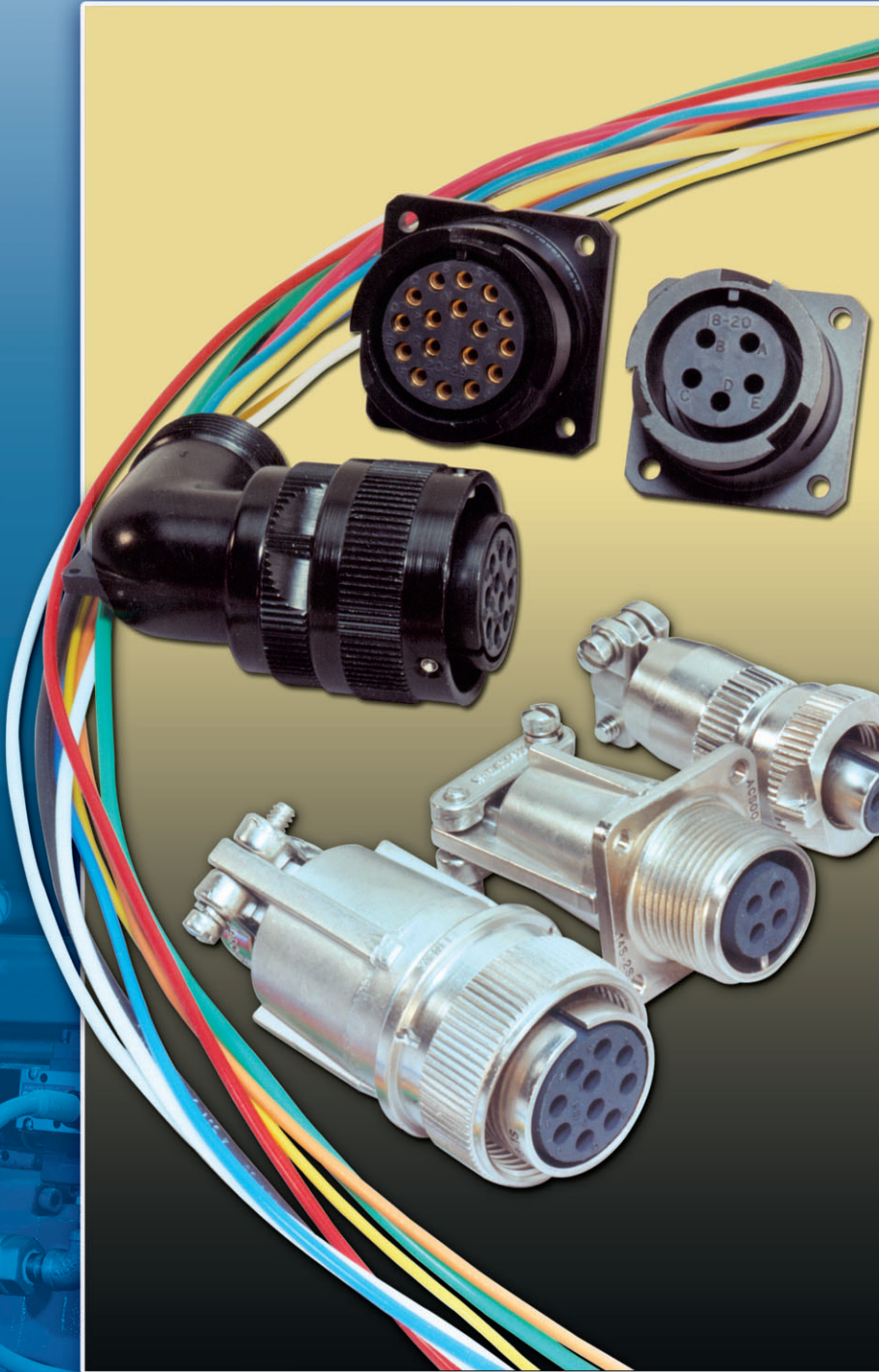


# Amphenol® AC, AC-B Series Industrial Cylindrical Connectors

12-025-4



# Amphenol



Amphenol

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For additional information on AC, AC-B Series Connectors, or for special application requirements, contact your local sales office or

Amphenol Corporation  
Amphenol Industrial Operations  
40 – 60 Delaware Avenue  
Sidney, New York 13838-1395  
Telephone: 607-563-5011  
Fax: 607-563-5157  
**[www.amphenol-industrial.com](http://www.amphenol-industrial.com)**

Ask for the Amphenol Industrial Connector Brochure, SL-381, for an overview of the industrial family of connectors offered.

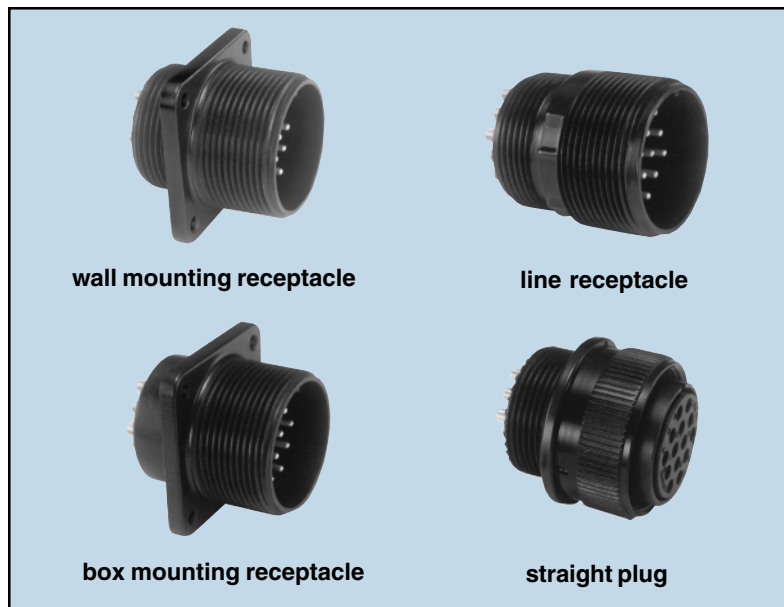
Amphenol Brochure SL-100 provides an overview of all products, military and industrial, offered through Amphenol Aerospace and Amphenol Industrial Operations.

Amphenol Aerospace is a Certified ISO 9001 Manufacturer.

# Amphenol® AC, AC-B Series

industrial application connector, offered in threaded and reverse bayonet styles

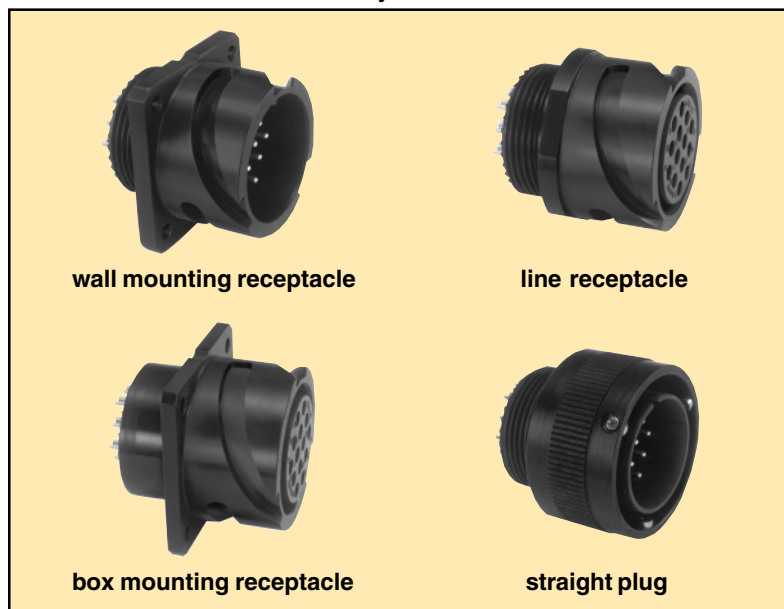
## AC Threaded Series



Designed with the industrial user in mind, for widely diverse applications such as mass transportation, automotive, heavy equipment and geophysical industries, and for the entertainment/ lighting industries, the new AC Series of Connectors offer the following features:

- Rugged aluminum shells
- Durability and reliability
- Environmentally acceptable shell plating options -
  - Conductive and non-conductive
- Single key/keyway shell polarization
- Five shell styles in sizes 10SL to 40
- Threaded or reverse bayonet couplings
- Various backshells
- Resilient inserts -
  - Outstanding moisture barrier
  - High dielectric strength
  - High resistance to vibration
- Over 275 insert patterns available
- Alternate insert positioning
- Machined contacts -
  - Maximum corrosion resistance
  - Maximum current capacity
  - Low millivolt drop
- Solder and crimp contacts - silver plated or optional gold plating
- General duty and environmental versions
- -55° C to +125° C operating temp. range
- Standard application tools

## AC-B Bayonet Series



**AC-B Reverse Bayonet Connectors offer the following additional features:**

- Quick positive coupling - one quarter turn
- Audible and tactile indication of full coupling
- 500 matings minimum
- No lockwiring required

## AC Threaded Connectors with RADSOK® High Amperage Contacts

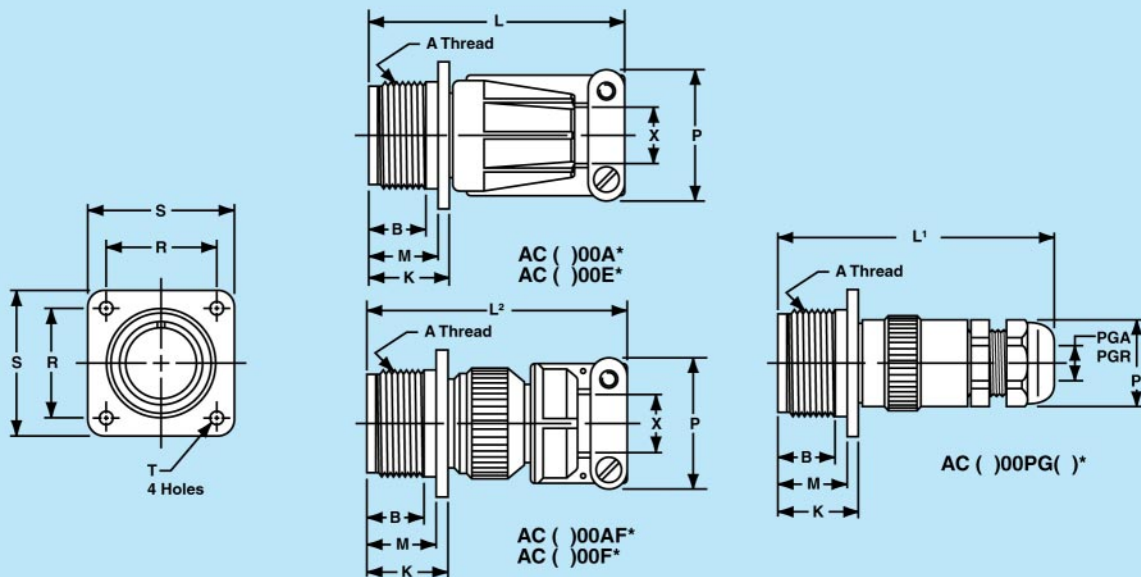


**Amphe-Power™ Connectors - AC Threaded Connectors with RADSOK® contacts are also available. These are high amperage capability connectors designed for the most demanding industrial and transportation applications.**

- The RADSOK contact will handle up to 150% higher amperages than standard contacts.
- Current Amphe-Power lines support from 50A to 500A continuous duty.
- RADSOK contacts are available in size 8 (69 amps), size 4 (120 amps), and size 0 (250 amps).

See page 41 for more information.

# AC Threaded wall mounting receptacle



\* To complete order number, see how to order, page 40.

Inches

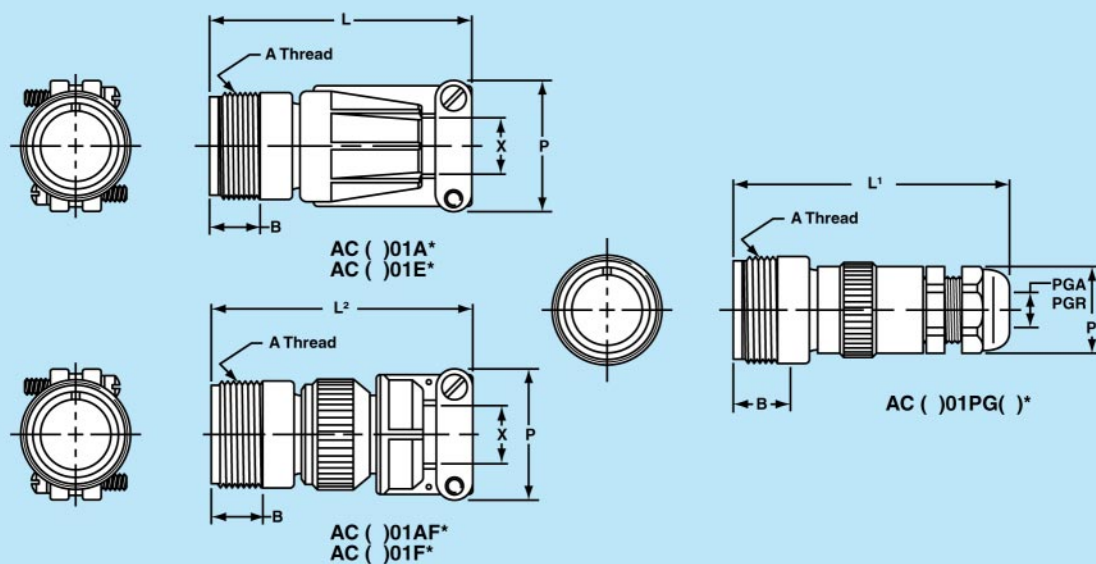
Shell Size	A Thread Class 2A	B Min Full Thread	K +.020 -.010	L Max	L' Max	L2 Max	M +.010 -.000	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	R ±.005	S ±.010	T Dia +.004 -.002	X Max O.D. Cable
10SL	.6250-24UNEF	.391	.672	2.129	3.010	2.189	.562	.894	.750	.150/.320	.070/.240	.719	1.000	.120	.312
12S	.7500-20UNEF	.450	.672	2.129	3.010	2.261	.562	.894	.750	.150/.320	.070/.240	.812	1.094	.120	.312
12	.7500-20UNEF	.625	.860	2.524	3.500	2.644	.750	.894	.750	.150/.320	.070/.240	.812	1.094	.120	.312
14S	.8750-20UNEF	.450	.672	2.201	3.188	2.261	.562	1.083	.880	.190/.390	.110/.280	.906	1.188	.120	.438
14	.8750-20UNEF	.625	.860	2.524	3.641	2.644	.750	1.083	.880	.190/.390	.110/.280	.906	1.188	.120	.438
16S	1.0000-20UNEF	.450	.672	2.201	3.265	2.266	.562	1.181	.940	.230/.470	.190/.350	.969	1.281	.120	.531
16	1.0000-20UNEF	.625	.860	2.524	3.718	2.644	.750	1.181	.940	.230/.470	.190/.350	.969	1.281	.120	.531
18	1.1250-18UNEF	.625	.891	2.596	3.718	2.716	.750	1.300	.940	.230/.470	.190/.350	1.063	1.375	.120	.625
20	1.2500-18UNEF	.625	.891	2.654	3.798	2.774	.750	1.487	1.060	.390/.560	.270/.470	1.156	1.500	.120	.750
22	1.3750-18UNEF	.625	.891	2.654	4.080	2.916	.750	1.487	1.060	.390/.560	.270/.470	1.250	1.625	.120	.750
24	1.5000-18UNEF	.625	.953	2.885	4.142	3.051	.812	1.712	1.060	.390/.560	.270/.470	1.375	1.750	.147	.938
28	1.7500-18UNS	.625	.953	2.885	4.291	3.140	.812	1.712	1.300	.510/.710	.350/.630	1.562	2.000	.147	.938
32	2.0000-18UNS	.625	1.031	2.943	4.643	3.184	.875	2.063	1.650	.700/.980	.510/.790	1.750	2.250	.173	1.250
36	2.2500-16UN	.625	1.031	2.943	4.643	3.245	.875	2.283	1.650	.700/.980	.510/.790	1.938	2.500	.173	1.375
40	2.5000-16UN	.625	1.031	3.068	5.635	3.670	.875	2.688	1.650	.700/.980	.510/.790	2.188	2.750	.173	1.625

Millimeters

Shell Size	B Min Full Thread	K +.51 -.25	L Max	L' Max	L2 Max	M +.25 -.00	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	R ±.13	S ±.25	T Dia +.10 -.05	X Max O.D. Cable
10SL	9.93	17.07	54.08	76.45	55.60	14.28	22.71	19.05	3.81/8.13	1.78/6.10	18.26	25.40	3.05	7.93
12S	11.43	17.07	54.08	76.45	57.43	14.28	22.71	19.05	3.81/8.13	1.78/6.10	20.63	27.79	3.05	7.93
12	15.88	21.84	64.11	88.90	67.16	19.05	22.71	19.05	3.81/8.13	1.78/6.10	20.63	27.79	3.05	7.93
14S	11.43	17.07	55.91	80.98	57.43	14.28	27.51	22.35	4.83/9.91	2.79/7.11	23.01	30.18	3.05	11.13
14	15.88	21.84	64.11	92.48	67.16	19.05	27.51	22.35	4.83/9.91	2.79/7.11	23.01	30.18	3.05	11.13
16S	11.43	17.07	55.91	82.93	57.56	14.28	30.00	23.88	5.84/11.94	4.83/8.89	24.61	32.54	3.05	13.49
16	15.88	21.84	64.11	94.44	67.16	19.05	30.00	23.88	5.84/11.94	4.83/8.89	24.61	32.54	3.05	13.49
18	15.88	22.63	65.94	94.44	68.99	19.05	33.02	23.88	5.84/11.94	4.83/8.89	27.00	34.93	3.05	15.88
20	15.88	22.63	67.41	96.47	70.46	19.05	37.77	26.92	9.91/14.22	6.86/11.94	29.36	38.10	3.05	19.05
22	15.88	22.63	67.41	103.63	74.07	19.05	37.77	26.92	9.91/14.22	6.86/11.94	31.75	41.28	3.05	19.05
24	15.88	24.21	73.28	105.21	77.50	20.63	43.49	26.92	9.91/14.22	6.86/11.94	34.93	44.45	3.73	23.83
28	15.88	24.21	73.28	108.99	79.76	20.63	43.49	33.02	12.95/18.03	8.89/16.00	39.68	50.80	3.73	23.83
32	15.88	26.19	74.75	117.93	80.87	22.23	52.40	41.91	17.78/24.89	12.95/20.07	44.45	57.15	4.39	31.75
36	15.88	26.19	74.75	117.93	82.42	22.23	57.99	41.91	17.78/24.89	12.95/20.07	49.23	63.50	4.39	34.93
40	15.88	26.19	77.93	143.13	93.22	22.23	68.28	41.91	17.78/24.89	12.95/20.07	55.58	69.85	4.39	41.28

All dimensions for reference only.

