



Description:

23 awg solid .023" bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% coverage), non-contaminating PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BCCS - Bare Copper Covered Steel	.023

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.146

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

Overall Cabling

Overall Nominal Diameter: 0.241 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +85°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 34 lbs/1000 ft.

Max. Recommended Pulling Tension: 78 lbs.

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

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMH

CEC/C(UL) Specification: CMH

EU CE Mark: No

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-17G, M17/29
RG Type:	59/U

Flame Test

UL Flame Test:	VW-1
C(UL) Flame Test:	FT1

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

.115

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

20.5

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

47

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.6

Nom. Attenuation:

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

1	.6
10	1.1
50	2.4
100	3.4
200	4.9
400	7.0
700	9.7
900	11.1
1000	12.0

Max. Power Rating:

Freq. (MHz)

1

10

50

100

200

400

700

900

1000

Max. Operating Voltage - Non-UL:

Voltage

1700 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9204 0101000	1,000 FT	39.000 LB	BLACK	C	M17/29 RG59 COAX
9204 010500	500 FT	18.000 LB	BLACK	C	M17/29 RG59 COAX

Notes:

C = CRATE REEL PUT-UP.

MIL-C-17G QPL Cable

75 Ohm 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" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (94% Coverage)

TFE Teflon® Insulation • Tinted Brown FEP Jacket

200°C	83264	—	100†	30.5	1.2	.5	30 AWG	.062	1.58	SPC Braid	.100	2.54	75	69.5%	19.5	64.0	1	3.0	9.8		
VW-1			500†	152.4	5.5	2.5	(7x38)			94% Shield								10	5.3	17.4	
			1000†	304.8	11.0	5.0	.012"			Coverage									50	8.5	27.9
								SPCCS			8.5Ω/M'								100	10.0	32.8
									244.0Ω/M'									200	12.5	41.0	
									801.0Ω/km									400	16.0	52.5	
																		700	19.7	64.6	
																		900	22.3	73.2	
																		1000	24.0	78.7	

M17/94-RG179

23 AWG Solid .023" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket

60°C	9204	NEC:	500	152.4	18.0	8.2	23 AWG	.146	3.71	BC Braid	.241	6.12	75	66%	20.5	67.3	1	.6	2.0		
VW-1		CMH	U-1000	U-304.8	38.0	17.3	(solid)			95% Shield								10	1.1	3.6	
		CEC:	1000	304.8	39.0	17.7	.023"			Coverage									50	2.4	7.9
		CMH FT1					BCCS			2.6Ω/M'									100	3.4	11.2
									47.0Ω/M'										200	4.9	16.1
									154.2Ω/km										400	7.0	23.0
																			700	9.7	31.8
																			900	11.1	36.4
																			1000	12.0	39.4

M17/29-RG59

18 AWG Stranded (7x26) .048" Tinned Copper Conductor • Bare Copper Braid Shield (97% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket

60°C	9212	NEC:	1000	304.8	105.0	47.7	18 AWG	.285	7.24	BC Braid	.405	10.29	75	66%	20.5	67.3	1	.2	.7		
VW-1		CMH					(7x26)			97% Shield								10	.7	2.3	
		CEC:					.048"			Coverage									50	1.3	4.3
		CMH FT1					TC			1.2Ω/M'									100	2.0	6.6
									6.1Ω/M'										200	2.9	9.5
									20.0Ω/km										400	4.2	13.8
																			700	5.8	19.0
																			900	6.9	22.6
																			1000	7.2	23.6

M17/6-RG11

18 AWG Stranded (7x26) .048" Tinned Copper Conductor • Double Bare Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Non-contaminating PVC Jacket

60°C	9850	NEC:	1000	304.8	131.0	59.5	18 AWG	.285	7.24	(2) BC	.425	10.80	75	66%	20.5	67.3	1	.2	.6		
VW-1		CMH					(7x26)			Braids								10	.7	2.2	
		CEC:					.048"			95% Shield									50	1.3	4.3
		CMH FT1					TC			Coverage									100	2.0	6.6
									6.1Ω/M'										200	2.9	9.5
									20.0Ω/km										400	4.2	13.8
																			700	5.8	19.0
																			900	6.8	22.3
																			1000	7.1	23.3

M17/77-RG216

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • SPCCS = Silver-plated Copper-covered Steel • TC = Tinned Copper • TFE = Tetra Fluoroethylene

†May contain more than one piece, minimum length of any 1 piece is 25 feet.

Teflon is a DuPont trademark.