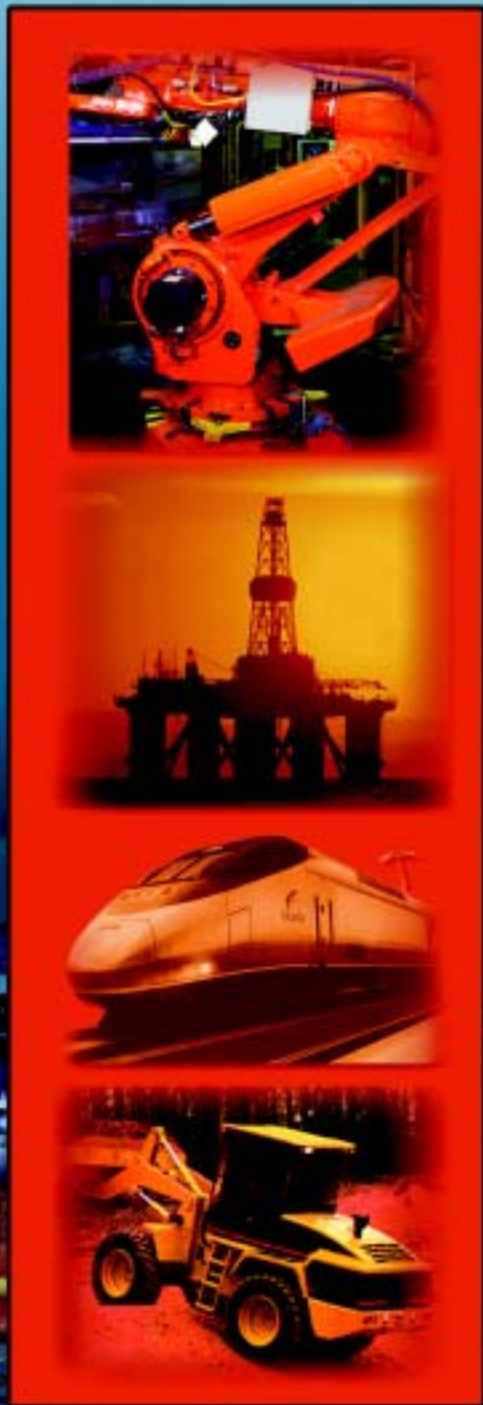


# Amphenol® AC Threaded Series Industrial Cylindrical Connectors

12-025-6



**Amphenol**

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For additional information on AC 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)**

This catalog can be viewed, printed and saved from website: [www.amphenol-industrial.com](http://www.amphenol-industrial.com). Visit this website and also [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com) for Amphenol catalogs.

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.

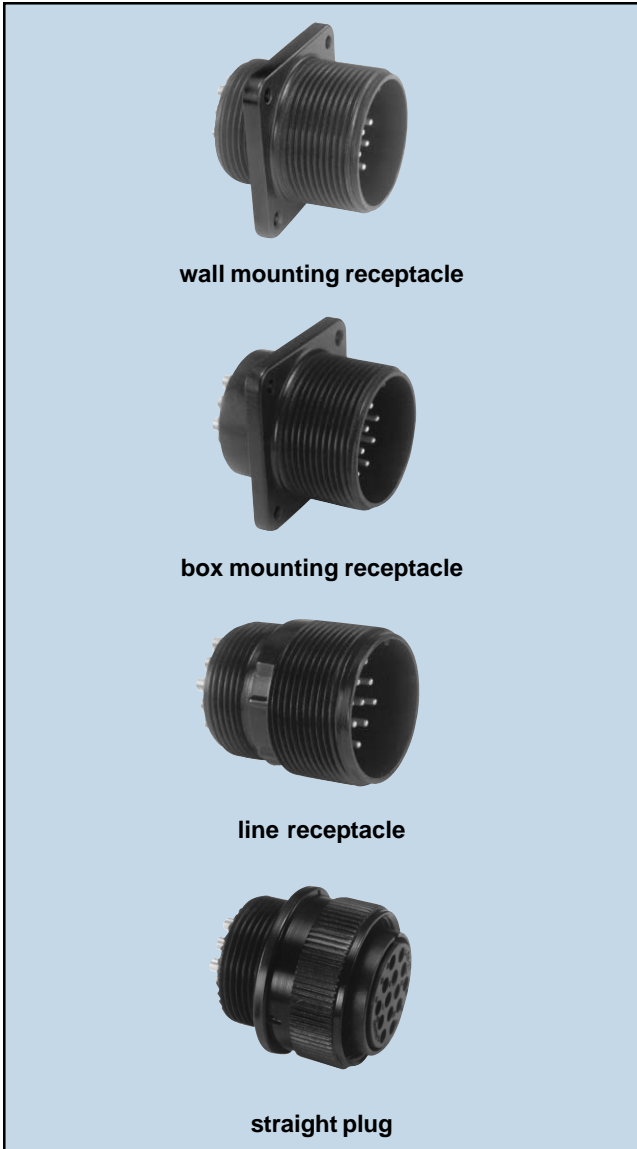
For specific questions about RoHS compliance, consult Amphenol Industrial Operations, or call the RoHS Product Compliance and Technical Support line: 1-866-315-8559

Amphenol Aerospace is a Certified ISO 9001 Manufacturer.

# Amphenol® AC Series

## industrial application threaded style connector

### AC Threaded Series



wall mounting receptacle

box mounting receptacle

line receptacle

straight plug

### AC Threaded Connectors with RADSOK® High Amperage Contacts



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 coupling
- 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

**Ampe-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 Ampe-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).

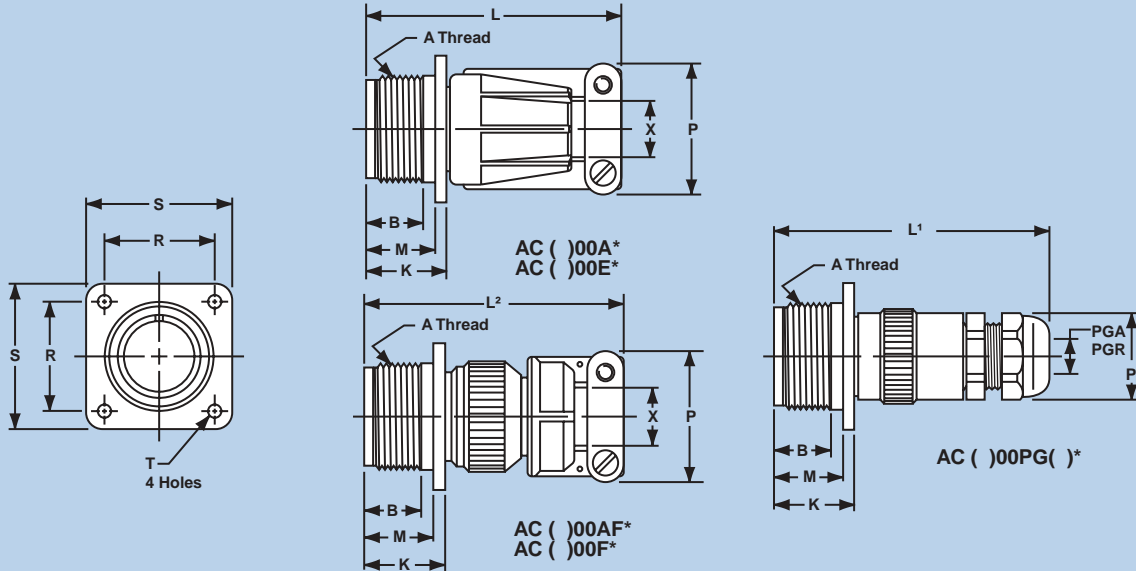
See page 39 for more information.

**Note:** The previous AC-B Bayonet series is replaced by the newer ACA-B Reverse Bayonet series. For availability of the AC-B, consult Amphenol Industrial Operations. For information on ACA-B Reverse Bayonet series connectors see page 38, or Amphenol catalog 12-027.



**RoHS Compliant options available.** See page 37 for information.

# AC Threaded wall mounting receptacle



\* To complete order number, see how to order, page 37.

Inches

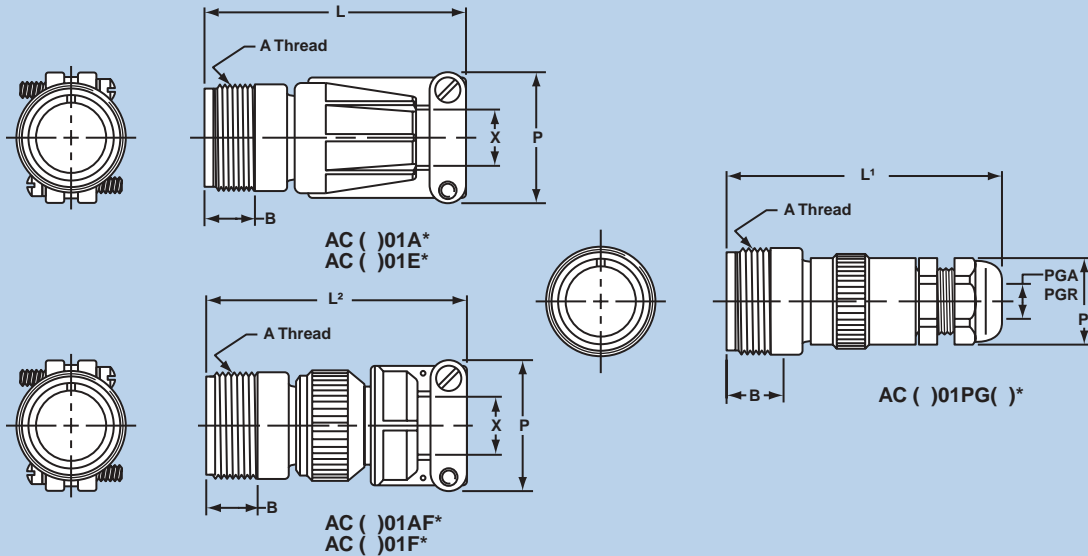
| Shell Size | A Thread Class 2A | B Min Full Thread | K +.020 -.010 | L Max | L' Max | L <sup>2</sup> Max | M +.010 -.000 | P Max | P <sup>1</sup> Hex Flats Ref | PGA Ref   | PGR Ref   | R ±.005 | S ±.010 | T Dia +.004 -.002 | X Max O.D. Cable |
|------------|-------------------|-------------------|---------------|-------|--------|--------------------|---------------|-------|------------------------------|-----------|-----------|---------|---------|-------------------|------------------|
| 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 | L <sup>2</sup> 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 37.

Inches

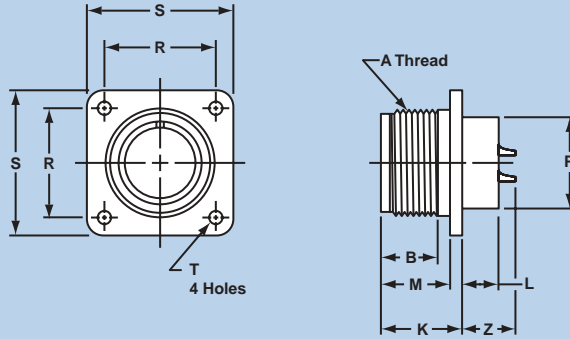
| Shell Size | A Thread Class 2 A | B Min Full Thread | L Max | L' Max | L2 Max | P Max | P1 HexFlats Ref | PGA Ref   | PGR Ref   | X Max O.D. Cable |
|------------|--------------------|-------------------|-------|--------|--------|-------|-----------------|-----------|-----------|------------------|
| 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 | L2 Max | P Max | P1 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 37.