# AC Threaded line receptacle



\* To complete order number, see how to order, page 40.

Inches

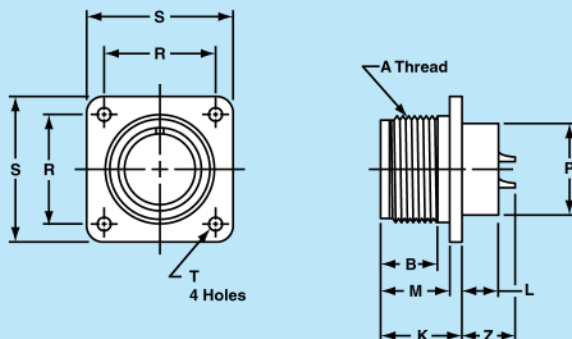
Shell Size	A Thread Class 2 A	B Min Full Thread	L Max	L' Max	L'' Max	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	X Max O.D. Cable
10SL	.6250-24UNEF	.406	2.129	3.010	2.189	.894	.750	.150/.320	.070/.240	.312
12S	.7500-20UNEF	.422	2.129	3.010	2.261	.894	.750	.150/.320	.070/.240	.312
12	.7500-20UNEF	.656	2.524	3.500	2.644	.894	.750	.150/.320	.070/.240	.312
14S	.8750-20UNEF	.391	2.201	3.188	2.261	1.083	.880	.190/.390	.110/.280	.438
14	.8750-20UNEF	.625	2.524	3.641	2.644	1.083	.880	.190/.390	.110/.280	.438
16S	1.0000-20UNEF	.391	2.201	3.265	2.266	1.181	.940	.230/.470	.190/.350	.531
16	1.0000-20UNEF	.625	2.524	3.718	2.644	1.181	.940	.230/.470	.190/.350	.531
18	1.1250-18UNEF	.625	2.596	3.718	2.716	1.300	.940	.230/.470	.190/.350	.625
20	1.2500-18UNEF	.625	2.654	3.798	2.774	1.487	1.060	.390/.560	.270/.470	.750
22	1.3750-18UNEF	.625	2.654	4.080	2.916	1.487	1.060	.390/.560	.270/.470	.750
24	1.5000-18UNEF	.625	2.885	4.142	3.051	1.712	1.060	.390/.560	.270/.470	.938
28	1.7500-18UNS	.625	2.885	4.291	3.140	1.712	1.300	.510/.710	.350/.630	.938
32	2.0000-18UNS	.625	2.943	4.643	3.184	2.063	1.650	.700/.980	.510/.790	1.250
36	2.2500-16UN	.625	2.943	4.643	3.245	2.283	1.650	.700/.980	.510/.790	1.375
40	2.5000-16UN	.625	3.068	5.635	3.670	2.688	1.650	.700/.980	.510/.790	1.625

Millimeters

Shell Size	B Min Full Thread	L Max	L' Max	L'' Max	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	X Max O.D. Cable
10SL	10.31	54.08	76.45	55.60	22.71	19.05	3.81/8.13	1.78/6.10	7.93
12S	10.72	54.08	76.45	57.43	22.71	19.05	3.81/8.13	1.78/6.10	7.93
12	16.66	64.11	88.90	67.16	22.71	19.05	3.81/8.13	1.78/6.10	7.93
14S	9.93	55.91	80.98	57.43	27.51	22.35	4.83/9.91	2.79/7.11	11.13
14	15.88	64.11	92.48	67.16	27.51	22.35	4.83/9.91	2.79/7.11	11.13
16S	9.93	55.91	82.93	57.56	30.00	23.88	5.84/11.94	4.83/8.89	13.49
16	15.88	64.11	94.44	67.16	30.00	23.88	5.84/11.94	4.83/8.89	13.49
18	15.88	65.94	94.44	68.99	33.02	23.88	5.84/11.94	4.83/8.89	15.88
20	15.88	67.41	96.47	70.46	37.77	26.92	9.91/14.22	6.86/11.94	19.05
22	15.88	67.41	103.63	74.07	37.77	26.92	9.91/14.22	6.86/11.94	19.05
24	15.88	73.28	105.21	77.50	43.49	26.92	9.91/14.22	6.86/11.94	23.83
28	15.88	73.28	108.99	79.76	43.49	33.02	12.95/18.03	8.89/16.00	23.83
32	15.88	74.75	117.93	80.87	52.40	41.91	17.78/24.89	12.95/20.07	31.75
36	15.88	74.75	117.93	82.42	57.99	41.91	17.78/24.89	12.95/20.07	34.93
40	15.88	77.93	143.13	93.22	68.28	41.91	17.78/24.89	12.95/20.07	41.28

All dimensions for reference only.

# AC Threaded box mounting receptacle



AC ( )02A\*  
AC ( )02E\*

\* To complete order number, see how to order, page 40.

Inches

Shell Size	A Thread Class 2 A	B Min Full Thread	K +.020 - .010	L +.000 - .010	M +.010 - .000	P Dia +.010 - .000	R ±.005	S ±.031	T Dia +.004 - .002	Z Max**
8S	.5000-28UNEF	.391	.672	.297	.562	.375	.594	.875	.120	.519
10S	.6250-24NEF	.391	.672	.297	.562	.500	.719	1.000	.120	.519
10SL	.6250-24NEF	.391	.672	.297	.562	.625	.719	1.000	.120	.519
12S	.7500-20UNEF	.450	.672	.297	.562	.625	.812	1.094	.120	.519
12	.7500-20UNEF	.625	.860	.484	.750	.625	.812	1.094	.120	.722
14S	.8750-20UNEF	.450	.672	.297	.562	.750	.906	1.188	.120	.519
14	.8750-20UNEF	.625	.860	.484	.750	.750	.906	1.188	.120	.722
16S	1.0000-20UNEF	.450	.672	.297	.562	.875	.969	1.281	.120	.519
16	1.0000-20UNEF	.625	.860	.484	.750	.875	.969	1.281	.120	.722
18	1.1250-18NEF	.625	.891	.453	.750	1.000	1.062	1.375	.120	.691
20	1.2500-18NEF	.625	.891	.453	.750	1.125	1.156	1.500	.120	.691
22	1.3750-18NEF	.625	.891	.453	.750	1.250	1.250	1.625	.120	.691
24	1.5000-18NEF	.625	.953	.453	.812	1.375	1.375	1.750	.147	.628
28	1.7500-18NS	.625	.953	.453	.812	1.625	1.562	2.000	.147	.628
32	2.0000-18NS	.625	1.031	.438	.875	1.875	1.750	2.250	.173	.550
36	2.2500-16UN	.625	1.031	.438	.875	2.062	1.938	2.500	.173	.550
40	2.5000-16UN	.625	1.031	.438	.875	2.312	2.188	2.750	.173	.550

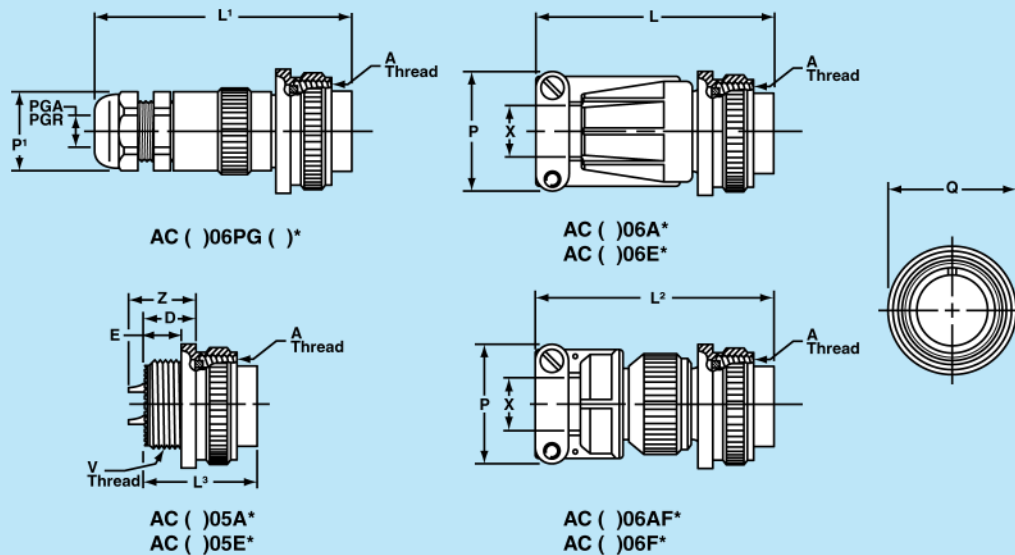
Millimeters

Shell Size	B Min Full Thread	K +.51 - .25	L +.00 - .25	M +.25 - .00	P Dia +.25 - .00	R ±.13	S ±.79	T Dia +.10 - .05	Z Max**
8S	9.93	17.07	7.54	14.28	9.53	15.09	22.23	3.05	13.18
10S	9.93	17.07	7.54	14.28	12.70	18.26	25.40	3.05	13.18
10SL	9.93	17.07	7.54	14.28	15.88	18.26	25.40	3.05	13.18
12S	11.43	17.07	7.54	14.28	15.88	20.63	27.79	3.05	13.18
12	15.88	21.84	12.29	19.05	15.88	20.63	27.79	3.05	18.34
14S	11.43	17.07	7.54	14.28	19.05	23.01	30.18	3.05	13.18
14	15.88	21.84	12.29	19.05	19.05	23.01	30.18	3.05	18.34
16S	11.43	17.07	7.54	14.28	22.23	24.61	32.54	3.05	13.18
16	15.88	21.84	12.29	19.05	22.23	24.61	32.54	3.05	18.34
18	15.88	22.63	11.51	19.05	25.40	26.98	34.93	3.05	17.55
20	15.88	22.63	11.51	19.05	28.58	29.36	38.10	3.05	17.55
22	15.88	22.63	11.51	19.05	31.75	31.75	41.28	3.05	17.55
24	15.88	24.21	11.51	20.63	34.93	34.93	44.45	3.73	15.95
28	15.88	24.21	11.51	20.63	41.28	39.68	50.80	3.73	15.95
32	15.88	26.19	11.13	22.23	47.63	44.45	57.15	4.39	13.97
36	15.88	26.19	11.13	22.23	52.38	49.23	63.50	4.39	13.97
40	15.88	26.19	11.13	22.23	58.73	55.58	69.85	4.39	13.97

\*\* Increase Z dimension by .312 for size "0" contact only.

All dimensions for reference only.

# AC Threaded straight plug



\* To complete order number, see how to order, page 40.

Inches

Shell Size	A Thread Class 2B	D $\pm.010$	E $+.020$ $-.030$	L Max	L' Max	L <sup>2</sup> Max	L <sup>3</sup> Max	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	Q Max	V Thread Plated Class 2A	X Max O.D. Cable	Z $\pm.045$
10SL	.6250-24UNEF	.438	.298	2.129	3.010	2.189	.989	.894	.750	.150/.320	.070/.240	.946	.6250-24UNEF	.312	.562
12S	.7500-20UNEF	.438	.312	2.129	3.010	2.261	.989	.894	.750	.150/.320	.070/.240	.995	.6250-24UNEF	.312	.562
12	.7500-20UNEF	.625	.469	2.524	3.500	2.644	1.364	.894	.750	.150/.320	.070/.240	.995	.6250-24UNEF	.312	.812
14S	.8750-20UNEF	.438	.312	2.201	3.188	2.261	.989	1.083	.880	.190/.390	.110/.280	1.123	.7500-20UNEF	.438	.562
14	.8750-20UNEF	.625	.469	2.524	3.641	2.644	1.364	1.083	.880	.190/.390	.110/.280	1.123	.7500-20UNEF	.438	.812
16S	1.0000-20UNEF	.438	.312	2.201	3.265	2.266	.989	1.181	.940	.230/.470	.190/.350	1.250	.8750-20UNEF	.531	.562
16	1.0000-20UNEF	.625	.469	2.524	3.718	2.644	1.364	1.181	.940	.230/.470	.190/.350	1.250	.8750-20UNEF	.531	.812
18	1.1250-18UNEF	.625	.469	2.596	3.718	2.716	1.364	1.300	.940	.230/.470	.190/.350	1.333	1.0000-20UNEF	.625	.812
20	1.2500-18UNEF	.625	.469	2.654	3.798	2.774	1.364	1.487	1.060	.390/.560	.270/.470	1.461	1.1250-18UNEF	.750	.812
22	1.3750-18UNEF	.625	.469	2.654	4.080	2.916	1.364	1.487	1.060	.390/.560	.270/.470	1.588	1.2500-18UNEF	.750	.812
24	1.5000-18UNEF	.688	.469	2.885	4.142	3.051	1.427	1.712	1.060	.390/.560	.270/.470	1.715	1.3750-18UNEF	.938	.812
28	1.7500-18UNS	.688	.469	2.885	4.291	3.140	1.427	1.712	1.300	.510/.710	.350/.630	1.968	1.6250-18UNEF	.938	.812
32	2.0000-18UNS	.750	.469	2.943	4.643	3.184	1.489	2.063	1.650	.700/.980	.510/.790	2.209	1.8750-16UN	1.250	.812
36	2.2500-16UN	.750	.469	2.943	4.643	3.245	1.489	2.283	1.650	.700/.980	.510/.790	2.463	2.0625-16UN	1.375	.812
40	2.5000-16UN	.750	.469	3.068	5.635	3.670	1.489	2.688	1.650	.700/.980	.510/.790	2.718	2.3125-16UN	1.625	.812

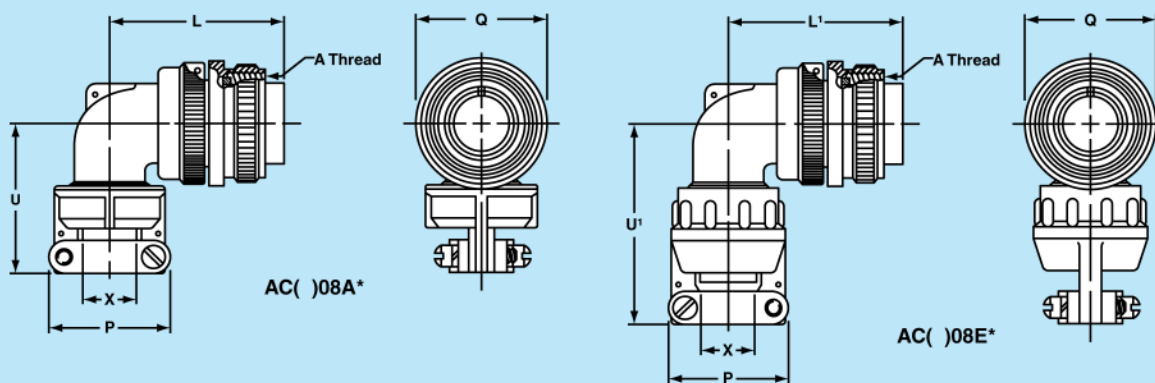
Millimeters

Shell Size	D $\pm.25$	E $+.51$ $-.76$	L Max	L' Max	L <sup>2</sup> Max	L <sup>3</sup> Max	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	Q Max	X Max O.D. Cable	Z $\pm 1.14$
10SL	11.13	7.57	54.08	76.45	55.60	25.12	22.71	19.05	3.81/8.13	1.78/6.10	24.03	7.93	14.28
12S	11.13	7.93	54.08	76.45	57.43	25.12	22.71	19.05	3.81/8.13	1.78/6.10	25.27	7.93	14.28
12	15.88	11.91	64.11	88.90	67.16	34.65	22.71	19.05	3.81/8.13	1.78/6.10	25.27	7.93	20.63
14S	11.13	7.93	55.91	80.98	57.43	25.12	27.51	22.35	4.83/9.91	2.79/7.11	28.52	11.13	14.28
14	15.88	11.91	64.11	92.48	67.16	34.65	27.51	22.35	4.83/9.91	2.79/7.11	28.52	11.13	20.63
16S	11.13	7.93	55.91	82.93	57.56	25.12	30.00	23.88	5.84/11.94	4.83/8.89	31.75	13.49	14.28
16	15.88	11.91	64.11	94.44	67.16	34.65	30.00	23.88	5.84/11.94	4.83/8.89	31.75	13.49	20.63
18	15.88	11.91	65.94	94.44	68.99	34.65	33.02	23.88	5.84/11.94	4.83/8.89	33.86	15.88	20.63
20	15.88	11.91	67.41	96.47	70.46	34.65	37.77	26.92	9.91/14.22	6.86/11.94	37.11	19.05	20.63
22	15.88	11.91	67.41	103.63	74.07	34.65	37.77	26.92	9.91/14.22	6.86/11.94	40.34	19.05	20.63
24	17.48	11.91	73.28	105.21	77.50	36.25	43.49	26.92	9.91/14.22	6.86/11.94	43.56	23.83	20.63
28	17.48	11.91	73.28	108.99	79.76	36.25	43.49	33.02	12.95/18.03	8.89/16.00	49.99	23.83	20.63
32	19.05	11.91	74.75	117.93	80.87	37.82	52.40	41.91	17.78/24.89	12.95/20.07	56.11	31.75	20.63
36	19.05	11.91	74.75	117.93	82.42	37.82	57.99	41.91	17.78/24.89	12.95/20.07	62.56	34.93	20.63
40	19.05	11.91	77.93	143.13	93.22	37.82	68.28	41.91	17.78/24.89	12.95/20.07	69.04	41.28	20.63

All dimensions for reference only.

# AC Threaded

## 90 degree plug



\* To complete order number, see how to order, page 40.

