

# AMPHENOL 97 Series Circular Connectors **Amphenol**<sup>®</sup>

## 97 SERIES SOLDER TYPE (MIL-DTL-5015 STYLE) (CONT.)

### How to build a standard Amphenol 97 series part number:

Combine the shell part number with insert arrangement number to complete the Amphenol part number.  
 For Example: From the table below, combine a wall mount shell number (97-3100A-) with an insert number (18-16P) to create a complete Amphenol part number (97-3100A-18-16P). The standard Amphenol 97 series shells are constructed with a high grade aluminum alloy and come in an olive drab chromate finish. The blue diallyl-phthalate inserts have pre-installed silver plated contacts with solder cups. **All connectors are shipped fully assembled, labeled, and individually packaged.** For complete connector specifications and descriptions see the 2 previous pages.

\*Mouser Part No. prefix is 654- (example of full Mouser part number: 654-PT02A-8-2P)

### To make a mating receptacle - plug connection:

From the table below, select a plug combination off of the same line as the selected receptacle combination.  
 For Example: A 97-3100A-18-16P wall mount receptacle will mate with any of the plugs with the 18-16S insert.  
**Receptacles only mate with plugs on the same line.**



Recognition  
File #E115497



Certification  
File # LR 69183

RoHS versions are available. Please contact your Mouser Sales Representative.

### Receptacles

For quantities greater than listed, call for quote.