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    |

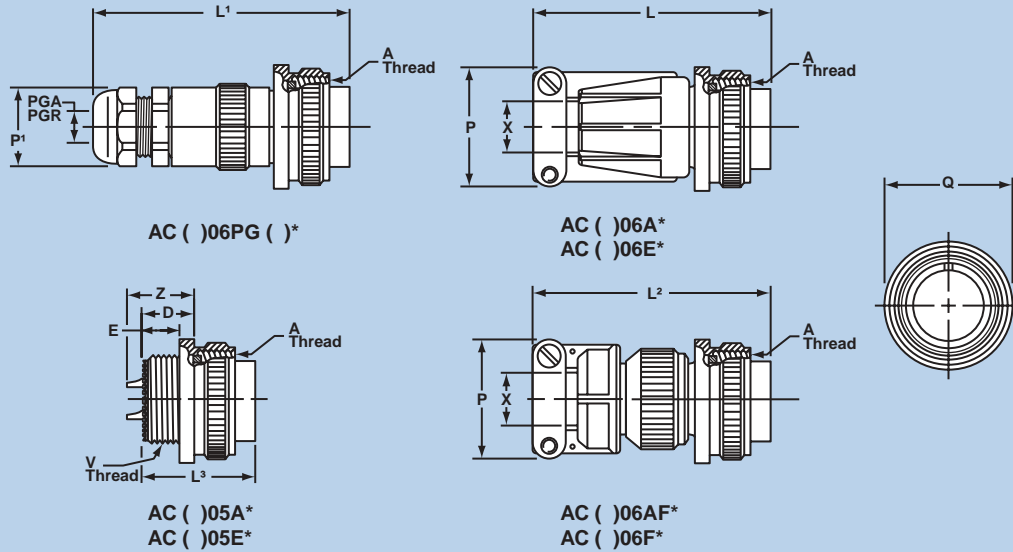
Millimeters

| 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 37.

Inches

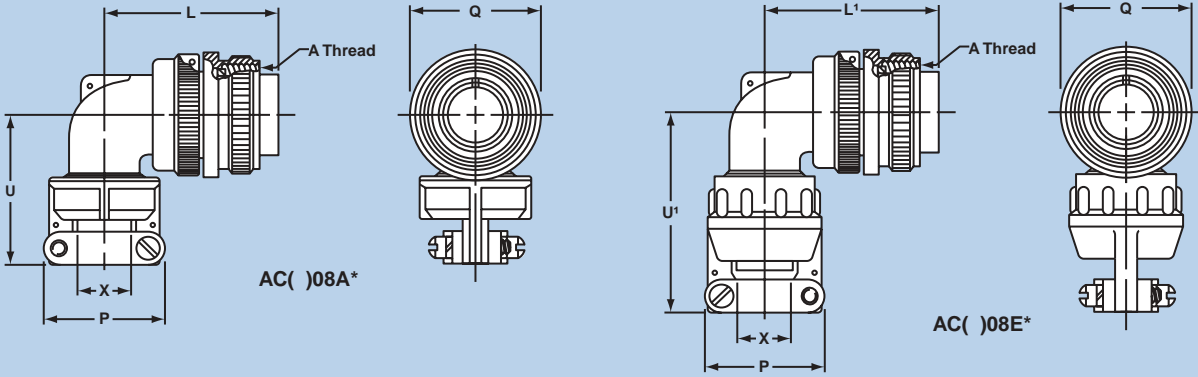
| Shell Size | A Thread Class 2B | D ±.010 | E +.020 -0.030 | L Max | L' Max | L <sup>2</sup> Max | L <sup>3</sup> Max | P Max | P <sup>1</sup> Hex Flats Ref | PGA Ref   | PGR Ref   | Q Max | VThread Plated Class 2A | X Max O.D. Cable | Z ±.045 |
|------------|-------------------|---------|----------------|-------|--------|--------------------|--------------------|-------|------------------------------|-----------|-----------|-------|-------------------------|------------------|---------|
| 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 ±.25 | E +.51 -0.76 | 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 ±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 37.

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 Series

## 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-1              | A              | 3              |              |   |   |    | 3  |
| 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  |

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

| 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  |
| 22-17              | D/A            | 9              |              |   |    | 1  | 8  |
| 22-18              | D/A            | 8              |              |   |    |    | 8  |

\* 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 11-32 for application wire size.

# AC Series

## insert availability, cont.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |     |   |   |   |    |    |        |    |    |    |  |  |  |  |  |    |
|--------------------|----------------|----------------|--------------|-----|---|---|---|----|----|--------|----|----|----|--|--|--|--|--|----|
|                    |                |                | 4/0          | 2/0 | 0 | 4 | 8 | 12 | 16 | Coax** |    |    |    |  |  |  |  |  |    |
|                    |                |                |              |     |   |   |   |    |    | 0      | 4  | 8  | 12 |  |  |  |  |  |    |
| 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  |    |  |  |  |  |  |    |
| 22-36              | D/A            | 8              |              |     |   |   |   |    |    |        | 8  |    |    |  |  |  |  |  |    |
| 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      |    |    |    |  |  |  |  |  |    |
| 24-19              | A              | 12             |              |     |   |   |   |    |    |        |    | 12 |    |  |  |  |  |  |    |
| 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 |    |  |  |  |  |  |    |
| 28-1               | D/A            | 9              |              |     |   |   |   |    | 3  | 6      |    |    |    |  |  |  |  |  |    |
| 28-2               | D              | 14             |              |     |   |   |   |    |    |        | 2  | 12 |    |  |  |  |  |  |    |

\* 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 11-32 for application wire size.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |     |   |   |   |    |    |        |   |   |    |    |  |  |   |  |  |
|--------------------|----------------|----------------|--------------|-----|---|---|---|----|----|--------|---|---|----|----|--|--|---|--|--|
|                    |                |                | 4/0          | 2/0 | 0 | 4 | 8 | 12 | 16 | Coax** |   |   |    |    |  |  |   |  |  |
|                    |                |                |              |     |   |   |   |    |    | 0      | 4 | 8 | 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 |  |  |   |  |  |
| 32-14              | D              | 13             |              |     |   |   |   |    |    |        |   |   | 13 |    |  |  |   |  |  |
| 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 |  |  |   |  |  |
| 32-48              | Inst.          | 48             |              |     |   |   |   |    |    |        |   |   |    | 48 |  |  |   |  |  |
| 32-52              | D              | 8              |              |     |   |   |   |    |    | 2      |   |   | 6  |    |  |  |   |  |  |
| 32-53              | Inst./E        | 42             |              |     |   |   |   |    |    |        |   |   | 5  | 37 |  |  |   |  |  |

\*\*Coaxial cable data can be found on insert arrangement drawings, pages 11-32. For further information on coaxial contacts and cable see catalog 12-130.

# AC Series

## insert availability, cont.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |     |   |   |   |    |    |        |   |   |    |  |  |  |  |  |  |
|--------------------|----------------|----------------|--------------|-----|---|---|---|----|----|--------|---|---|----|--|--|--|--|--|--|
|                    |                |                | 4/0          | 2/0 | 0 | 4 | 8 | 12 | 16 | Coax** |   |   |    |  |  |  |  |  |  |
|                    |                |                |              |     |   |   |   |    |    | 0      | 4 | 8 | 12 |  |  |  |  |  |  |
| 32-56              | A              | 30             |              |     |   |   |   | 6* | 24 |        |   |   |    |  |  |  |  |  |  |
| 32-57              | Coax           | 8              |              |     |   |   |   | 6  |    | 2      |   |   |    |  |  |  |  |  |  |
| 32-58              | Coax           | 4              |              |     |   |   |   |    |    |        | 4 |   |    |  |  |  |  |  |  |
| 32-59              | A              | 42             |              |     |   |   |   |    | 40 |        |   | 2 |    |  |  |  |  |  |  |
| 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      |   |   |    |  |  |  |  |  |  |
| 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*    |   |   |    |  |  |  |  |  |  |

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |     |   |   |   |    |    |        |    |     |    |     |  |  |    |   |  |
|--------------------|----------------|----------------|--------------|-----|---|---|---|----|----|--------|----|-----|----|-----|--|--|----|---|--|
|                    |                |                | 4/0          | 2/0 | 0 | 4 | 8 | 12 | 16 | Coax** |    |     |    |     |  |  |    |   |  |
|                    |                |                |              |     |   |   |   |    |    | 0      | 4  | 8   | 12 |     |  |  |    |   |  |
| 36-83              | Coax           | 7              |              |     |   |   |   |    |    |        |    |     |    |     |  |  |    | 7 |  |
| 36-85              | A/D            | 35             |              |     |   |   |   |    |    |        |    |     |    | 35* |  |  |    |   |  |
| 36-97              | C              | 1              | 1            |     |   |   |   |    |    |        |    |     |    |     |  |  |    |   |  |
| 36-99              | D              | 12             |              |     |   |   |   |    | 3  | 3      | 3  | 3   |    |     |  |  |    |   |  |
| 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 |     |    |     |  |  |    |   |  |
| 40-30              | A              | 30             |              |     |   |   |   |    | 1  |        | 29 |     |    |     |  |  |    |   |  |
| 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-AD              | A              | 8              |              |     |   |   |   |    | 4  |        | 4  |     |    |     |  |  |    |   |  |
| 40-AG              | A              | 38             |              |     |   |   |   |    |    |        |    | 38  |    |     |  |  |    |   |  |
| 40-AP              | E              | 2              | 2            |     |   |   |   |    |    |        |    |     |    |     |  |  |    |   |  |
| 40-AR              | Inst.          | 13             |              |     |   |   |   |    | 3  | 3      |    | 7   |    |     |  |  |    |   |  |
| 40-AS              | A              | 40             |              |     |   |   |   |    |    |        |    | 25  | 15 |     |  |  |    |   |  |
| 40-AT              | A              | 43             |              |     |   |   |   |    |    |        | 1  | 24  | 18 |     |  |  |    |   |  |
| 40-AU              | A              | 14             |              |     |   |   |   |    |    |        | 3  | 10  | 1  |     |  |  |    |   |  |
| 40-AV              | D              | 3              |              |     |   |   |   |    | 3  |        |    |     |    |     |  |  |    |   |  |

\*\*Coaxial cable data can be found on insert arrangement drawings, pages 11-32. For further information on coaxial contacts and cable see catalog 12-130.

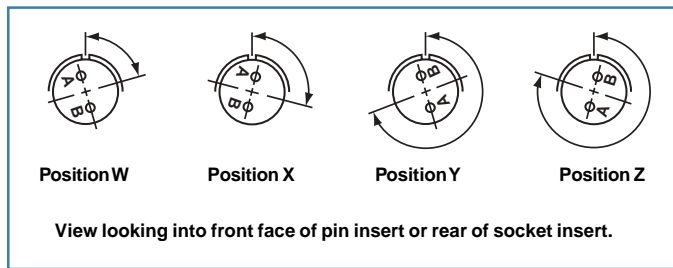
\* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (\*) are exceptions. See insert arrangement drawings on pages 11-32 for application wire size.