Inches

Shell Size	A Thread Class 2B	L Max	L' Max	P Max	Q Dia Max	U Max	U' Max	X Max O.D. Cable
10SL	.6250-24NEF	1.492	1.492	.906	.946	1.305	1.812	.312
12S	.7500-20UNEF	1.492	1.492	.906	.995	1.305	1.812	.312
12	.7500-20UNEF	1.867	1.867	.906	.995	1.305	1.812	.312
14S	.8750-20UNEF	1.556	1.556	1.031	1.123	1.485	1.875	.438
14	.8750-20UNEF	1.931	1.931	1.031	1.123	1.485	1.875	.438
16S	1.0000-20UNEF	1.682	1.682	1.125	1.250	1.612	1.937	.531
16	1.0000-20UNEF	2.057	2.057	1.125	1.250	1.612	1.937	.531
18	1.1250-18NEF	2.119	2.119	1.234	1.333	1.738	2.109	.625
20	1.2500-18NEF	2.369	2.322	1.484	1.461	1.800	2.187	.750
22	1.3750-18NEF	2.369	2.322	1.484	1.588	1.862	2.250	.750
24	1.5000-18NEF	2.620	2.510	1.683	1.715	2.100	2.484	.938
28	1.7500-18NS	2.620	2.510	1.683	1.968	2.162	2.546	.938
32	2.0000-18NS	2.842	2.744	2.188	2.209	2.405	3.045	1.250
36	2.2500-16UN	2.900	2.869	2.344	2.463	2.536	3.218	1.375
40	2.5000-16UN	3.025	2.994	2.688	2.719	3.206	3.375	1.625

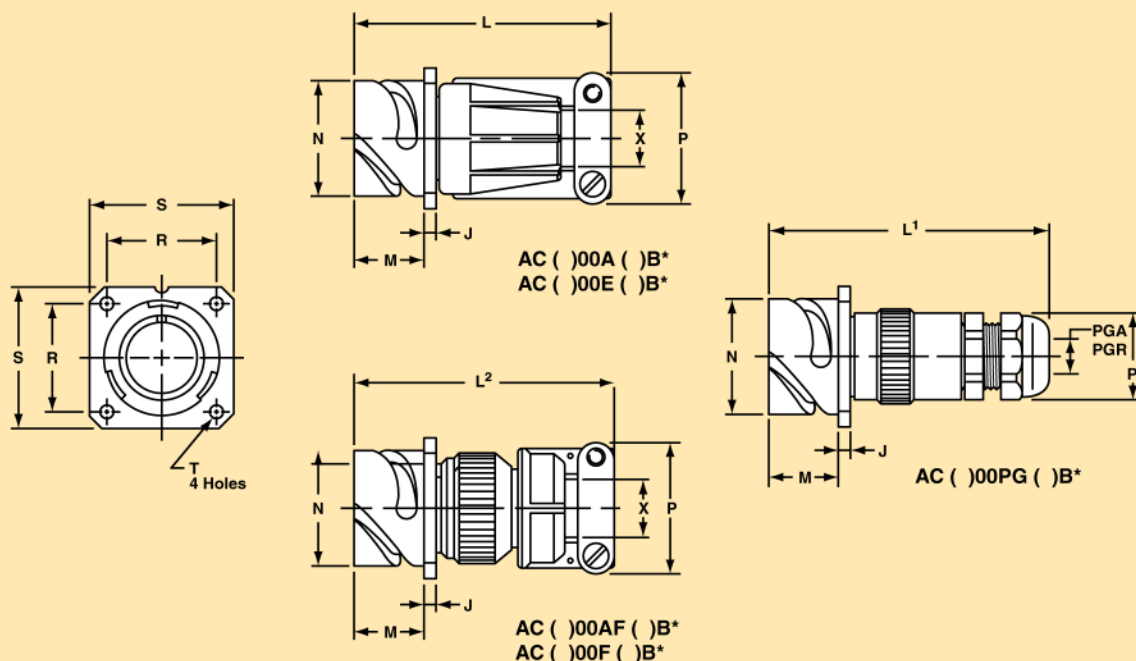
Millimeters

Shell Size	L Max	L' Max	P Max	Q Dia Max	U Max	U' Max	X Max O.D. Cable
10SL	37.90	37.90	23.01	24.03	33.15	46.03	7.93
12S	37.90	37.90	23.01	25.27	33.15	46.03	7.93
12	47.42	47.42	23.01	25.27	33.15	46.03	7.93
14S	39.52	39.52	26.19	28.52	37.72	47.63	11.13
14	49.05	49.05	26.19	28.52	37.72	47.63	11.13
16S	42.72	42.72	28.58	31.75	40.95	49.20	13.49
16	52.25	52.25	28.58	31.75	40.95	49.20	13.49
18	53.82	53.82	31.34	33.86	44.15	53.57	15.88
20	60.17	58.98	37.69	37.11	45.72	55.55	19.05
22	60.17	58.98	37.69	40.34	47.30	57.15	19.05
24	66.55	63.75	42.75	43.56	53.34	63.09	23.83
28	66.55	63.75	42.75	49.99	54.92	64.67	23.83
32	72.19	69.70	55.58	56.11	61.09	77.34	31.75
36	73.66	72.87	59.54	62.56	64.41	81.74	34.93
40	76.84	76.05	68.28	69.06	81.43	85.73	41.28

All dimensions for reference only.

# AC-B Bayonet

## wall mounting receptacle



\* To complete order number, see how to order, page 40.

Inches

Shell Size	J ±.008	L Max	L1 Max	L2 Max	M +.016 -.000	N +.000 -.006	P Max	P1 Hex Flats Ref	PGA Ref	PGR Ref	R ±.004	S ±.012	T Dia +.004 -.002	X Max O.D. Cable
10SL	.110	2.502	3.307	2.362	.717	.717	.894	.750	.150/.320	.070/.240	.717	1.000	.126	.312
14S	.126	2.554	3.498	2.440	.717	.969	1.083	.880	.190/.390	.110/.280	.906	1.180	.126	.438
16S	.126	2.592	3.575	2.756	.717	1.079	1.181	.940	.230/.470	.190/.350	.969	1.280	.126	.531
16	.126	2.836	3.898	2.756	.846	1.079	1.181	.940	.230/.470	.190/.350	.969	1.280	.126	.531
18	.157	2.833	3.898	3.031	.907	1.213	1.300	.940	.230/.470	.190/.350	1.063	1.380	.126	.625
20	.157	2.913	3.978	3.031	.907	1.346	1.487	1.060	.390/.560	.270/.470	1.157	1.496	.126	.750
22	.157	2.893	4.259	3.031	.907	1.472	1.487	1.060	.390/.560	.270/.470	1.252	1.614	.126	.750
24	.157	3.101	4.303	3.346	.907	1.610	1.712	1.060	.390/.560	.270/.470	1.374	1.750	.146	.938
28	.157	3.101	4.483	3.346	.947	1.839	1.712	1.300	.510/.710	.350/.630	1.563	2.000	.146	.938
32	.157	3.306	4.796	3.346	.947	2.102	2.063	1.650	.700/.980	.510/.790	1.752	2.248	.169	1.250
36	.157	3.288	4.796	4.134	.947	2.346	2.283	1.650	.700/.980	.510/.790	1.937	2.500	.169	1.375
40	.157	3.046	4.796	5.118	.947	2.579	2.688	1.650	.700/.980	.510/.790	2.185	2.750	.169	1.625

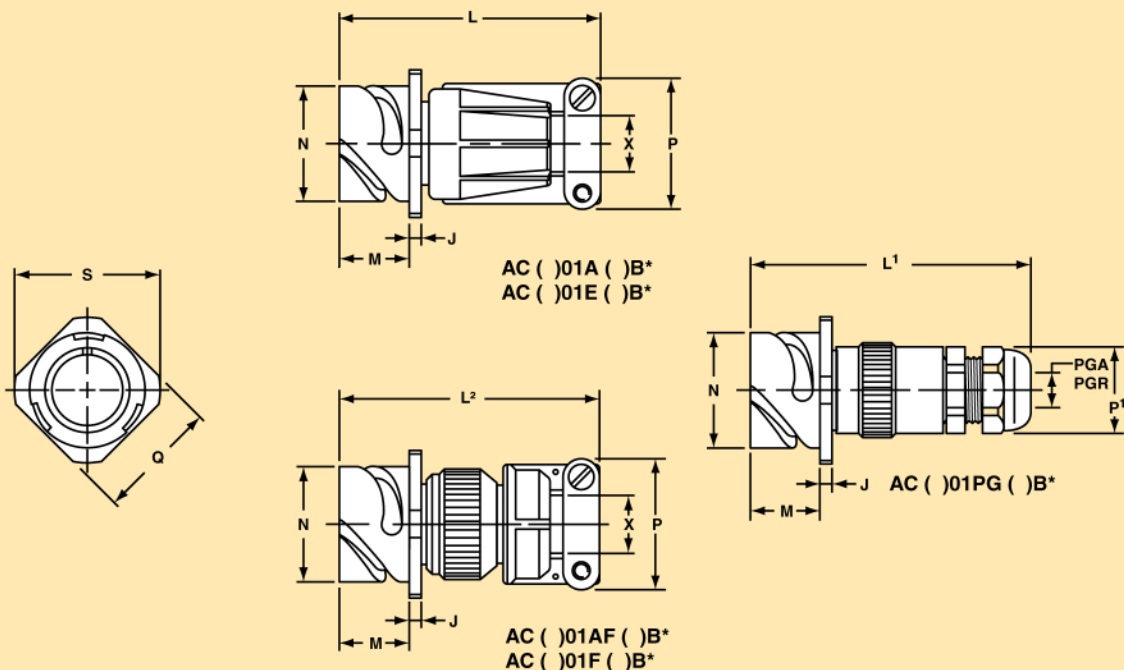
Millimeters

Shell Size	J ±.20	L Max	L1 Max	L2 Max	M +.41 -.00	N +.00 -.15	P Max	P1 Hex Flats Ref	PGA Ref	PGR Ref	R ±.10	S ±.30	T Dia +.10 -.05	X Max O.D. Cable
10SL	2.79	63.55	84.00	60.00	18.21	18.21	22.71	19.05	3.81/8.13	1.78/6.10	18.21	25.40	3.20	7.93
14S	3.20	64.87	88.85	61.98	18.21	24.61	27.51	22.35	4.83/9.91	2.79/7.11	23.01	29.97	3.20	11.13
16S	3.20	65.84	90.81	70.00	18.21	27.41	30.00	23.88	5.84/11.94	4.83/8.89	24.61	32.51	3.20	13.49
16	3.20	72.03	99.01	70.00	21.49	27.41	30.00	23.88	5.84/11.94	4.83/8.89	24.61	32.51	3.20	13.49
18	3.99	71.96	99.01	76.99	23.04	30.81	33.02	23.88	5.84/11.94	4.83/8.89	27.00	35.05	3.20	15.88
20	3.99	73.99	101.04	76.99	23.04	34.19	37.77	26.92	9.91/14.22	6.86/11.94	29.39	38.00	3.20	19.05
22	3.99	73.48	108.18	76.99	23.04	37.39	37.77	26.92	9.91/14.22	6.86/11.94	31.80	41.00	3.20	19.05
24	3.99	78.77	109.30	84.99	23.04	40.89	43.49	26.92	9.91/14.22	6.856/11.94	34.90	44.45	3.71	23.83
28	3.99	78.77	113.87	84.99	24.05	46.71	43.49	33.02	12.95/18.03	8.89/16.00	39.70	50.80	3.71	23.83
32	3.99	83.97	121.82	84.99	24.05	53.39	52.40	41.91	17.78/24.89	12.95/20.07	44.50	57.10	4.29	31.75
36	3.99	83.52	121.82	105.00	24.05	59.59	57.99	41.91	17.78/24.89	12.95/20.07	49.20	63.50	4.29	34.93
40	3.99	77.37	121.82	130.00	24.05	65.51	68.28	41.91	17.78/24.89	12.95/20.07	55.50	69.85	4.29	41.28

All dimensions for reference only.

# AC-B Bayonet

## line receptacle



\* To complete order number, see how to order, page 40.

Inches

Shell Size	J ±.008	L Max	L <sup>1</sup> Max	L <sup>2</sup> Max	M +.016 -.000	N +.000 -.006	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	Q ±.008	S Max	X Max O.D. Cable
10SL	.110	2.502	3.307	2.362	.717	.717	.894	.750	.150/.320	.070/.240	.811	.992	.312
14S	.126	2.554	3.498	2.440	.717	.969	1.083	.880	.190/.390	.110/.280	1.000	1.173	.438
16S	.126	2.592	3.575	2.756	.717	1.079	1.181	.940	.230/.470	.190/.350	1.126	1.272	.531
16	.126	2.836	3.898	2.756	.846	1.079	1.181	.940	.230/.470	.190/.350	1.126	1.272	.531
18	.157	2.833	3.898	3.031	.907	1.213	1.300	.940	.230/.470	.190/.350	1.248	1.370	.625
20	.157	2.913	3.978	3.031	.907	1.346	1.487	1.060	.390/.560	.270/.470	1.374	1.488	.750
22	.157	2.893	4.259	3.031	.907	1.472	1.487	1.060	.390/.560	.270/.470	1.500	1.618	.750
24	.157	3.101	4.303	3.346	.907	1.610	1.712	1.060	.390/.560	.270/.470	1.626	1.756	.938
28	.157	3.101	4.483	3.346	.947	1.839	1.712	1.300	.510/.710	.350/.630	1.874	2.004	.938
32	.157	3.306	4.796	3.346	.947	2.102	2.063	1.650	.700/.980	.510/.790	2.126	2.248	1.250
36	.157	3.288	4.796	4.134	.947	2.346	2.283	1.650	.700/.980	.510/.790	2.386	2.504	1.375
40	.157	3.046	4.796	5.118	.947	2.579	2.688	1.650	.700/.980	.510/.790	2.618	2.756	1.625

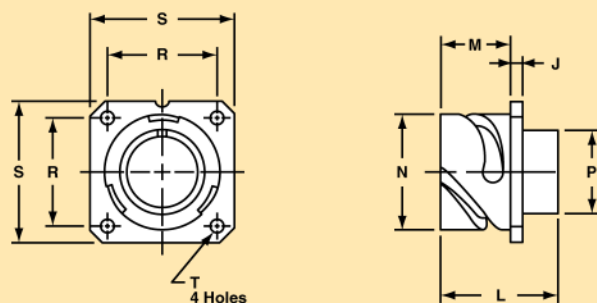
Millimeters

Shell Size	J ±.20	L Max	L <sup>1</sup> Max	L <sup>2</sup> Max	M +.41 -.00	N +.00 -.15	P Max	P <sup>1</sup> Hex Flats Ref	PGA Ref	PGR Ref	Q ±.20	S Max	X Max O.D. Cable
10SL	2.79	63.55	84.00	60.00	18.21	18.21	22.71	19.05	3.81/8.13	1.78/6.10	20.60	25.20	7.930
14S	3.20	64.87	88.85	61.98	18.21	24.61	27.51	22.35	4.83/9.91	2.79/7.11	25.40	29.79	11.13
16S	3.20	65.84	90.81	70.00	18.21	27.41	30.00	23.88	5.84/11.94	4.83/8.89	28.60	32.31	13.49
16	3.20	72.03	99.01	70.00	21.49	27.41	30.00	23.88	5.84/11.94	4.83/8.89	28.60	32.31	13.49
18	3.99	71.96	99.01	76.99	23.04	30.81	33.02	23.88	5.84/11.94	4.83/8.89	31.70	34.80	15.88
20	3.99	73.99	101.04	76.99	23.04	34.19	37.77	26.92	9.91/14.22	6.86/11.94	34.90	37.80	19.05
22	3.99	73.48	108.18	76.99	23.04	37.39	37.77	26.92	9.91/14.22	6.86/11.94	38.10	41.10	19.05
24	3.99	78.77	109.30	84.99	23.04	40.89	43.49	26.92	9.91/14.22	6.86/11.94	41.30	44.60	23.83
28	3.99	78.77	113.87	84.99	24.05	46.71	43.49	33.02	12.95/18.03	8.89/16.00	47.60	50.90	23.83
32	3.99	83.97	121.82	84.99	24.05	53.39	52.40	41.91	17.78/24.89	12.95/20.07	54.00	57.10	31.75
36	3.99	83.52	121.82	105.00	24.05	59.59	57.99	41.91	17.78/24.89	12.95/20.07	60.60	63.60	34.93
40	3.99	77.37	121.82	130.00	24.05	65.51	68.28	41.91	17.78/24.89	12.95/20.07	66.50	70.00	41.28

All dimensions for reference only.

# AC-B Bayonet

## box mounting receptacle



AC ( )02A ( )B\*  
AC ( )02E ( )B\*

\* To complete order number, see how to order, page 40.

Inches

Shell Size	J ±.008	L ±.012	M +.016 -.000	N +.000 -.006	P Max	R ±.004	S ±.012	T +.004 -.002
10SL	.110	1.087	.717	.717	.637	.717	1.000	.126
14S	.126	1.087	.717	.969	.762	.906	1.181	.126
16S	.126	1.087	.717	1.079	.887	.969	1.280	.126
16	.126	1.331	.846	1.079	.887	.969	1.280	.126
18	.157	1.331	.907	1.213	1.012	1.063	1.380	.126
20	.157	1.331	.907	1.346	1.137	1.157	1.496	.126
22	.157	1.331	.907	1.472	1.262	1.252	1.614	.126
24	.157	1.406	.907	1.610	1.387	1.374	1.750	.146
28	.157	1.406	.947	1.839	1.637	1.563	2.000	.146
32	.157	1.469	.947	2.102	1.887	1.752	2.248	.169
36	.157	1.469	.947	2.346	2.075	1.937	2.500	.169
40	.157	1.469	.947	2.579	2.325	2.185	2.750	.169

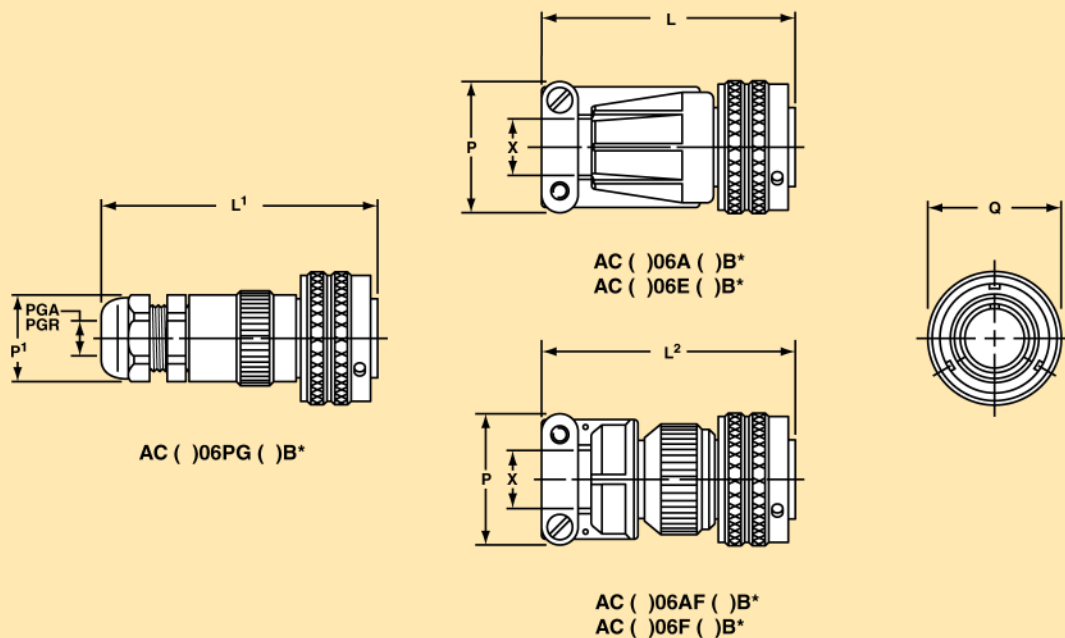
Millimeters

Shell Size	J ±.20	L ±.30	M +.41 -.00	N +.00 -.15	P Max	R ±.10	S ±.31	T +.10 -.05
10SL	2.79	27.61	18.21	18.21	16.18	18.21	25.40	3.20
14S	3.20	27.61	18.21	24.61	19.36	23.01	30.00	3.20
16S	3.20	27.61	18.21	27.41	22.53	24.61	32.51	3.20
16	3.20	33.81	21.49	27.41	22.53	24.61	32.51	3.20
18	3.99	33.81	23.04	30.81	25.71	27.00	35.05	3.20
20	3.99	33.81	23.04	34.19	28.88	29.39	38.00	3.20
22	3.99	33.81	23.04	37.39	32.06	31.80	41.00	3.20
24	3.99	35.71	23.04	40.89	35.23	34.90	44.45	3.71
28	3.99	35.71	24.05	46.71	41.58	39.70	50.80	3.71
32	3.99	37.31	24.05	53.39	47.93	44.50	57.10	4.29
36	3.99	37.31	24.05	59.59	52.71	49.20	63.50	4.29
40	3.99	37.31	24.05	65.51	59.06	55.50	69.85	4.29

All dimensions for reference only.

