



## Description:

RG-8/U type, 13 AWG stranded (7x21) .085" bare copper conductor, polyethylene insulation, bare copper braid shield (97% coverage), non-contaminating PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	13	7x21	BC - Bare Copper	.085

### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.285

### Outer Shield

#### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	97

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

### Overall Cabling

Overall Nominal Diameter: 0.405 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	60°C (UL AWM Style 1354)
Bulk Cable Weight:	99 lbs/1000 ft.
Max. Recommended Pulling Tension:	190 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMX
CEC/C(UL) Specification:	CMX
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):	10/01/2005
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
Military Specification:	MIL-C-17D
RG Type:	8/U

### Flame Test

UL Flame Test:	VW-1
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### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

#### Impedance (Ohm)

52

### Nom. Inductance:

#### Inductance (µH/ft)

.079

### Nom. Capacitance Conductor to Shield:

#### Capacitance (pF/ft)

28.5

### Nominal Velocity of Propagation:

#### VP (%)

66

### Nominal Delay:

#### Delay (ns/ft)

1.54

### Nom. Conductor DC Resistance:

#### DCR @ 20°C (Ohm/1000 ft)

1.9

### Nominal Outer Shield DC Resistance:

#### DCR @ 20°C (Ohm/1000 ft)

1.2

### Nom. Attenuation:

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

1	.2
10	.6
50	1.3
100	1.9
200	2.8
400	4.2
700	5.9
900	6.9
1000	7.4
4000	23.2

### Max. Operating Voltage - UL:

#### Voltage

150 V RMS

30 V RMS (UL AWM Style 1354)

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

#### Voltage

3700 V RMS

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9251 0101000	1,000 FT	115.000 LB	BLACK	C	#13 PE BRD PVC
9251 010500	500 FT	58.000 LB	BLACK	C	#13 PE BRD PVC

**Notes:**

C = CRATE REEL PUT-UP.

# 50 Ohm Transmission and Computer Cable

## RG-8X and RG-8/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-8X Type • 16 AWG** Stranded (19x29) .058" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)

**Gas-injected FPE Insulation • Black PVC Jacket**

UL AWM	<b>9258</b>	NEC:	U-500	U-152.4	20.0	9.1	16 AWG	.155	3.94	BC Braid	.242	6.15	50	82%	24.8	75.6	1	.3	1.0
Style 1354		CM	500	152.4	18.5	8.4	(19x29)			95% Shield							10	.9	3.0
(30V 80°C)		CEC:	U-1000	U-304.8	39.0	17.7	.058"			Coverage							50	2.1	6.9
		CM	1000	304.8	40.0	18.2	BC			3.3Ω/M'							100	3.1	10.2
							4.3Ω/M'			10.8Ω/km							200	4.5	14.8
						14.1Ω/km										400	6.6	21.7	
																700	9.1	29.9	
																900	10.7	35.1	
																1000	11.2	36.7	

\*1000 ft. put-up also available in White.  
Suitable for Outdoor and Aerial applications.

**RG-8/U Type • 13 AWG** Stranded (7x21) .085" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

**Polyethylene Insulation • Black PVC Jacket**

75°C	<b>8237</b>	NEC:	100	30.5	13.6	6.2	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
		CMH	500	152.4	58.0	26.3	(7x21)			97% Shield							10	.6	1.8
		CEC:	1000	304.8	114.0	51.7	.085"			Coverage							50	1.3	4.3
		CMH FT1					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

JAN-C-17A  
Suitable for Outdoor and Aerial applications.

**Polyethylene Insulation • Black Non-contaminating PVC Jacket**

UL AWM	<b>9251</b>	NEC:	500	152.4	58.0	26.3	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
Style 1354		CMX	1000	304.8	115.0	52.3	(7x21)			97% Shield							10	.6	1.8
(30V 60°C)		CEC:					.085"			Coverage							50	1.3	4.3
		CMX					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

MIL-C-17D

**RG-8/U Type • 11 AWG** Stranded (7x19) .108" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

**Foam Polyethylene Insulation • Black PVC Jacket**

UL AWM	<b>8214</b>	NEC:	100	30.5	14.2	6.5	11 AWG	.285	7.24	BC Braid	.403	10.24	50	78%	26	85.3	1	.1	.5
Style 1354		CM	500	152.4	61.0	27.7	(7x19)			97% Shield							10	.5	1.7
(30V 80°C)		CEC:	1000	304.8	121.0	55.0	.108"			Coverage							50	1.2	3.9
		CM					BC			1.1Ω/M'							100	1.7	5.6
							1.2Ω/M'			3.6Ω/km							200	2.6	8.5
						3.9Ω/km										400	3.9	12.8	
																700	5.6	18.4	
																900	6.5	21.3	
																1000	7.0	23.0	
																4000	21.5	70.5	

Suitable for Outdoor and Aerial applications.

BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • HDPE = High-density Polyethylene • TC = Tinned Copper