

# Semi-Rigid Cable

Low-loss cables shown in **bold**

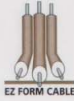


For RoHS Compliant Cables, please contact factory.

Center Conductor Material	Weight (Max) lbs/100 ft (kg/100m)	Center Conductor Adhesion lbs (N)		Capacitance (Maximum) pf/ft (pf/m)	Continuous Working Voltage (VRMS Max)	Voltage Withstand (VRMS)	Maximum Operating Frequency (GHz)
		Min	Max				
SPCW	.23 (.34)	2 (8.9)	10 (44.5)	32.0 (105)	1000	2000	104
SPCW	.24 (.36)	2 (8.9)	10 (44.5)	32.0 (105)	1000	2000	104
<b>SPC</b>	<b>.17 (.25)</b>	<b>2 (8.9)</b>	<b>10 (44.5)</b>	<b>24.0 (78.7)</b>	<b>1000</b>	<b>2000</b>	<b>110</b>
<b>SPC</b>	<b>.18 (.26)</b>	<b>2 (8.9)</b>	<b>10 (44.5)</b>	<b>24.0 (78.7)</b>	<b>1000</b>	<b>2000</b>	<b>110</b>
SPCW	.75 (1.12)	4 (17.8)	25 (111)	32.0 (105)	1500	5000	20
SPCW	.80 (1.19)	4 (17.8)	25 (111)	32.0 (105)	1500	5000	20
SPCW	.80 (1.19)	4 (17.8)	25 (111)	32.0 (105)	1500	5000	57
<b>SPC</b>	<b>.63 (.94)</b>	<b>2 (8.9)</b>	<b>25 (111)</b>	<b>27.2 (89.2)</b>	<b>1500</b>	<b>5000</b>	<b>61</b>
<b>SPC</b>	<b>.68 (1.01)</b>	<b>2 (8.9)</b>	<b>25 (111)</b>	<b>27.2 (89.2)</b>	<b>1500</b>	<b>5000</b>	<b>61</b>
SPCW	.75 (1.12)	2 (8.9)	25 (111)	19.4 (63.7)	1200	2500	65
SPCW	.80 (1.19)	2 (8.9)	25 (111)	19.4 (63.7)	1200	2500	65
SPCW	1.98 (2.95)	4 (17.8)	65 (289)	29.9 (98.1)	1900	5000	20
SPCW	2.05 (3.05)	4 (17.8)	65 (289)	29.9 (98.1)	1900	5000	20
SPCW	2.05 (3.05)	4 (17.8)	65 (289)	29.9 (98.1)	1900	5000	32
<b>SPC</b>	<b>1.61 (2.40)</b>	<b>2 (8.9)</b>	<b>65 (289)</b>	<b>27.1 (88.7)</b>	<b>1900</b>	<b>5000</b>	<b>34</b>
<b>SPC</b>	<b>1.67 (2.49)</b>	<b>2 (8.9)</b>	<b>65 (289)</b>	<b>27.1 (88.7)</b>	<b>1900</b>	<b>5000</b>	<b>34</b>
SPCW	1.90 (2.83)	2 (8.9)	65 (289)	14.6 (47.9)	2000	5000	42
SPCW	1.97 (2.93)	2 (8.9)	65 (289)	14.6 (47.9)	2000	5000	42
SPCW	1.79 (2.66)	2 (8.9)	65 (289)	19.4 (63.7)	2000	5000	36
SPCW	1.86 (2.77)	2 (8.9)	65 (289)	19.4 (63.7)	2000	5000	36
SPCW	1.80 (2.68)	2 (8.9)	65 (289)	20.6 (67.6)	2000	5000	39
SPCW	1.87 (2.78)	2 (8.9)	65 (289)	20.6 (67.6)	2000	5000	39
<b>SPC</b>	<b>6.30 (9.37)</b>	<b>4 (17.8)</b>	<b>100 (445)</b>	<b>29.6 (97.1)</b>	<b>3000</b>	<b>7500</b>	<b>18</b>
<b>SPC</b>	<b>6.40 (9.52)</b>	<b>4 (17.8)</b>	<b>100 (445)</b>	<b>29.6 (97.1)</b>	<b>3000</b>	<b>7500</b>	<b>18</b>
<b>SPC</b>	<b>4.90 (7.29)</b>	<b>2 (8.9)</b>	<b>100 (445)</b>	<b>25.0 (82.0)</b>	<b>3000</b>	<b>7500</b>	<b>20</b>
<b>SPC</b>	<b>4.91 (7.31)</b>	<b>2 (8.9)</b>	<b>100 (445)</b>	<b>25.0 (82.0)</b>	<b>3000</b>	<b>7500</b>	<b>20</b>