# AC-B Bayonet

## straight plug



\* To complete order number, see how to order, page 40.

Inches

Shell Size	L Max	L' Max	L'' Max	P Max	P' Hex Flats Ref	PGA Ref	PGR Ref	Q Max	X Max O.D. Cable
10SL	2.129	3.010	2.165	.894	.750	.150/.320	.070/.240	.898	.312
14S	2.201	3.188	2.362	1.083	.880	.190/.390	.110/.280	1.150	.438
16S	2.201	3.265	2.756	1.181	.940	.230/.470	.190/.350	1.260	.531
16	2.524	3.718	2.756	1.181	.940	.230/.470	.190/.350	1.260	.531
18	2.596	3.718	2.953	1.300	.940	.230/.470	.190/.350	1.437	.625
20	2.654	3.798	2.953	1.487	1.060	.390/.560	.270/.470	1.571	.750
22	2.654	4.080	2.953	1.487	1.060	.390/.560	.270/.470	1.697	.750
24	2.885	4.142	3.543	1.712	1.060	.390/.560	.270/.470	1.835	.938
28	2.885	4.291	3.543	1.712	1.300	.510/.710	.350/.630	2.102	.938
32	2.943	4.643	3.543	2.063	1.650	.700/.980	.510/.790	2.366	1.250
36	2.943	4.643	3.937	2.283	1.650	.700/.980	.510/.790	2.610	1.375
40	3.068	5.635	4.921	2.688	1.650	.700/.980	.510/.790	2.854	1.625

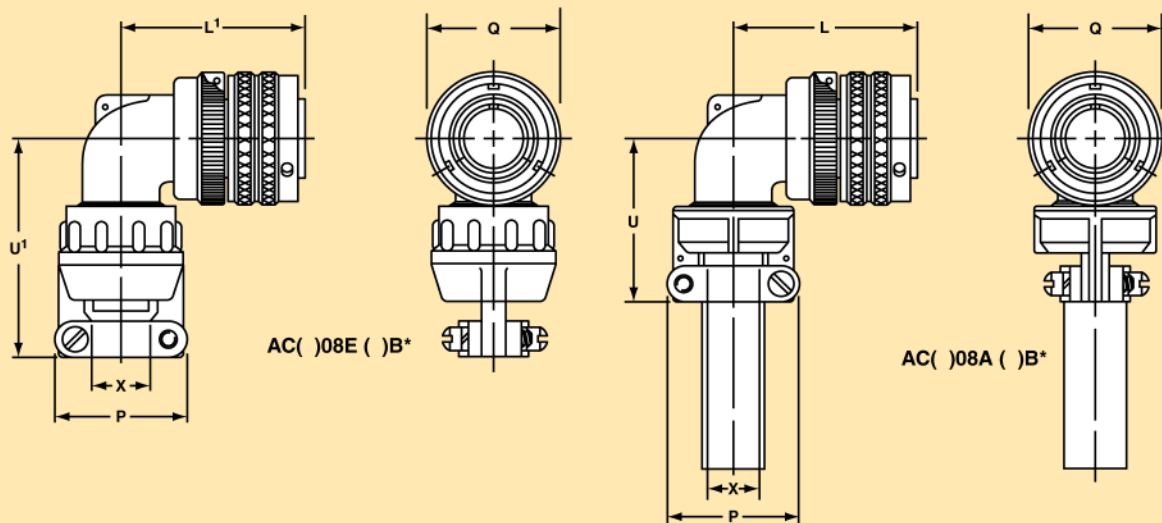
Millimeters

Shell Size	L Max	L' Max	L'' Max	P Max	P' Hex Flats Ref	PGA Ref	PGR Ref	Q Max	X Max O.D. Cable
10SL	54.08	76.45	54.99	22.71	19.05	3.81/8.13	1.78/6.10	22.81	7.93
14S	55.91	80.98	60.00	27.51	22.35	4.83/9.91	2.79/7.11	29.21	11.13
16S	55.91	82.93	70.00	30.00	23.88	5.84/11.94	4.83/8.89	32.00	13.49
16	64.11	94.44	70.00	30.00	23.88	5.84/11.94	4.83/8.89	32.00	13.49
18	65.94	94.44	75.01	33.02	23.88	5.84/11.94	4.83/8.89	36.50	15.88
20	67.41	96.47	75.01	37.77	26.92	9.91/14.22	6.86/11.94	39.90	19.05
22	67.41	103.63	75.01	37.77	26.92	9.91/14.22	6.86/11.94	43.10	19.05
24	73.28	105.21	89.99	43.49	26.92	9.91/14.22	6.86/11.94	46.61	23.83
28	73.28	108.99	89.99	43.49	33.02	12.95/18.03	8.89/16.00	53.39	23.83
32	74.75	117.93	89.99	52.40	41.91	17.78/24.89	12.95/20.07	60.10	31.75
36	74.75	117.93	100.00	57.99	41.91	17.78/24.89	12.95/20.07	66.29	34.93
40	77.93	143.13	124.99	68.28	41.91	17.78/24.89	12.95/20.07	72.49	41.28

All dimensions for reference only.

# AC-B Bayonet

## 90 degree plug



\* To complete order number, see how to order, page 40.

Inches

Shell Size	L Max.	L' Max.	P Max.	Q Dia. Max.	U Max.	U' Max.	X Max. O.D. Cable
10SL	1.492	1.492	.906	.898	1.305	1.812	.312
14S	1.556	1.556	1.031	1.150	1.485	1.875	.438
16S	1.682	1.682	1.125	1.299	1.612	1.937	.531
16	2.057	2.057	1.125	1.299	1.612	1.937	.531
18	2.119	2.119	1.234	1.437	1.738	2.109	.625
20	2.369	2.322	1.484	1.571	1.800	2.187	.750
22	2.369	2.322	1.484	1.697	1.862	2.250	.750
24	2.620	2.510	1.671	1.835	2.100	2.484	.938
28	2.620	2.510	1.671	2.102	2.162	2.546	.938
32	2.842	2.744	2.188	2.366	2.405	3.045	1.250
36	2.900	2.869	2.344	2.610	2.536	3.218	1.375
40	3.025	2.994	2.688	2.854	3.206	3.375	1.625

Millimeters

Shell Size	L Max.	L' Max.	P Max.	Q Dia. Max.	U Max.	U' Max.	X Max. O.D. Cable
10SL	37.90	37.90	23.01	22.81	33.15	46.03	7.93
14S	39.52	39.52	26.19	29.21	37.72	47.63	11.13
16S	42.72	42.72	28.58	33.00	40.95	49.20	13.49
16	52.25	52.25	28.58	33.00	40.95	49.20	13.49
18	53.82	53.82	31.34	36.50	44.15	53.57	15.88
20	60.17	58.98	37.69	39.90	45.72	55.55	19.05
22	60.17	58.98	37.69	43.10	47.30	57.15	19.05
24	66.55	63.75	42.44	46.61	53.34	63.09	23.83
28	66.55	63.75	42.44	53.39	54.92	64.67	23.83
32	72.19	69.70	55.58	60.10	61.09	77.34	31.75
36	73.66	72.87	59.54	66.29	64.41	81.74	34.93
40	76.84	76.05	68.28	72.49	81.43	85.73	41.28

All dimensions for reference only.

# AC, AC-B

## insert availability

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
10SL-3	A	3					3
10SL-4†	A	2					2
12S-3	A	2					2
12S-4	D	1					1
12-5	D	1				1	
14S-2	Inst.	4					4
14S-4	D	1					1
14S-5	Inst.	5					5
14S-6	Inst.	6					6
14S-7	A	3					3
14S-9	A	2					2
14S-10	Inst.	4					4
14S-12	A	3					3
14S-A7	A	7					7
14-3	A	1			1		
16S-1	A	7					7
16S-3	B	1					1
16S-4	D	2					2
16S-5	A	3					3
16S-6	A	3					3
16S-8	A	5					5
16-2	E	1				1	
16-7	A	3			1		2
16-9	A	4				2	2
16-10	A	3				3	
16-11	A	2				2	
16-12	A	1		1			
16-13	A	2				2	
16-59	A	4				4	
18-1	A/Inst.	10					10
18-3	D	2				2	
18-4	D	4					4
18-5	D	3				2	1
18-6	D	1		1			
18-7	B	1			1		
18-8	A	8				1	7
18-9	Inst.	7				2	5
18-10	A	4				4	
18-11	A	5				5	
18-12	A	6					6
18-13	A	4			1	3	
18-14	A	2		1			1
18-15	A	4				4	
18-16	C	1				1	
18-17	Inst.	7				2	5
18-19	A	10					10
18-20	A	5					5
18-22	D	3					3
18-24	A/Inst.	10					10
18-29	A	5					5

Insert Arrangement	Service Rating	Total Contacts	Contact Size				
			0	4	8	12	16
18-30	A	5					5
18-31	A	5					5
20-2	D	1	1				
20-3	D	3				3	
20-4	D	4				4	
20-6	D	3					3
20-7	D/A	8					8
20-8	Inst.	6			2		4
20-9	D/A	8				1	7
20-11	Inst.	13					13
20-12	A	2		1			1
20-14	A	5			2	3	
20-15	A	7				7	
20-16	A	9				2	7
20-17	A	6				5	1
20-18	A	9				3	6
20-19	A	3			3		
20-20	A	4		1		3	
20-21	A	9				1	8
20-22	A	6			3		3
20-23	A	2			2		
20-24	A	4			2		2
20-25	Inst.	13					13
20-27	A	14					14
20-29	A	17					17
20-30	Inst.	13					13
20-33	A	11					11
20-51	A	3			3		
20-57	A	7				7*	
20-58	A	10				5	5
20-59	A	3			3*		
20-66	A	6				5*	1
20-79	D/A	8				1	7
22-1	D	2			2		
22-2	D	3			3		
22-4	A	4			2	2	
22-5	D	6				2	4
22-6	D	3			2		1
22-7	E	1	1				
22-8	E	2				2	
22-9	E	3				3	
22-10	E	4					4
22-11	B	2					2
22-12	D	5			2		3
22-13	D/A	5				4	1
22-14	A	19					19
22-15	E/A	6				5	1
22-16	A	9				3	6

\* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (\*) are exceptions. See insert arrangement drawings on pages 16-35 for application wire size.

† 10SL-4 arrangement available only with pin contacts in receptacle and socket contacts in plug.

# AC, AC-B

## insert availability, cont.

Insert Arrange ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
22-17	D/A	9				1	8					
22-18	D/A	8					8					
22-19	A	14					14					
22-20	A	9					9					
22-21	A	3	1				2					
22-22	A	4			4							
22-23	D/A	8				8						
22-24	D/A	6				2	4					
22-27	D/A	9			1		8					
22-28	A	7				7						
22-33	D/A	7					7					
22-34	D	5				3	2					
22-63	A	12				4	8					
22-65	D/A	8				8*						
22-70	A	13				8	5					
22-80	A	3			3*							
24-2	D	7				7						
24-3	D	7				2	5					
24-5	A	16					16					
24-6	D/A	8				8						
24-7	A	16				2	14					
24-9	A	2		2								
24-10	A	7			7							
24-11	A	9			3	6						
24-12	A	5		2		3						
24-16	D/A	7			1	3	3					
24-17	D	5				2	3					
24-20	D	11				2	9					
24-21	D	10			1		9					
24-22	D	4			4							
24-27	E	7					7					
24-28	Inst.	24					24					
24-51	A	5			5							
24-52	Hi-Volt	1				1						
24-53	A	5			5							
24-58	A	13			3	3	7					
24-59	A	14				7	7					
24-60	A	7			7*							
24-65	A	15				11	4					
24-66	D	7				7						
24-67	Inst.	19				19						
24-71	A	7			7*							
24-75	A	7			7*							
24-79	A	5			5							
24-80	Inst.	23					23					
24-84	A	19				1					18	
24-96	Inst.	28					28					
24-AJ	A	25					25					

\* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (\*) are exceptions. See insert arrangement drawings on pages 16-35 for application wire size.

Insert Arrange ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
28-1	D/A	9			3	6						
28-2	D	14				2	12					
28-3	E	3			3							
28-4	E/D	9				2	7					
28-5	D	5		2		1	2					
28-6	D	3		3								
28-7	D	2		2								
28-8	E/D/A	12				2	10					
28-9	D	12				6	6					
28-10	D/A	7		2	2	3						
28-11	A	22				4	18					
28-12	A	26					26					
28-13	A	26					26					
28-15	A	35					35					
28-16	A	20					20					
28-17	B/D/A	15					15					
28-18	C/D/A/Inst	12					12					
28-19	B/D/A	10				4	6					
28-20	A	14				10	4					
28-21	A	37					37					
28-22	D	6		3			3					
28-51	A	12				12						
28-59	A	17				7	10					
28-66	A	16			2	14						
28-72	Coax	3							3			
28-74	A	16			7*		9					
28-75	A	16			7*		9					
28-79	A	16			7		9					
28-82	D	6			2	4						
28-84	A	9			9							
28-AY	A	9		4			5					
32-1	E/D	5	2			3						
32-2	E	5		3			2					
32-3	D	9	1	2		2	4					
32-4	A/D	14				2	12					
32-5	D	2	2									
32-6	A	23		2	3	2	16					
32-7	Inst./A	35				7	28					
32-8	A	30				6	24					
32-9	D	14		2			12					
32-10	E/B/D/A	7		2	2		3					
32-12	A/D	15				5	10					
32-13	D	23				5	18					
32-15	D	8	2			6						
32-16	A	23		2	3	2	16					
32-17	D	4		4								
32-22	A	54					54					
32-25	A	25				25						
32-31	A	31					31					

\*\* Coaxial cable data can be found on insert arrangement drawings, pages 16-35. For further information on coaxial contacts and cable see catalog 12-130.

# AC, AC-B

## insert availability, cont.

Insert Arrange- ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
32-52	D	8	2			6						
32-53	Inst./E	42				5	37					
32-56	A	30				6*	24					
32-57	Coax	8				6		2				
32-58	Coax	4							4			
32-60	A	23					15			8		
32-62	Coax	23		2	1	2	16			2		
32-64	Inst.	54					54					
32-68	A	16					12	4				
32-73	A	46					46					
32-75	Coax	9				2				7		
32-76	A	19				19						
32-79	D	5		4	1							
32-82	A	16		4			12					
32-AF	A	55					55					
36-1	D	22				4	18					
36-3	D	6	3			3						
36-4	D/A	3	3									
36-5	A	4	4									
36-6	A	6	2	4								
36-7	A	47				7	40					
36-8	A	47				1	46					
36-9	A	31		1	2	14	14					
36-10	A	48					48					
36-11	A	48					48					
36-12	A	48					48					
36-13	E/A	17				2	15					
36-14	D	16			5	5	6					
36-15	D/A	35					35					
36-16	A	47				7	40					
36-17	A	47				7	40					
36-18	A	31		1	2	14	14					
36-20	A	34			2	2	30					
36-51	D	4	2	2								
36-52	A	52					52					
36-54	A	39			8		31					
36-55	A	39			8*		31					
36-59	A	53				3*	50					
36-60	A	47				7*	40					
36-64	Coax	4						4				

\* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (\*) are exceptions. See insert arrangement drawings on pages 16-35 for application wire size.

Insert Arrange- ment	Service Rating	Total Con- tacts	Contact Size									
			0	4	8	12	16	Coax**				
								0	4	8	12	
36-65	Coax	4						4				
36-71	A	53				3	50					
36-73	Coax	7							7			
36-74	A	44					43			1		
36-75	A	48					48*					
36-76	A	47					47					
36-77	D	7		7								
36-78	A	14			12		2					
36-79	A	20				20						
36-80	A	20				20*						
36-83	Coax	7							7			
36-85	A/D	35					35*					
36-AF	A	48					48					
40-1	D	30				6	24					
40-5	A	5	5									
40-9	A	47			1	22	24					
40-10	A	29		4	9		16					
40-35	D	35				35						
40-53	A	60					60					
40-56	A	85					85					
40-57	E	4	4									
40-61	A	59			1	3	55					
40-62	A	60					60					
40-63	A	61					61*					
40-64	Coax	36				3	20			13		
40-66	Coax	4						4				
40-67	A	11					1		10			
40-68	A	21			21							
40-70	A	61					61					
40-72	A	11					1		10			
40-73	A	61					61					
40-74	A	6				1		4	1			
40-75	E	5	4			1						
40-80	A	11		10			1					
40-81	A	62					62*					
40-82	A	62					62					
40-85	A	60					60					
40-86	E	4						4				
40-87	D	7		7								
40-AG	A	38				38						

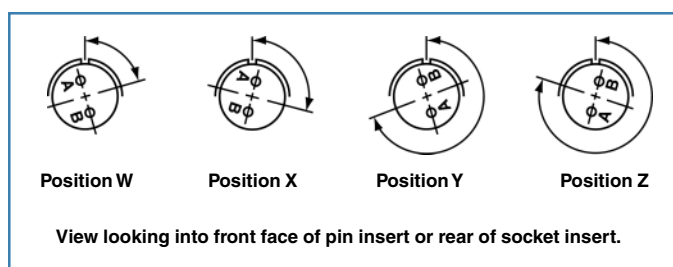
\*\* Coaxial cable data can be found on insert arrangement drawings, pages 16-35. For further information on coaxial contacts and cable see catalog 12-130.