# of Pos.	Shell Size & Insert	Price Each								
		Wall Mount *97-3100A-			Cable Mount *97-3101A-			Box Mount *97-3102A-		
		1	5	10	1	5	10	1	5	10
1	18-16P	20.34	19.32	18.31	22.89	21.75	20.61	12.81	11.80	10.94
1	18-16S	25.87	24.43	22.99	28.72	27.13	25.54	17.35	16.01	14.87
2	10SL-4P	29.55	27.61	25.22	32.40	29.90	26.62	15.00	13.85	12.85
2	12S-3P	16.00	15.14	14.20	19.08	18.29	16.88	12.69	11.64	10.23
2	12S-3S	15.11	14.32	13.01	17.84	16.35	15.09	7.59	6.95	6.14
3	10SL-3P	17.04	15.50	14.20	17.29	15.60	14.12	18.68	16.80	15.74
3	14S-1P	13.83	12.68	11.18	15.44	14.16	13.06	6.84	6.11	5.44
3	14S-1S	12.75	11.78	10.93	16.23	14.34	13.23	9.37	8.05	7.26
3	14S-7P	12.63	11.82	10.86	16.48	14.55	13.44	9.20	8.43	7.75
3	14S-7S	12.63	11.64	10.78	14.80	13.65	12.49	9.42	8.54	7.88
3	16-10P	24.26	22.23	20.53	25.22	23.12	21.33	16.26	14.37	13.43
3	16-10S	22.66	20.78	19.17	22.40	20.00	18.56	13.03	11.48	10.59
4	14S-2P	13.39	11.59	10.63	16.46	14.54	13.41	9.24	8.70	8.01
4	14S-2S	14.20	13.16	11.94	14.14	12.62	11.39	10.92	10.09	9.38
4	18-4P	18.67	17.63	16.52	20.98	19.05	17.19	11.40	9.82	9.04
4	18-4S	21.07	19.14	17.66	23.86	21.52	19.30	10.76	9.93	9.22
4	18-10P	22.58	20.70	19.10	25.57	23.43	21.63	13.67	12.54	11.57
4	18-10S	24.43	22.41	20.70	23.86	22.11	20.05	14.40	13.24	11.78
4	20-4P	22.39	19.77	18.26	23.02	21.10	19.48	12.56	10.72	9.85
4	20-4S	34.14	31.29	28.89	37.77	35.66	33.51	24.07	22.22	19.78
5	14S-5S	14.88	13.74	12.75	16.60	15.35	13.38	10.65	9.96	9.36
5	16S-8P	17.92	15.84	14.61	17.83	15.80	14.67	17.92	15.84	14.61
5	16S-8S	18.51	16.35	15.09	20.10	17.76	16.39	14.12	12.20	10.40
5	18-11P	22.58	20.70	19.10	25.57	23.43	21.63	12.20	10.93	9.88
5	18-11S	24.09	22.24	20.53	33.59	32.29	29.75	14.60	13.48	12.52
6	14S-6P	15.64	14.34	13.23	16.14	14.24	12.91	11.16	9.88	8.87
6	14S-6S	16.71	13.94	12.60	16.21	14.88	13.16	10.57	9.74	8.94
6	18-12P	20.65	18.51	17.14	22.94	20.47	19.02	12.06	11.06	10.21
6	18-12S	22.58	20.70	19.10	28.31	27.52	26.98	13.90	12.51	11.57
7	16S-1P	17.52	15.48	14.29	17.46	16.08	14.89	13.53	11.63	10.53
7	16S-1S	18.56	17.13	15.81	20.27	18.57	17.15	13.24	12.92	12.54
7	20-15P	23.42	19.44	18.09	25.28	23.18	21.39	15.63	14.08	12.45
7	20-15S	31.30	28.70	26.49	33.00	30.10	28.12	22.86	20.96	19.34
7	24-2P	31.34	29.92	27.82	34.87	33.13	31.39	22.34	21.22	20.10
7	24-2S	48.69	46.93	45.17	43.02	40.87	38.73	36.49	34.97	32.45
7	28-10P	88.02	80.67	74.47	92.40	84.67	78.18	67.98	61.80	55.87
7	28-10S	115.87	106.22	98.05	120.26	110.24	101.76	93.62	86.42	80.24
8	18-8P	23.48	21.68	20.01	26.35	24.42	22.53	15.82	13.50	12.61
8	18-8S	24.45	22.41	20.70	23.86	21.48	20.05	23.33	22.74	21.98
8	20-7P	22.39	19.77	18.26	23.01	21.09	19.47	13.21	12.11	11.02
8	20-7S	33.30	31.36	30.71	24.74	22.68	20.94	13.96	12.86	11.91
9	20-16P	21.99	19.41	17.84	25.54	23.42	21.62	14.52	13.39	13.14
9	20-16S	25.24	22.52	20.92	28.17	25.82	23.84	15.45	14.26	13.24
9	24-11P	53.27	50.85	48.44	59.28	55.94	51.83	46.74	44.39	42.05
9	24-11S	112.99	108.56	94.26	61.04	58.65	54.31	51.22	49.22	45.57
10	18-1P	22.05	20.09	18.35	24.68	22.87	20.76	16.22	14.97	13.79
10	18-1S	24.24	22.37	20.76	31.14	29.06	27.15	19.45	16.79	15.87
10	18-19P	40.15	37.63	35.51	33.14	30.38	28.04	19.01	18.40	16.99
10	18-19S	26.70	25.20	23.25	27.93	25.78	23.95	18.64	17.09	15.76
14	20-27P	23.52	21.56	19.89	23.10	21.33	19.81	15.72	14.41	13.30
14	20-27S	27.73	25.43	23.46	24.61	22.94	21.18	19.01	16.44	15.09
14	22-19P	32.14	29.60	27.42	35.43	32.48	27.84	21.60	19.80	17.47
14	22-19S	33.99	31.77	29.34	35.55	33.57	29.28	35.55	33.57	29.28
16	24-5S	68.38	64.95	58.78	67.65	59.70	54.85	67.65	59.70	54.85
16	24-7P	49.35	47.10	44.85	54.89	52.13	49.38	54.89	52.13	49.38
16	24-7S	54.27	51.81	49.35	60.36	57.34	54.33	47.17	43.54	40.44
17	20-29P	28.32	25.97	23.96	27.42	25.14	23.20	25.44	25.01	24.77
17	20-29S	30.83	28.26	26.09	32.26	29.57	27.30	20.81	19.09	16.84
19	22-14P	32.00	29.34	27.08	33.54	30.74	28.38	20.92	19.26	17.85
19	22-14S	38.00	34.84	32.16	39.51	36.22	33.43	20.15	19.39	17.57
20	28-16P	60.93	55.86	51.56	59.88	55.27	51.32	49.90	47.18	43.26
20	28-16S	67.12	62.90	58.05	71.68	66.92	61.77	50.30	46.42	43.11
22	28-11P	65.56	60.09	55.47	66.32	57.42	51.30	67.50	63.84	60.71
22	28-11S	83.58	76.62	70.72	80.64	74.43	69.12	53.35	49.25	45.73
24	24-28P	58.53	55.61	52.69	58.06	53.60	49.77	51.43	45.39	40.05
24	24-28S	66.94	61.80	57.38	67.00	61.86	57.43	54.33	50.16	46.58
30	32-8P	59.44	57.11	52.88	63.11	60.64	56.15	45.57	41.43	38.98
30	32-8S	60.41	58.05	53.75	63.92	61.41	56.86	42.51	40.98	38.92
35	28-15P	77.42	67.90	63.68	81.98	76.76	70.86	63.62	60.09	55.51
35	28-15S	116.17	103.32	95.29	87.46	80.18	74.01	113.57	98.68	94.49
37	28-21P	71.72	64.90	61.50	44.78	42.73	39.88	34.89	31.50	28.96
37	28-21S	54.86	51.06	47.40	64.34	58.98	54.44	36.69	35.30	34.47

