

**Description:**

30 AWG stranded (7x38) .012" tinned copper conductor, foam HDPE insulation, tinned copper braid shield (89% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	30	7x38	TC - Tinned Copper	.012

Insulation**Insulation Material:**

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	.058

Outer Shield**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	89

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.097 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 1375)
Bulk Cable Weight:	5.840 lbs/1000 ft.
Max. Recommended Pulling Tension:	14 lbs.
Min. Bend Radius (Install)/Minor Axis:	1 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

AWM Specification:	UL Style 1375 (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

9221 Coax - 75 Ohm Miniature Coax

MII Order #39 (China RoHS):	Yes
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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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)
17.3

Nominal Velocity of Propagation:

VP (%)
78

Nominal Delay:

Delay (ns/ft)
1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
100

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
11.65

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.7
3.6	1.3
5	1.6
7	1.9
9	2.1
10	2.2
50	5.1
70	6.1
100	7.3
200	10.5
400	15.5
700	21.5
900	24.8
1000	26.6

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1375)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9221 010U500	500 FT	4.000 LB	BLACK		75 OHM MINIATURE COAX
9221 010100	100 FT	1.400 LB	BLACK		75 OHM MINIATURE COAX



9221 Coax - 75 Ohm Miniature Coax

9221 010500	500 FT	4.000 LB	BLACK		75 OHM MINIATURE COAX
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Standard Analog Video Cable

75 Ohm Miniature Coax



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

30 AWG Stranded (7x38) .012" Tinned Copper Conductor • Tinned Copper Braid Shield (89% Coverage)

Foam HDPE Insulation • Black PVC Jacket																			
UL AWM	9221	—	100	30.5	1.5	.7	30 AWG	.058	1.47	TC Braid	.097	2.46	75	78%	17.3	56.8	1	.7	2.3
Style 1375			U-500	U-152.4	4.0	1.8	(7x38)			89% Shield							3.6	1.3	4.3
(30V 60°C)			500	152.4	4.0	1.8	.012"			Coverage							4	1.3	4.3
							TC			11.7Ω/M'							5	1.6	5.2
							100.0Ω/M'			38.4Ω/km							7	1.9	6.2
							328.0Ω/km										9	2.1	6.9
																	10	2.2	7.2
																	50	5.1	16.7
																	70	6.1	20.0
																	100	7.3	23.9
																	200	10.5	34.4
																	400	15.5	50.9
																	700	21.5	70.5
																	900	24.8	81.4
																	1000	26.6	87.3

27 AWG Stranded (7x35) .017" Bare Copper-covered Steel Conductor • Tinned Copper Braid Shield (93% Coverage)

Polyethylene Insulation • Black PVC Jacket																			
UL AWM	8218	—	U-500	U-152.4	8.5	3.8	27 AWG	.100	2.54	TC Braid	.150	3.81	75	66%	20.5	67.3	1	1.2	3.9
Style 1354			500	152.4	8.0	3.6	(7x35)			93% Shield							10	2.4	7.9
(30V 60°C)			U-1000	U-304.8	16.0	7.3	.017"			Coverage							50	4.2	13.8
			1000	304.8	14.0	6.4	BCCS			5.7Ω/M'							100	5.7	18.7
							120.0Ω/M'			18.7Ω/km							200	8.3	27.2
							393.7Ω/km										400	12.1	39.7
																	700	16.5	54.1
																	900	19.0	62.3
																	1000	20.0	65.6

Miniature • 25 AWG Solid .018" Tinned Copper Conductors • Duobond® (100% Coverage) + TC Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Black PVC Jacket																				
	1281R	NEC:	1	1000	304.8	8.0	3.6	25 AWG	.074	1.88	Duobond	.114	2.90	75	80%	17.0	55.8	1	.5	1.7
	new	CMR						(solid)			(100%)							5	1.2	3.8
		CEC:						.018"			+ 95%							50	3.7	12.1
		CMG						TC			TC Braid							100	4.9	16.1
								34.0Ω/M'			5.4Ω/M'			Sweep Tested 5 MHZ to 850 MHZ.				200	6.7	22.0
								111.6Ω/km			17.7Ω/km			Guaranteed Return Loss –20dB Max.				400	9.5	31.2
													See page 6.48 for Bundled versions.				700	13.4	44.0	
																	900	15.0	49.2	
																	1000	15.8	51.8	
																	3000	31.2	102.4	

Plenum • FPFA Insulation • Black Flamarrest® Jacket																				
	1282P	NEC:	1	1000	304.8	10.0	4.5	25 AWG	.074	1.88	Duobond	.114	2.90	75	81%	17.0	55.8	1	.4	1.3
	new	CMP						(solid)			(100%)							5	.9	3.0
		CEC:						.018"			+ 95%							50	3.7	12.1
		CMP FT6						TC			TC Braid							100	5.0	16.4
								31.8Ω/M'			5.8Ω/M'			Sweep Tested 5 MHZ to 850 MHZ.				200	7.0	23.0
								104.3Ω/km			19.0Ω/km			Guaranteed Return Loss –20dB Max.				400	10.0	32.8
														See page 6.48 for Bundled versions.				700	14.5	47.6
																		900	17.0	55.8
																		1000	17.5	57.4
																	3000	37.0	121.4	

BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FPFA = Foam Perfluoroalkoxy • HDPE = High-density Polyethylene • TC = Tinned Copper