



Description:

RG-58A/U type, 20 AWG stranded (7x28) .037" tinned copper conductor, polyethylene insulation, double tinned copper braid shield (96% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	7x28	TC - Tinned Copper	.037

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.114

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

Inner Jacket

Inner Jacket Material:

Inner Jacket Material
PE - Polyethylene

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85

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 +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 37.200 lbs/1000 ft.

Max. Recommended Pulling Tension: 83 lbs.

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

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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:	58A/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)

.077

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

30.8

Nominal Velocity of Propagation:

VP (%)

66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.5

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.7

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.3

Nom. Attenuation:

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

1	.5
10	1.5
50	3.3
100	4.9
200	7.2
400	12.0
500	14.0
700	18.0
900	22.0
1000	24.0

Max. Operating Voltage - Non-UL:

Voltage

1400 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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9222 004U500	500 FT	20.500 LB	YELLOW		50 OHM TRIAX
9222 004100	100 FT	4.600 LB	YELLOW		50 OHM TRIAX
9222 004500	500 FT	19.500 LB	YELLOW	C	50 OHM TRIAX

Notes:

C = CRATE REEL PUT-UP.

Computer and Instrumentation Cable

50 Ohm Triax

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 (7x28) .037" Tinned Copper Conductor • Double Tinned Copper Braid Shield (96% Coverage)

Polyethylene Insulation • Yellow PVC Jacket (Polyethylene Insulation between Braids)																			
75°C	9222	—	100	30.5	4.6	2.1	20 AWG (7x28)	.114	2.90	(2) TC Braids	.240	6.10	50	66%	30.8	101.0	1	.5	1.6
			U-500	U-152.4	19.5	8.8				96% Shield							10	1.5	4.9
			500	152.4	20.5	9.3	.037"			Coverage							50	3.3	10.8
							TC			Inner:							100	4.9	16.1
							9.5Ω/M'			4.7Ω/M'							200	7.2	23.6
							31.0Ω/km			15.5Ω/km							400	12.0	39.4
										Outer:							700	18.0	57.1
										4.3Ω/M'							900	22.0	72.2
										14.1Ω/km							1000	24.0	78.7



RG-8/U Type • 11 AWG Stranded (7x19) .108" Bare Copper Conductor • Double Bare Copper Braid Shield (96% Coverage)

Foam Polyethylene Insulation • Black Polyethylene Jacket (Polyethylene Insulation between Braids)																			
80°C	9888	—	500	152.4	72.5	33.0	11 AWG (7x19)	.285	7.24	(2) BC	.480	12.19	50	78%	26.0	85.3	1	.1	.5
			1000	304.8	140.0	63.6				96% Shield							10	.5	1.7
							.108"			Coverage							50	1.2	3.9
							BC			Inner:							100	1.8	5.9
							1.2Ω/M'			1.2Ω/M'							200	2.7	8.9
							3.9Ω/km			3.9Ω/km							400	4.2	13.8
										Outer:							700	5.8	19.0
										2.1Ω/M'							900	6.7	22.0
										4.9Ω/km							1000	7.1	23.3



BC = Bare Copper • DCR = DC Resistance • TC = Tinned Copper