



Description:

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (96% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	19x32	TC - Tinned Copper	.037

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	.114

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	93

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.194 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	25 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 1354 (30 V 80°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
PMSHA Specification:	SC-182/5
RG Type:	58A/U

Flame Test

UL Flame Test:	UL1685 UL Loading
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black jacket only
Suitability - Aerial:	Yes - Black jacket only - 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)
54

Nom. Inductance:

Inductance (µH/ft)
0.065

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26.5

Nominal Velocity of Propagation:

VP (%)
73

Nominal Delay:

Delay (ns/ft)
1.39

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.8

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.4
10	1.3
50	3.1
100	4.5
200	6.6
400	10.0
700	14.2
900	16.6
1000	18.1

Max. Operating Voltage - UL:

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

Other Electrical Characteristic 1: Actual Impedance specification is 53.5 +/- 3 ohms.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8219 009U500	500 FT	13.500 LB	WHITE		RG58A/U TYPE COAX
8219 0091000	1,000 FT	26.000 LB	WHITE	C	RG58A/U TYPE COAX
8219 010U1000	1,000 FT	27.000 LB	BLACK		RG58A/U TYPE COAX
8219 010U500	500 FT	14.000 LB	BLACK		RG58A/U TYPE COAX
8219 0101000	1,000 FT	26.000 LB	BLACK	C	RG58A/U TYPE COAX
8219 010500	500 FT	13.000 LB	BLACK	C	RG58A/U TYPE COAX

Notes:
C = CRATE REEL PUT-UP.

50 Ohm Transmission and Computer Cable

RG-58A/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-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Tinned Copper Braid Shield (96% Coverage)

Foam Polyethylene Insulation • Black or White PVC Jacket																			
UL AWM	8219	NEC:	U-500	U-152.4	13.5	6.1	20 AWG	.114	2.90	TC Braid	.194	4.93	53.5	73%	26.5	86.9	1	.4	1.2
Style 1354		CM	500 [▲]	152.4	13.0	6.0	(19x32)			96% Shield							10	1.3	4.3
(30V 80°C)		CEC:	U-1000 [▲]	U-304.8	27.0	12.3	.037"			Coverage							50	3.1	10.2
		CM	1000	304.8	26.0	11.8	TC			4.1Ω/M'							100	4.5	14.8
							8.8Ω/M'			13.4Ω/km							200	6.6	21.7
						28.9Ω/km										400	10.0	32.8	
																700	14.2	46.6	
																900	16.6	54.5	
																1000	18.1	59.4	

P-MSHA • SC-182/5**

*500 ft. and U-1000 ft. put-ups available in Black only. Black jacket suitable for Aerial (when supported by a messenger) and Outdoor applications.

RG-58A/U Type • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Duobond® II* + Tinned Copper Braid Shield (55% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket																			
UL AWM	9311**	NEC:	500	152.4	10.5	4.8	20 AWG	.114	2.90	Duobond II*	.193	4.90	52	75%	26.0	85.3	1	.5	1.6
Style 1354		CM	U-1000	U-304.8	23.0	10.5	(19x32)			+ 55% TC							10	1.5	4.9
(30V 80°C)		CEC:	1000	304.8	21.0	9.5	.037"			Braid							50	2.9	9.5
		CM					TC			17.0Ω/M'							100	4.0	13.1
							8.8Ω/M'			55.8Ω/km							200	5.7	18.7
						28.9Ω/km										400	8.5	27.9	
																700	12.2	40.0	
																900	14.5	47.6	
																1000	15.8	51.8	

RG-58A/U Type • 20 AWG Stranded (19x33) .035" Tinned Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black PVC Jacket																			
75°C	8259	—	100	30.5	3.5	1.6	20 AWG	.116	2.95	TC Braid	.192	4.88	50	66%	30.8	101.0	1	.4	1.4
			U-500	U-152.4	13.5	6.1	(19x33)			95% Shield							10	1.5	4.9
			500	152.4	13.5	6.1	.035"			Coverage							50	3.7	12.1
			U-1000	U-304.8	25.0	11.3	TC			4.1Ω/M'							100	5.4	17.7
			1000	304.8	26.0	11.8	10.8Ω/M'			13.4Ω/km							200	8.1	26.6
						35.4Ω/km										400	12.4	40.7	
																700	17.7	58.1	
																900	21.1	69.2	
																1000	22.8	74.8	

Suitable for Aerial (when supported by a messenger) and Outdoor applications.

RG-58A/U Type • 20 AWG Solid Bare Copper Conductor • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black PVC Jacket																			
UL AWM	8240	NEC:	100	30.5	3.6	1.6	20 AWG	.116	2.95	TC Braid	.193	4.90	51.5	66%	28.5	93.5	1	.3	1.1
Style 1354		CMX	U-500	U-152.4	14.0	6.4	(solid)			95% Shield							10	1.1	3.6
(30V 80°C)		CEC:	500	152.4	13.0	5.9	.033"			Coverage							50	2.5	8.2
VW-1		CMX	U-1000	U-304.8	27.0	12.3	BC			4.1Ω/M'							100	3.8	12.5
			1000	304.8	26.0	11.8	10.0Ω/M'			13.4Ω/km							200	5.6	18.4
						32.8Ω/km										400	8.4	27.6	
																700	11.7	38.4	
																900	13.7	44.9	
																1000	14.5	47.6	

Suitable for Aerial (when supported by a messenger) and Outdoor applications.

Plenum • FEP Teflon® Insulation • Black FEP Teflon Jacket																			
200°C	88240	NEC:	500 [†]	152.4	12.0	5.4	20 AWG	.107	2.72	TC Braid	.159	4.04	53.5	69.5%	26.4	86.6	1	.5	1.6
		CMP	1000 [†]	304.8	24.0	10.9	(solid)			95% Shield							10	1.2	3.9
		CEC:					.032"			Coverage							50	3.0	9.8
		CMP FT6					BC			6.7Ω/M'							100	4.3	14.2
							10.2Ω/M'			22.0Ω/km							200	6.4	21.0
						33.5Ω/km										400	9.7	31.7	
																700	13.7	45.0	
																900	16.1	52.8	
																1000	17.3	56.6	

Plenum • FEP Teflon Insulation • Natural Flamarrest® Jacket																			
75°C	82240	NEC:	U-500 [†]	U-152.4	13.5	6.1	20 AWG	.107	2.72	TC Braid	.159	4.04	53.5	69.5%	26.4	86.6	1	.5	1.6
		CMP	U-1000 [†]	U-304.8	26.0	11.8	(solid)			95% Shield							10	1.2	3.9
		CEC:	1000 [†]	304.8	24.0	10.9	.032"			Coverage							50	3.0	9.8
		CMP FT6					BC			6.7Ω/M'							100	4.3	14.2
							10.2Ω/M'			22.0Ω/km							200	6.4	21.0
						33.5Ω/km										400	9.7	31.7	
																700	13.7	45.0	
																900	16.1	52.8	
																1000	17.3	56.6	

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

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

**Pennsylvania Department of Environmental Resource and United States Mine Safety and Health Administration certification.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Teflon is a DuPont trademark.