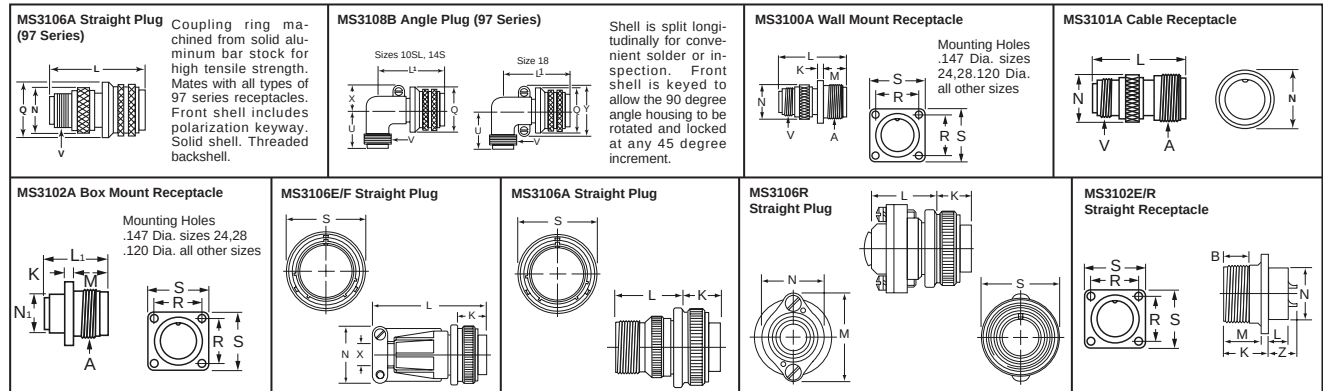


Amphenol® Circular 97 Series Threaded Connectors with Solder Contacts (MIL-C-5015 Type)

Underwriters Laboratories approved recognition
File E115497, Canadian Standard Association
Certification File LR69183

Low cost, general duty, non-environmental MIL-C-5015 type connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a conductive cadmium plate finish and olive chromate after-treatment • Contacts are solder type, silver plated with pre-tinned solder cups • Cable clamps are zinc alloy with olive drab/green chromate finish

A



Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)



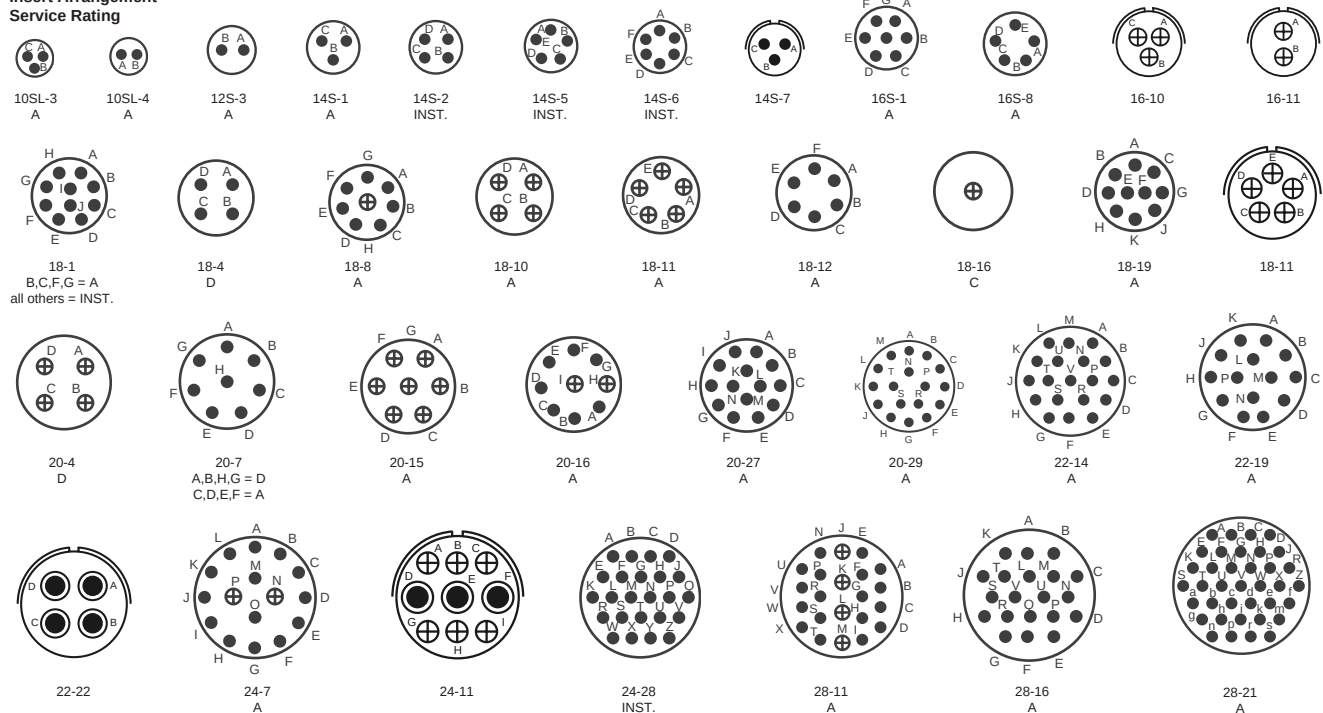
SERVICE RATING:

	DC	INST	A	D	E	B	C
Limited Operating Voltages at Sea Level	250	700	1250	1750	2450	4200	
AC(rms)	200	500	900	1250	1750	3000	
TEST CURRENT: Contact Size 16 = 13 amperes. Contact Size 12 = 23 amperes							
NOTE: Transients were not considered in calculating these values.							
NOTE: Limiting operating voltage at 50,000 feet altitude are approx. 25% of the sea level values.							

