



## Description:

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

### Overall Cabling

Overall Nominal Diameter: 0.240 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 86 lbs.

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

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

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

### 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 (%)
82

### Nominal Delay:

Delay (ns/ft)
1.24

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
44.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.5

### 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 - UL:

Voltage
300 V RMS

### Minimum Structural Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5	450	23

## Notes (Overall)

**Notes:** 100% sweep tested. 5 MHz to 450 MHz.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9274 0101000	1,000 FT	35.000 LB	BLACK	C	RG-59/U TYPE COAX
9274 010500	500 FT	15.500 LB	BLACK		RG-59/U TYPE 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