

Formerly MIL-C-5015 Types A and B

See page 429 for dimension table. MS receptacles mate with MS mating plugs that are on the same line in the table below. *Standard shells have cadmium plating with drab olive chromate finish. In shell sizes 12S, 14S, 16, 16S, 18, 20, 22, 24, and 28, clear chromate over cadmium plating (639), black zinc over zinc plating (621), or electroless nickel plating (689) are also available. Add the shell finish identification to the end of part number to

MS Receptacles

No. of Contacts	Shell Size and Insert	97-3100A*		97-3101A*		97-3102A*	
		EACH		EACH		EACH	
		1-9	10-49	1-9	10-49	1-9	10-49
3	10SL-3P	11.37	8.46	14.35	11.48	8.24	6.59
2	10SL-4P	10.62	7.13	12.06	10.05	7.57	6.06
1	12-5P	—	—	—	—	8.96	6.06
1	12-5S	—	—	—	—	8.51	7.02
2	12S-3P	11.60	8.26	11.45	9.37	7.48	5.39
2	12S-3S	10.68	7.61	11.56	9.46	5.33	4.26
4	12SL-844P	—	—	—	—	12.34	10.29
4	14S-1P	10.94	8.75	13.12	9.30	6.66	5.32
3	14S-1S	12.36	8.74	14.03	10.30	6.88	5.51
4	14S-2P	10.66	8.53	14.29	10.15	7.33	5.94
4	14S-2S	12.60	10.08	14.82	11.85	9.47	7.07
1	14S-4P	32.16	22.19	16.68	12.94	9.22	7.47
1	14S-4S	21.04	17.61	21.42	16.61	16.18	12.22
5	14S-5P	13.33	9.41	14.44	10.19	7.62	6.10
5	14S-5S	13.60	9.65	14.66	11.73	8.31	6.65
6	14S-6P	12.44	9.96	14.66	11.73	9.98	7.17
6	14S-6S	12.67	10.14	14.89	11.91	8.69	6.88
3	14S-7P	10.81	8.65	14.36	10.18	6.93	5.37
3	14S-7S	12.36	8.74	13.36	10.70	6.88	5.51
2	14S-9P	11.60	8.26	13.81	9.77	6.74	4.81
2	14S-9S	13.74	9.73	13.17	10.77	8.44	6.75
3	16-7P	19.08	12.97	21.49	16.69	12.88	9.91
3	16-7S	22.00	14.89	25.15	19.51	16.43	12.75
4	16-9P	18.22	12.71	14.65	12.21	11.64	8.27
4	16-9S	20.07	14.04	20.79	15.68	13.27	9.86
3	16-10P	16.39	13.41	16.86	13.80	11.50	9.20
3	16-10S	15.25	12.47	15.71	12.85	10.20	8.16
2	16-11P	13.53	11.07	17.96	13.17	10.23	7.33
2	16-11S	18.29	12.87	15.80	12.93	10.33	8.26
1	16-12P	18.72	12.33	21.35	16.55	12.76	9.80
1	16-12S	21.38	15.00	24.52	19.04	15.82	12.26
7	16S-1P	12.76	10.44	16.03	11.30	8.29	6.63
7	16S-1S	13.94	11.41	15.14	12.39	10.80	7.68
2	16S-4P	14.72	10.40	15.92	11.25	6.96	5.69