Panel Opening



Insert Arrangement Service Rating



97 Series Plugs

Shell Size/ Insert Arrange- ment No.	No. of Contacts/ Size	Description	Digi-Key Part No.	Price Each			Dimensions in Inches								Amphenol Part No.
				1	10	50	L Max.	L1 Max.	N Ref.	Q Max.	U Ref.	V Fitting Thread	X Ref.	Y Ref.	
Straight Plugs with Solid Shells															
10SL-3	3/16	Straight Plug w/Socket	97-3106A-10SL-3S-ND	12.00	8.40	6.24	1-3/8	—	3/4	7/8	—	5/8-24	—	—	97-3106A-10SL-3S
10SL-4	2/16	Straight Plug w/Socket	97-3106A-10SL-4S-ND	11.35	7.95	5.91									97-3106A-10SL-4S
12S-3	2/16	Straight Plug w/Pins	97-3106A-12S-3P-ND	10.40	7.28	5.41	1-7/16	—	25/32	1	—	5/8-24	—	—	97-3106A-12S-3P
		Straight Plug w/Socket	97-3106A-12S-3S-ND	11.13	7.79	5.79									97-3106A-12S-3S
14S-1	3/16	Straight Plug w/Pins	97-3106A-14S-1P-ND	10.43	7.30	5.43	1-15/32	—	7/8	1-1/8	—	3/4-20	—	—	97-3106A-14S-1P
		Straight Plug w/Socket	97-3106A-14S-1S-ND	12.30	8.61	6.40									97-3106A-14S-1S
14S-2	4/16	Straight Plug w/Pins	97-3106A-14S-2P-ND	10.38	7.27	5.40									97-3106A-14S-2P
		Straight Plug w/Socket	97-3106A-14S-2S-ND	12.88	9.02	6.70									97-3106A-14S-2S

(Continued)

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Amphenol® Circular 97 Series Threaded Connectors with Solder Contacts (MIL-C-5015 Type) (Cont.)