.250 diameter		.141 diameter			.086 diameter			.047 diameter			
Attenuation MHz	Power dB/100 ft.	Power Watts	Attenuation MHz	Power dB/100 ft.	Power Watts	Attenuation MHz	Power dB/100 ft.	Power Watts	Attenuation MHz	Power dB/100 ft.	Power Watts
400	4.5	962	500	8	439	500	15	130	500	28	45
1000	7.5	661	1000	12	306	1000	22	97	1000	40	32
5000	22	265	5000	29	128	5000	50	40	5000	90	13
10000	33	174	10000	45	87	10000	80	26	10000	130	9
18000	48	100	20000	70	58	20000	130	15	20000	190	6.5
Structural Return Loss		Structural Return Loss			Structural Return Loss			Structural Return Loss			
MHz	dB	MHz	dB	MHz	dB	MHz	dB	MHz	dB		
500	26	500	30	500	28	1000	22	1000	22		
5000	21	5000	23	5000	23	10000	18	10000	18		
18000	16	18000	21	20000	15	20000	14	20000	14		

\* Contact factory for attenuation, power ratings and return loss values of low attenuation cables.



# MIL-C-17-QPL

See page 4 for Copper-Jacketed Commercial Versions

MIL-C-17 Part Number Designation	Nominal Impedance (Ohms)	Outer Conductor Diameter inches (mm)	Outer Conductor Material	Outer Conductor Plating	Dielectric Diameter inches (mm)	Center Conductor Diameter inches (mm)
M17/129-RG-401	50.0 +/- 0.5	.250 (6.35)	CU	n/a	.209 (5.31)	.0641 (1.63)
M17/129-00001	50.0 +/- 0.5	.250 (6.35)*	CU	TP	.209 (5.31)	.0641 (1.63)
<b>M17/130-RG402</b>	<b>50.0 +/- 1.0</b>	<b>.141 (3.58)</b>	<b>CU</b>	<b>n/a</b>	<b>.1175 (2.98)</b>	<b>.0362 (.92)</b>
<b>M17/130-00001</b>	<b>50.0 +/- 1.0</b>	<b>.141 (3.58)*</b>	<b>CU</b>	<b>TP</b>	<b>.1175 (2.98)</b>	<b>.0362 (.92)</b>
M17/130-00004	50.0 +/- 1.0	.141 (3.58)	CU	n/a	.1175 (2.98)	.0362 (.92)
M17/130-00005	50.0 +/- 1.0	.141 (3.58)*	CU	TP	.1175 (2.98)	.0362 (.92)
M17/130-00008	50.0 +/- 1.0	.141 (3.58)	AL	n/a	.1175 (2.98)	.0362 (.92)
<b>M17/130-00009</b>	<b>50.0 +/- 1.0</b>	<b>.141 (3.58)*</b>	<b>AL</b>	<b>TP</b>	<b>.1175 (2.98)</b>	<b>.0362 (.92)</b>
<b>M17/130-00012</b>	<b>50.0 +/- 1.0</b>	<b>.141 (3.58)*</b>	<b>CU</b>	<b>SP</b>	<b>.1175 (2.98)</b>	<b>.0362 (.92)</b>
M17/130-00014	50.0 +/- 1.0	.141 (3.58)*	CU	TL	.1175 (2.98)	.0362 (.92)