2	16S-4S	15.22	10.76	16.67	11.73	7.52	6.16
3	16S-5P	11.24	9.37	12.32	10.27	9.44	6.68
3	16S-5S	15.20	10.74	15.67	11.08	9.68	6.97
3	16S-6P	18.01	13.34	21.89	16.99	12.99	9.99
3	16S-6S	25.85	18.34	16.85	14.04	12.99	9.99
5	16S-8P	15.29	10.83	13.87	11.35	8.74	6.35
5	16S-8S	15.70	11.25	17.18	12.24	10.23	7.33
10	18-1P	16.91	13.53	18.97	15.18	11.40	9.12
10	18-1S	18.05	14.44	21.79	15.18	12.55	10.04
2	18-3P	18.48	13.09	18.67	13.09	10.79	7.71
2	18-3S	19.79	13.86	22.22	15.49	11.82	9.67
4	18-4P	12.38	10.13	15.50	12.40	8.50	6.17
4	18-4S	13.44	11.00	16.68	13.34	9.79	6.97
3	18-5P	15.75	10.66	16.38	12.71	8.62	6.63
3	18-5S	17.64	11.93	16.50	13.50	10.79	8.29
8	18-6P	18.06	12.68	18.97	15.18	12.21	8.67
8	18-6S	19.19	13.41	21.16	14.78	12.91	9.39
7	18-9P	15.93	13.04	21.41	14.94	11.06	9.05
7	18-9S	17.45	14.28	22.86	15.92	12.53	10.26
4	18-10P	17.68	12.43	18.05	14.44	10.69	8.46
4	18-10S	15.64	12.80	19.83	15.87	12.06	9.65
4	18-11P	17.68	12.43	19.61	13.76	10.48	8.38
5	18-11S	17.08	13.67	20.19	15.27	11.40	9.12
6	18-12P	15.02	12.01	16.91	13.53	9.34	7.47
6	18-12S	17.68	12.43	18.05	14.44	10.48	8.38
4	18-13P	33.75	22.82	30.00	23.27	22.44	17.41
4	18-13S	38.22	26.37	34.99	27.14	27.18	21.11
1	18-16P	17.49	12.24	20.04	14.02	11.84	8.40
1	18-16S	20.69	14.45	22.86	15.92	13.26	10.62
10	18-19P	22.26	17.81	24.33	19.46	17.77	13.04
10	18-19S	18.28	14.63	21.86	16.38	12.78	10.22
5	18-20P	17.75	12.47	19.79	13.86	11.64	8.27
5	18-20S	18.67	13.09	21.08	14.74	12.83	9.08
3	18-22P	16.28	11.48	18.67	13.09	10.79	7.71
3	18-22S	17.75	12.47	16.21	13.26	11.64	8.27
5	18-29P	19.85	16.24	24.39	19.51	18.79	12.71
5	18-29S	29.86	20.19	23.81	17.86	9.22	7.47
1	18-420P	—	—	—	—	39.07	33.49
1	18-420S	—	—	—	—	51.01	36.61
3	20-3P	15.84	12.96	20.19	14.30	10.02	8.20
3	20-3S	24.66	16.71	22.12	18.10	15.21	12.44
4	20-4P	18.00	12.59	18.23	14.58	9.68	7.92
4	20-4S	24.86	19.89	26.45	20.27	19.49	15.10
3	20-6P	22.86	18.28	19.24	15.75	11.46	9.55
3	20-6S	19.28	15.78	20.17	16.51	11.93	9.95
8	20-7P	16.83	13.46	18.05	14.44	12.10	8.60
8	20-7S	18.26	14.61	19.51	15.61	11.73	9.38
6	20-8P*	38.78	26.23	27.63	22.61	25.81	20.02