Shell Size/ Insert Arrange- ment No.	No. of Contacts/ Size	Description	Digi-Key Part No.	Price Each			Dimensions in Inches							Amphenol Part No.									
				1	10	50	L Max.	L1 Max.	N Ref.	Q Max.	U Ref.	V Fitting Thread	X Ref.		Y Ref.								
14S-5	5/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-14S-5P-ND 97-3106A-14S-5S-ND	11.60 13.83	8.12 9.68	6.04 7.19	1-15/32	—	7/8	1-1/8	—	3/4-20	—	—	97-3106A-14S-5P 97-3106A-14S-5S								
14S-6	6/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-14S-6P-ND 97-3106A-14S-6S-ND	12.03 13.95	8.42 9.77	6.26 7.26									97-3106A-14S-6P 97-3106A-14S-6S								
16S-1	7/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-16S-1P-ND 97-3106A-16S-1S-ND	12.03 15.40	8.42 10.78	6.26 8.01	1-15/32	—	1	1-1/4	—	7/8-20	—	—	97-3106A-16S-1P 97-3106A-16S-1S								
16S-8	5/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-16S-8P-ND 97-3106A-16S-8S-ND	13.43 13.93	9.40 9.75	6.99 7.25									97-3106A-16S-8P 97-3106A-16S-8S								
18-1	10/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-1P-ND 97-3106A-18-1S-ND	15.78 17.45	11.05 12.22	8.21 9.08	1-31/32	—	1-1/8	1-11/32	—	1-20	—	—	97-3106A-18-1P 97-3106A-18-1S								
18-4	4/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-4P-ND 97-3106A-18-4S-ND	14.60 15.75	10.22 11.03	7.60 8.19									97-3106A-18-4P 97-3106A-18-4S								
18-8	4/1#12, 4/7#16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-8P-ND 97-3106A-18-8S-ND	17.24 18.62	11.26 12.16	9.44 10.20									97-3106A-18-8P 97-3106A-18-8S								
18-10	4/12	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-10P-ND 97-3106A-18-10S-ND	17.48 18.62	12.24 12.16	9.09 10.20									97-3106A-18-10P 97-3106A-18-10S								
18-11	5/12	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-11P-ND 97-3106A-18-11S-ND	17.48 17.24	12.24 11.26	9.09 9.44									97-3106A-18-11P 97-3106A-18-11S								
18-12	6/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-12P-ND 97-3106A-18-12S-ND	14.33 17.48	10.03 12.24	7.45 9.09									97-3106A-18-12P 97-3106A-18-12S								
18-16	1/12	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-16P-ND 97-3106A-18-16S-ND	17.48 19.64	12.24 12.82	9.09 10.76									97-3106A-18-16P 97-3106A-18-16S								
18-19	10/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-18-19P-ND 97-3106A-18-19S-ND	22.52 19.21	14.42 12.54	12.77 10.52									97-3106A-18-19P 97-3106A-18-19S								
20-4	4/12	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-4P-ND 97-3106A-20-4S-ND	20.16 26.35	13.16 16.87	11.04 14.94									1-7/8	—	1-1/4	1-15/32	—	1-3/16-18	—	—	97-3106A-20-4P 97-3106A-20-4S
20-7	8/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-7P-ND 97-3106A-20-7S-ND	20.16 21.66	13.16 14.14	11.04 11.86																	97-3106A-20-7P 97-3106A-20-7S
20-15	7/12	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-15P-ND 97-3106A-20-15S-ND	22.09 27.70	14.42 17.73	12.09 15.70																	97-3106A-20-15P 97-3106A-20-15S
20-16	9/2#12, 9/7#16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-16P-ND 97-3106A-20-16S-ND	22.11 22.50	14.44 14.40	12.11 12.75																	97-3106A-20-16P 97-3106A-20-16S
20-27	14/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-27P-ND 97-3106A-20-27S-ND	19.78 23.18	12.92 14.84	10.83 13.14																	97-3106A-20-27P 97-3106A-20-27S
20-29	17/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-20-29P-ND 97-3106A-20-29S-ND	21.07 25.45	13.75 16.29	11.54 14.43																	97-3106A-20-29P 97-3106A-20-29S
22-14	19/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-22-14P-ND 97-3106A-22-14S-ND	24.05 27.32	15.40 17.49	13.63 15.48	1-31/32	—	1-3/8	1-19/32	—	1-3/16-18	—	—									97-3106A-22-14P 97-3106A-22-14S
22-19	14/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-22-19P-ND 97-3106A-22-19S-ND	23.58 24.05	15.10 15.40	13.37 13.63																	97-3106A-22-19P 97-3106A-22-19S
24-7	16/2 #12, 16/14 #16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-24-7P-ND 97-3106A-24-7S-ND	28.46 30.83	18.22 19.73	16.13 17.47	2-1/4	—	1-1/2	1-23/32	—	1-7/16-18	—	—									97-3106A-24-7P 97-3106A-24-7S
24-28	24/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-24-28P-ND 97-3106A-24-28S-ND	29.77 33.71	19.06 21.58	16.87 19.10																	97-3106A-24-28P 97-3106A-24-28S
28-11	22/4#12, 22/18#16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-28-11P-ND 97-3106A-28-11S-ND	32.27 34.66	20.65 24.27	18.29 21.67	2-1/4	—	1-3/4	1-31/32	—	1-7/16-18	—	—	97-3106A-28-11P 97-3106A-28-11S								
28-16	20/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-28-16P-ND 97-3106A-28-16S-ND	33.23 33.66	21.27 21.55	18.84 19.08									97-3106A-28-16P 97-3106A-28-16S								
28-21	37/16	Straight Plug w/Pins Straight Plug w/Socket	97-3106A-28-21P-ND 97-3106A-28-21S-ND	34.54 38.94	24.18 27.26	21.59 24.34									97-3106A-28-21P 97-3106A-28-21S								
Angle Plugs with Split Shell																							
10SL-3	3/16	Angle Plug w/Socket	97-3108B-10SL-3S-ND	16.03	11.22	8.34	—	1-1/2	—	7/8	1	5/8-24	—	—	97-3108B-10SL-3S								
10SL-4	2/16	Angle Plug w/Socket	97-3108B-10SL-4S-ND	15.30	10.71	7.96									97-3108B-10SL-4S								
14S-1	3/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-14S-1P-ND 97-3108B-14S-1S-ND	13.93 14.28	9.75 10.00	7.25 7.43	—	1-23/32	—	1-1/8	1-1/16	3/4-20	21/32	—	97-3108B-14S-1P 97-3108B-14S-1S								
14S-2	4/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-14S-2P-ND 97-3108B-14S-2S-ND	13.80 14.90	9.66 10.43	7.18 7.75									97-3108B-14S-2P 97-3108B-14S-2S								
14S-5	5/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-14S-5P-ND 97-3108B-14S-5S-ND	15.13 15.55	10.59 10.89	7.87 8.09									97-3108B-14S-5P 97-3108B-14S-5S								
14S-6	6/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-14S-6P-ND 97-3108B-14S-6S-ND	15.55 15.98	10.89 11.19	8.09 8.31									97-3108B-14S-6P 97-3108B-14S-6S								
18-1	10/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-1P-ND 97-3108B-18-1S-ND	22.02 24.08	14.37 15.41	12.06 13.65									97-3108B-18-1P 97-3108B-18-1S								
18-4	4/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-4P-ND 97-3108B-18-4S-ND	18.50 19.74	12.08 12.89	10.13 10.81									97-3108B-18-4P 97-3108B-18-4S								

(Continued)

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(T032) **195**

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Amphenol® Circular 97 Series Threaded Connectors with Solder Contacts (MIL-C-5015 Type) (Cont.)