# AC Series

## 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  | 20-20 | 22-21 | 24-7  | 28-8  | 32-1  | 36-1  |
| 18-5  | 20-22 | 22-24 | 24-12 | 28-9  | 32-3  | 36-7  |
| 18-9  | 22-3  | 22-25 | 24-14 | 28-10 | 32-4  | 36-8  |
| 18-13 | 22-6  | 22-29 | 24-16 | 28-11 | 32-6  | 36-13 |
| 18-14 | 22-12 | 22-33 | 24-17 | 28-14 | 32-9  | 40-AR |
| 20-7  | 22-14 | 22-34 | 24-20 | 28-15 | 32-10 | 40-AS |
| 20-8  | 22-15 | 24-1  | 24-21 | 28-16 | 32-12 | 40-AT |
| 20-9  | 22-16 | 24-3  | 24-28 | 28-17 | 32-13 | 40-AU |
| 20-12 | 22-17 | 24-4  | 24-AJ | 28-19 | 32-22 |       |
| 20-14 | 22-18 | 24-5  | 28-1  | 28-20 | 32-31 |       |
| 20-16 | 22-19 | 24-6  | 28-4  | 28-21 | 32-AF |       |

| 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 |
| 20-15              | 80      | -   | -   | 280 |
| 20-17              | 90      | 180 | 270 | -   |
| 20-18              | 35      | 110 | 250 | 325 |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 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 |
| 22-63              | 20      | -   | -   | -   |
| 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 |
| 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 | -   |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 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 |
| 32-14              | 65      | 130 | 230 | 295 |
| 32-15              | 35      | 110 | 250 | 280 |
| 32-17              | 45      | 110 | 250 | -   |
| 32-25              | 60      | 120 | -   | -   |
| 32-48              | 80      | -   | -   | -   |
| 32-64              | 80      | 100 | 110 | 250 |
| 32-68              | 30      | -   | -   | -   |
| 32-82              | 30      | -   | -   | -   |
| 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-AD              | 45      | -   | -   | -   |
| 40-AG              | 37      | 74  | 285 | 322 |
| 40-AP              | 35      | 110 | 250 | 325 |
| 40-AV              | 90      | 180 | 270 | -   |

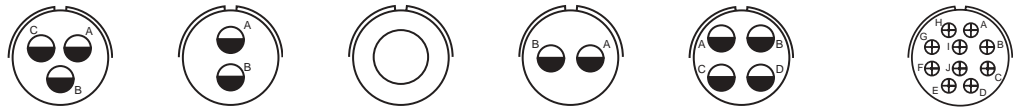
# AC Series contact arrangements

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

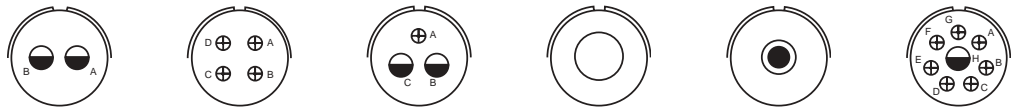
|                           |                        |                        |              |              |                       |                        |              |
|---------------------------|------------------------|------------------------|--------------|--------------|-----------------------|------------------------|--------------|
|                           |                        |                        |              |              |                       |                        |              |
|                           | Front of Socket Insert | Front of Socket Insert |              |              |                       |                        |              |
| <b>Insert Arrangement</b> | <b>10SL-3</b>          | <b>10SL-4</b>          | <b>12S-3</b> | <b>12S-4</b> | <b>12-5</b>           | <b>14S-1</b>           | <b>14S-2</b> |
| <b>Service Rating</b>     | <b>A</b>               | <b>A</b>               | <b>A</b>     | <b>D</b>     | <b>D</b>              | <b>A</b>               | <b>Inst.</b> |
| <b>Number of Contacts</b> | <b>3</b>               | <b>2</b>               | <b>2</b>     | <b>1</b>     | <b>1</b>              | <b>3</b>               | <b>4</b>     |
| <b>Contact Size</b>       | <b>16</b>              | <b>16</b>              | <b>16</b>    | <b>16</b>    | <b>12</b>             | <b>16</b>              | <b>16</b>    |
|                           |                        |                        |              |              |                       |                        |              |
|                           |                        |                        |              |              |                       | 100° Rotation of 14S-2 |              |
| <b>Insert Arrangement</b> | <b>14S-4</b>           | <b>14S-5</b>           | <b>14S-6</b> | <b>14S-7</b> | <b>14S-9</b>          | <b>14S-10</b>          |              |
| <b>Service Rating</b>     | <b>D</b>               | <b>Inst.</b>           | <b>Inst.</b> | <b>A</b>     | <b>A</b>              | <b>Inst.</b>           |              |
| <b>Number of Contacts</b> | <b>1</b>               | <b>5</b>               | <b>6</b>     | <b>3</b>     | <b>2</b>              | <b>4</b>               |              |
| <b>Contact Size</b>       | <b>16</b>              | <b>16</b>              | <b>16</b>    | <b>16</b>    | <b>16</b>             | <b>16</b>              |              |
|                           |                        |                        |              |              |                       |                        |              |
|                           | 100° Rotation of 14S-7 |                        |              |              |                       |                        |              |
| <b>Insert Arrangement</b> | <b>14S-12</b>          | <b>14S-A7</b>          | <b>14-3</b>  | <b>16S-1</b> | <b>16S-3</b>          | <b>16S-4</b>           |              |
| <b>Service Rating</b>     | <b>A</b>               | <b>A</b>               | <b>A</b>     | <b>A</b>     | <b>B</b>              | <b>D</b>               |              |
| <b>Number of Contacts</b> | <b>3</b>               | <b>7</b>               | <b>1</b>     | <b>7</b>     | <b>1</b>              | <b>2</b>               |              |
| <b>Contact Size</b>       | <b>16</b>              | <b>16</b>              | <b>8</b>     | <b>16</b>    | <b>16</b>             | <b>16</b>              |              |
|                           |                        |                        |              |              |                       |                        |              |
| <b>Insert Arrangement</b> | <b>16S-5</b>           | <b>16S-6</b>           | <b>16S-8</b> | <b>16-2</b>  | <b>16-7</b>           | <b>16-9</b>            |              |
| <b>Service Rating</b>     | <b>A</b>               | <b>A</b>               | <b>A</b>     | <b>E</b>     | <b>A</b>              | <b>A</b>               |              |
| <b>Number of Contacts</b> | <b>3</b>               | <b>3</b>               | <b>5</b>     | <b>1</b>     | <b>1 2</b>            | <b>2 2</b>             |              |
| <b>Contact Size</b>       | <b>16</b>              | <b>16</b>              | <b>16</b>    | <b>12</b>    | <b>8 16</b>           | <b>12 16</b>           |              |
|                           |                        |                        |              |              |                       |                        |              |
|                           |                        |                        |              |              | <b>16</b>             | <b>12</b>              | <b>8</b>     |
|                           |                        |                        |              |              |                       |                        |              |
|                           |                        |                        |              |              | <b>4</b>              | <b>0</b>               |              |
|                           |                        |                        |              |              | <b>CONTACT LEGEND</b> |                        |              |

# AC Series contact arrangements

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



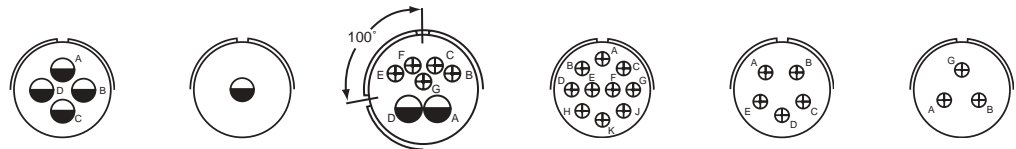
|                    |       |       |       |       |       |                              |
|--------------------|-------|-------|-------|-------|-------|------------------------------|
| Insert Arrangement | 16-10 | 16-11 | 16-12 | 16-13 | 16-59 | 18-1                         |
| Service Rating     | A     | A     | A     | A     | A     | B, C, F, G = A; bal. = Inst. |
| Number of Contacts | 3     | 2     | 1     | 2*    | 4     | 10                           |
| Contact Size       | 12    | 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    |



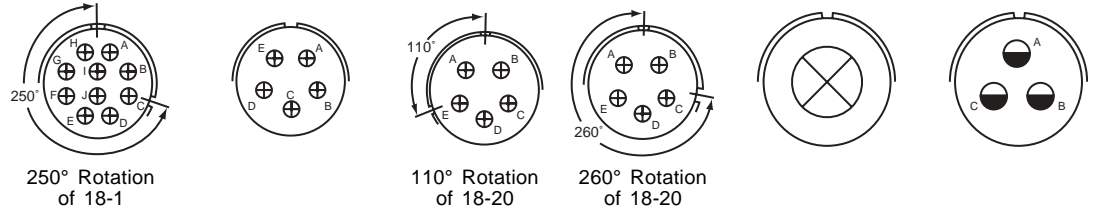
CONTACT LEGEND 16 12 8 4 0

\*A = Iron; B = Constantan

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

# AC Series contact arrangements

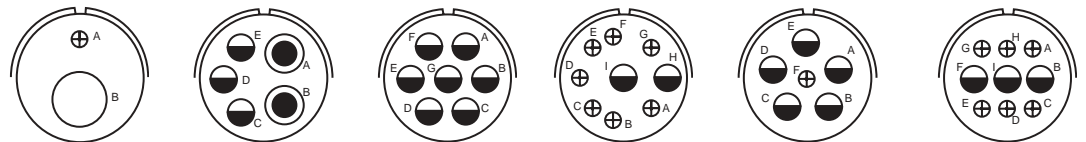
front face of pin insert or rear face of socket insert illustrated



|                           |                              |              |              |              |             |             |
|---------------------------|------------------------------|--------------|--------------|--------------|-------------|-------------|
| <b>Insert Arrangement</b> | <b>18-24</b>                 | <b>18-29</b> | <b>18-30</b> | <b>18-31</b> | <b>20-2</b> | <b>20-3</b> |
| <b>Service Rating</b>     | B, C, F, G = A; Bal. = Inst. | A            | A            | A            | D           | D           |
| <b>Number of Contacts</b> | 10                           | 5            | 5            | 5            | 1           | 3           |
| <b>Contact Size</b>       | 16                           | 16           | 16           | 16           | 0           | 12          |



|                           |             |             |                                |             |                 |              |
|---------------------------|-------------|-------------|--------------------------------|-------------|-----------------|--------------|
| <b>Insert Arrangement</b> | <b>20-4</b> | <b>20-6</b> | <b>20-7</b>                    | <b>20-8</b> | <b>20-9</b>     | <b>20-11</b> |
| <b>Service Rating</b>     | D           | D           | A, B, H, G = D; C, D, E, F = A | Inst.       | H = D; Bal. = A | Inst.        |
| <b>Number of Contacts</b> | 4           | 3           | 8                              | 2 4         | 1 7             | 13           |
| <b>Contact Size</b>       | 12          | 16          | 16                             | 8 16        | 12 16           | 16           |



|                           |              |              |              |              |              |              |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Insert Arrangement</b> | <b>20-12</b> | <b>20-14</b> | <b>20-15</b> | <b>20-16</b> | <b>20-17</b> | <b>20-18</b> |
| <b>Service Rating</b>     | A            | A            | A            | A            | A            | A            |
| <b>Number of Contacts</b> | 1 1          | 2 3          | 7            | 2 7          | 5 1          | 3 6          |
| <b>Contact Size</b>       | 4 16         | 8 12         | 12           | 12 16        | 12 16        | 12 16        |



**CONTACT LEGEND** 16 12 8 4 0

# AC Series contact arrangements

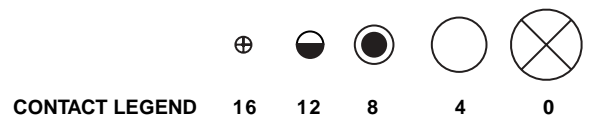
front face of pin insert or rear face of socket insert illustrated

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

|                           |                               |              |              |                               |              |              |
|---------------------------|-------------------------------|--------------|--------------|-------------------------------|--------------|--------------|
|                           |                               |              |              |                               |              |              |
|                           | <b>100° Rotation of 20-11</b> |              |              | <b>250° Rotation of 20-11</b> |              |              |
| <b>Insert Arrangement</b> | <b>20-25</b>                  | <b>20-27</b> | <b>20-29</b> | <b>20-30</b>                  | <b>20-33</b> | <b>20-51</b> |
| <b>Service Rating</b>     | <b>Inst.</b>                  | <b>A</b>     | <b>A</b>     | <b>Inst.</b>                  | <b>A</b>     | <b>A</b>     |
| <b>Number of Contacts</b> | <b>13</b>                     | <b>14</b>    | <b>17</b>    | <b>13</b>                     | <b>11</b>    | <b>3*</b>    |
| <b>Contact Size</b>       | <b>16</b>                     | <b>16</b>    | <b>16</b>    | <b>16</b>                     | <b>16</b>    | <b>8</b>     |