# AC, AC-B

## insert alternate positioning

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate rotations are available as indicated in the accompanying charts.

As shown in the diagram below, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counter-clockwise the same number of degrees in respect to the normal shell key.



The following insert arrangements have the same alternate insert rotations for W, X, Y and Z, which are:

Degrees			
W	X	Y	Z
80	110	250	280

16-7	20-16	22-18	24-4	24-28	28-16	32-10
18-5	20-20	22-19	24-5	24-AJ	28-17	32-12
18-9	20-22	22-21	24-6	28-1	28-19	32-13
18-13	22-3	22-24	24-7	28-4	28-20	32-22
18-14	22-6	22-25	24-12	28-8	28-21	32-31
20-7	22-12	22-29	24-14	28-9	32-1	32-AF
20-8	22-14	22-33	24-16	28-10	32-3	36-1
20-9	22-15	22-34	24-17	28-11	32-4	36-7
20-12	22-16	24-1	24-20	28-14	32-6	36-8
20-14	22-17	24-3	24-21	28-15	32-9	36-13








Insert Arrangement	Degrees			
	W	X	Y	Z
10-SL-4	63	—	—	—
12S-3	70	145	215	290
14S-2	—	120	240	—
14S-5	—	110	—	—
14S-7	90	180	270	—
14S-9	70	145	215	290
16-9	35	110	250	325
16-10	90	180	270	—
16-11	35	110	250	325
16-13	35	110	250	325
16S-1	80	—	—	280
16S-4	35	110	250	325
16S-5	70	145	215	290
16S-6	90	180	270	—
16S-8	—	170	265	—
18-1	70	145	215	290
18-3	35	110	250	325
18-4	35	110	250	325
18-8	70	—	—	290
18-10	—	120	240	—
18-11	—	170	265	—
18-12	80	—	—	280
18-15	—	120	240	—
18-20	90	180	270	—
18-22	70	145	215	290
18-29	90	180	270	—
20-3	70	145	215	290
20-4	45	110	250	—
20-5	35	110	250	325
20-6	70	145	215	290

Insert Arrangement	Degrees			
	W	X	Y	Z
20-15	80	—	—	280
20-17	90	180	270	—
20-18	35	110	250	325
20-19	90	180	270	—
20-21	35	110	250	325
20-23	35	110	250	325
20-24	35	110	250	325
20-27	35	110	250	325
20-29	80	—	—	280
22-1	35	110	250	325
22-2	70	145	215	290
22-4	35	110	250	325
22-5	35	110	250	325
22-8	35	110	250	325
22-9	70	145	215	290
22-10	35	110	250	325
22-11	35	110	250	325
22-13	35	110	250	325
22-20	35	110	250	325
22-22	—	110	250	—
22-23	35	—	250	—
22-27	80	—	250	280
22-28	80	—	—	280
24-2	80	—	—	280
24-9	35	110	250	325
24-10	80	—	—	280
24-11	35	110	250	325
24-22	45	110	250	—
24-27	80	—	—	280
28-2	35	110	250	325





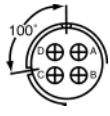
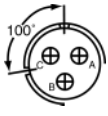
Insert Arrangement	Degrees			
	W	X	Y	Z
28-3	70	145	215	290
28-5	35	110	250	325
28-6	70	145	215	290
28-7	35	110	250	325
28-12	90	180	270	—
28-18	70	145	215	290
28-22	70	145	215	290
28-AY	45	110	250	—
32-2	70	145	215	290
32-5	35	110	250	325
32-7	80	125	235	280
32-8	80	125	235	280
32-15	35	110	250	280
32-17	45	110	250	—
32-25	60	120	—	—
32-64	80	100	110	250
36-3	70	145	215	290
36-4	70	145	215	290
36-5	—	120	240	—
36-6	35	110	250	325
36-9	80	125	235	280
36-10	80	125	235	280
36-14	90	180	270	—
36-15	60	125	245	305
36-AF	65	—	—	—
40-1	65	130	235	300
40-5	33	—	—	270
40-9	65	125	225	310
40-10	65	125	225	310
40-35	70	130	230	290
40-AG	37	74	285	322

## AC, AC-B contact arrangements



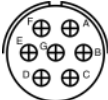
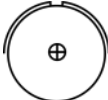
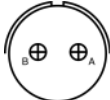

front face of pin insert or rear face of socket insert illustrated

							
Insert Arrangement	10SL-3	10SL-4	12S-3	12S-4	12-5	14S-2	14S-4
Service Rating	A	A	A	D	D	Inst.	D
Number of Contacts	3	2	2	1	1	4	1
Contact Size	16	16	16	16	12	16	16

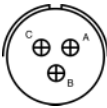
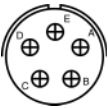
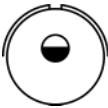

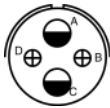

  

						
Insert Arrangement	14S-5	14S-6	14S-7	14S-9	14S-10	14S-12
Service Rating	Inst.	Inst.	A	A	Inst.	A
Number of Contacts	5	6	3	2	4	3
Contact Size	16	16	16	16	16	16






  

						
Insert Arrangement	14S-A7	14-3	16S-1	16S-3	16S-4	16S-5
Service Rating	A	A	A	B	D	A
Number of Contacts	7	1	7	1	2	3
Contact Size	16	8	16	16	16	16

						
Insert Arrangement	16S-6	16S-8	16-2	16-7	16-9	16-10
Service Rating	A	A	E	A	A	A
Number of Contacts	3	5	1	1 2	2 2	3
Contact Size	16	16	12	8 16	12 16	12

					
CONTACT LEGEND	16	12	8	4	0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	16-11	16-12	16-13	16-59	18-1
Service Rating	A	A	A	A	B, C, F, G = A; Bal. = Inst.
Number of Contacts	2	1	2*	4	10
Contact Size	12	4	12	12	16

Insert Arrangement	18-3	18-4	18-5	18-6	18-7	18-8
Service Rating	D	D	D	D	B	A
Number of Contacts	2	4	2 1	1	1	1 7
Contact Size	12	16	12 16	4	8	12 16

Insert Arrangement	18-9	18-10	18-11	18-12	18-13	18-14
Service Rating	Inst.	A	A	A	A	A
Number of Contacts	2 5	4	5	6	1 3	1 1
Contact Size	12 16	12	12	16	8 12	4 16

Insert Arrangement	18-15	18-16	18-17	18-19	18-20	18-22
Service Rating	A	C	Inst.	A	A	D
Number of Contacts	4**	1	2 5	10	5	3
Contact Size	12	12	12 16	16	16	16

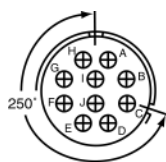
\*A = Iron; B = Constantan  
 \*\*A, C = Iron; B, D = Constantan

CONTACT LEGEND	16	12	8	4	0

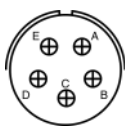
# AC, AC-B

## contact arrangements

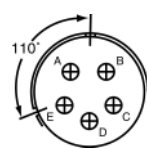
front face of pin insert or rear face of socket insert illustrated



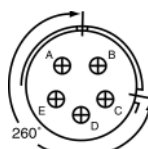
250° Rotation  
of 18-1



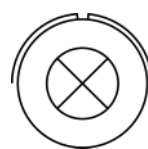
18-29



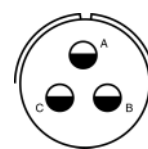
110° Rotation  
of 18-20



260° Rotation  
of 18-20



20-2



20-3

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

B, C, F, G = A; Bal. = Inst.

10

16

A

5

16

A

5

16

A

5

16

D

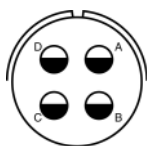
1

0

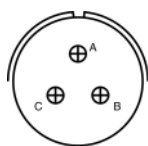
D

3

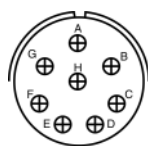
12



20-4

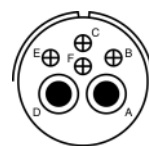


20-6



20-7

A, B, H, G = D; C, D, E, F = A

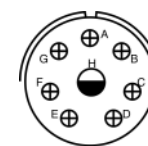


20-8

Inst.

2 4

8 16

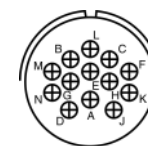


20-9

H = D; Bal. = A

1 7

12 16



20-11

Inst.

13

16

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

D

4

12

D

3

16

8

16

Inst.

2 4

8 16

H = D; Bal. = A

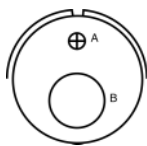
1 7

12 16

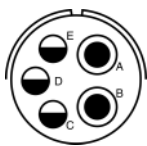
Inst.

13

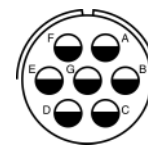
16



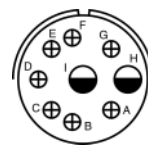
20-12



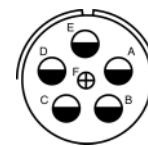
20-14



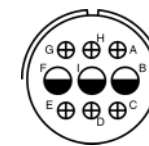
20-15



20-16



20-17



20-18

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A

1

4

A

2

8

A

7

12

A

2

12

A

5

12

A

3

12

6

16



CONTACT LEGEND

16

12

8

4

0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	20-19	20-20	20-21	20-22	20-23	20-24
Service Rating	A	A	A	A	A	A
Number of Contacts	3	1 3	1 8	3 3	2	2 2
Contact Size	8	4 12	12 16	8 16	8	8 16

Insert Arrangement	100° Rotation of 20-11	20-27	20-29	250° Rotation of 20-11	20-33	20-51
Service Rating	Inst.	A	A	Inst.	A	A
Number of Contacts	13	14	17	13	11	3*
Contact Size	16	16	16	16	16	8

Insert Arrangement	20-57	20-58	20-59	20-66	20-79
Service Rating	A	A	A	A	H = D; Bal. = A
Number of Contacts	7*	5 5	3*	1 5	7* 1*
Contact Size	12 for #14 or 16 wire	12 16	8 for #10 or 12 wire	16 12 for #10 wire	16 12 for #16 wire

\* Solderless

CONTACT LEGEND	16	12	8	4	0

# AC, AC-B






## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	22-1	22-2	22-4	22-5	22-6	22-7
Service Rating	D	D	A	D	D	E
Number of Contacts	2	3	2 2	2 4	2 1	1
Contact Size	8	8	8 12	12 16	8 16	0

Insert Arrangement	22-8	22-9	22-10	22-11	22-12	22-13
Service Rating	E	E	E	B	D	E = D; A, B, C, D = A
Number of Contacts	2	3	4	2	2 3	4 1
Contact Size	12	12	16	16	8 16	12 16

Insert Arrangement	22-14	22-15	22-16	22-17	22-18
Service Rating	A	D = E; A, B, C, E, F = A	A	A = D; Bal. = A	A, B, F, G, H = D; C, D, E = A
Number of Contacts	19	5 1	3 6	1 8	8
Contact Size	16	12 16	12 16	12 16	16

CONTACT LEGEND
16
12
8
4
0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	22-19	22-20	22-21	22-22	22-23
Service Rating	A	A	A	A	H = D; Bal. = A
Number of Contacts	14	9	1 2	4	8
Contact Size	16	16	0 16	8	12

Insert Arrangement	22-24	22-27	22-28	22-33	22-34
Service Rating	C, D, E = D; A, B, F = A	J = D; Bal. = A	A	A, B, C, D = D; E, F, G = A	D
Number of Contacts	2 4	1 8	7	7	3 2
Contact Size	12 16	8 16	12	16	12 16

Insert Arrangement	22-63	22-65	22-70	22-80	24-2
Service Rating	A	H = D; Bal. = A	A	A	D
Number of Contacts	4 8	8*	8 5	3*	7
Contact Size	12 16	12 for #14 or 16 wire	12 16	8 for #10 or 12 wire	12

\* Solderless

CONTACT LEGEND	16	12	8	4	0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	24-3	24-5	24-6	24-7	24-9
Service Rating	D	A	A, G, H = D; Bal. = A	A	A
Number of Contacts	2 5	16	8	2 14	2
Contact Size	12 16	16	12	12 16	4

Insert Arrangement	24-10	24-11	24-12	24-16	24-17
Service Rating	A	A	A	A, B, F, G = D; C, D, E = A	D
Number of Contacts	7	3 6	2 3	1 3 3	2 3
Contact Size	8	8 12	4 12	8 12 16	12 16

Insert Arrangement	24-20	24-21	24-22	24-27	24-28	24-51
Service Rating	D	D	D	E	Inst.	A
Number of Contacts	2 9	1 9	4	7	24	5*
Contact Size	12 16	8 16	8	16	16	B, E for AN #10 or 12 wire A, C, D for AN #8 wire

CONTACT LEGEND

⊕

⬤

⬤

○

⊗

16

12

8

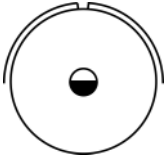

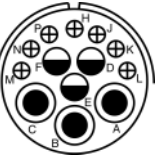
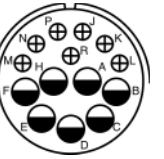
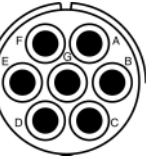
4

0

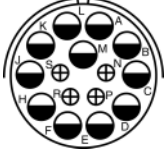
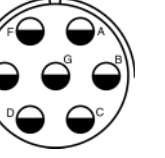
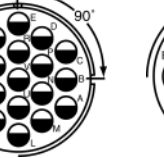
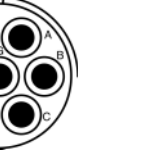
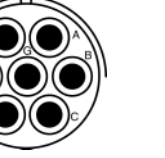
# AC, AC-B

## contact arrangements

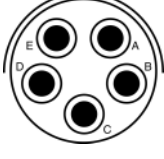
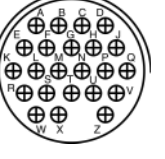
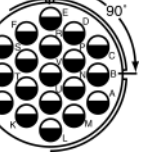
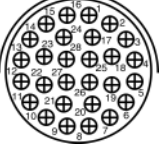

front face of pin insert or rear face of socket insert illustrated

					
Insert Arrangement	24-52	24-53	24-58	24-59	24-60
Service Rating	Hi-Volt	A	A	A	A
Number of Contacts	1	5*	3 3 7	7 7	7*
Contact Size	12	8	8 12 16	12 16	8 for #10 or 12 wire






  

					
Insert Arrangement	24-65	24-66	24-67	24-71	24-75
Service Rating	A	D	Inst.	A	A
Number of Contacts	11 4	7	19	2* 5*	5 2
Contact Size	12 16	12	12	8 8 for #10 or 12 wire	8 8 for #16 wire

					
Insert Arrangement	24-79	24-80	24-84	24-96	24-AJ
Service Rating	A	Inst.	A	Inst.	A
Number of Contacts	5	23	1 18	28	25
Contact Size	8	16	12 12 (Coax) RG-188/U or RG-174/U	16	16

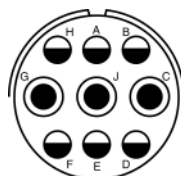
\* Solderless

					
CONTACT LEGEND	16	12	8	4	0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

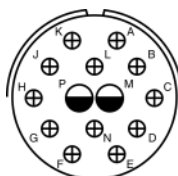


28-1

A, J, E = D; Bal. = A

3 6

8 12

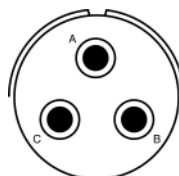


28-2

D

2 12

12 16

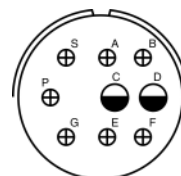


28-3

E

3

8

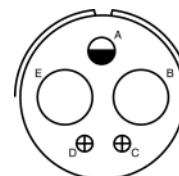


28-4

G, P, S = E; Bal. = D

2 7

12 16

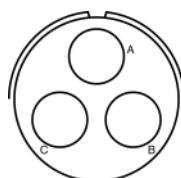


28-5

D

2 1 2

4 12 16

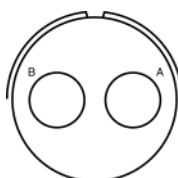


28-6

D

3

4

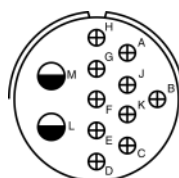


28-7

D

2

4

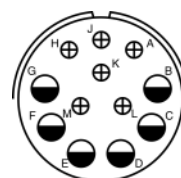


28-8

L, M = E; B = D; Bal. = A

2 10

12 16

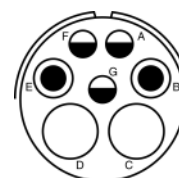


28-9

D

6 6

12 16

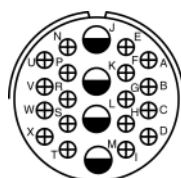


28-10

G = D; Bal. = A

2 2 3

4 8 12

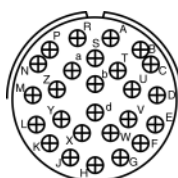


28-11

A

4 18

12 16

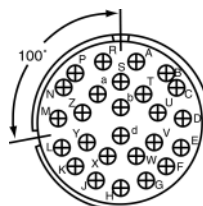


28-12

A

26

16



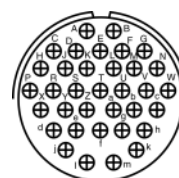
100° Rotation  
of 28-12

28-13

A

26

16

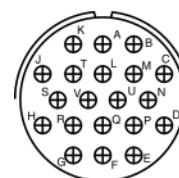


28-15

A

35

16



28-16

A

20

16

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



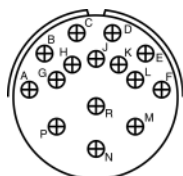
CONTACT LEGEND

16 12 8 4 0

# AC, AC-B

## contact arrangements

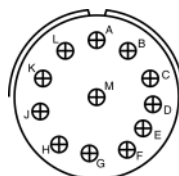
front face of pin insert or rear face of socket insert illustrated