Shell Size/ Insert Arrange- ment No.	No. of Contacts/ Size	Description	Digi-Key Part No.	Price Each			Dimensions in Inches							Amphenol Part No.	
				1	10	50	L Max.	L1 Max.	N Ref.	Q Max.	U Ref.	V Fitting Thread	X Ref.		Y Ref.
18-8	4/1#12, 4/7#16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-8P-ND 97-3108B-18-8S-ND	22.02 23.39	14.37 15.27	12.06 12.81	—	2-5/32	—	1-11/32	1-3/16	1-20	1-41/64	1-41/64	97-3108B-18-8P 97-3108B-18-8S
18-10	4/12	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-10P-ND 97-3108B-18-10S-ND	21.38 23.39	13.95 15.27	11.70 12.81									97-3108B-18-10P 97-3108B-18-10S
18-11	5/12	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-11P-ND 97-3108B-18-11S-ND	21.38 22.02	13.95 14.37	11.70 12.06									97-3108B-18-11P 97-3108B-18-11S
18-12	6/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-12P-ND 97-3108B-18-12S-ND	20.26 21.38	13.23 13.95	11.09 11.70									97-3108B-18-12P 97-3108B-18-12S
18-16	1/12	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-16P-ND 97-3108B-18-16S-ND	22.04 24.10	14.39 15.43	12.07 13.66									97-3108B-18-16P 97-3108B-18-16S
18-19	10/16	Angle Plug w/Pins Angle Plug w/Socket	97-3108B-18-19P-ND 97-3108B-18-19S-ND	27.14 22.70	17.37 14.53	15.38 12.87									97-3108B-18-19P 97-3108B-18-19S

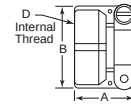
Amphenol® MS/Standard Cylindrical with Solder Contacts (MIL-C-5015 Series 1 Type)