### Mating Plugs

For quantities greater than listed, call for quote.

# of Pos.	Shell Size & Insert	Price Each								
		Straight *97-3106A-			Straight w/Split Shell *97-3106B			Right Angle w/Split Shell *97-3108B		
		1	5	10	1	5	10	1	5	10
1	18-16S	23.91	21.92	20.23	26.23	24.93	23.62	39.84	37.36	35.26
1	18-16P	23.63	22.25	20.54	30.66	26.54	20.54	26.97	24.73	22.83
2	10SL-4S	27.13	24.37	21.62	-	-	-	36.04	33.18	28.62
2	12S-3S	12.30	11.99	10.73	-	-	-	22.29	20.43	18.86
2	12S-3P	11.48	10.60	9.83	-	-	-	22.18	20.34	18.78
3	10SL-3S	12.20	11.18	10.80	-	-	-	38.76	35.74	33.19
3	14S-1S	14.95	12.46	11.50	17.71	16.30	15.10	17.03	15.30	13.58
3	14S-1P	13.50	11.94	10.82	17.88	16.88	15.63	16.78	14.99	13.21
3	14S-7S	13.57	12.44	10.66	18.14	17.13	16.12	17.03	16.08	14.55
3	14S-7P	13.94	12.25	11.24	18.42	17.34	16.00	17.32	16.28	15.02
3	16-10S	24.85	22.86	20.50	-	-	-	26.77	24.54	22.65
3	16-10P	20.82	19.70	18.16	-	-	-	28.36	26.00	24.00
4	14S-2S	14.74	14.06	13.39	25.29	23.82	20.54	19.37	16.51	15.24
4	14S-2P	11.27	10.55	10.20	23.85	20.85	18.86	16.15	14.91	13.84
4	18-4S	17.48	15.97	14.70	21.04	19.50	17.67	22.84	20.72	18.61
4	18-4P	15.19	13.72	12.51	19.48	18.51	17.54	24.17	22.16	20.44
4	18-10S	18.62	17.18	15.09	24.59	23.37	22.15	26.71	24.15	22.29
4	18-10P	19.35	18.53	17.82	22.15	20.53	18.61	31.39	30.42	29.19
4	20-4S	30.30	29.28	27.85	42.72	39.15	36.14	40.56	35.41	31.87
4	20-4P	22.27	20.42	18.85	30.18	27.66	25.53	28.02	25.68	23.70
5	14S-5P	13.58	13.13	12.68	19.21	18.14	16.98	17.25	15.93	14.79
5	16S-8S	14.74	13.52	12.48	26.70	24.48	22.59	19.21	18.64	17.28
5	16S-8P	15.14	13.93	12.84	36.55	34.52	32.48	19.89	18.78	17.58
5	18-11S	17.37	17.12	16.86	25.33	24.06	22.79	29.58	27.13	25.04
5	18-11P	18.19	16.17	14.98	23.52	22.34	21.16	27.22	24.94	23.04
6	14S-6S	14.30	13.35	12.23	20.71	18.14	16.8			