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BCCS - Bare Copper Covered Steel	.032

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.143

### Outer Shield

#### Outer Shield Material:

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

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

### Overall Cabling

Overall Nominal Diameter: 0.242 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 107 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 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 - Outdoor: Yes

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

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

75

#### Nom. Inductance:

Inductance (µH/ft)

.097

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.3

#### Nominal Velocity of Propagation:

VP (%)

78

#### Nominal Delay:

Delay (ns/ft)

1.3

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

44.5

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.6

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	.6
10	1.0
50	2.1
100	3.0
200	4.5
400	6.6
700	8.9
900	10.1
1000	10.9

#### Max. Operating Voltage - Non-UL:

Voltage

300 V RMS

#### Minimum Structural Return Loss:

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Min. SRL (dB)

		5	450	23
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## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8212 010U1000	1,000 FT	31.000 LB	BLACK		75 OHM COAX
8212 010U500	500 FT	16.500 LB	BLACK		75 OHM COAX

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## 8212 Coax - 75 Ohm Coax

8212 0101000	1,000 FT	33.000 LB	BLACK	C	75 OHM COAX
8212 010500	500 FT	15.000 LB	BLACK	C	75 OHM COAX

**Notes:**

C = CRATE REEL PUT-UP.

# 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)**

<b>Foam Polyethylene Insulation • Black PVC Jacket</b>																			
75°C	<b>9240</b>	—	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)**

<b>Foam Polyethylene Insulation • Black Polyethylene Jacket</b>																			
80°C	<b>8212</b>	—	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.

<b>Foam Polyethylene Insulation • Black PVC Jacket</b>																			
80°C	<b>9274</b>	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)**

<b>Gas-injected Foam HDPE Insulation • Black PVC Jacket</b>																			
UL AWM Style 1354 (30V 75°C)	<b>1426A</b>	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