



Description:

30 awg stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (94% coverage), FEP jacket

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	30	7x38	SPCCS - Silver Plated Copper Covered Steel	.012

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	94.2

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

Overall Cabling

Overall Nominal Diameter: 0.100 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 10 lbs/1000 ft.

Max. Recommended Pulling Tension: 19 lbs.

Min. Bend Radius (Install)/Minor Axis: 1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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): 04/01/2005

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: M17/94-RG179

RG Type: 179/U

Flame Test

UL Flame Test: VW-1

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
.10

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
19.5

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/ft)
1.4

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
244.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.5

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	3.0
10	5.3
50	8.5
100	10.0
200	12.5
400	16.0
700	19.7
900	22.3
1000	24.0

Max. Power Rating:

Freq. (MHz)
1
10
50
100
200
400
700
900
1000

Max. Operating Voltage - Non-UL:

Voltage

900 V RMS (MIL-SPEC)

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83264 001100	100 FT	1.100 LB	BROWN	E	30 COAX M17/94-RG179
83264 0011000	1,000 FT	11.000 LB	BROWN	C E	#30 COAX M17/94-RG179
83264 001500	500 FT	6.000 LB	BROWN	E	#30 COAX M17/94-RG179

Notes:

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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	
										27.4Ω/km								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
										8.5Ω/km									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
										3.9Ω/km									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
										2.6Ω/km									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.