Shell Size/ Insert Arrangement No.	No. of Contacts/ Size	Description	Digi-Key Part No.	Price Each			Dimensions in Inches										Amphenol Part No.
				1	10	50	B Min Full Thread	K	L	M	N Dia.	R	S	X Min Cable Dim.	Z		
10SL-3	3/16	Plug w/Socket	MS3106E-10SL-3S-ND*	14.70	10.29	7.65	—	.531	2.129	—	.896	—	.946	.281	—	MS3106E-10SL-30S	
	3/16	Plug w/Socket	MS3106F-10SL-3S-ND†	16.70	11.69	8.69	—	.531	2.129	—	.896	—	.946	.281	—	MS3106F-10SL-3S	
	3/16	Plug w/Socket	MS3106R-10SL-3S-ND‡	15.25	10.68	7.93	—	.531	1.057	1.120	.807	—	.946	—	—	MS3106R-10SL-3S	
	3/16	Recept. w/Pins	MS3102E-10SL-3P-ND*	7.24	4.11	3.03	.391	.672	.297	.562	.625	.719	1.000	—	.422	MS3102E-10SL-3P	
	3/16	Recept. w/Pins	MS3102R-10SL-3P-ND‡	6.47	3.67	2.71	.391	.672	.297	.562	.625	.719	1.000	—	.422	MS3102R-10SL-3P	
10SL-4	2/16	Plug w/Socket	MS3106A-10SL-4S-ND	15.08	10.56	7.84	—	.531	.937	—	—	—	.946	—	—	MS3106A-10SL-4S	
	2/16	Plug w/Socket	MS3106E-10SL-4S-ND*	16.78	11.75	8.73	—	.531	2.129	—	.896	—	.946	.281	—	MS3106E-10SL-4S	
	2/16	Plug w/Socket	MS3106F-10SL-4S-ND†	14.88	10.42	7.74	—	.531	2.129	—	.896	—	.946	.281	—	MS3106F-10SL-4S	
	2/16	Recept. w/Pins	MS3102E-10SL-4P-ND*	6.60	3.75	2.76	.391	.672	.297	.562	.625	.719	1.000	—	.422	MS3102E-10SL-4P	
	2/16	Recept. w/Pins	MS3102R-10SL-4P-ND‡	5.86	3.33	2.45	.391	.672	.297	.562	.625	.719	1.000	—	.422	MS3102R-10SL-4P	
14S-2	4/16	Plug w/Pins	MS3106F-14S-2P-ND†	12.80	8.96	6.66	—	.531	2.201	—	1.021	—	1.123	.406	—	MS3106F-14S-2P	
	4/16	Plug w/Socket	MS3106A-14S-2S-ND	11.70	8.19	6.09	—	.531	.937	—	—	—	1.123	—	—	MS3106A-14S-2S	
	4/16	Plug w/Socket	MS3106F-14S-2S-ND†	16.91	11.04	9.26	—	.531	2.201	—	1.021	—	1.123	.406	—	MS3106F-14S-2S	
	4/16	Recept. w/Pins	MS3102E-14S-2P-ND*	8.82	5.30	4.12	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102E-14S-2P	
	4/16	Recept. w/Socket	MS3102E-14S-2S-ND*	8.74	4.96	3.66	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102E-14S-2S	
	4/16	Recept. w/Pins	MS3102R-14S-2P-ND‡	5.93	3.37	2.48	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102R-14S-2P	
14S-5	4/16	Recept. w/Socket	MS3102R-14S-2S-ND‡	8.84	5.02	3.70	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102R-14S-2S	
	5/16	Plug w/Pins	MS3106A-14S-5P-ND	11.58	8.11	6.02	—	.531	.937	—	—	—	1.123	—	—	MS3106A-14S-5P	
	5/16	Plug w/Socket	MS3106A-14S-5S-ND	13.00	9.10	6.76	—	.531	.937	—	—	—	1.123	—	—	MS3106A-14S-5S	
	5/16	Recept. w/Pins	MS3102E-14S-5P-ND*	7.67	4.36	3.21	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102E-14S-5P	
	5/16	Recept. w/Pins	MS3102R-14S-5P-ND‡	9.08	5.15	3.80	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102R-14S-5P	
14S-6	6/16	Plug w/Socket	MS3106A-14S-6S-ND	13.00	9.10	6.76	—	.531	.937	—	—	—	1.123	—	—	MS3106A-14S-6S	
	6/16	Plug w/Socket	MS3106F-14S-6S-ND†	16.80	11.76	8.74	—	.531	2.201	—	1.021	—	1.123	.406	—	MS3106F-14S-6S	
	6/16	Recept. w/Pins	MS3102E-14S-6P-ND*	7.84	4.45	3.28	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102E-14S-6P	
	6/16	Recept. w/Socket	MS3102E-14S-6S-ND*	9.84	5.91	4.60	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102E-14S-6S	
	6/16	Recept. w/Pins	MS3102R-14S-6P-ND‡	5.49	3.12	2.30	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102R-14S-6P	
	6/16	Recept. w/Socket	MS3102R-14S-6S-ND‡	9.01	5.12	3.77	.450	.672	.297	.562	.750	.906	1.188	—	.422	MS3102R-14S-6S	
14S-7	3/16	Plug w/Socket	MS3106F-14S-7S-ND†	17.05	11.13	9.34	—	.531	2.201	—	1.021	—	1.123	.406	—	MS3106F-14S-7S	
16S-1	7/16	Plug w/Socket	MS3106A-16S-1S-ND	15.48	10.84	8.05	—	.531	.937	—	—	—	1.250	—	—	MS3106A-16S-1S	
	7/16	Plug w/Socket	MS3106F-16S-1S-ND†	23.18	15.13	12.69	—	.531	2.201	—	1.151	—	1.250	.500	—	MS3106F-16S-1S	
	7/16	Recept. w/Pins	MS3102E-16S-1P-ND*	8.49	5.10	3.97	.450	.672	.297	.562	.875	.969	1.281	—	.422	MS3102E-16S-1P	
	7/16	Recept. w/Pins	MS3102R-16S-1P-ND‡	6.80	3.86	2.85	.450	.672	.297	.562	.875	.969	1.281	—	.422	MS3102R-16S-1P	
16-10	3/12	Plug w/Socket	MS3106A-16-10S-ND	16.53	11.57	8.60	—	.719	1.124	—	—	—	1.250	—	—	MS3106A-16-10S	
	3/12	Plug w/Socket	MS3106F-16-10S-ND†	23.00	14.72	13.04	—	.719	2.524	—	1.151	—	1.250	.500	—	MS3106F-16-10S	
16-11	2/12	Recept. w/Pins	MS3102R-16-11P-ND‡	6.83	3.88	2.86	.625	.860	.484	.750	.875	.969	1.281	—	.672	MS3102R-16-11P	
18-1	10/16	Recept. w/Pins	MS3102E-18-1P-ND*	10.20	6.12	4.76	.625	.891	.453	.750	1.000	1.062	1.375	—	.641§	MS3102E-18-1P	
	10/16	Recept. w/Pins	MS3102R-18-1P-ND‡	10.14	6.09	4.74	.625	.891	.453	.750	1.000	1.062	1.375	—	.641§	MS3102R-18-1P	
	10/16	Plug w/Socket	MS3106A-18-1S-ND	18.12	11.83	9.92	—	.719	1.219	—	—	—	1.333	—	—	MS3106A-18-1S	
18-11	5/12	Recept. w/Pins	MS3102E-18-11P-ND*	8.68	4.93	3.63	.625	.891	.453	.750	1.000	1.062	1.375	—	.641§	MS3102E-18-11P	
20-27	14/16	Recept. w/Pins	MS3102R-20-27P-ND‡	10.80	6.48	5.04	.625	.891	.453	.750	1.125	1.156	1.500	—	.641§	MS3102R-20-27P	
22-14	19/16	Recept. w/Pins	MS3102E-22-14P-ND*	11.43	6.86	5.34	.625	.891	.453	.750	1.250	1.250	1.625	—	.641§	MS3102E-22-14P	
22-19	14/16	Recept. w/Socket	MS3102E-22-19S-ND*	12.00	8.40	6.24	.625	.891	.453	.750	1.250	1.250	1.625	—	.641§	MS3102E-22-19S	
22-22	4/8	Recept. w/Pins	MS3102E-22-22P-ND*	14.90	10.43	7.75	.625	.891	.453	.750	1.250	1.250	1.625	—	.641§	MS3102E-22-22P	
24-11	3/#8 6/#12	Recept. w/Pins	MS3102R-24-11P-ND‡	11.65	8.16	6.06	.625	.953	.453	.812	1.375	1.375	1.750	—	.578§	MS3102R-24-11P	
	3/#8 6/#12	Plug w/Socket	MS3106R-24-11S-ND‡	23.83	15.25	13.51	—	.719	1.291	1.994	1.557	—	1.715	—	—	MS3106R-24-11S	