M17/130-00015	50.0 +/- 1.0	.141 (3.58)*	CU	TL	.1175 (2.98)	.0362 (.92)
M17/133-RG405	50.0 +/- 1.5	.0865 (2.20)	CU	n/a	.066 (1.68)	.0201 (.51)
M17/133-00001	50.0 +/- 1.5	.0865 (2.20)*	CU	TP	.066 (1.68)	.0201 (.51)
M17/133-00002	50.0 +/- 1.5	.0865 (2.20)	CU	n/a	.066 (1.68)	.0201 (.51)
<b>M17/133-00003</b>	<b>50.0 +/- 1.5</b>	<b>.0865 (2.20)*</b>	<b>CU</b>	<b>TP</b>	<b>.066 (1.68)</b>	<b>.0201 (.51)</b>
<b>M17/133-00006</b>	<b>50.0 +/- 1.5</b>	<b>.0865 (2.20)</b>	<b>CU</b>	<b>n/a</b>	<b>.066 (1.68)</b>	<b>.0201 (.51)</b>
M17/133-00007	50.0 +/- 1.5	.0865 (2.20)*	CU	TP	.066 (1.68)	.0201 (.51)
M17/133-00008	50.0 +/- 1.5	.0865 (2.20)	CU	n/a	.066 (1.68)	.0201 (.51)
M17/133-00009	50.0 +/- 1.5	.0865 (2.20)*	CU	TP	.066 (1.68)	.0201 (.51)
M17/133-00012	50.0 +/- 1.5	.0865 (2.20)	AL	n/a	.066 (1.68)	.0201 (.51)
M17/133-00013	50.0 +/- 1.5	.0865 (2.20)*	AL	TP	.066 (1.68)	.0201 (.51)
M17/133-00016	50.0 +/- 1.5	.0865 (2.20)*	CU	SP	.066 (1.68)	.0201 (.51)
M17/133-00018	50.0 +/- 1.0	.0865 (2.20)*	CU	TL	.066 (1.68)	.0201 (.51)
M17/151-00001	50.0 +/- 2.5	.047 (1.19)	CU	n/a	.037 (.94)	.0113 (.29)
<b>M17/151-00002</b>	<b>50.0 +/- 2.5</b>	<b>.047 (1.19)*</b>	<b>CU</b>	<b>TP</b>	<b>.037 (.94)</b>	<b>.0113 (.29)</b>
M17/154-00001	50.0 +/- 3.0	.034 (.86)	CU	n/a	.026 (.66)	.008 (.20)
<b>M17/154-00002</b>	<b>50.0 +/- 3.0</b>	<b>.034 (.86)*</b>	<b>CU</b>	<b>TP</b>	<b>.026 (.66)</b>	<b>.008 (.20)</b>

### Key to Materials

CU: Copper  
 AL: Aluminum  
 TP: Tin Plated  
 SP: Silver Plated  
 TL: Tin-Lead Plated  
 SPC Silver-Plated Copper  
 SPCW: Silver Plated Copper-clad Steel

Copper per ASTM B88 or B447  
 Aluminum per ASTM B483  
 Tin-Plating: ASTM B545  
 Silver-Plating: ASTM B700  
 Tin-Lead Plating (90/10): SAE-AMS-P-81728  
 Dielectric: Teflon TFE per ASTM-D-1457

### Electrical Specifications

Velocity of Propagation: 69.5% for standard cables;  
 76.5% for LA; 84.5% for WP

### Temperature Range:

.034": "-55 +100C    .047": "-55 to +100C  
 .086": "-55 +125C    .086" LA: "-55 to +250C  
 .141": "-55 +125C    .141" LA: "-55 to +250C  
 .250": "-55 +125C    .250" WP: "-55 to +200C