28-17

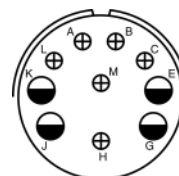
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

R = B; M, N, P = D; A to L = A  
15  
16



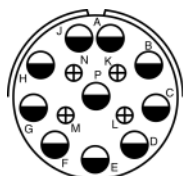
28-1

M = C; G, H, J, K, L = D; A, B = A; Bal. = Inst.  
12  
16



28-19

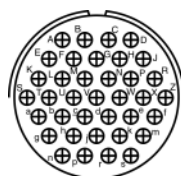
H, M = B; A, B = D; Bal. = A  
4 6  
12 16



28-20

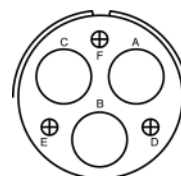
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A  
10 4  
12 16



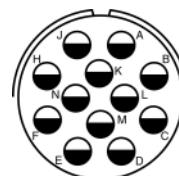
28-21

A  
37  
16



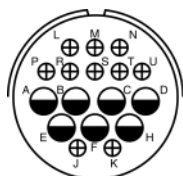
28-22

D  
3 3  
4 16



28-51

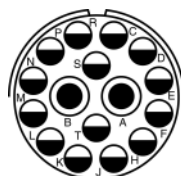
A  
12  
12



28-59

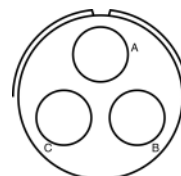
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A  
7 10  
12 16



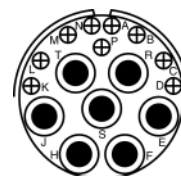
28-66

A  
2 14  
8 12



28-72

—  
3  
4 (Coax) RG-59 A/U

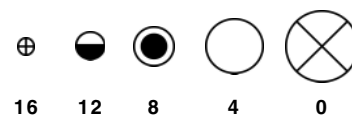


28-74

A  
9\* 4\* 3\*  
16 8 8 for #10 wire

\* Solderless

CONTACT LEGEND



# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated

Insert Arrangement	28-75	28-79	28-82	28-84	28-AY
Service Rating	A	A	D	A	A
Number of Contacts	9* 7*	9 7	2 4	9	4 5
Contact Size	16 8 for #10 wire	16 8	8 12	8	4 16

Insert Arrangement	32-1	32-2	32-3	32-4
Service Rating	A = E; B, C, D, E = D	E	D	F, J, K, N = A; Bal. = D
Number of Contacts	2 3	3 2	1 2 2 4	2 12
Contact Size	0 12	4 16	0 4 12 16	12 16

Insert Arrangement	32-5	32-6	32-7	32-8
Service Rating	D	A	A, B, h, j = Inst.; Bal. = A	A
Number of Contacts	2	2 3 2 16	7 28	6 24
Contact Size	0	4 8 12 16	12 16	12 16

\* Solderless

CONTACT LEGEND

⊕

●

○

⊗

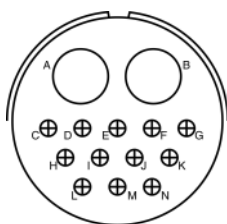
⊘

16
12
8
4
0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated



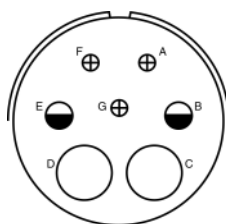
32-9

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

D

2 12

4 16

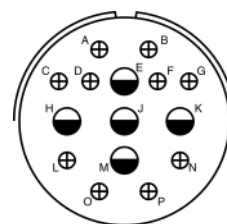


32-10

A, F = E; G = B; B, E = D; C, D = A

2 2 3

4 8 16

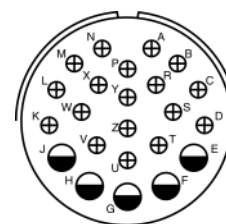


32-12

C, D, E, F, G = A; Bal. = D

5 10

12 16

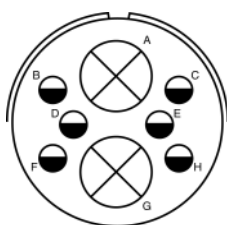


32-13

D

5 18

12 16



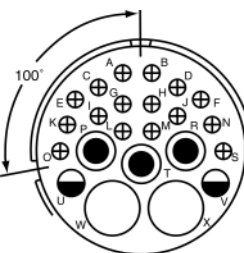
32-15

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

D

2 6

0 12



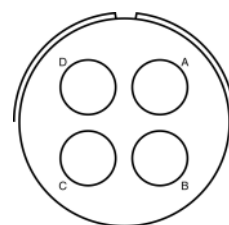
100° Rotation  
of 32-6

32-16

A

2 3 2 16

4 8 12 16

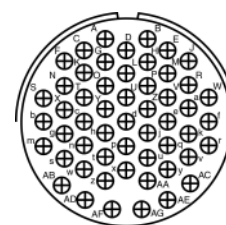


32-17

D

4

4

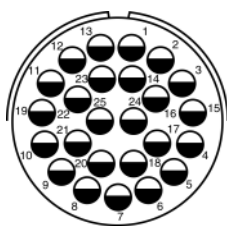


32-22

A

54

16



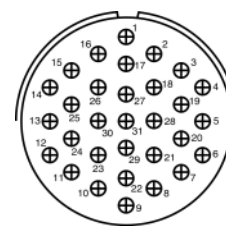
32-25

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A

25

12

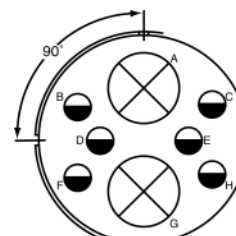


32-31

A

31

16



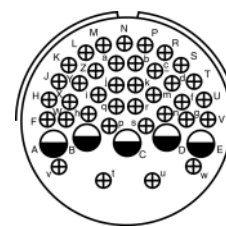
90° CW Rotation  
of 32-15

32-52

D

2 6

0 12



32-53

t, u = E; Bal. = Inst.

5 37

12 16



CONTACT LEGEND

16

12

8

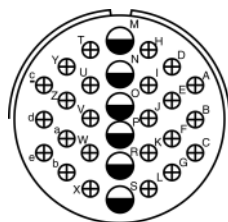
4

0

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated



32-56

A

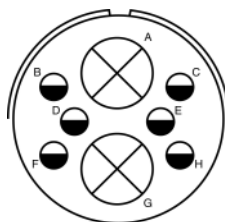
Insert Arrangement

Service Rating

Number of Contacts

Contact Size

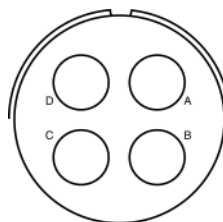
24 6  
16 12 for #10 wire



32-57

\*\*

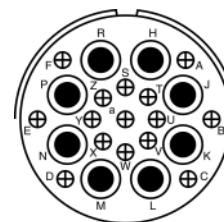
6 2  
12 0 (Coax) RG-71/U



32-58

—

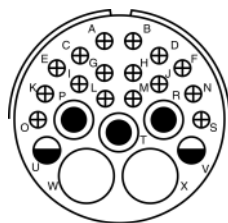
4  
4 (Coax) RG-161/U  
or RG-179/U



32-60

A

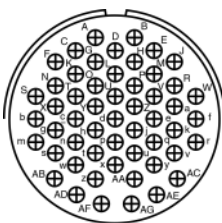
15 8  
16 8 (Coax) RG-124/U



32-62

\*\*

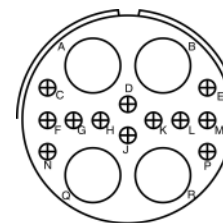
2 1 2 16 2  
4 8 12 16 8 (Coax)  
RG-124/U16



32-64

Inst.

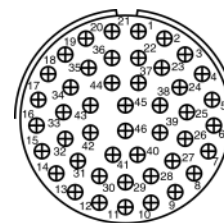
54  
16



32-68

A

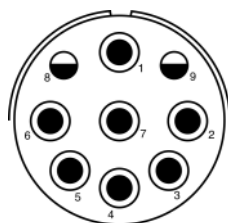
12 4  
16 4 (Coax) RG-58 C/U



32-73

A

46  
16



32-75

8, 9 = D

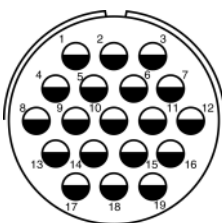
Insert Arrangement

Service Rating

Number of Contacts

Contact Size

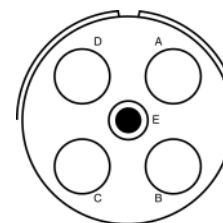
2 7  
12 8 (Coax) RG-180 B/U



32-76

A

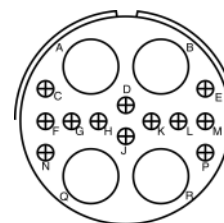
19  
12



32-79

D

4 1  
4 8



32-82

A

12 4  
16 4



CONTACT LEGEND

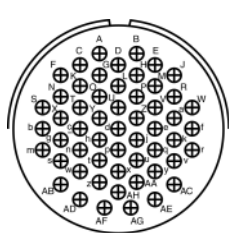
16 12 8 4 0

\*\* Consult Sidney, NY for service rating of power contacts.

# AC, AC-B

## contact arrangements

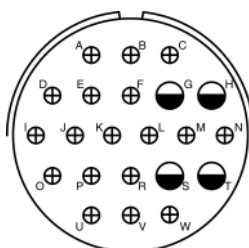
front face of pin insert or rear face of socket insert illustrated



**32-AF**

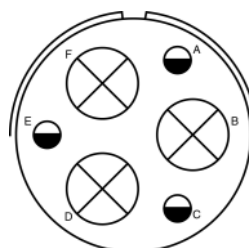
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**55**  
**16**



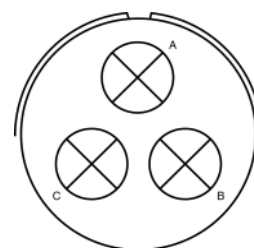
**36-1**

**D**  
**4 18**  
**12 16**



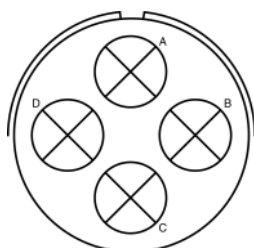
**36-3**

**D**  
**3 3**  
**0 12**



**36-4**

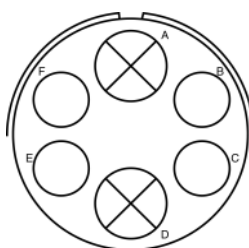
**A = D; B, C = A**  
**3**  
**0**



**36-5**

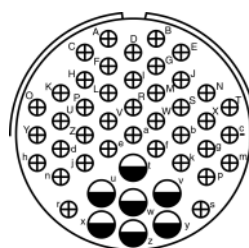
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**4**  
**0**



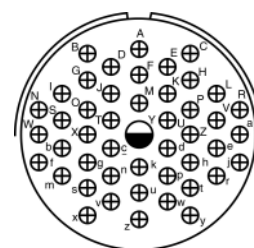
**36-6**

**A**  
**2 4**  
**0 4**



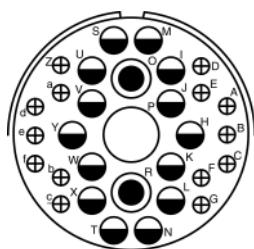
**36-7**

**A**  
**7 40**  
**12 16**



**36-8**

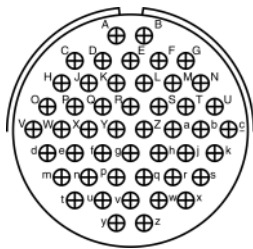
**A**  
**1 46**  
**12 16**



**36-9**

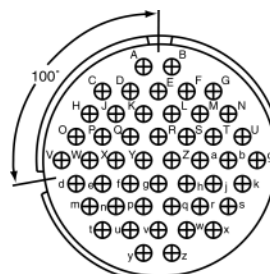
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**1 2 14 14**  
**4 8 12 16**



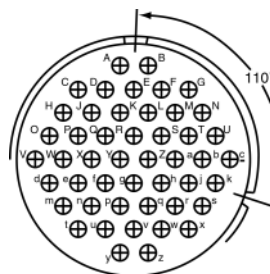
**36-10**

**A**  
**48**  
**16**



**100° Rotation  
of 36-10  
36-11**

**A**  
**48**  
**16**



**110° Rotation  
of 36-10  
36-12**

**A**  
**48**  
**16**



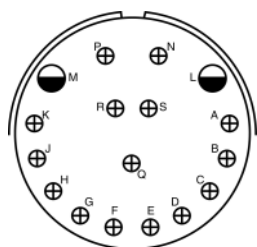
**CONTACT LEGEND**

**16 12 8 4 0**

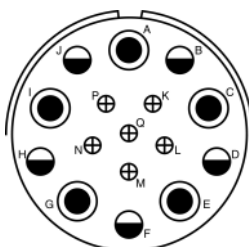
# AC, AC-B

## contact arrangements

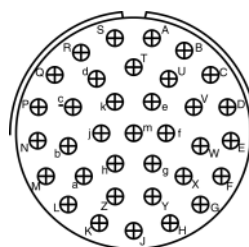
front face of pin insert or rear face of socket insert illustrated



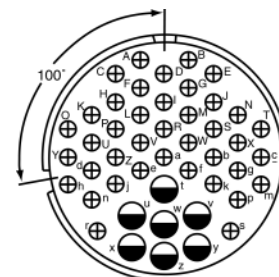
**36-13**  
**Service Rating** N, P, Q = E; Bal. = A  
**Number of Contacts** 2 15  
**Contact Size** 12 16



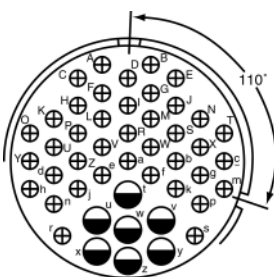
**36-14**  
**Service Rating** D  
**Number of Contacts** 5 5 6  
**Contact Size** 8 12 16



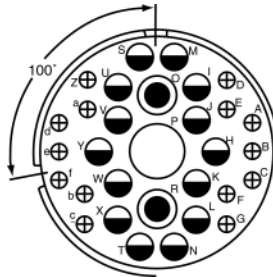
**36-15**  
**Service Rating** M = D; Bal. = A  
**Number of Contacts** 35  
**Contact Size** 16



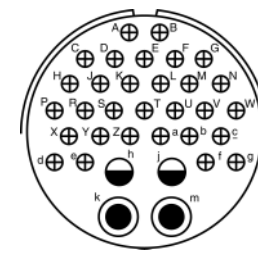
**100° Rotation of 36-16**  
**36-16**  
**Service Rating** A  
**Number of Contacts** 7 40  
**Contact Size** 12 16



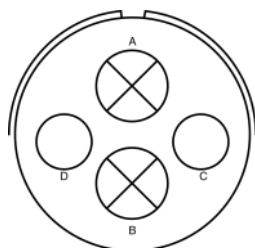
**110° Rotation of 36-7**  
**36-17**  
**Service Rating** A  
**Number of Contacts** 7 40  
**Contact Size** 12 16



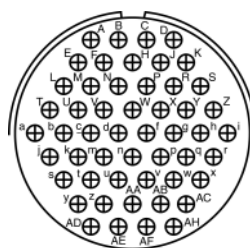
**100° Rotation of 36-9**  
**36-18**  
**Service Rating** A  
**Number of Contacts** 1 2 14 14  
**Contact Size** 4 8 12 16



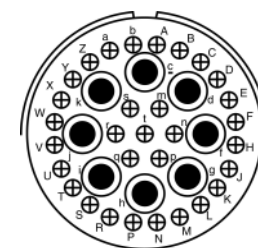
**36-20**  
**Service Rating** A  
**Number of Contacts** 2 2 30  
**Contact Size** 8 12 16



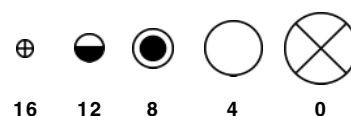
**36-51**  
**Service Rating** D  
**Number of Contacts** 2 2  
**Contact Size** 0 4



**36-52**  
**Service Rating** A  
**Number of Contacts** 52  
**Contact Size** 16



**36-54**  
**Service Rating** A  
**Number of Contacts** 8 31  
**Contact Size** 8 16

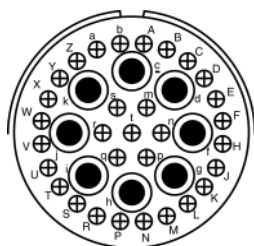


**CONTACT LEGEND**

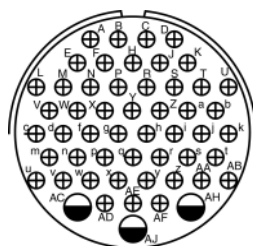
# AC, AC-B

## contact arrangements

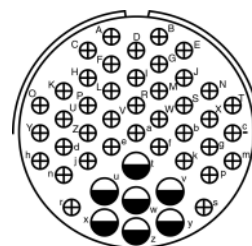
front face of pin insert or rear face of socket insert illustrated



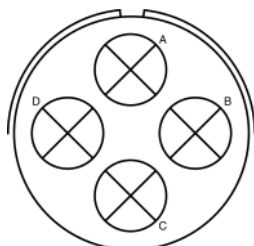
Insert Arrangement	36-55
Service Rating	A
Number of Contacts	31 8
Contact Size	16 8 for #6 wire



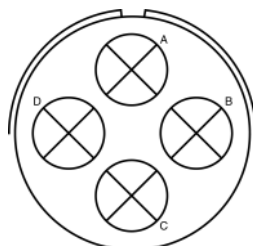
Insert Arrangement	36-59
Service Rating	A
Number of Contacts	50 3
Contact Size	16 12 for #10 wire



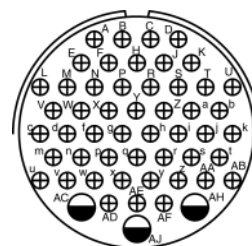
Insert Arrangement	36-60
Service Rating	**
Number of Contacts	40 7
Contact Size	16 12 for #10 wire



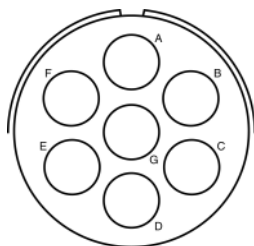
Insert Arrangement	36-64
Service Rating	—
Number of Contacts	4
Contact Size	0 (Coax) RG-11/U, RG-12/U or RG-13/U



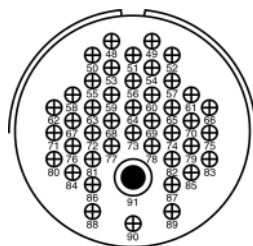
Insert Arrangement	36-65
Service Rating	—
Number of Contacts	4
Contact Size	0 (Coax) RG-59/U, RG-62/U or RG-71/U



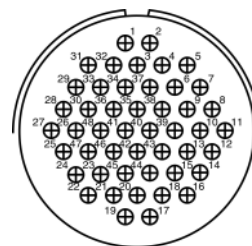
Insert Arrangement	36-71
Service Rating	A
Number of Contacts	3 50
Contact Size	12 16



Insert Arrangement	36-73
Service Rating	—
Number of Contacts	7
Contact Size	4 (Coax) RG-62B/U



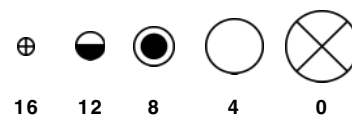
Insert Arrangement	36-74
Service Rating	A
Number of Contacts	43 1
Contact Size	16 8 (Coax) RG-187/U



Insert Arrangement	36-75
Service Rating	A
Number of Contacts	48
Contact Size	16 for #14 wire

\*\* Consult Sidney, NY for service rating of power contacts.