specify a shell finish other than drab olive. *notes the shell styles that are available with all four of these finish choices. Pricing shown is for standard drab olive and for (639) clear chromate and (621) black zinc finishes. Prices for finish (689) are higher. See page 436 for cable clamps and other accessories.

MS Mating Plugs

Shell Size and Insert	97-3106A*		97-3107A*		97-3106B*		97-3108A*		97-3108B*	
	EACH		EACH		EACH		EACH		EACH	
	1-9	10-49	1-9	10-49	1-9	10-49	1-9	10-49	1-9	10-49
10SL-3S	12.24	9.79	—	—	—	—	23.08	17.31	17.61	13.21
10SL-4S	11.58	9.26	—	—	—	—	22.43	16.82	15.41	12.48
12-5S	12.02	10.01	—	—	—	—	—	—	—	—
12-5P	11.44	9.54	—	—	—	—	—	—	—	—
12S-3S	9.84	7.87	17.79	13.14	—	—	25.93	19.15	15.23	11.41
12S-3P	10.95	7.79	17.62	13.02	—	—	25.76	19.02	15.05	11.28
12SL-844S	23.01	19.18	—	—	—	—	—	—	—	—
14S-1S	11.02	8.81	17.51	14.01	14.36	10.18	25.14	18.55	13.74	9.65
14S-1P	12.15	8.64	18.00	13.04	14.43	10.15	24.92	18.40	13.44	9.45
14S-2S	12.60	10.08	19.09	15.27	14.99	11.05	24.15	19.32	14.21	10.76
14S-2P	11.76	8.32	17.95	13.02	14.37	10.09	24.88	18.37	14.00	10.28
14S-4S	17.23	14.09	26.09	19.13	21.14	16.40	29.92	23.21	20.27	15.73
14S-4P	13.52	10.13	21.20	15.55	16.38	12.71	34.34	26.64	15.52	12.04
14S-5S	12.44	9.96	19.56	14.21	14.77	10.43	26.38	19.47	15.30	11.10
14S-5P	11.83	8.47	19.22	13.65	15.22	10.76	25.78	19.04	14.43	10.15
14S-6S	12.92	10.24	18.11	14.82	16.03	11.30	24.22	19.38	17.90	12.90
14S-6P	12.67	10.14	18.77	15.01	15.92	11.25	24.26	19.41	14.83	10.65
14S-7S	12.36	8.74	17.29	13.83	14.36	10.18	25.14	18.55	12.54	9.93
14S-7P	10.81	8.65	17.25	13.81	12.90	10.32	24.92	18.40	13.44	9.45
14S-9S	14.56	10.21	19.51	14.30	15.23	11.82	26.51	19.57	14.85	10.76
14S-9P	11.60	8.23	17.65	12.96	13.64	10.22	24.52	18.09	12.84	9.10
16-7S	20.45	15.10	28.25	20.86	—	—	36.70	27.55	25.82	20.66
16-7P	17.00	12.54	25.08	18.51	—	—	40.32	30.23	22.64	18.11
16-9S	17.97	14.97	24.79	18.29	—	—	34.09	25.17	23.12	16.50
16-9P	14.40	11.79	23.18	17.12	—	—	32.38	23.91	21.16	15.21
16-10S	15.55	12.44	19.92	16.30	—	—	33.62	24.84	21.16	15.21
16-10P	16.70	13.36	24.29	17.95	—	—	32.38	23.91	23.32	16.13
16-11S	15.50	12.40	23.16	17.11	—	—	32.48	23.99	18.11	14.82
16-11P	15.70	11.10	21.37	15.78	—	—	30.72	22.69	20.19	13.98
16-12S	19.87	14.67	27.63	20.41	—	—	36.54	28.36	25.21	20.17
16-12P	14.70	12.24	24.94	18.42	—	—	39.68	30.79	22.49	18.00
16S-1S	13.18	10.55	17.44	14.27	16.09	13.17	29.13	23.83	17.75	13.31
16S-1P	11.86	9.49	16.12	13.19	14.76	12.07	32.12	23.72	16.48	12.37
16S-4S	10.72	8.77	18.50	13.66	16.91	12.48	32.16	23.75	16.71	12.51
16S-4P	10.35	8.39	17.91	13.22	16.33	12.07	24.81	20.67	16.09	12.07
16S-5S	10.70	8.75	18.46	13.62	16.89	12.46	32.14	23.74	16.68	12.49
16S-5P	10.27	8.40	18.04	13.32	16.45	12.14	31.73	23.43	16.20	12.15
16S-6S	15.45	12.65	23.05	17.01	22.87	17.75	39.10	30.36	21.55	16.73
16S-6P	16.94	12.70	23.05	17.01	22.87	17.75	39.10	30.36	21.55	16.73