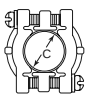
* Environmental resisting
† Environmental resisting with strain relief (MS part number only)
‡ Lightweight environmental resisting
§ Increase Z dimension by .312 for size "0" contact only.

Amphenol® Accessories For 97 Series Connectors

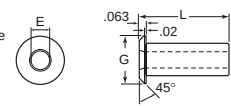
Cable Clamp
MS3075A Type



For jacketed cable or wires protected by tubing. Both clamping halves float for maximum strain relief. For unjacketed cable or wires, use corresponding MS3420 bushing. Clamp and bushing can be ordered together. Two telescoping bushings are furnished with shell sizes 24 and larger.



Bushing
MS3420 Type



Rubber bushing specifically designed for MS3075A type cable clamp. Can also be used as a reducing bushing. Order separately or with cable clamp.

A

Shell Size	Max. O.D. Cable	Description	Digi-Key Part No.	Price Each			Dimensions in Inches							Amphenol Part No.		
				1	10	50	A	B	C Dia.	D. Internal Thread	E	F	G		L	
10SL, 12S	5/16	Cable Clamp	97-3057-1004-ND	5.76	3.27	2.41	.795	.842	5/16	5/8-24	—	—	—	—	—	97-3057-1004
		Bushing	97-79-513-3-ND	1.12	.67	.44	—	—	—	—	.130	.210	.374	2.875	9779-513-3	
		Bushing	97-79-513-4-ND	1.31	.79	.51	—	—	—	—	.220	.302	.500	2.750	9779-513-4	
		Cable Clamp w/Bushing	97-3057-1004-1-ND*	7.00	3.98	2.93	.795	.842	5/16	5/8-24	.220	.302	.500	2.750	97-3057-1004-1*	
12SL, 14S	7/16	Cable Clamp	97-3057-1007-ND	5.58	3.34	2.18	.850	.995	7/16	3/4-20	—	—	—	—	—	97-3057-1007
		Bushing	97-79-513-6-ND	1.27	.76	.50	—	—	—	—	.312	.427	.614	2.625	9779-513-6	
		Bushing	97-3057-1007-1-ND	7.07	4.01	2.96	.850	.995	7/16	3/4-20	.312	.427	.614	2.625	97-3057-1007-1	
		Cable Clamp w/Bushing	97-3057-1008-ND	6.40	3.63	2.68	.920	1.120	9/16	7/8-20	—	—	—	—	97-3057-1008-1	
16, 16S	9/16	Bushing	97-79-513-8-ND	1.04	.63	.41	—	—	—	—	.437	.552	.739	2.500	9779-513-8	
		Cable Clamp w/Bushing	97-3057-1008-1-ND	7.47	4.24	3.13	.920	1.120	9/16	7/8-20	.437	.552	.739	2.500	97-3057-1008-1	
		Cable Clamp	97-3057-1010-ND	5.43	3.08	2.27	.920	1.216	5/8	1-20	—	—	—	—	97-3057-1010	
		Bushing	97-79-513-10-ND	1.12	.67	.44	—	—	—	—	.562	.615	.889	2.375	9779-513-10	
18	5/8	Cable Clamp w/Bushing	97-3057-1010-1-ND	6.37	3.61	2.66	.920	1.216	5/8	1-20	.562	.615	.889	2.375	97-3057-1010-1	
		Cable Clamp	97-3057-1012-ND	5.43	3.08	2.27	.927	1.403	3/4	1-3/16-18	—	—	—	—	97-3057-1012	
		Bushing	97-79-513-12-ND	1.23	.74	.48	—	—	—	—	.625	.740	1.084	2.250	9779-513-12	
		Cable Clamp w/Bushing	97-3057-1012-1-ND	6.50	3.69	2.72	.927	1.403	3/4	1-3/16-18	.625	.740	1.084	2.250	97-3057-1012-1	
20, 22	3/4	Cable Clamp	97-3057-1016-ND	5.90	3.35	2.47	1.015	1.683	15/16	1-7/16-18	—	—	—	—	—	97-3057-1016**
		Bushing	97-79-513-12-ND	1.23	.74	.48	—	—	—	—	.625	.740	1.084	2.250	9779-513-12	
		Bushing	97-79-513-16-ND	1.66	.99	.65	—	—	—	—	.750	.927	1.309	2.125	9779-513-16	
		Cable Clamp w/Bushing	97-3057-1016-1-ND**	8.38	4.75	3.50	1.015	1.683	15/16	1-7/16-18	—	—	—	—	97-3057-1016-1**	