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

\* Solderless

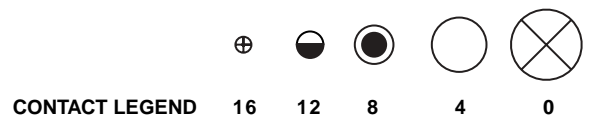




# AC Series contact arrangements

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

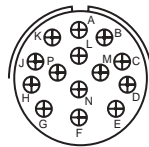
|                           |              |                                 |              |                        |                                       |                              |
|---------------------------|--------------|---------------------------------|--------------|------------------------|---------------------------------------|------------------------------|
|                           |              |                                 |              |                        |                                       |                              |
| <b>Insert Arrangement</b> | <b>22-1</b>  | <b>22-2</b>                     | <b>22-4</b>  | <b>22-5</b>            | <b>22-6</b>                           | <b>22-7</b>                  |
| <b>Service Rating</b>     | <b>D</b>     | <b>D</b>                        | <b>A</b>     | <b>D</b>               | <b>D</b>                              | <b>E</b>                     |
| <b>Number of Contacts</b> | <b>2</b>     | <b>3</b>                        | <b>2 2</b>   | <b>2 4</b>             | <b>2 1</b>                            | <b>1</b>                     |
| <b>Contact Size</b>       | <b>8</b>     | <b>8</b>                        | <b>8 12</b>  | <b>12 16</b>           | <b>8 16</b>                           | <b>0</b>                     |
|                           |              |                                 |              |                        |                                       |                              |
|                           |              |                                 |              |                        |                                       |                              |
| <b>Insert Arrangement</b> | <b>22-8</b>  | <b>22-9</b>                     | <b>22-10</b> | <b>22-11</b>           | <b>22-12</b>                          | <b>22-13</b>                 |
| <b>Service Rating</b>     | <b>E</b>     | <b>E</b>                        | <b>E</b>     | <b>B</b>               | <b>D</b>                              | <b>E = D; A, B, C, D = A</b> |
| <b>Number of Contacts</b> | <b>2</b>     | <b>3</b>                        | <b>4</b>     | <b>2</b>               | <b>2 3</b>                            | <b>4 1</b>                   |
| <b>Contact Size</b>       | <b>12</b>    | <b>12</b>                       | <b>16</b>    | <b>16</b>              | <b>8 16</b>                           | <b>12 16</b>                 |
|                           |              |                                 |              |                        |                                       |                              |
|                           |              |                                 |              |                        |                                       |                              |
| <b>Insert Arrangement</b> | <b>22-14</b> | <b>22-15</b>                    | <b>22-16</b> | <b>22-17</b>           | <b>22-18</b>                          |                              |
| <b>Service Rating</b>     | <b>A</b>     | <b>D = E; A, B, C, E, F = A</b> | <b>A</b>     | <b>A = D; Bal. = A</b> | <b>A, B, F, G, H = D; C, D, E = A</b> |                              |
| <b>Number of Contacts</b> | <b>19</b>    | <b>5 1</b>                      | <b>3 6</b>   | <b>1 8</b>             | <b>8</b>                              |                              |
| <b>Contact Size</b>       | <b>16</b>    | <b>12 16</b>                    | <b>12 16</b> | <b>12 16</b>           | <b>16</b>                             |                              |



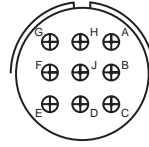
# AC Series

## contact arrangements

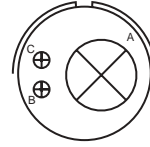
front face of pin insert or rear face of socket insert illustrated



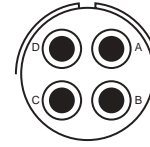
**22-19**



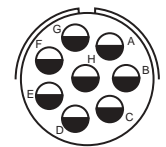
**22-20**



**22-21**



**22-22**



**22-23**

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

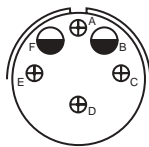
A  
14  
16

A  
9  
16

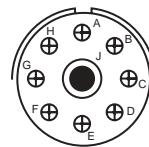
A  
1 2  
0 16

A  
4  
8

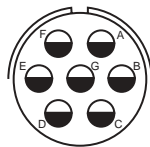
H = D; Bal = A  
8  
12



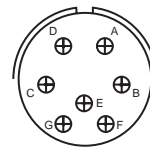
**22-24**



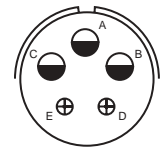
**22-27**



**22-28**



**22-33**



**22-34**

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

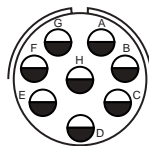
C, D, E = D; A, B, F = A  
2 4  
12 16

J = D; Bal. = A  
1 8  
8 16

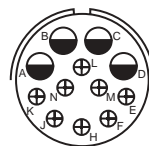
A  
7  
12

A, B, C, D = D; E, F, G = A  
7  
16

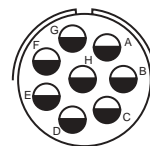
D  
3 2  
12 16



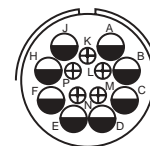
**22-36**



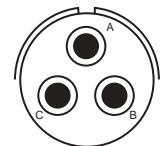
**22-63**



**22-65**



**22-70**



**22-80**

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

H = D; Bal. = A\*\*  
8  
12

A  
4 8  
12 16

H = D; Bal. = A  
8\*  
12 for #14 or 16 wire

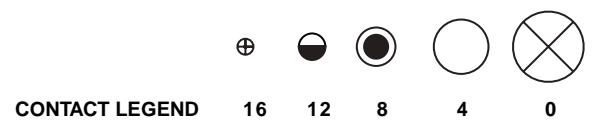
A  
8 5  
12 16

A  
3\*  
8 for #10 or 12 wire

\* Solderless

\*\* A, C, E, G = Iron

B, D, F, H = Constantan



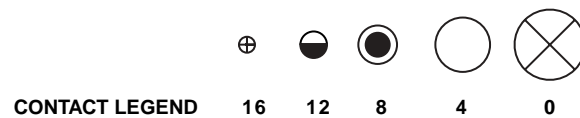
# AC Series contact arrangements

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

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

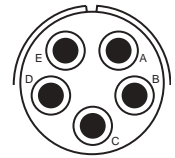
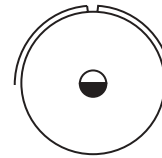
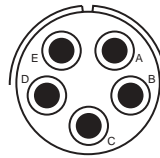
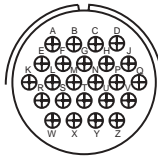
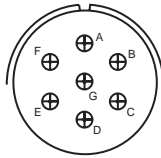
|                           |             |              |              |              |                                    |
|---------------------------|-------------|--------------|--------------|--------------|------------------------------------|
|                           |             |              |              |              |                                    |
| <b>Insert Arrangement</b> | <b>24-9</b> | <b>24-10</b> | <b>24-11</b> | <b>24-12</b> | <b>24-16</b>                       |
| <b>Service Rating</b>     | <b>A</b>    | <b>A</b>     | <b>A</b>     | <b>A</b>     | <b>A, B, F, G = D; C, D, E = A</b> |
| <b>Number of Contacts</b> | <b>2</b>    | <b>7</b>     | <b>3 6</b>   | <b>2 3</b>   | <b>1 3 3</b>                       |
| <b>Contact Size</b>       | <b>4</b>    | <b>8</b>     | <b>8 12</b>  | <b>4 12</b>  | <b>8 12 16</b>                     |

|                           |              |              |              |              |              |
|---------------------------|--------------|--------------|--------------|--------------|--------------|
|                           |              |              |              |              |              |
| <b>Insert Arrangement</b> | <b>24-17</b> | <b>24-19</b> | <b>24-20</b> | <b>24-21</b> | <b>24-22</b> |
| <b>Service Rating</b>     | <b>D</b>     | <b>A</b>     | <b>D</b>     | <b>D</b>     | <b>D</b>     |
| <b>Number of Contacts</b> | <b>2 3</b>   | <b>12</b>    | <b>2 9</b>   | <b>1 9</b>   | <b>4</b>     |
| <b>Contact Size</b>       | <b>12 16</b> | <b>16</b>    | <b>12 16</b> | <b>8 16</b>  | <b>8</b>     |



# AC Series contact arrangements

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



Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

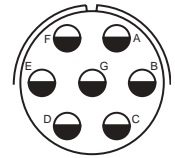
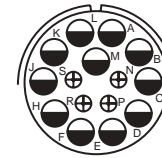
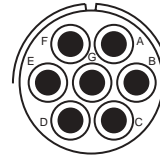
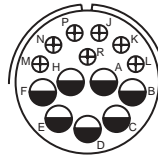
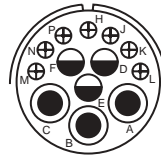
24-27  
E  
7  
16

24-28  
Inst.  
24  
16

24-51  
A  
5\*  
B, E for AN#10 or 12 wire  
A, C, D for AN #8 wire

24-52  
Hi-Volt  
1  
12

24-53  
A  
5\*  
8



Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

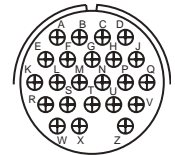
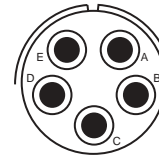
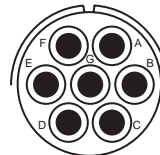
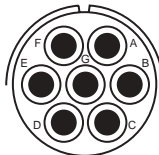
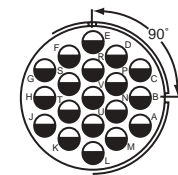
24-58  
A  
3 3 7  
8 12 16

24-59  
A  
7 7  
12 16

24-60  
A  
7\*  
8 for #10 or 12 wire

24-65  
A  
11 4  
12 16

24-66  
D  
7  
12



Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

24-67  
Inst.  
19  
12

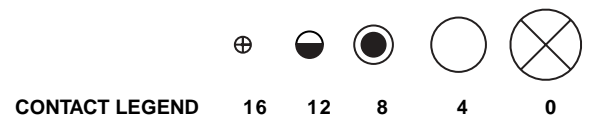
24-71  
A  
2\* 5\*  
8 8 for #10 or 12 wire

24-75  
A  
5 2  
8 8 for #16 wire

24-79  
A  
5  
8

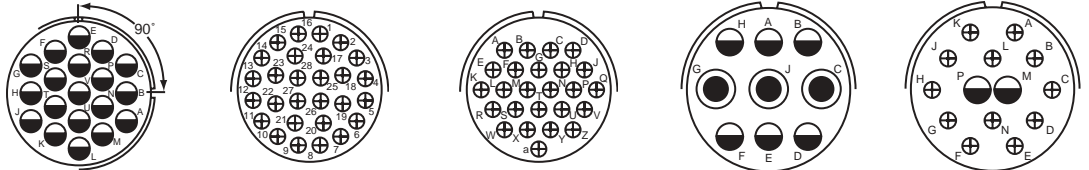
24-80  
Inst.  
23  
16

\* Solderless

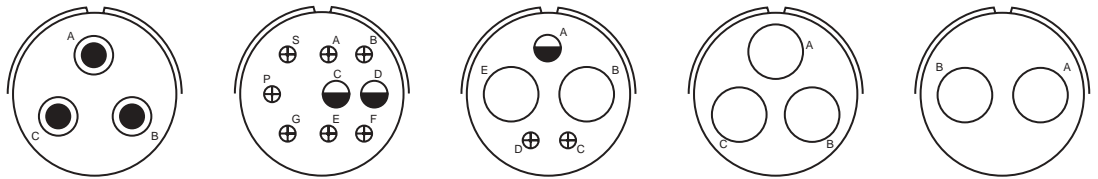


# AC Series contact arrangements

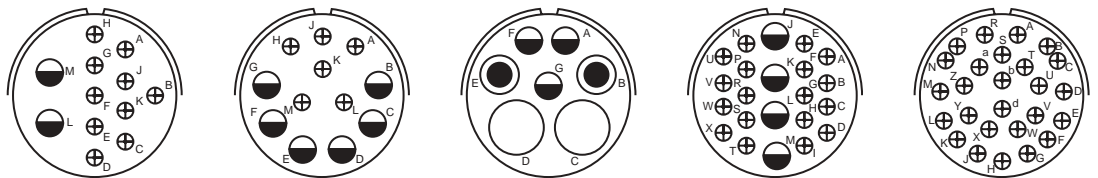
front face of pin insert or rear face of socket insert illustrated



| Insert Arrangement | 24-84                                   | 24-96 | 24-AJ | 28-1                  | 28-2  |
|--------------------|---|-------|-------|-----------------------|-------|
| Service Rating     | A                                       | Inst. | A     | A, J, E = D; Bal. = A | D     |
| Number of Contacts | 1 18                                    | 28    | 25    | 3 6                   | 2 12  |
| Contact Size       | 12 12 (Coax)<br>RG-188/U<br>or RG-174/U | 16    | 16    | 8 12                  | 12 16 |



| Insert Arrangement | 28-3 | 28-4                  | 28-5    | 28-6 | 28-7 |
|--------------------|------|-----------------------|---------|------|------|
| Service Rating     | E    | G, P, S = E; Bal. = D | D       | D    | D    |
| Number of Contacts | 3    | 2 7                   | 2 1 2   | 3    | 2    |
| Contact Size       | 8    | 12 16                 | 4 12 16 | 4    | 4    |



