



## Description:

95 ohm 30 AWG Stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (91% 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 Material	Dia. (in.)
TFE - Tetrafluoroethylene	.102

### Outer Shield

**Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	91

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cabling

**Overall Nominal Diameter:** 0.141 in.

## Mechanical Characteristics (Overall)

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

**Non-UL Temperature Rating:** 200°C

**Bulk Cable Weight:** 18 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 25 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 1.400 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: MIL-C-17G M17/95-RG180

RG Type: 180/U

### Flame Test

UL Flame Test: VW-1

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

95

### Nom. Inductance:

Inductance (µH/ft)

.135

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

15.0

### Nominal Velocity of Propagation:

VP (%)

69.5

### Nominal Delay:

Delay (ns/ft)

1.48

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

244.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.5

### Nom. Attenuation:

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

1	2.4
10	3.3
50	4.6
100	5.7
200	7.6
400	10.7
700	14.9
900	15.9
1000	17.0

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83266 0011000	1,000 FT	19.000 LB	BROWN	C E	#30 COAX M17/95-RG180

### 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

93 Ohm, 95 Ohm and 125 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

**93 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)

Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
UL AWM Style 1354 (30V 60°C)	<b>9862</b>	NEC: CMX CEC: CMX	1000	304.8	37.0	16.8	22 AWG (solid) .025" BCCS 41.2Ω/M' 135.2Ω/km	.146	3.71	BC Braid 95% Shield Coverage 2.9Ω/M' 9.5Ω/km	.242	6.15	93	84%	13.5	44.3	1	.3	1.0
																	10	.9	3.0
																	50	1.9	6.2
																	100	2.7	8.9
																	200	3.8	12.5
																	400	5.3	17.4
																	700	7.3	24.0
																	900	8.2	26.9
																	1000	8.7	28.5

M17/30-RG62

**93 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel Conductor • BC Outer Braid/TC Inner Braid Shield (95% Coverage)

Semi-solid Polyethylene Insulation • Black Polyethylene Jacket																			
85°C	<b>9169</b>	—	1000	304.8	46.0	20.9	22 AWG (solid) .025" BCCS 41.2Ω/M' 135.2Ω/km	.146	3.71	(2) Braids Inner: BC Outer: TC 95% Shield Coverage 1.5Ω/M' 4.9Ω/km	.245	6.22	93	84%	13.5	44.3	1	.3	1.0
																	10	.9	3.0
																	50	1.9	6.2
																	100	2.7	8.9
																	200	3.8	12.5
																	400	5.3	17.4
																	700	7.3	24.0
																	900	8.2	26.9
																	1000	8.7	28.5

M17/90-RG71

**95 Ohm • 30 AWG** Stranded (7x38) .012" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (91% Coverage)

TFE Teflon® Insulation • Tinted Brown FEP Jacket																			
200°C VW-1	<b>83266</b>	—	1000†	304.8	20.0	9.1	30 AWG (7x38) .012" SPCCS 244.0Ω/M' 801.0Ω/km	.102	2.60	SPC Braid 91% Shield Coverage 6.5Ω/M' 21.3Ω/km	.141	3.58	95	69.5%	15.0	49.2	1	2.4	7.9
																	10	3.3	10.8
																	50	4.6	15.1
																	100	5.7	18.7
																	200	7.6	24.9
																	400	10.7	35.1
																	700	14.9	48.9
																	900	15.9	52.2
																	1000	17.0	55.8

M17/95-RG180

**125 Ohm • 22 AWG** Solid .025" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)

Semi-solid Polyethylene Insulation • Black Non-contaminating PVC Jacket																			
60°C	<b>9857</b>	NEC: CMH CEC: CMH FT1	1000	304.8	94.0	42.6	22 AWG (solid) .025" BCCS 41.2Ω/M' 135.2Ω/km	.285	7.24	BC Braid 97% Shield Coverage 1.2Ω/M' 3.9Ω/km	.405	10.29	125	84%	9.7	31.8	1	.2	1.0
																	10	.5	1.6
																	50	1.1	3.6
																	100	1.5	4.9
																	200	2.3	7.5
																	400	3.4	11.2
																	700	4.6	15.1
																	900	5.5	18.0
																	1000	5.8	19.0

M17/31-RG63

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

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

Teflon is a DuPont trademark.