

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
SPC	.17 (.25)	2 (8.9)	10 (44.5)	24.0 (78.7)	1000	2000	110
SPC	.18 (.26)	2 (8.9)	10 (44.5)	24.0 (78.7)	1000	2000	110
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
SPC	.63 (.94)	2 (8.9)	25 (111)	27.2 (89.2)	1500	5000	61
SPC	.68 (1.01)	2 (8.9)	25 (111)	27.2 (89.2)	1500	5000	61
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
SPC	1.61 (2.40)	2 (8.9)	65 (289)	27.1 (88.7)	1900	5000	34
SPC	1.67 (2.49)	2 (8.9)	65 (289)	27.1 (88.7)	1900	5000	34
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
SPC	6.30 (9.37)	4 (17.8)	100 (445)	29.6 (97.1)	3000	7500	18
SPC	6.40 (9.52)	4 (17.8)	100 (445)	29.6 (97.1)	3000	7500	18
SPC	4.90 (7.29)	2 (8.9)	100 (445)	25.0 (82.0)	3000	7500	20
SPC	4.91 (7.31)	2 (8.9)	100 (445)	25.0 (82.0)	3000	7500	20

.250 diameter			.141 diameter			.086 diameter			.047 diameter		
Attenuation MHz	dB/100 ft.	Power Watts	Attenuation MHz	dB/100 ft.	Power Watts	Attenuation MHz	dB/100 ft.	Power Watts	Attenuation MHz	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	
500	26		500	30		500	28		1000	22	
5000	21		5000	23		5000	23		10000	18	
18000	16		18000	21		20000	15		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)
M17/130-RG402	50.0 +/- 1.0	.141 (3.58)	CU	n/a	.1175 (2.98)	.0362 (.92)
M17/130-00001	50.0 +/- 1.0	.141 (3.58)*	CU	TP	.1175 (2.98)	.0362 (.92)
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)
M17/130-00009	50.0 +/- 1.0	.141 (3.58)*	AL	TP	.1175 (2.98)	.0362 (.92)
M17/130-00012	50.0 +/- 1.0	.141 (3.58)*	CU	SP	.1175 (2.98)	.0362 (.92)
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)
M17/133-00003	50.0 +/- 1.5	.0865 (2.20)*	CU	TP	.066 (1.68)	.0201 (.51)
M17/133-00006	50.0 +/- 1.5	.0865 (2.20)	CU	n/a	.066 (1.68)	.0201 (.51)
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)
M17/151-00002	50.0 +/- 2.5	.047 (1.19)*	CU	TP	.037 (.94)	.0113 (.29)
M17/154-00001	50.0 +/- 3.0	.034 (.86)	CU	n/a	.026 (.66)	.008 (.20)
M17/154-00002	50.0 +/- 3.0	.034 (.86)*	CU	TP	.026 (.66)	.008 (.20)

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