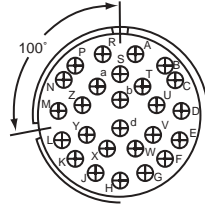
| Insert Arrangement | 28-8                      | 28-9  | 28-10           | 28-11 | 28-12 |
|--------------------|---------------------------|-------|-----------------|-------|-------|
| Service Rating     | L, M = E; B = D; Bal. = A | D     | G = D; Bal. = A | A     | A     |
| Number of Contacts | 2 10                      | 6 6   | 2 2 3           | 4 18  | 26    |
| Contact Size       | 12 16                     | 12 16 | 4 8 12          | 12 16 | 16    |



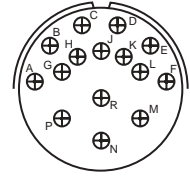
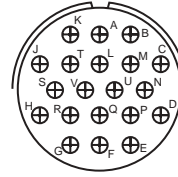
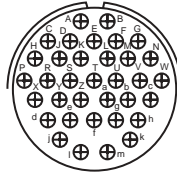
CONTACT LEGEND 16 12 8 4 0

# AC Series contact arrangements

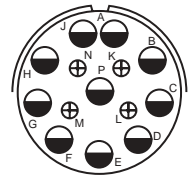
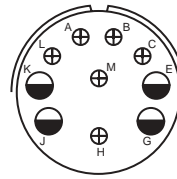
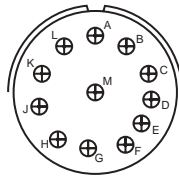
front face of pin insert or rear face of socket insert illustrated



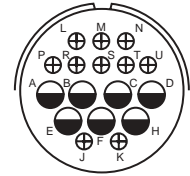
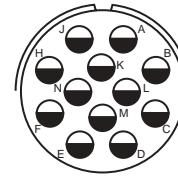
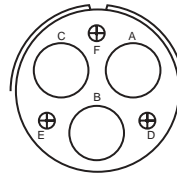
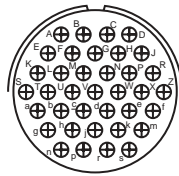
100° Rotation  
of 28-12



|                    |       |       |       |                                |
|--------------------|-------|-------|-------|--------------------------------|
| Insert Arrangement | 28-13 | 28-15 | 28-16 | 28-17                          |
| Service Rating     | A     | A     | A     | R = B; M, N, P = D; A to L = A |
| Number of Contacts | 26    | 35    | 20    | 15                             |
| Contact Size       | 16    | 16    | 16    | 16                             |



|                    |   |                             |       |
|--------------------|---|-----------------------------|-------|
| Insert Arrangement | 28-18   | 28-19                       | 28-20 |
| Service Rating     | M = C; G, H, J, K, L = D; A, B = A; Bal = Inst. | H, M = B; A, B = D; Bal = A | A     |
| Number of Contacts | 12  | 4 6                         | 10 4  |
| Contact Size       | 16  | 12 16                       | 12 16 |



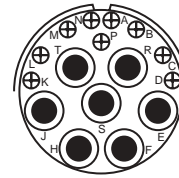
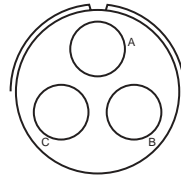
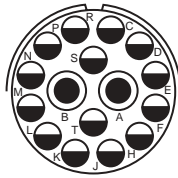
|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Insert Arrangement | 28-21 | 28-22 | 28-51 | 28-59 |
| Service Rating     | A     | D     | A     | A     |
| Number of Contacts | 37    | 3 3   | 12    | 7 10  |
| Contact Size       | 16    | 4 16  | 12    | 12 16 |



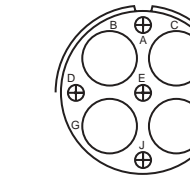
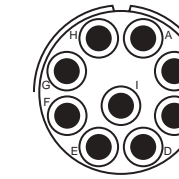
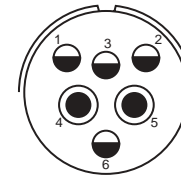
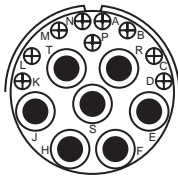
CONTACT LEGEND 16 12 8 4 0

# AC Series contact arrangements

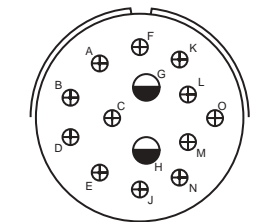
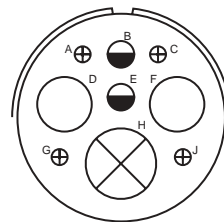
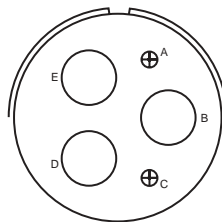
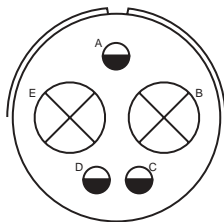
front face of pin insert or rear face of socket insert illustrated



| Insert Arrangement | 28-66 | 28-72              | 28-74               | 28-75             |
|--------------------|-------|--------------------|---------------------|-------------------|
| Service Rating     | A     | -                  | A                   | A                 |
| Number of Contacts | 2 14  | 3                  | 9* 4* 3*            | 9* 7*             |
| Contact Size       | 8 12  | 4 (Coax) RG-59 A/U | 16 8 8 for #10 wire | 16 8 for #10 wire |

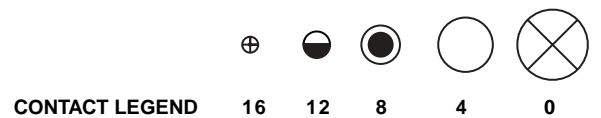


| Insert Arrangement | 28-79 | 28-82 | 28-84 | 28-AY |
|--------------------|-------|-------|-------|-------|
| Service Rating     | A     | D     | A     | A     |
| Number of Contacts | 9 7   | 2 4   | 9     | 4 5   |
| Contact Size       | 16 8  | 8 12  | 8     | 4 16  |



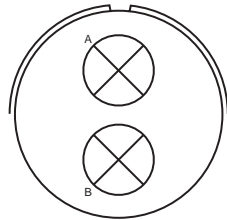
| Insert Arrangement | 32-1                  | 32-2 | 32-3      | 32-4                     |
|--------------------|-----------------------|------|-----------|--------------------------|
| Service Rating     | A = E; B, C, D, E = D | E    | D         | F, J, K, N = A; Bal. = D |
| Number of Contacts |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

\* Solderless

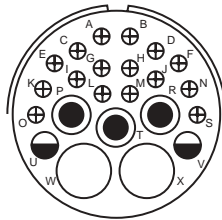


# AC Series contact arrangements

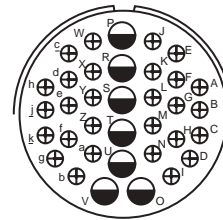
front face of pin insert or rear face of socket insert illustrated



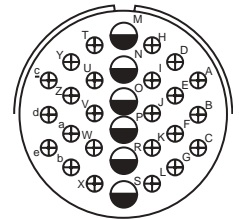
**32-5**  
D  
2  
0



**32-6**  
A  
2 3 2 16  
4 8 12 16

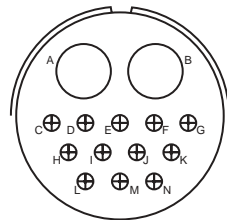


**32-7**  
A, B, h, j = Inst.; Bal = A  
7 28  
12 16

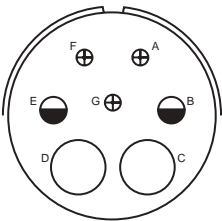


**32-8**  
A  
6 24  
12 16

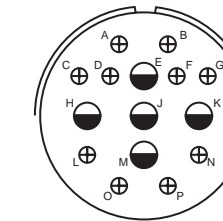
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



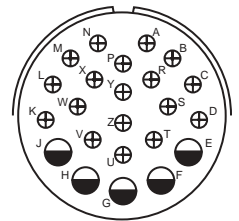
**32-9**  
D  
2 12  
4 16



**32-10**  
A, F = E; G = B; B, E = D; C, D = A  
2 2 3  
4 8 16

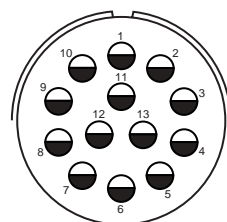


**32-12**  
C, D, E, F, G = A; Bal. = D  
5 10  
12 16

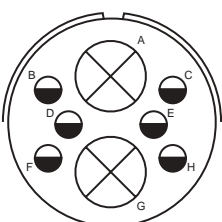


**32-13**  
D  
5 18  
12 16

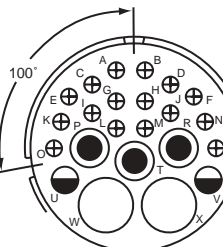
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



**32-14**  
D  
13  
12

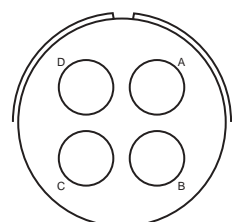


**32-15**  
D  
2 6  
0 12



100° Rotation  
of 32-6

**32-16**  
A  
2 3 2 16  
4 8 12 16



**32-17**  
D  
4  
4

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

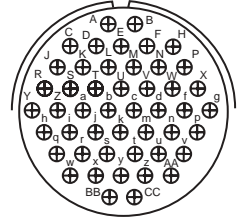
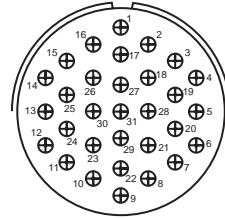
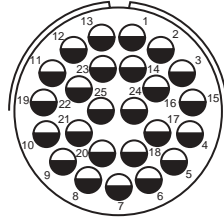
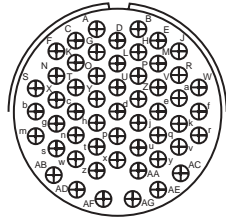


CONTACT LEGEND 16 12 8 4 0



# AC Series contact arrangements

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



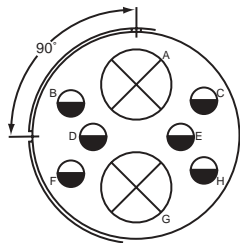
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

**32-22**  
**A**  
**54**  
**16**

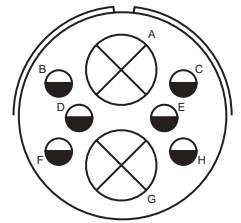
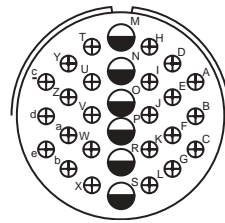
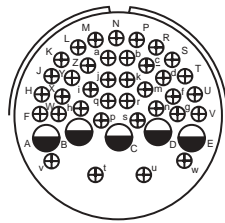
**32-25**  
**A**  
**25**  
**12**

**32-31**  
**A**  
**31**  
**16**

**32-48**  
**Inst.**  
**48**  
**16**



100° Rotation  
of 28-12



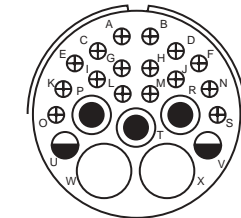
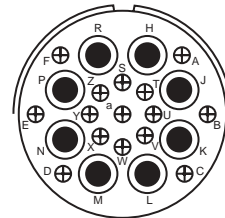
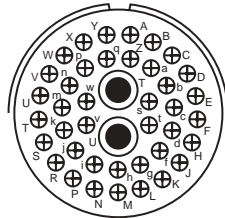
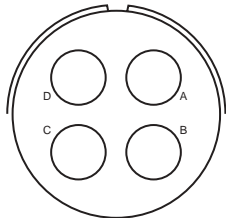
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

