



## Description:

RG-174/U type, 26 AWG stranded (7x34) .019" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (90% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	26	7x34	BCCS - Bare Copper Covered Steel	.019

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.060

### Outer Shield

#### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	90

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cabling

Overall Nominal Diameter: 0.110 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	60°C (UL AWM Style 1354)
Bulk Cable Weight:	8.400 lbs/1000 ft.
Max. Recommended Pulling Tension:	21 lbs.
Min. Bend Radius (Install)/Minor Axis:	1 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

AWM Specification:	UL Style 1354 (30 V 60°C)
EU CE Mark:	Yes
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:	174/U

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

**Nom. Inductance:**

Inductance (µH/ft)

0.077

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

30.8

**Nominal Velocity of Propagation:**

VP (%)

66

**Nominal Delay:**

Delay (ns/ft)

1.54

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

97

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

10.7

**Nom. Attenuation:**

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

1	1.9
10	3.3
50	5.8
100	8.4
200	12.5
400	19.0
700	27.0
900	31.0
1000	34.0

**Max. Power Rating:**

Freq. (MHz) Rating (W)

1	976
10	354
50	197
100	161
200	136
400	120
700	112
900	109
1000	108

**Max. Operating Voltage - UL:**

Voltage

30 V RMS (UL AWM Style 1354)

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

**Voltage**

1100 V RMS (Military)

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8216 010100	100 FT	1.100 LB	BLACK		#26 PE BRD PVC
8216 0101000	1,000 FT	9.000 LB	BLACK	G N	#26 PE BRD PVC
8216 010500	500 FT	5.000 LB	BLACK		#26 PE BRD PVC

**Notes:**

G = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 100'

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

# 50 Ohm Transmission and Computer Cable

RG-188A/U, RG-174/U and RG-58/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

**RG-174/U Type • 26 AWG** Stranded (7x34) .019" Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (90% Coverage)

**Polyethylene Insulation • Black PVC Jacket**

UL AWM Style 1354 (30V 75°C)	<b>8216</b>	—	100	30.5	1.1	.5	26 AWG (7x34)	.060	1.52	TC Braid	.110	2.79	50	66%	30.8	101.0	1	1.9	6.2
			500	152.4	5.0	2.3				90% Shield							10	3.3	10.8
			1000††	304.8	9.0	4.1	.019"			Coverage							50	5.8	19.0
							BCCS			10.7Ω/M'							100	8.4	27.6
							97.0Ω/M'			35.1Ω/km							200	12.5	41.0
							318.2Ω/km										400	19.0	62.3
																	700	27.0	88.6
																	900	31.0	101.7
																	1000	34.0	111.5



**RG-188A/U Type • 26 AWG** Stranded (7x34) .020" Silver-plated Copper-covered Steel Conductor • SPC Braid Shield (96% Coverage)

**TFE Teflon® Insulation • White TFE Tape Jacket**

200°C VW-1	<b>83269</b>	—	100†	30.5	2.0	.9	26 AWG (7x34)	.058	1.47	SPC Braid	.098	2.49	50	69.5%	29.0	95.1	1	1.2	3.9
			500†	152.4	6.5	2.9	.020"			96% Shield							10	2.7	8.9
			1000†	304.8	12.0	5.5				Coverage							50	5.6	18.4
							SCCCS			8.5Ω/M'							100	8.3	27.2
							91.2Ω/M'			27.9Ω/km							200	12.0	39.4
							299.2Ω/km										400	17.5	57.4
																	700	23.7	77.8
																	900	27.3	89.6
																	1000	29.0	95.1

MIL-C-17D



**RG-58/U Type • 20 AWG** Solid .033" Bare Copper Conductor • Bare Copper Braid Shield (78% Coverage)

**Polyethylene Insulation • Black PVC Jacket**

80°C	<b>9201</b>	—	U-500	U-152.4	13.0	5.9	20 AWG (solid)	.116	2.95	BC Braid	.193	4.90	51.5	66%	28.5	93.5	1	.3	1.1
			500	152.4	11.5	5.2	.033"			78% Shield							10	1.1	3.6
			U-1000	U-304.8	25.0	11.4				Coverage							50	2.5	8.2
			1000	304.8	23.0	10.4	BC			5.5Ω/M'							100	3.8	12.5
							10.0Ω/M'			18.0Ω/km							200	5.6	18.4
							33.1Ω/km										400	8.4	27.6
																	700	11.7	38.4
																	900	13.7	44.9
																	1000	14.5	47.6



**RG-58/U Type • 20 AWG** Solid .033" Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (55% Coverage)

**Polyethylene Insulation • Black PVC Jacket**

UL AWM Style 1354 (30V 60°C)	<b>9310**</b>	—	500	152.4	10.5	4.8	20 AWG (solid)	.114	2.90	Duobond II* + 55%	.193	4.90	50	66%	30.8	101.0	1	.5	1.5
			U-1000	U-304.8	22.0	10.0	.033"			TC Braid							10	1.4	4.6
			1000	304.8	21.0	9.5				Coverage							50	2.8	9.2
							BC			8.0Ω/M'							100	3.8	12.5
							9.4Ω/M'			24.4Ω/km							200	5.4	17.7
							28.6Ω/km										400	7.9	25.9
																	700	11.1	36.4
																	900	12.8	42.0
																	1000	13.9	45.6

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SCCCS = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper • TC = Tinned Copper • TFE = Tetra Fluoroethylene

\*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

† May contain more than one piece, min. length of any one piece is 25 ft.

†† May contain more than one piece, min. length of any one piece is 100 ft. Length may vary ±10% from length shown.

Teflon is a DuPont trademark.