CONTACT LEGEND

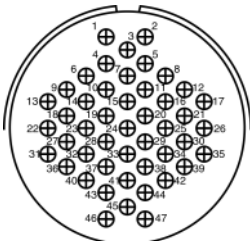


# AC, AC-B

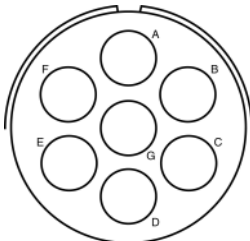
## contact arrangements

front face of pin insert or rear face of socket insert illustrated

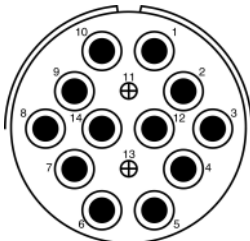
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



36-76  
A  
47  
16

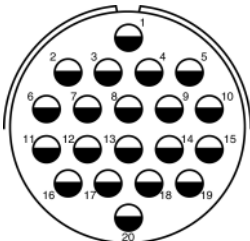


36-77  
D  
7  
4

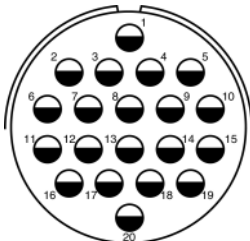


36-78  
A  
2 12  
16 8

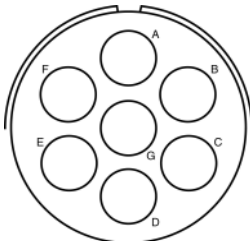
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



36-79  
A  
20  
12

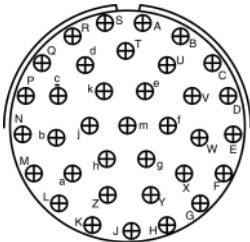


36-80  
A  
20  
12 for #10 wire

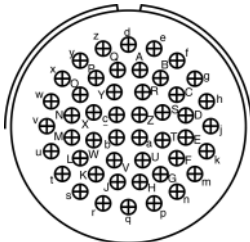


36-83  
-  
7  
4 (Coax) RG-58/U

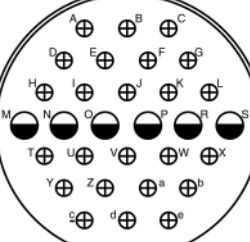
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



36-85  
M = D; Bal. = A  
35  
16 for #12 wire

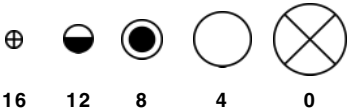


36-AF  
A  
48  
16



40-1  
D  
6 24  
12 16

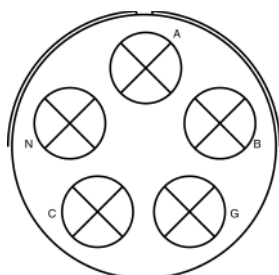
CONTACT LEGEND



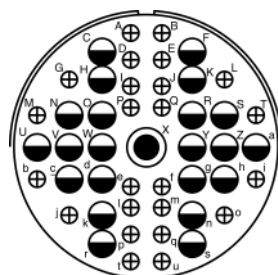
# AC, AC-B

## contact arrangements

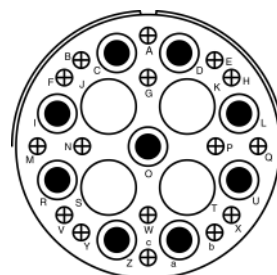
front face of pin insert or rear face of socket insert illustrated



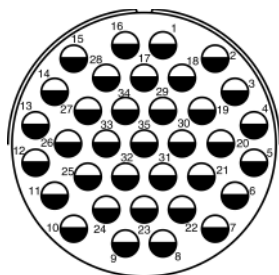
Insert Arrangement	40-5
Service Rating	A
Number of Contacts	5
Contact Size	0



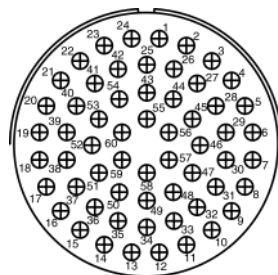
Insert Arrangement	40-9
Service Rating	A
Number of Contacts	1 22 24
Contact Size	8 12 16



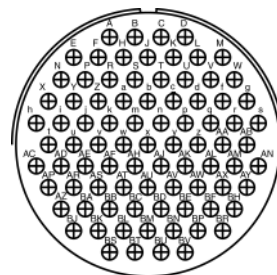
Insert Arrangement	40-10
Service Rating	A
Number of Contacts	4 9 16
Contact Size	4 8 16



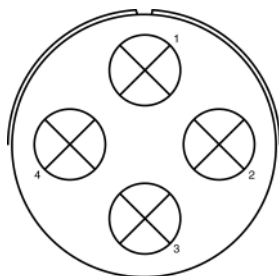
Insert Arrangement	40-35
Service Rating	D
Number of Contacts	35
Contact Size	12



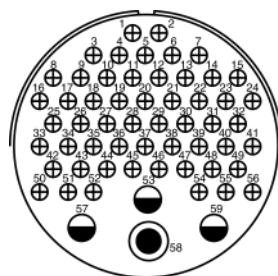
Insert Arrangement	40-53
Service Rating	A
Number of Contacts	60
Contact Size	16



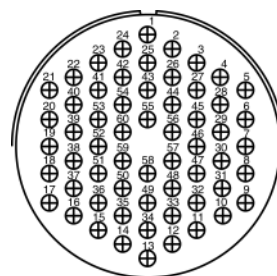
Insert Arrangement	40-56
Service Rating	A
Number of Contacts	85
Contact Size	16



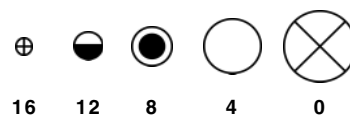
Insert Arrangement	40-57
Service Rating	E
Number of Contacts	4
Contact Size	0



Insert Arrangement	40-61
Service Rating	A
Number of Contacts	1 3 55
Contact Size	8 12 16



Insert Arrangement	40-62
Service Rating	A
Number of Contacts	60
Contact Size	16

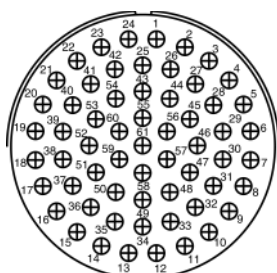


CONTACT LEGEND

# AC, AC-B

## contact arrangements

front face of pin insert or rear face of socket insert illustrated



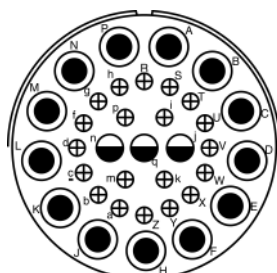
40-63

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A

61

16 for #14 wire

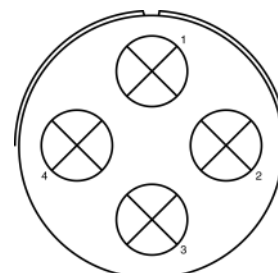


40-64

—

3 20 13

12 16 8 (Coax) RG-124/U

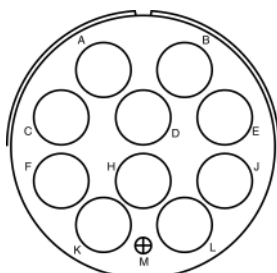


40-66

—

4

0 (Coax) RG-63B/U



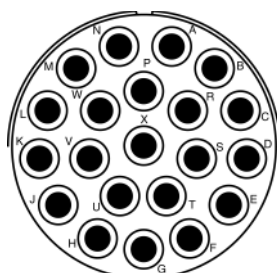
40-67

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A

1 10

16 4 (Coax) RG-59/U

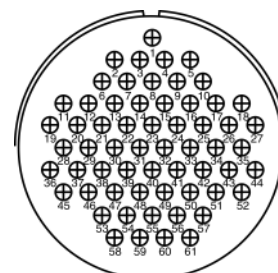


40-68

A

21

8

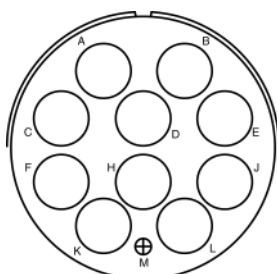


40-70

A

61

16



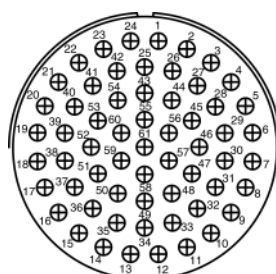
40-72

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

A

1 10

16 4 (Coax) RG-9B/U

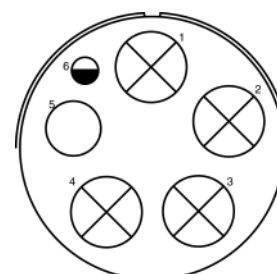


40-73

A

61

16



40-74

A

1 1

12 4 (Coax) RG-62/U

4

0 (Coax) RG-9B/U or RG-214/U



CONTACT LEGEND

16

12

8

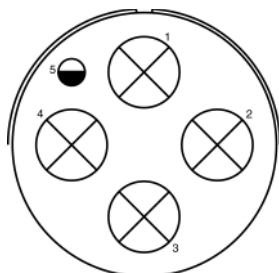
4

0

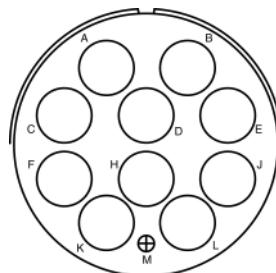
# AC, AC-B

## contact arrangements

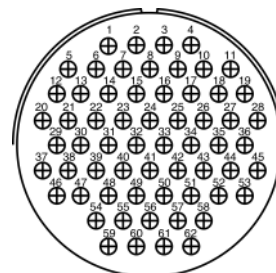
front face of pin insert or rear face of socket insert illustrated



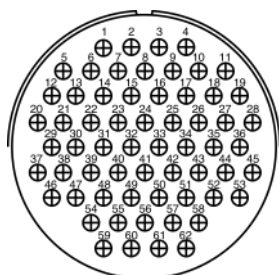
Insert Arrangement	40-75
Service Rating	E
Number of Contacts	1 4
Contact Size	12 0



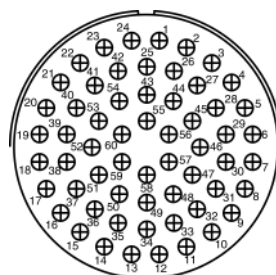
Insert Arrangement	40-80
Service Rating	A
Number of Contacts	1 10
Contact Size	16 4



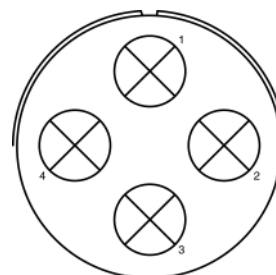
Insert Arrangement	40-81
Service Rating	A
Number of Contacts	62
Contact Size	16 for #14 wire



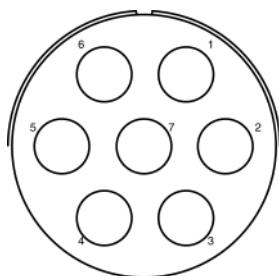
Insert Arrangement	40-82
Service Rating	A
Number of Contacts	62
Contact Size	16



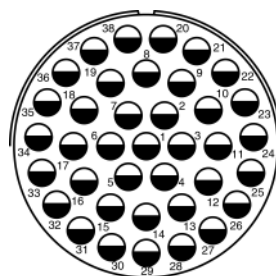
Insert Arrangement	40-85
Service Rating	A
Number of Contacts	60
Contact Size	16 for #14 wire



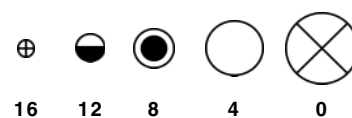
Insert Arrangement	40-86
Service Rating	-
Number of Contacts	4
Contact Size	0 (Coax) RG-115A/U



Insert Arrangement	40-87
Service Rating	D
Number of Contacts	7
Contact Size	4



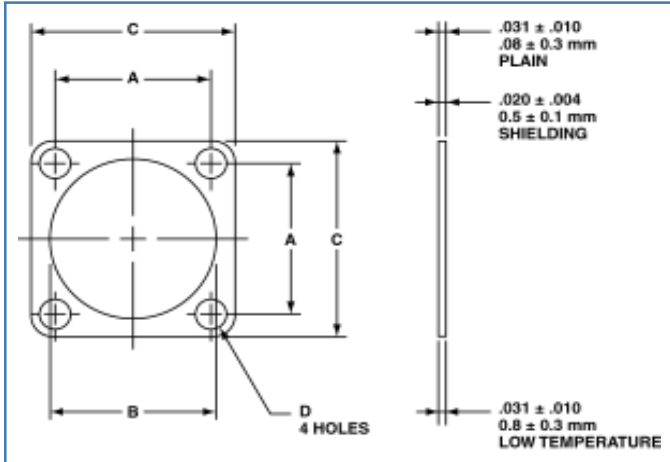
Insert Arrangement	40-AG
Service Rating	A
Number of Contacts	38
Contact Size	12



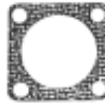
# AC, AC-B – accessories

## 10-40450, 10-36675 sealing gaskets, 10-405996 sealing plugs, sealing ranges

### SEALING GASKETS



The Amphenol plain flat gasket of synthetic rubber material is provided to take complete advantage of waterproof and pressure sealing features. It is for use with the flange mounted receptacle.



This flat gasket is provided to give the maximum in connector performance. Its special feature is in providing the maximum radio shielding under difficult conditions of high receiver sensitivity and low signal strength while retaining the sealing characteristics of the plain gasket. This gasket is for use with the flange mounting receptacle.

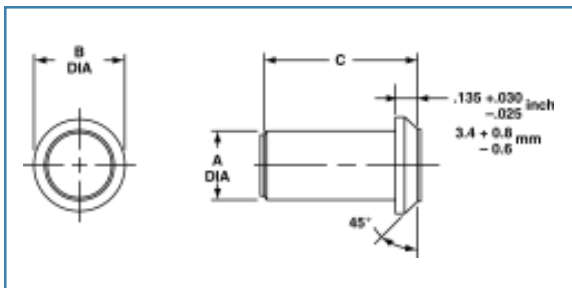


This gasket is provided for applications where the major requirement is resistance to the injurious effects of extremely low temperature. Even at temperatures as low as  $-67^{\circ}\text{F}$  this gasket retains its resiliency and will seal a pressure differential of 30 psi.

MS Shell Size	Installation Dimensions								Order Data		
	Inches				Millimeters				Plain	Shielding	Low Temperature Style
	A ± .010	B + .016 - .000	C + .016 - .000	D ± .010	A ± .25	B + .41 - .00	C + .41 - .00	D ± .25			
8S	.594	.500	.875	.172	15.09	12.70	22.22	4.37	10-40450-8	10-40450-8S	10-36675-8
10S	.719	.625	1.000	.172	18.26	15.88	25.40	4.37	10-40450-10	10-40450-10S	10-36675-10
10SL	.719	.625	1.000	.172	18.26	15.88	25.40	4.37	10-40450-10	10-40450-10S	10-36675-10
12S	.813	.750	1.094	.172	20.65	19.05	27.79	4.37	10-40450-12	10-40450-12S	10-36675-12
12	.813	.750	1.094	.172	20.65	19.05	27.79	4.37	10-40450-12	10-40450-12S	10-36675-12
14S	.906	.875	1.188	.172	23.01	22.22	30.18	4.37	10-40450-14	10-40450-14S	10-36675-14
14	.906	.875	1.188	.172	23.01	22.22	30.18	4.37	10-40450-14	10-40450-14S	10-36675-14
16S	.969	1.000	1.281	.172	24.61	25.40	32.54	4.37	10-40450-16	10-40450-16S	10-36675-16
16	.969	1.000	1.281	.172	24.61	25.40	32.54	4.37	10-40450-16	10-40450-16S	10-36675-16
18	1.063	1.125	1.375	.203	27.00	28.57	34.92	5.16	10-40450-18	10-40450-18S	10-36675-18
20	1.156	1.250	1.500	.203	29.36	31.75	38.10	5.16	10-40450-20	10-40450-20S	10-36675-20
22	1.250	1.375	1.625	.203	31.75	34.92	41.27	5.16	10-40450-22	10-40450-22S	10-36675-22
24	1.375	1.500	1.750	.203	34.92	38.10	44.45	5.16	10-40450-24	10-40450-24S	10-36675-24
28	1.563	1.750	2.000	.203	39.70	44.45	50.80	5.16	10-40450-28	10-40450-28S	10-36675-28
32	1.750	2.000	2.250	.219	44.45	50.80	57.15	5.56	10-40450-32	10-40450-32S	10-36675-32
36	1.938	2.188	2.500	.219	49.23	55.58	63.50	5.56	10-40450-36	10-40450-36S	10-36675-36
40	2.188	2.438	2.750	.219	55.58	61.93	69.85	5.56	10-40450-40	10-40450-40S	10-36675-40

### SEALING PLUG 10-405996-XX

Sealing plugs are used to fill unused holes in multi-holed grommet configurations.