**32-52**  
**D**  
**2 6**  
**0 12**

**32-53**  
**t, u = E; Bal = Inst.**  
**5 37**  
**12 16**

**32-56**  
**A**  
**24 6**  
**16 12 for #10 wire**

**32-57**  
**\*\***  
**6 2**  
**12 0 (Coax) RG-71/U**



Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

**32-58**  
**-**  
**4**  
**4 (Coax) RG-161/U or RG-179/U**

**32-59**  
**A**  
**40 2**  
**16 8 (Coax) RG-161/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**

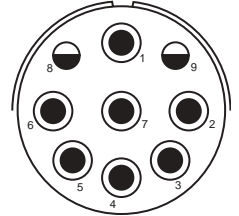
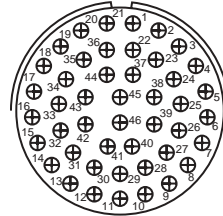
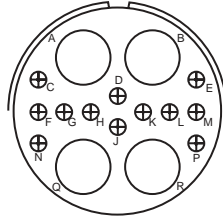
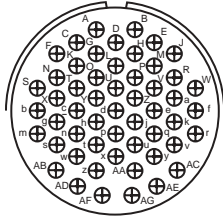


**CONTACT LEGEND** 16 12 8 4 0

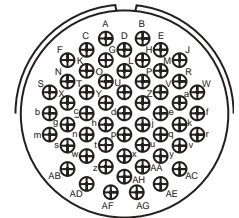
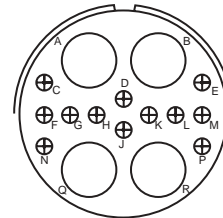
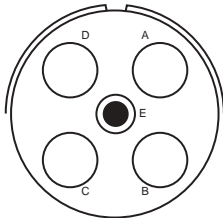
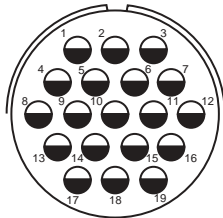
\*\* Consult Sidney, NY for service rating of power contacts.

# AC Series contact arrangements

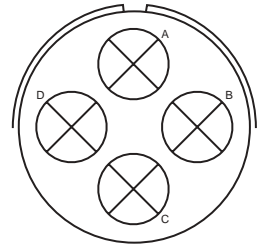
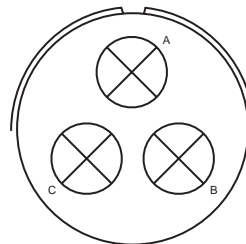
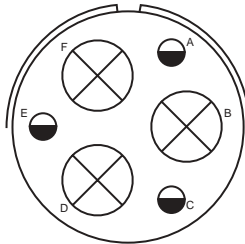
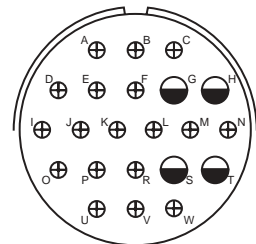
front face of pin insert or rear face of socket insert illustrated



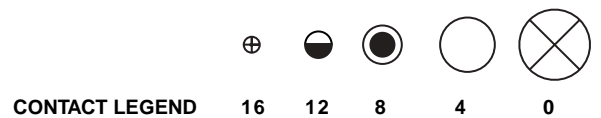
|                           |              |                              |              |                               |
|---------------------------|--------------|------------------------------|--------------|-------------------------------|
| <b>Insert Arrangement</b> | <b>32-64</b> | <b>32-68</b>                 | <b>32-73</b> | <b>32-75</b>                  |
| <b>Service Rating</b>     | <b>Inst.</b> | <b>A</b>                     | <b>A</b>     | <b>8, 9 = D</b>               |
| <b>Number of Contacts</b> | <b>54</b>    | <b>12 4</b>                  | <b>46</b>    | <b>2 7</b>                    |
| <b>Contact Size</b>       | <b>16</b>    | <b>16 4 (Coax) RG-58 C/U</b> | <b>16</b>    | <b>12 8 (Coax) RG-180 B/U</b> |



|                           |              |              |              |              |
|---------------------------|--------------|--------------|--------------|--------------|
| <b>Insert Arrangement</b> | <b>32-76</b> | <b>32-79</b> | <b>32-82</b> | <b>32-82</b> |
| <b>Service Rating</b>     | <b>A</b>     | <b>D</b>     | <b>A</b>     | <b>A</b>     |
| <b>Number of Contacts</b> | <b>19</b>    | <b>4 1</b>   | <b>12 4</b>  | <b>55</b>    |
| <b>Contact Size</b>       | <b>12</b>    | <b>4 8</b>   | <b>16 4</b>  | <b>16</b>    |

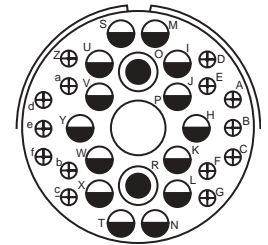
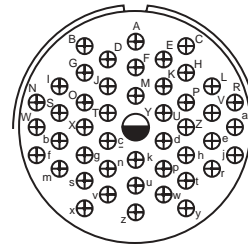
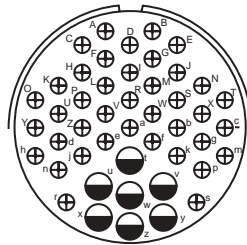
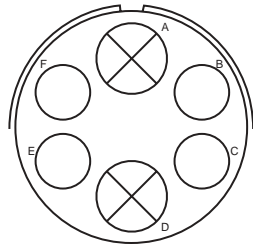


|                           |              |             |                        |             |
|---------------------------|--------------|-------------|------------------------|-------------|
| <b>Insert Arrangement</b> | <b>36-1</b>  | <b>36-3</b> | <b>36-4</b>            | <b>36-5</b> |
| <b>Service Rating</b>     | <b>D</b>     | <b>D</b>    | <b>A = D; B, C = A</b> | <b>A</b>    |
| <b>Number of Contacts</b> | <b>4 18</b>  | <b>3 3</b>  | <b>3</b>               | <b>4</b>    |
| <b>Contact Size</b>       | <b>12 16</b> | <b>0 12</b> | <b>0</b>               | <b>0</b>    |

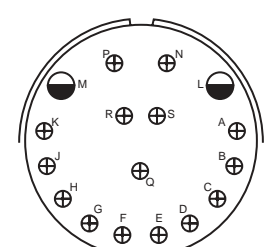
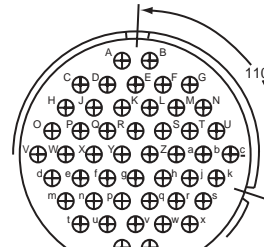
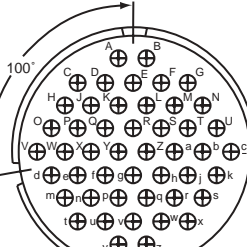
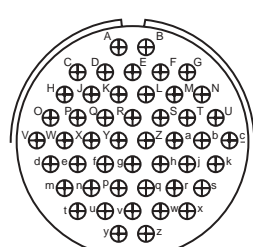


# AC Series contact arrangements

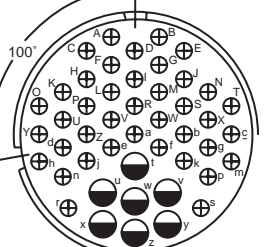
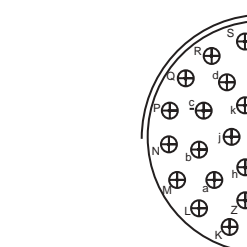
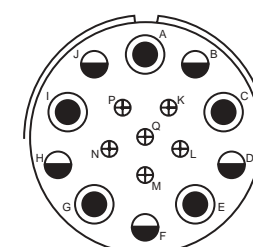
front face of pin insert or rear face of socket insert illustrated



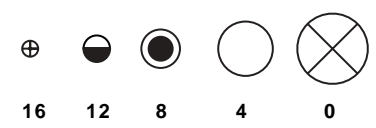
| Insert Arrangement | 36-6 | 36-7  | 36-8  | 36-9      |
|--------------------|------|-------|-------|-----------|
| Service Rating     | A    | A     | A     | A         |
| Number of Contacts | 2 4  | 7 40  | 1 46  | 1 2 14 14 |
| Contact Size       | 0 4  | 12 16 | 12 16 | 4 8 12 16 |



| Insert Arrangement | 36-10 | 36-11 | 36-12 | 36-13                 |
|--------------------|-------|-------|-------|-----------------------|
| Service Rating     | A     | A     | A     | N, P, Q = E; Bal. = A |
| Number of Contacts | 48    | 48    | 48    | 2 15                  |
| Contact Size       | 16    | 16    | 16    | 12 16                 |

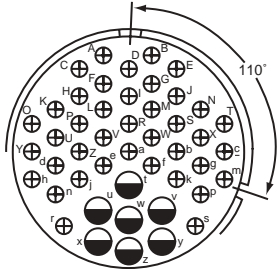


| Insert Arrangement | 36-14   | 36-15           | 36-16 |
|--------------------|---------|-----------------|-------|
| Service Rating     | D       | M = D; Bal. = A | A     |
| Number of Contacts | 5 5 6   | 35              | 7 40  |
| Contact Size       | 8 12 16 | 16              | 12 16 |



# AC Series contact arrangements

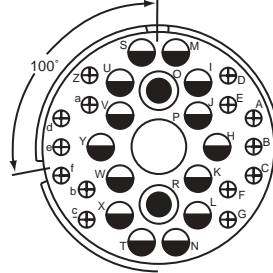
front face of pin insert or rear face of socket insert illustrated



110° Rotation  
of 36-7

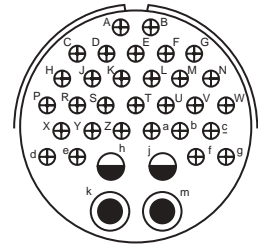
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**36-17**  
**A**  
**7 40**  
**12 16**

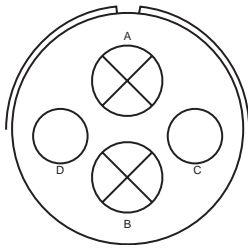


100° Rotation  
of 36-9

**36-18**  
**A**  
**1 2 14 14**  
**4 8 12 16**



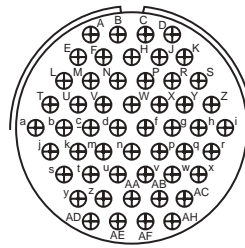
**36-20**  
**A**  
**2 2 30**  
**8 12 16**



**36-51**

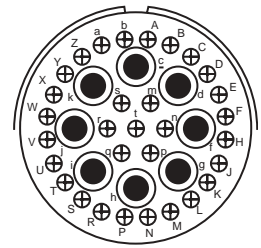
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**D**  
**2 2**  
**0 4**



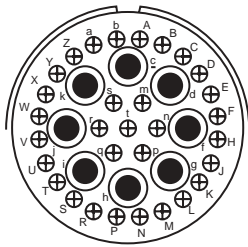
**36-52**

**A**  
**52**  
**16**



**36-54**

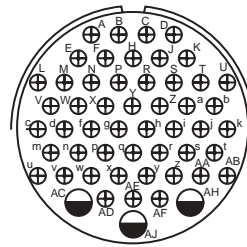
**A**  
**8 31**  
**8 16**



**36-55**

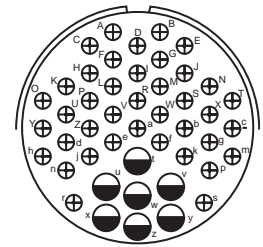
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**31 8**  
**16 8 for #6 wire**



**36-59**

**A**  
**50 3**  
**16 12 for #10 wire**

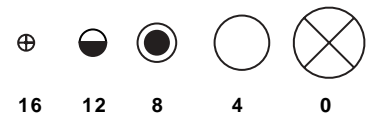


**36-60**

**\*\***  
**40 7**  
**16 12 for #10 wire**

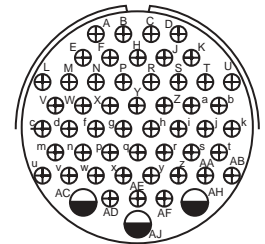
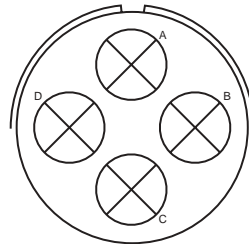
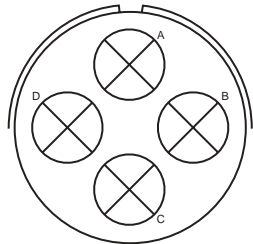
\*\* Consult Sidney, NY for service rating of power contacts.