16S-8S	12.21	9.77	19.08	14.08	17.47	12.91	32.72	24.16	14.33	11.46
16S-8P	13.36	9.43	18.57	13.73	16.98	12.53	32.72	24.15	17.31	12.97
18-1S	17.16	13.73	24.03	19.66	18.11	14.82	35.25	26.30	21.34	17.07
18-1P	16.01	12.81	23.01	18.82	20.53	14.87	33.07	26.46	20.40	16.32
18-3S	19.04	13.35	27.47	20.28	22.47	15.99	37.25	27.51	24.23	18.18
18-3P	13.87	10.48	21.46	17.46	20.54	15.17	32.85	25.22	20.34	15.73
18-4S	13.72	10.98	21.18	17.32	18.61	13.74	34.23	25.28	20.97	15.73
18-4P	12.57	10.06	23.25	17.17	17.47	12.91	33.12	24.45	19.77	14.83
18-5S	13.89	11.37	25.57	18.88	21.08	16.36	35.61	27.61	20.83	16.67
18-5P	11.81	9.66	23.53	17.37	18.92	14.69	37.74	29.29	18.80	15.05
18-8S	17.72	13.00	27.27	20.15	18.72	15.32	37.08	27.37	21.07	16.86
18-8P	16.17	12.94	26.63	19.66	20.53	15.37	36.42	26.90	23.04	17.49
18-9S	16.83	13.77	28.02	20.70	23.12	16.60	31.80	26.02	25.13	18.85
18-9P	15.14	12.39	26.80	19.79	20.75	15.32	36.62	27.05	23.54	17.65
18-10S	16.70	13.36	23.62	19.32	21.79	15.87	33.71	26.97	21.07	16.86
18-10P	16.77	11.83	24.74	19.01	17.34	14.19	30.80	25.20	22.42	16.82
18-11S	16.01	12.81	26.63	19.66	20.83	15.37	35.57	28.46	23.34	17.49
18-11P	15.12	12.10	20.56	17.14	20.04	14.75	35.56	26.27	19.30	15.44
18-12S	15.12	12.10	22.21	18.17	20.04	14.75	35.56	26.27	22.42	16.82
18-12P	13.97	11.18	24.60	18.18	17.41	13.93	34.45	25.44	21.20	15.92
18-13S	29.76	22.31	40.90	30.19	37.48	29.07	49.38	38.31	36.18	28.95
18-13P	26.23	19.67	35.67	26.34	32.51	25.22	54.36	42.16	31.53	25.22
18-16S	17.93	13.76	28.02	20.70	23.12	16.60	38.08	28.13	25.13	18.85
18-16P	16.07	12.05	25.87	18.88	20.12	14.59	35.38	26.14	22.22	16.67
18-19S	17.39	13.91	24.23	19.83	22.36	16.38	37.77	27.88	24.79	18.58
18-19P	22.65	16.63	31.53	23.29	22.89	18.73	41.59	30.71	28.62	21.46
18-20S	13.60	11.13	21.28	17.73	21.19	15.33	36.38	26.87	22.22	16.12
18-20P	15.02	12.29	20.13	16.78	20.09	14.38	35.08	25.91	21.16	15.16
18-22S	12.40	10.14	25.26	18.67	20.09	14.38	35.08	25.91	21.16	15.16
18-22P	18.71	11.75	24.04	17.76	18.30	13.53	33.94	25.06	19.79	14.29
18-23S	17.14	13.43	27.29	20.07	22.47	18.23	40.26	27.45	22.45	20.58
18-23P	16.86	15.43	30.19	22.29	24.67	18.23	40.26	27.73	27.45	20.58
18-420S	64.34	53.13	—	—	—	—	—	—	—	—
18-420P	67.42	56.19	—	—	—	—	—	—	—	—
20-3S	22.58	18.47	32.70	24.15	28.14	20.48	45.43	33.56	30.21	21.78
20-3P	17.39	14.22	27.85	20.56	23.57	17.40	40.65	30.01	23.94	18.42
20-4S	26.34	21.07	34.74	25.65	30.49	22.53	47.81	35.30	34.97	25.48
20-4P	20.07	14.04	27.52	20.31	23.23	17.15	40.31	29.77	26.23	19.66
20-6S	20.63	16.88	24.97	20.81	28.61	22.21	46.83	36.34	27.76	23.10
20-6P	20.11	16.45	24.50	20.42	28.04	21.76	46.21	35.86	29.18	22.65
20-7S	19.99	15.99	28.63	21.15	24.63	18.20	41.69	30.79	27.66	20.76
20-7P	18.56	14.85	23.64	19.34	21.25	17.00	40.13	29.63	26.05	19.52
20-8S	41.51	31.13	48.34	35.70	47.04	36.50	65.47	50.79	48.47	37.61