Order No.	Contact Size	Wire Size	Color Code	Inches			Millimeters		
				A Dia ± .010	B ± .005	C ± .010	A Dia ± 0.2	B ± 0.1	C ± 0.2
10-405996-16	16	20-16	Blue	.083	.133	.564**	2.1	3.4	14.3***
10-405996-12	12	14-12	Yellow	.121	.171	.564**	3.1	4.3	14.3***
10-405996-8	8	10-8	White	.185	.315	.470	4.7	8.0	11.9
10-405996-4	4	4-6	Blue	.310	.415	.470	7.9	10.5	11.9
10-405996-0	0	0-2	Yellow	.440	.605	1.000	11.2	15.4	25.4

\*\* ± .020  
\*\*\* ± 0.5 mm

### GROMMET HOLE SEALING RANGE

Hole Size	Sealing Range	
	Millimeters	Inches
16	2.3 – 3.0	.090 – .118
12	3.2 – 4.5	.126 – .177
8	3.8 – 6.5	.150 – .256
4	7.1 – 9.3	.279 – .366
0	10.0 – 13.7	.394 – .539

All dimensions for reference only.

# AC, AC-B Series

## solder contacts

Machined copper alloy contacts in a full range of sizes, with closed entry socket design in the size 12 and 16 contacts. A heavy silver-plated finish is deposited on all solder contacts for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop.

### SOLDER CONTACTS\*

Part Number	Pin/Socket	Mating End Size	Wire Barrel Size	Allowable Wire Size	Test Current** Amps
10-40569	Pin	16 Short†	16	16	13
10-597107-161 or 10-597424-001	Socket			18	10
				20	7.5
				22	5
10-40599	Pin	16 Long	16	16	13
10-597107-171 or 10-597422-001	Socket			18	10
				20	7.5
				22	5
10-33646	Pin	12	12	12	23
10-597107-131	Socket			14	17
10-35531	Pin	8	8	8	46
10-35532	Socket			10	33
10-35529	Pin	4	4	4	80
10-35530	Socket			6	60
10-35527	Pin	0	0	0	150
10-35528	Socket			1	125
				2	100

\* Solder Wells Filled

\*\* Contact ratings as stated are test ratings only. The connector may not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

† The 10SL, 12S, 14S and 16S connectors require short contacts.

**Table I**  
**CONTACT ARRANGEMENT**  
**SERVICE RATING**

MS Service Rating	Recommended Operating Voltage* at Sea Level		Effective Creepage Distance Nom.	Mechanical Spacing Nom.
	D C	AC (RMS)		
Inst.	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

\* The values listed in Table I represent operating values which include a generous safety factor. It may be necessary for some applications to exceed the operating voltages listed here. If this is necessary, designers will find Table II useful for determining the degree to which the recommended values of Table I can be exceeded.

**Table II**  
**ALTITUDE VOLTAGE**  
**DERATING\*\* CHART**

MS Service Rating	Nominal Distance		Standard Sea Level Conditions		Pressure Altitude † 50,000 Feet		Pressure Altitude† 70,000 Feet	
	Airspace	Creepage	Minimum Flashover Voltage	Test Voltage	Minimum Flashover Voltage	Test Voltage	Minimum Flashover Voltage	Test Voltage
			AC (RMS)	AC (RMS)	AC (RMS)	AC (RMS)	AC (RMS)	AC (RMS)
Inst.	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature

\*\* No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

# AC, AC-B Series

## crimp contacts

Machined from copper alloys and silver-plated for maximum corrosion resistance, with a minimum millivolt drop and a maximum current carrying capacity, the size 16 and 12 socket contacts are of the closed entry design. Crimp contacts are available for all insert arrangements and are identified with a Amphenol® proprietary number. Gold plated contacts are also available. (See how to order on page 40).

### CRIMP CONTACTS\*

Part Number	Pin/Socket	Mating End Size	Wire Barrel Size	Allowable Wire Size	Required Wire Adapter Sleeve	Test Current* Amps
10-40553	Pin	16 Short†	16	16	—	13
10-597109-161	Socket			18	—	10
				20	—	7.5
				22*	0-74696-6	5
10-40557	Pin	16 Long	16	16	—	13
10-597109-171	Socket			18	—	10
				20	—	7.5
				22*	10-74696-6	5
10-40561	Pin	12	12	12	—	23
10-597109-131	Socket			14	—	17
10-40792	Pin	8	8	8	—	46
10-40793	Socket			10*	10-74696-1	33
10-40564	Pin	4	4	4	—	80
10-40565	Socket			6*	10-74696-2	60
10-581806-000	Pin	0	0	0	—	150
10-581808-000	Socket			2*	10-74696-7	125

\* When using wire adapter sleeve shown

\*\* Contact ratings as stated are test ratings only. The connector may not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

† The 10SL, 12S, 14S and 16S connectors require short contacts.

Additional contact variations are available; consult Amphenol, Sidney NY for information.

**Table I**  
**CONTACT ARRANGEMENT**  
**SERVICE RATING**

M S Service Rating	Recommended Operating Voltage* at Sea Level		Effective Creepage Distance Nom.	Mechanical Spacing Nom.
	D C	AC (RMS)		
Inst.	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

**Table II**  
**ALTITUDE VOLTAGE**  
**DERATING\*\* CHART**

MS Service Rating	Nominal Distance		Standard Sea Level Conditions		Pressure Altitude † 50,000 Feet		Pressure Altitude † 70,000 Feet	
	Airspace	Creepage	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Minimum Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature.

\*\* No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

# AC, AC-B Series

## application tools, torque values

When proprietary crimp contacts are employed rather than the standard MS approved solder contacts, the following application tools are recommended for use. There is a possibility of additional crimping tools other than those included being available at present or in the future for this specific application.

Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary crimp contacts in AC and AC-B Series connectors are available in publication L-757.

**TOOLING CHART**

Crimping Tool	Positioner/Turret	Contact Size	Contact Style	Insertion Tool	Removal Tool
M22520/1-01	*	16	Pin & Socket	11-7345	11-8250 Kit
M22520/1-01	*	12	Pin & Socket	11-7082	11-8250 Kit
**	**	8	Pin & Socket	11-8220	11-8250 Kit
**	**	4	Pin & Socket	11-7365-4 †	Pin 11-7370-4 † Socket 11-7674-2 †
**	**	0	Pin & Socket	11-7365-5 †	Pin 11-7370-5 † Socket 11-7674-3 †

\* Use Daniels Turret TH29-1 or Astro Tool Co. Turret 616266

\*\* For appropriate crimp tool and positioner refer to Pico Crimping Tool Co.

† Tools used with Arbor Press 11-7364

**RECOMMENDED TORQUE FORCES  
CONNECTOR BACKSHELLS**

Size	In./Lb. Max.	Size	In./Lb. Max.
10SL	26	22	85
14S	44	24	90
16	50	28	114
16S	50	32	120
18	55	36	153
20	65	40	170

# AC, AC-B Series

## how to order

To more easily illustrate ordering procedure, part number ACCL06AF18-1SXB(025) is shown as follows:

<u>AC</u>	<u>C</u>	<u>L</u>	<u>06</u>	<u>AF</u>	<u>18-1</u>	<u>S</u>	<u>X</u>	<u>B</u>	<u>(025)</u>
1	2	3	4	5	6	7	8	9	10

1. AC designates Amphenol Industrial Series Connectors
2. C designates Crimp Contacts  
S designates Solder Contacts
3. L designates low smoke zero halogen inserts and grommets  
Omit for standard resilient inserts and grommets.
4. Shell Style  
00 - Wall Mounting Receptacle  
01 - Line Receptacle  
02 - Box Mounting Receptacle  
05 - Straight Plug  
06 - Straight Plug with hardware  
08 - 90 degree Plug
5. Class  
A or AF - General duty connector  
E or F - Environmental connector for a wire bundle  
PGA or  
PGR - Environmental connector for jacketed cable
6. Shell size and insert arrangement  
See insert availability on pages 12 - 14
7. Contact type  
P - Pin contacts  
S - Socket contacts  
R - RADSOK® socket contacts\* (see page 41)
8. Alternate insert rotation  
“W”, “X”, “Y”, “Z” designates that the insert is rotated in its shell from a normal position. No letter required for normal (no rotation) position.  
See page 15 for availability.
9. Bayonet or Threaded Connector Series  
B - designates Reverse Bayonet Coupling  
No letter required for Threaded Coupling
10. Variations  
(003) - Olive drab cadmium plate finish  
(023) - Electroless nickel finish  
(024) - Green zinc alloy finish  
(025) - Black zinc alloy finish  
(027) - Conductive black zinc alloy finish  
(G96) - Black hard-coat anodize  
(A24) - .000035 gold/nickel on contacts

\* RADSOK sockets available in AC Threaded only. For reverse bayonet connectors, RADSOK is available in the GT Series. For more information on Amphenol GT Series, see page 44 and Catalog 12-024. And ask for Brochure SL-391 for Amphe-Power Connectors with RADSOK Technology.

# AC Threaded Connectors with RADSOK® Contacts



## RADSOK Contact Design:

- Socket cylinder within female contact has several equally spaced longitudinal beams twisted into a hyperbolic shape.
- As male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss.
- The hyperbolic, stamped grid configuration ensures a large, coaxial, face-to-face surface area engagement.
- Ideal for crimp termination applications requiring repeated mating cycles and high current with a low milli-volt drop.

**AMPHE-POWER™ Connectors with RADSOK® Contacts**  
For the most demanding industrial and transportation applications.



## AC Threaded Connector with RADSOK® High Amperage Contacts

The new RADSOK contact design has been incorporated into three of the time-tested and reliable families of Amphenol Industrial Connectors, all of which are MIL-C-5015 styles. These series include the AC Threaded 5015, the P-Lok Series, and the GT Series. (Not available in AC Bayonet types currently).

Amphe-Power connectors with RADSOK sockets can handle up to 150% higher amperages than connectors with standard contacts. Current Amphe-Power product lines support from 50A to 500A continuous duty. RADSOK contacts are available in size 8 (69 amps), size 4 (120 amps), and size 0 (250 amps).

## RADSOK Contact Advantages:

- Low contact resistance - the RADSOK contact's multiplicity of flat grid surfaces assures the greatest possible contact area on the mating pin. This results in longer life - reduced contact pressure yields reduced wear.
- Low milli-volt drop performance - due to the intimate contact provided by the spring force of the grid, the flat contact surface and the wiping action during insertion.
- Higher current capacity with minimized temperature rise. Lower overall contact resistance reduces heat build-up, thereby allowing higher current capacities at given temperature limits. Connectors with RADSOK contacts may be produced in various sizes with a variety of amperage capabilities.
- Reliability under vibration and shock. System inertia is minimized by the small package and the fact that the contact is under a spring load.
- High quality, consistency and lower cost with high speed, automated precision stamping and assembly technology

Amphe-Power AC 5015 Connectors can be ordered with the same part numbering configuration as shown on page 40, except use the letter R for contact type. See Brochure SL-391, Amphenol Amphe-Power Connectors with RADSOK Technology for RADSOK layouts that are currently tooled and for further information.

# Additional Products

## other MIL-C-5015 type connectors from Amphenol

### MS/Standard MIL-C-5015 Type Connectors

Amphenol has long been the accepted leader in providing MS/Standard MIL-C-5015 type connectors. When a Mil-Spec 5015 connector is required, these connectors provide well-proven electrical capability. They are tested to strict adherence to military specifications, and they are offered in a very broad range of product styles and options. Features include:

- medium to heavy weight cylindrical with resilient inserts
- environmental resistant
- threaded couplings, single key/keyway shell polarization
- operating voltage to 3000 VAC (RMS) at sea level
- 5 shell styles, 19 shell sizes, 280 contact arrangements
- solder or crimp contacts (non-rear-release type), sizes 16–0 accepting 22–0 AWG
- coaxial or thermocouple contact options
- alternate insert positioning
- hermetic configurations available
- zinc alloy plating (cadmium-free) available

Within the MS/Standard family there are five mil-spec classes to meet different requirements:

- A – Solid Shell – for general, non-environmental applications.
- C – Pressurized – for use on pressurized bulkheads or pressure barriers; limits air leakage regardless of type and class of plug mated with them.
- E/F – Environmental Resisting with Strain Relief – designed for applications where the connector will be exposed to moisture, vibration, and rapid changes in pressure and temperature.
- R – Lightweight Environmental Resisting – shorter in length, lighter in weight than the E & F classes, the MS-R offers a high degree of reliability under adverse conditions: recommended for new design applications.

Ask for Amphenol catalog 12-020 which gives detailed information on this family of connectors.

### MIL-C-5015 Modifications

In order to supplement standard MS shell styles and provide a greater variety of styles for the electrical connector user, there are several MS and MS Modified cylindrical connectors offered by Amphenol.

These types include flange mount plugs, thru bulkhead receptacles, jam nut receptacles, connectors for potting and connectors designed specifically to terminate jacketed cable.

Ask for Amphenol catalog 12-021 for detailed information.

### 97 Series, MIL-C-5015 Type Connectors

The low cost, general duty connector used extensively in the machine tool industry, welding industry and numerous other industrial applications, is the Amphenol 97 Series. Offered in non-environmental styles, these connectors have hard dielectric inserts and threaded coupling. They are Underwriters Laboratories Recognized and Canadian Standards Association Certified.

Ask for Amphenol catalog 12-022 for detailed information.



Amphenol® MS/Standard MIL-C-5015 Connectors



Amphenol® 97 Series Connectors

# Additional Products

## other MIL-C-5015 type connectors from Amphenol

### Amphenol® Swiftmate® Connectors

Swiftmate is a series of general duty connector plugs that mate and lock to MIL-C-5015 style threaded receptacles in the most popular sizes and configurations with a simple push of the connector plug.

Disengaging the connection is equally as simple; pull back on the coupling ring and remove the plug from the receptacle. This is accomplished with Amphenol's new patented Swiftmate coupling system. Swiftmate connectors meet the vibration requirements of MIL-STD-810, category 10 for general equipment.

This coupling system works without damaging the receptacles' thread, allowing both Swiftmate connectors and the older threaded style connectors to share the same receptacle. This allows equipment manufacturers to offer the enhanced features of rapid mating connectors while maintaining compatibility with equipment currently in the field. Swiftmate connectors feature solder style silver plated contacts and the same electrical characteristics as MIL-C-5015 connectors.

Swiftmate connectors offer an economical solution to commercial and industrial connector applications. Applications include material handling, conveyor systems, parts control, automated assembly lines, test equipment, machine controls, robotics, as well as many more. Ask for Amphenol brochure SL-390 for detailed information on Swiftmate Connectors.



Swiftmate's coupling system uses an internal ring of formed locking fingers that glide over the threads of the receptacle. Creates a positive lock of the plug and receptacle.

### Amphenol® Pre-Earth FMLB Connectors

Amphenol Pre-Earth/First Mate Last Break Connectors are designed for applications where a protective circuit from the ground contact to the shell is a safety requirement. These connectors provide a path for any stray voltage to be shunted to a safe ground, avoiding harm to the operator and the voltage sensitive equipment.

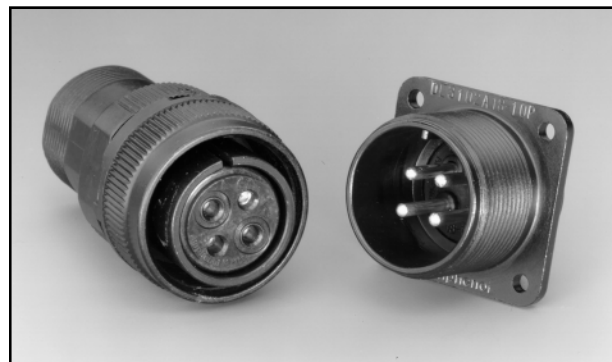
#### Features of Pre-Earth FMLB (DL Series) Connectors:

- MIL-C-5015 dimensions and performance where applicable.
- Conformity with European safety standards (DIN VDE 0627 and certified through TUV Product Service GMBH) in the approved insert arrangement. Offered in shell styles: 3102A box mount, 3106A straight plug, 3108A 90 degree plug.
- Intermateable with MS 5015 and 97 Series styles.
- Class IP67 protection in the mated condition.
- Main joint gasket between plug and receptacle shells provides superior moisture sealing.
- Pre-earth (ground contact) design.
- First mate, last break capability.
- Standard plating is black zinc alloy. Green zinc plating is an option.

Ask for Amphenol Product Data sheet #187 for detailed information on Pre-Earth FMLB Connectors.

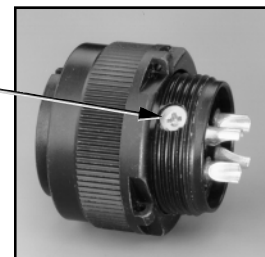
See Amphenol Industrial product catalogs online at [www.amphenol-industrial.com](http://www.amphenol-industrial.com).

See Amphenol Military Aerospace product catalogs online at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com).



### Amphenol® Pre-Earth FMLB Connectors

Pre-Earth (ground) contact mates first and provides safety from voltage outputs - protects operators and sensitive circuits.



# Additional Products

## other MIL-C-5015 type connectors from Amphenol

### GT Reverse Bayonet Connectors

Amphenol GT Series of Connectors are heavy duty, rugged and environmentally resistant, and are the preferred interconnect for the mass transit industry. They are also used in power generation, petro-chemical industries and heavy equipment/geophysical marketplaces. GT connectors utilize MIL-C-5015 inserts and are interchangeable with existing VG95234 connectors.

Other features include:

- reverse bayonet coupling - quick mating, audible, visual and tactile full mating indicators.
- UL recognized
- rated to 2000 couplings min.
- operating temperature range:
  - with Neoprene inserts:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
  - with Viton\*\* inserts:  $-50^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$
  - with low smoke/flame retardant inserts:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- available in both crimp and solder termination
- rugged construction - aluminum or stainless steel components
- numerous military and commercial finishes available including zinc alloy (cadmium free)
- resilient inserts provide high dielectric strength and moisture barrier. IP67 performance in environmental versions
- over 40 varieties of shell styles and backend accessory combinations, including the following specials:
  - GT-PC with first mate/last break
  - GT for HMI lighting industry with color-coded receptacles and backshells
  - GTC-M for high voltage power applications
- resilient cover coupling nuts available for added damage protection and increased gripping surface

Ask for Amphenol catalog 12-024 for further information on GT Series Connectors.

Amphenol Power GT Connectors are also available that incorporate RADSOK socket contacts. See page 41 for advantages and features of RADSOK contacts for high amperage capability.

See Amphenol Industrial product catalogs on-line at [www.amphenol-industrial.com](http://www.amphenol-industrial.com).  
See Amphenol Military Aerospace product catalogs on-line at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com).



**Amphenol® GT Reverse Bayonet Connectors**