**CONTACT LEGEND**



# AC Series contact arrangements

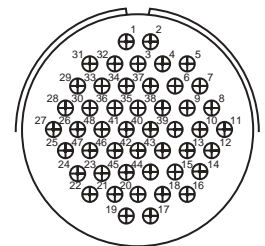
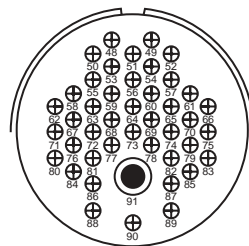
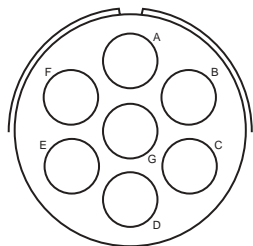
front face of pin insert or rear face of socket insert illustrated



**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

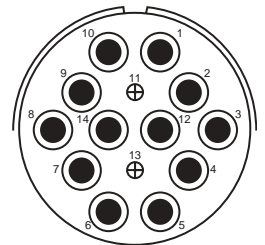
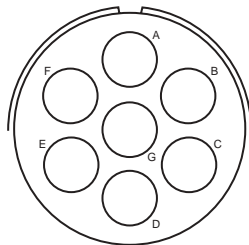
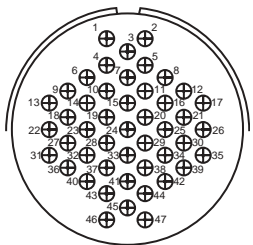
**Insert Arrangement** 36-71  
**Service Rating** A  
**Number of Contacts** 3 50  
**Contact Size** 12 16



**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



**Insert Arrangement** 36-76  
**Service Rating** A  
**Number of Contacts** 47  
**Contact Size** 16

**Insert Arrangement** 36-77  
**Service Rating** D  
**Number of Contacts** 7  
**Contact Size** 4

**Insert Arrangement** 36-78  
**Service Rating** A  
**Number of Contacts** 2 12  
**Contact Size** 16 8



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

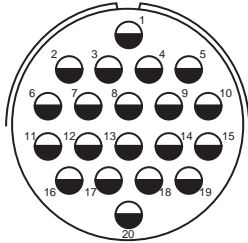
**CONTACT LEGEND**

16 12 8 4 0

# AC Series

## contact arrangements

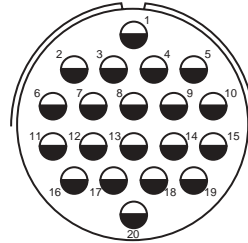
front face of pin insert or rear face of socket insert illustrated



**36-79**

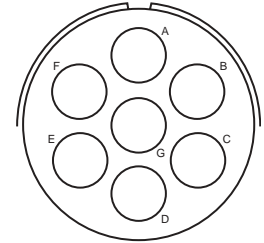
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**20**  
**12**



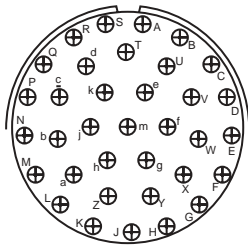
**36-80**

**A**  
**20**  
**12 for #10 wire**



**36-83**

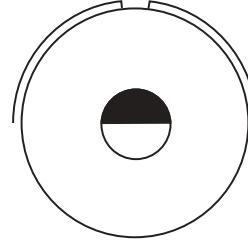
**-**  
**7**  
**4 (Coax) RG-58/U**



**36-85**

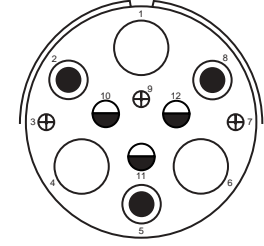
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**M = D; Bal. = A**  
**35**  
**16 for #12 wire**



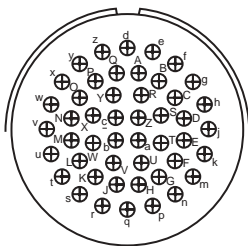
**36-97**

**C**  
**1**  
**4/0**



**36-99**

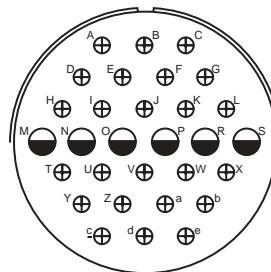
**D**  
**3 3 3 3**  
**4 8 12 16**



**36-AF**

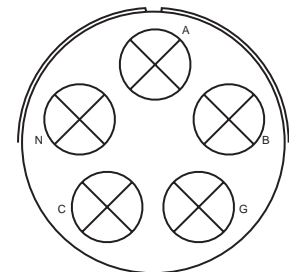
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

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



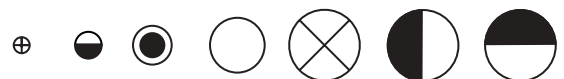
**40-1**

**D**  
**6 24**  
**12 16**



**40-5**

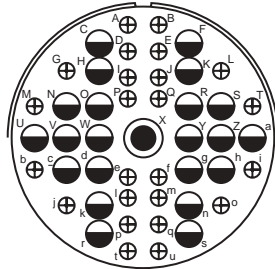
**A**  
**5**  
**0**



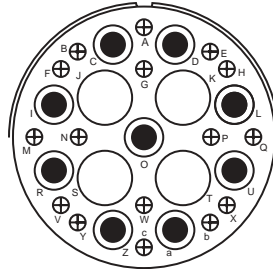
**CONTACT LEGEND**    16    12    8    4    0    2/0    4/0

# AC Series contact arrangements

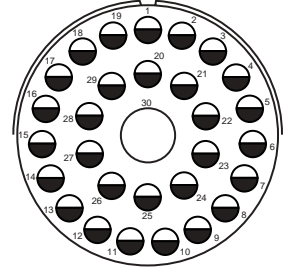
front face of pin insert or rear face of socket insert illustrated



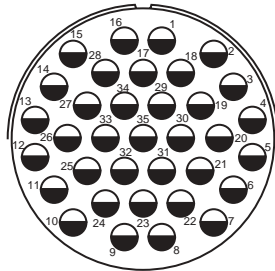
**Insert Arrangement** 40-9  
**Service Rating** A  
**Number of Contacts** 1 22 24  
**Contact Size** 8 12 16



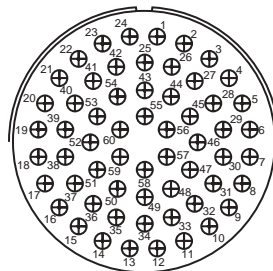
**Insert Arrangement** 40-10  
**Service Rating** A  
**Number of Contacts** 4 9 16  
**Contact Size** 4 8 16



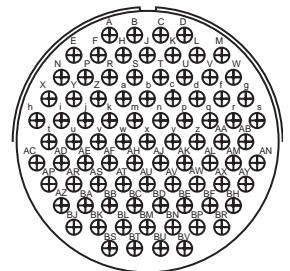
**Insert Arrangement** 40-30  
**Service Rating** A  
**Number of Contacts** 29 1  
**Contact Size** 12 4



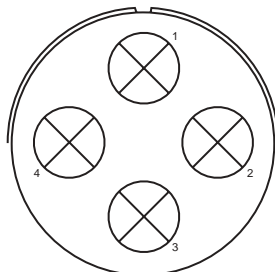
**Insert Arrangement** 40-35  
**Service Rating** D  
**Number of Contacts** 35  
**Contact Size** 12



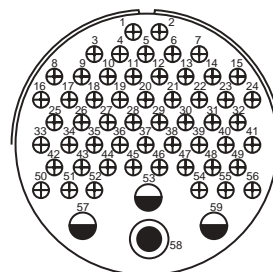
**Insert Arrangement** 40-53  
**Service Rating** A  
**Number of Contacts** 60  
**Contact Size** 16



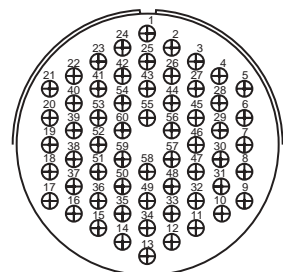
**Insert Arrangement** 40-56  
**Service Rating** A  
**Number of Contacts** 85  
**Contact Size** 16



**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



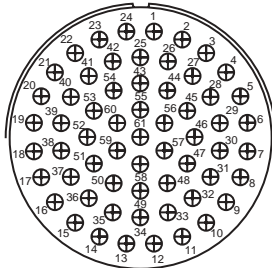
**Insert Arrangement** 40-62  
**Service Rating** A  
**Number of Contacts** 60  
**Contact Size** 16



**CONTACT LEGEND** 16 12 8 4 0

# AC Series contact arrangements

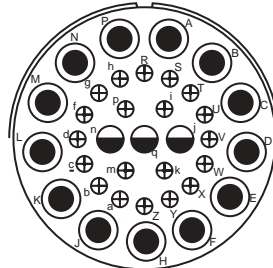
front face of pin insert or rear face of socket insert illustrated



**40-63**

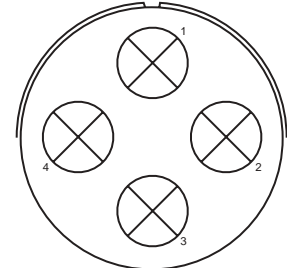
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**61**  
**16 for #14 wire**



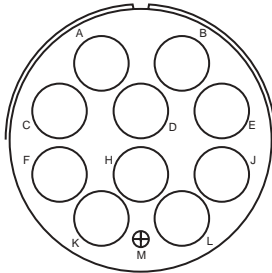
**40-64**

**3 20 13**  
**12 16 8 (Coax) RG-124/U**



**40-66**

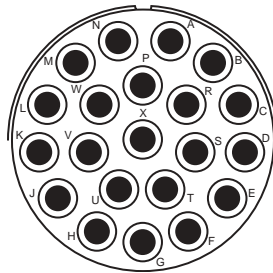
**4**  
**0 (Coax) RG-63B/U**



**40-67**

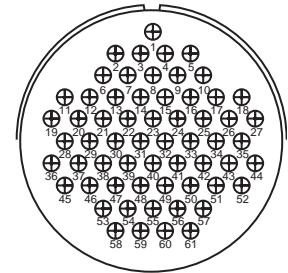
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**1 10**  
**16 4 (Coax) RG-59/U**



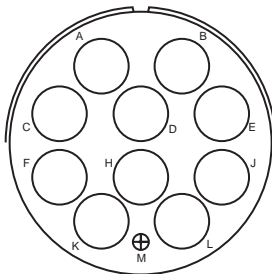
**40-68**

**A**  
**21**  
**8**



**40-70**

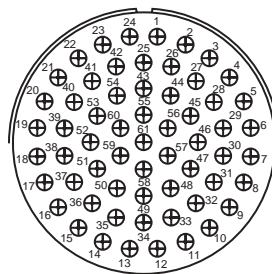
**A**  
**61**  
**16**



**40-72**

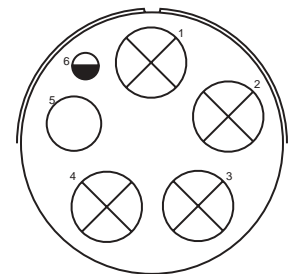
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**A**  
**1 10**  
**16 4 (Coax) RG-9B/U**



**40-73**

**A**  
**61**  
**16**



**40-74**

**A**  
**1 1 4**  
**12 4 (Coax) RG-62/U 0 (Coax) RG-9B/U or RG-214/U**

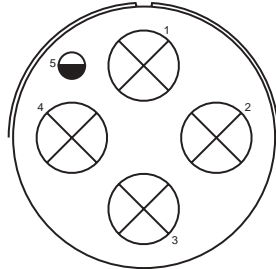


**CONTACT LEGEND** 16 12 8 4 0

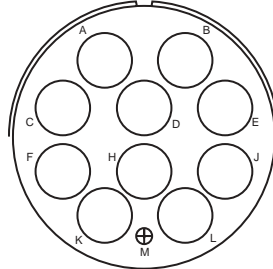


# AC Series contact arrangements

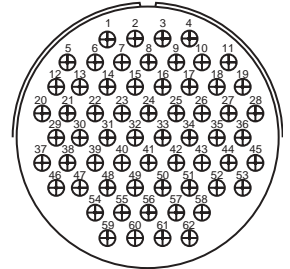
front face of pin insert or rear face of socket insert illustrated