* When Clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

**Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

97 Series Receptacles

Shell Size Insert Arrangement- No.	No. of Con- tacts/ Size	Description	Digi-Key Part No.	Price Each			Dimensions in Inches												Amphenol Part No.
				1	10	50	A Coupling Thread	K Ref.	L Max.	L1 Max.	M Ref.	N Ref.	N1 Ref.	O Ref.	R Ref.	S Ref.	V Fitting Thread		
Receptacles With Solid Shells																			
10SL-3	3/16	Cable recept. w/pins Box mount recept. w/pins	97-3101A-10SL-3P-ND 97-3102A-10SL-3P-ND	14.08 9.69	9.86 5.82	7.32 4.53	5/8-24	5/64	1-9/32	61/64	9/16	3/4	11/16	.812	23/32	1	5/8-24	97-3101A-10SL-3P 97-3102A-10SL-3P	
10SL-4	2/16	Cable recept. w/pins Box mount recept. w/pins	97-3101A-10SL-4P-ND 97-3102A-10SL-4P-ND	13.43 8.91	5.40 5.35	6.99 4.16												97-3101A-10SL-4P 97-3102A-10SL-4P	
12S-3	2/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-12S-3P-ND 97-3102A-12S-3S-ND	8.27 8.88	4.70 5.04	3.46 3.71	3/4-20	5/64	1-15/32	31/32	9/16	25/32	11/16	.812	13/16	1-3/32	5/8-24	97-3102A-12S-3P 97-3102A-12S-3S	
14S-1	3/16	Wall mount recept. w/pins Wall mount recept. w/socket	97-3100A-14S-1P-ND 97-3100A-14S-1S-ND	12.00 12.30	8.40 8.61	6.24 6.40												97-3100A-14S-1P 97-3100A-14S-1S	
		Cable recept. w/pins Cable recept. w/socket	97-3101A-14S-1P-ND 97-3101A-14S-1S-ND	14.78 15.00	10.35 10.50	7.69 7.80	97-3101A-14S-1P 97-3101A-14S-1S												
		14S-2	4/16	Wall mount recept. w/pins Wall mount recept. w/socket	97-3100A-14S-2P-ND 97-3100A-14S-2S-ND	13.35 12.58	9.35 8.81	6.95 6.54	97-3100A-14S-2P 97-3100A-14S-2S										
				Cable recept. w/pins Cable recept. w/socket	97-3101A-14S-2P-ND 97-3101A-14S-2S-ND	14.70 15.55	10.29 10.89	7.65 8.09	97-3101A-14S-2P 97-3101A-14S-2S										
14S-5	5/16	Wall mount recept. w/pins Wall mount recept. w/socket	97-3100A-14S-5P-ND 97-3100A-14S-5S-ND	13.35 12.03	9.35 8.42	6.95 6.26	7/8-20	5/64	1-15/32	61/64	9/16	7/8	3/4	.938	29/32	1-3/16	3/4-20	97-3100A-14S-5P 97-3100A-14S-5S	
		Cable recept. w/pins Cable recept. w/socket	97-3101A-14S-5P-ND 97-3101A-14S-5S-ND	15.85 16.55	11.10 11.59	8.25 8.61												97-3101A-14S-5P 97-3101A-14S-5S	
14S-6	6/16	Wall mount recept. w/pins Wall mount recept. w/socket	97-3100A-14S-6P-ND 97-3100A-14S-6S-ND	12.03 13.83	8.42 9.68	6.26 7.19	7/8-20	5/64	1-15/32	61/64	9/16	7/8	3/4	.938	29/32	1-3/16	3/4-20	97-3100A-14S-6P 97-3100A-14S-6S	
		Cable recept. w/pins Cable recept. w/socket	97-3101A-14S-6P-ND 97-3101A-14S-6S-ND	16.55 16.93	11.59 11.85	8.61 8.81												97-3101A-14S-6P 97-3101A-14S-6S	
16S-1	7/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-16S-1P-ND 97-3102A-16S-1S-ND	11.67 11.88	7.01 7.13	5.45 5.55	1-20	5/64	1-15/32	61/64	9/16	1	7/8	1.062	31/32	1-9/32	7/8-20	97-3102A-16S-1P 97-3102A-16S-1S	
16S-8	5/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-16S-8P-ND 97-3102A-16S-8S-ND	11.52 11.97	6.92 7.19	5.38 5.59												97-3102A-16S-8P 97-3102A-16S-8S	
18-1	10/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-1P-ND 97-3102A-18-1S-ND	13.25 12.78	9.28 8.95	6.89 6.65	1-1/8-18	1/8	1-63/64	1-3/8	3/4	1-1/8	1	1.188	1-1/16	1-3/8	1-20	97-3102A-18-1P 97-3102A-18-1S	
18-4	4/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-4P-ND 97-3102A-18-4S-ND	11.52 10.40	6.92 7.28	5.38 5.41												97-3102A-18-4P 97-3102A-18-4S	
18-8	4/16#12, 4/7#16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-8P-ND 97-3102A-18-8S-ND	13.25 14.48	9.28 10.14	6.89 7.53	1-1/8-18	1/8	1-63/64	1-3/8	3/4	1-1/8	1	1.188	1-1/16	1-3/8	1-20	97-3102A-18-8P 97-3102A-18-8S	
