



Description:

18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (60% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.180

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	60

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.270 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 44 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 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
MIL Order #39 (China RoHS):	Yes
RG Type:	6/U

Flame Test

UL Flame Test:	UL1685 UL Loading
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum Number:	89248 and 82248
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.2

Nominal Velocity of Propagation:

VP (%)

82

Nominal Delay:

Delay (ns/ft)

1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.6

Nom. Attenuation:

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

1	.30
5	.54
10	.70
50	1.5
100	2.0
200	2.8
400	4.0
700	5.3
900	6.1
1000	6.5
1500	8.3

Max. Operating Voltage - UL:

Voltage

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

Minimum Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	450	23

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9248 010U1000	1,000 FT	32.000 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 010U500	500 FT	16.500 LB	BLACK		#18 PE/GIFHDPE SH FRPVC
9248 0101000	1,000 FT	33.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 0101640	1,640 FT	55.760 LB	BLACK	C	#18 PE/GIFHDPE SH CORE
9248 0103280	3,280 FT	108.240 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC
9248 010500	500 FT	15.000 LB	BLACK	C	#18 PE/GIFHDPE SH FRPVC

Notes:

C = CRATE REEL PUT-UP.


Standard Analog Video Cable

RG-6/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

21 AWG Solid .028" Bare Copper-covered Steel Conductor • Double Bare Copper Braid Shields (98% Coverage)


Polyethylene Insulation • Black Polyethylene Jacket																			
MATV Cable 80°C	8215	—	1000	304.8	74.0	33.6	21 AWG (solid) .028"	.185	4.70	(2) BC Braids 98% Shield Coverage	.332	8.43	75	66%	20.5	67.2	1	.4	1.3
							32.0Ω/M'			1.1Ω/M'	100% Sweep tested. 5 MHz to 450 MHz.						10	.8	2.6
							105.0Ω/km			3.6Ω/km							50	1.9	6.2
																	100	2.7	8.9
																	200	4.1	13.4
																	400	5.9	19.4
																	700	8.1	26.6
																	900	9.4	30.8
																	1000	9.8	32.1

18 AWG Solid .037" Bare Copper Conductor • Double Bare Copper Braid Shields (98% Coverage)


Foam Polyethylene Insulation • Black PVC Jacket																			
80°C	9290	NEC: CM	1000	304.8	59.0	26.8	18 AWG (solid) .037"	.180	4.57	(2) BC Braids 98% Shield Coverage	.288	7.32	75	81%	17.3	56.7	1	.2	.7
		CEC: CM	2000	609.6	118.0	53.6	.037"			7.5Ω/M'	100% Sweep tested. 5 MHz to 450 MHz.						10	.7	2.3
							24.6Ω/km			2.0Ω/M'							50	1.7	5.6
										7.5Ω/km							100	2.5	8.2
																	200	3.6	11.8
																	400	5.3	17.4
																	700	7.2	23.6
																	900	8.3	27.2
																	1000	8.8	28.9

Suitable for Indoor and Outdoor applications.


18 AWG Solid .040" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)

Plenum • Foam FEP Insulation • Black FEP Jacket																			
200°C	89248	NEC: CMP	500†	152.4	15.0	6.8	18 AWG (solid) .040"	.170	4.32	Duofoil + 65% TC Braid	.222	5.64	75	82%	16.5	50.3	1	.3	1.0
		CEC: CMP FT6	1000†	304.8	33.0	15.0	.040"			5.1Ω/M'	100% Sweep tested. 5 MHz to 450 MHz.						10	.66	2.2
			2000†	609.6	64.0	29.0	BC			16.7Ω/km							50	1.5	4.9
							6.4Ω/M'										100	2.1	6.9
							21.0Ω/km										200	3.1	10.2
																	400	4.5	14.8
																	700	6.0	19.7
																	900	6.9	22.6
																	1000	7.3	23.9

Suitable for Outdoor and Direct Burial applications.

Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket																			
75°C	82248	NEC: CMP	U-1000†	U-304.8	29.0	13.2	18 AWG (solid) .040"	.170	4.32	Duofoil + 65% TC Braid	.222	5.64	75	82%	16.5	50.3	1	.3	1.0
		CEC: CMP FT6	1000†	304.8	31.0	14.1	.040"			5.1Ω/M'	100% Sweep tested. 5 MHz to 450 MHz.						10	.7	2.3
							BC			16.7Ω/km							50	1.6	5.2
							6.4Ω/M'										100	2.2	7.2
							21.0Ω/km										200	3.0	9.8
																	400	4.6	15.1
																	700	6.6	21.6
																	900	7.7	25.3
																	1000	8.2	26.9

18 AWG Solid .040" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (60% Coverage)

Gas-injected Foam HDPE Insulation • Black PVC Jacket																			
UL AWM Style 1354 (30V 80°C)	9248	NEC: CM	U-500	U-152.4	16.5	7.5	18 AWG (solid) .040"	.180	4.57	Duofoil + 60% TC Braid	.270	6.86	75	82%	16.2	53.1	1	.3	1.0
		CEC: CM	U-1000	U-304.8	32.0	14.5	.040"			5.6Ω/M'	For Plenum versions of 9248, see 89248 or 82248.						10	.7	2.3
			1000	304.8	33.0	15.0	BC			18.4Ω/km							50	1.5	4.9
			1640	500.0	55.8	25.3	6.4Ω/M'										100	2.0	6.6
			3280	1000.0	108.2	49.2	21.0Ω/km										200	2.8	9.2
																	400	4.0	13.1
																	700	5.3	17.4
																	900	6.1	20.0
																	1000	6.5	21.3
																	1500	8.3	27.2

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper • UTP = Unshielded Twisted Pair

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