18-10	4/12	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-10P-ND 97-3102A-18-10S-ND	12.30 14.48	8.61 10.14	6.40 7.53												97-3102A-18-10P 97-3102A-18-10S	
18-11	5/12	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-11P-ND 97-3102A-18-11S-ND	12.30 11.53	8.61 8.07	6.40 6.00	1-1/8-18	1/8	1-63/64	1-3/8	3/4	1-1/8	1	1.188	1-1/16	1-3/8	1-20	97-3102A-18-11P 97-3102A-18-11S	
18-12	6/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-12P-ND 97-3102A-18-12S-ND	11.20 10.70	7.84 7.49	5.83 5.57												97-3102A-18-12P 97-3102A-18-12S	
18-16	1/12	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-16P-ND 97-3102A-18-16S-ND	11.73 15.00	8.21 10.50	6.10 7.80	1-1/8-18	1/8	1-63/64	1-3/8	3/4	1-1/4	1.312	1-5/32	1-1/2	1-3/16-18	97-3102A-18-16P 97-3102A-18-16S		
18-19	10/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-18-19P-ND 97-3102A-18-19S-ND	19.07 13.05	12.45 9.14	10.44 6.79											97-3102A-18-19P 97-3102A-18-19S		
20-4	4/12	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-4P-ND 97-3102A-20-4S-ND	12.00 14.78	8.40 10.35	6.24 7.69	1-1/4-18	1/8	1-57/64	1-3/8	3/4	1-1/4	1.312	1-5/32	1-1/2	1-3/16-18	97-3102A-20-4P 97-3102A-20-4S		
20-7	8/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-7P-ND 97-3102A-20-7S-ND	12.00 13.83	8.40 9.68	6.24 7.19											97-3102A-20-7P 97-3102A-20-7S		
20-15	7/12	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-15P-ND 97-3102A-20-15S-ND	16.05 20.66	11.24 13.49	8.35 11.31	1-1/4-18	1/8	1-57/64	1-3/8	3/4	1-1/4	1.312	1-5/32	1-1/2	1-3/16-18	97-3102A-20-15P 97-3102A-20-15S		
20-16	9/2#12, 9/7#16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-16P-ND 97-3102A-20-16S-ND	14.48 15.75	10.14 11.03	7.53 8.19											97-3102A-20-16P 97-3102A-20-16S		
20-27	14/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-27P-ND 97-3102A-20-27S-ND	14.78 14.75	10.35 10.33	7.69 7.67	1-1/2-18	1/8	2-1/4	1-3/8	13/16	1-1/2	1-3/8	1.562	1-3/8	1-3/4	1-7/16-18	97-3102A-20-27P 97-3102A-20-27S	
20-29	17/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-20-29P-ND 97-3102A-20-29S-ND	16.60 18.05	11.62 11.78	8.64 9.88												97-3102A-20-29P 97-3102A-20-29S	
22-14	19/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-22-14P-ND 97-3102A-22-14S-ND	17.24 21.50	11.26 13.71	9.44 10.50	1-3/8-18	1/8	1-63/64	1-3/8	3/4	1-3/8	1-1/4	1.438	1-1/4	1-5/8	1-3/16-18	97-3102A-22-14P 97-3102A-22-14S	
22-19	14/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-22-19P-ND 97-3102A-22-19S-ND	16.91 17.24	11.04 11.26	9.26 9.44												97-3102A-22-19P 97-3102A-22-19S	
24-7	16/2#12, 16/14#16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-24-7P-ND 97-3102A-24-7S-ND	20.28 22.75	13.24 14.85	11.11 12.46	1-1/2-18	1/8	2-1/4	1-3/8	13/16	1-1/2	1-3/8	1.562	1-3/8	1-3/4	1-7/16-18	97-3102A-24-7P 97-3102A-24-7S	
24-28	24/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-24-28P-ND 97-3102A-24-28S-ND	22.06 24.50	14.40 15.69	12.08 13.89												97-3102A-24-28P 97-3102A-24-28S	
28-11	22/4#12, 22/18#16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-28-11P-ND 97-3102A-28-11S-ND	22.93 29.48	14.68 18.87	13.00 16.71	1-3/4-18	1/8	2-1/4	1-3/8	13/16	1-3/4	1-5/8	1.812	1-9/16	2	1-7/16-18	97-3102A-28-11P 97-3102A-28-11S	
28-16	20/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-28-16P-ND 97-3102A-28-16S-ND	24.05 24.23	15.40 15.51	13.63 14.74												97-3102A-28-16P 97-3102A-28-16S	
28-21	37/16	Box mount recept. w/pins Box mount recept. w/socket	97-3102A-28-21P-ND 97-3102A-28-21S-ND	29.27 30.68	18.74 21.48	16.59 19.18	97-3102A-28-21P 97-3102A-28-21S												