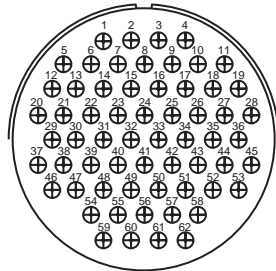
**Insert Arrangement** 40-75  
**Service Rating** E  
**Number of Contacts** 1 4  
**Contact Size** 12 0



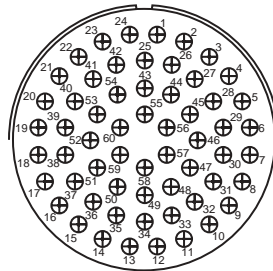
**Insert Arrangement** 40-80  
**Service Rating** A  
**Number of Contacts** 1 10  
**Contact Size** 16 4



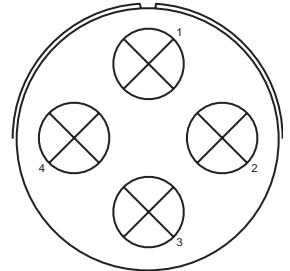
**Insert Arrangement** 40-81  
**Service Rating** A  
**Number of Contacts** 62  
**Contact Size** 16 for #14 wire



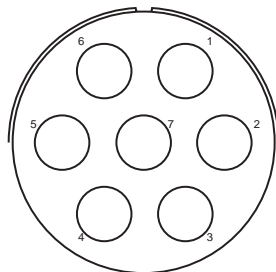
**Insert Arrangement** 40-82  
**Service Rating** A  
**Number of Contacts** 62  
**Contact Size** 16



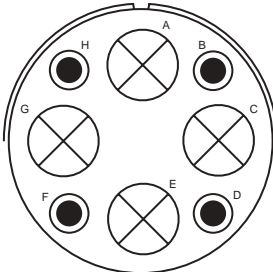
**Insert Arrangement** 40-85  
**Service Rating** A  
**Number of Contacts** 60  
**Contact Size** 16 for #14 wire



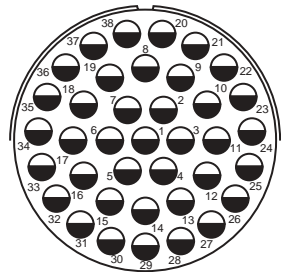
**Insert Arrangement** 40-86  
**Service Rating** -  
**Number of Contacts** 4  
**Contact Size** 0 (Coax) RG-115A/U



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



**Insert Arrangement** 40-AD  
**Service Rating** A  
**Number of Contacts** 4 4  
**Contact Size** 8 0



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

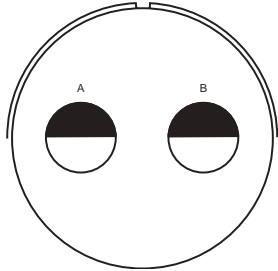


**CONTACT LEGEND** 16 12 8 4 0

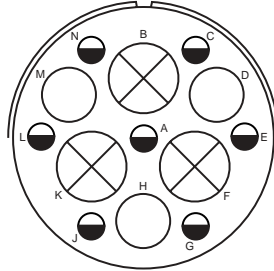
# AC Series

## contact arrangements

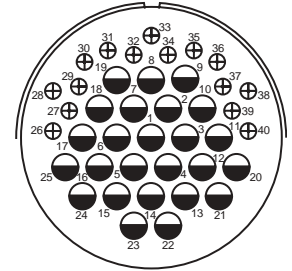
front face of pin insert or rear face of socket insert illustrated



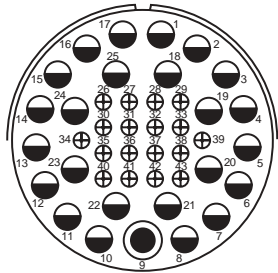
|                           |              |
|---------------------------|--------------|
| <b>Insert Arrangement</b> | <b>40-AP</b> |
| <b>Service Rating</b>     | <b>E</b>     |
| <b>Number of Contacts</b> | <b>2</b>     |
| <b>Contact Size</b>       | <b>4/0</b>   |



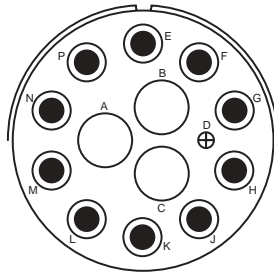
|               |
|---------------|
| <b>40-AR</b>  |
| <b>Inst.</b>  |
| <b>7 3 3</b>  |
| <b>12 4 0</b> |



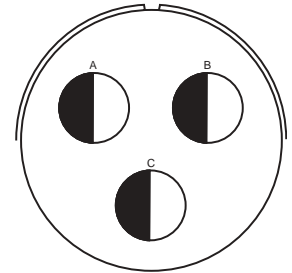
|              |
|--------------|
| <b>40-AS</b> |
| <b>A</b>     |
| <b>15 25</b> |
| <b>16 12</b> |



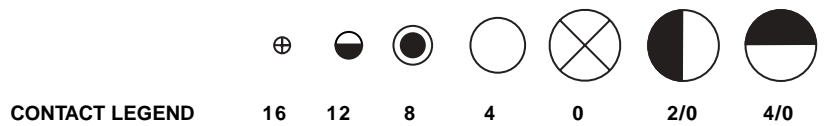
|                           |                |
|---------------------------|----------------|
| <b>Insert Arrangement</b> | <b>40-AT</b>   |
| <b>Service Rating</b>     | <b>A</b>       |
| <b>Number of Contacts</b> | <b>24 18 1</b> |
| <b>Contact Size</b>       | <b>12 16 8</b> |



|               |
|---------------|
| <b>40-AU</b>  |
| <b>A</b>      |
| <b>3 10 1</b> |
| <b>4 8 16</b> |



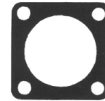
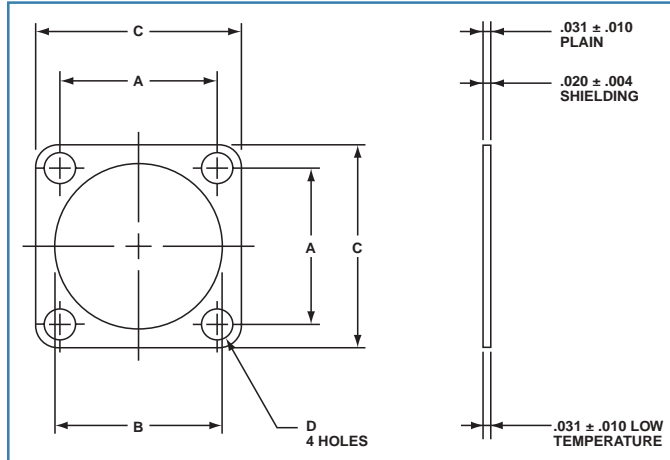
|              |
|--------------|
| <b>40-AV</b> |
| <b>D</b>     |
| <b>3</b>     |
| <b>2/0</b>   |



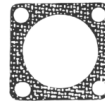
# AC – accessories

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

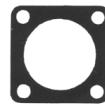
### SEALING GASKETS



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.

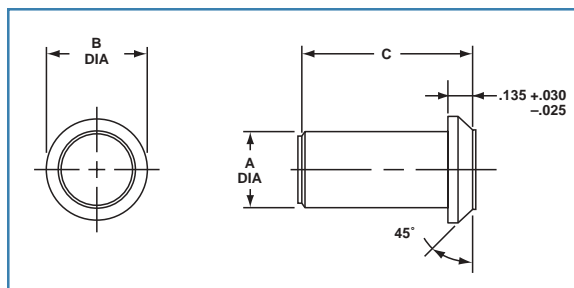


This gasket is provided for applications where the major requirement is resistance to the injurious effects of extremely low temperature. Even at temperatures as low as  $-67^{\circ}\text{F}$  this gasket retains its resiliency and will seal a pressure differential of 30 psi.

| MS Shell Size | Installation Dimensions |                      |                      |              |             |                    |                    |             | Order Data  |              |                       |
|---------------|-------------------------|----------------------|----------------------|--------------|-------------|--------------------|--------------------|-------------|-------------|--------------|-----------------------|
|               | Inches                  |                      |                      |              | Millimeters |                    |                    |             | Plain       | Shielding    | Low Temperature Style |
|               | A $\pm .010$            | B $+.016$<br>$-.000$ | C $+.016$<br>$-.000$ | D $\pm .010$ | A $\pm .25$ | B $+.41$<br>$-.00$ | C $+.41$<br>$-.00$ | D $\pm .25$ |             |              |                       |
| 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-XX1

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



All dimensions for reference only.

| Order No.     | Contact Size | Wire Size | Color Code | Inches           |              |              | Millimeters      |             |             |
|---------------|--------------|-----------|------------|------------------|--------------|--------------|------------------|-------------|-------------|
|               |              |           |            | A Dia $\pm .010$ | B $\pm .005$ | C $\pm .010$ | A Dia. $\pm 0.2$ | B $\pm 0.1$ | C $\pm 0.2$ |
| 10-405996-161 | 16           | 20-16     | Blue       | .083             | .133         | .564**       | 2.1              | 3.4         | 14.3***     |
| 10-405996-121 | 12           | 14-12     | Yellow     | .121             | .171         | .564**       | 3.1              | 4.3         | 14.3***     |
| 10-405996-081 | 8            | 10-8      | White      | .185             | .315         | .470         | 4.7              | 8.0         | 11.9        |
| 10-405996-041 | 4            | 4-6       | Blue       | .310             | .415         | .470         | 7.9              | 10.5        | 11.9        |
| 10-405996-001 | 0            | 0-2       | Yellow     | .440             | .605         | 1.000        | 11.2             | 15.4        | 25.4        |

### 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 |

\*\*  $\pm .020$   
\*\*\*  $\pm 0.5$  mm

# AC 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<br>or 10-597424-001 | Socket     |                 |                  | 18                  | 10                  |
|                                   |            |                 |                  | 20                  | 7.5                 |
| 10-40599                          | Pin        | 16 Long         | 16               | 22                  | 5                   |
| 10-597107-171<br>or 10-597422-001 | Socket     |                 |                  | 16                  | 13                  |
|                                   |            |                 |                  | 18                  | 10                  |
|                                   |            |                 |                  | 20                  | 7.5                 |
| 10-33646                          | Pin        | 12              | 12               | 22                  | 5                   |
| 10-597107-131                     | Socket     |                 |                  | 12                  | 23                  |
| 10-35531                          | Pin        | 8               | 8                | 14                  | 17                  |
| 10-35532                          | Socket     |                 |                  | 8                   | 46                  |
| 10-35529                          | Pin        | 4               | 4                | 10                  | 33                  |
| 10-35530                          | Socket     |                 |                  | 4                   | 80                  |
| 10-35527                          | Pin        |                 |                  | 6                   | 60                  |
| 10-35528                          | Socket     | 0               | 0                | 0                   | 150                 |
|                                   |            |                 |                  | 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 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 37).

### 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*                 | 10-74696-6                   | 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**

| MS Service Rating | Recommended Operating Voltage* at Sea Level |          | Effective Creepage Distance Nom. | Mechanical Spacing Nom. |
|-------------------|---|----------|----------------------------------|-------------------------|
|                   | DC  | 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     | 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 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 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 †<br>Socket 11-7674-2 † |
| **            | **                | 0            | Pin & Socket  | 11-7365-5 †    | Pin 11-7370-5 †<br>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 Series

## how to order

To more easily illustrate ordering procedure, part number ACCL06AF18-1SX(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>(025)</u> |
| <b>1</b>  | <b>2</b> | <b>3</b> | <b>4</b>  | <b>5</b>  | <b>6</b>    | <b>7</b> | <b>8</b> | <b>9</b>     |

1. AC designates Amphenol Industrial Series Threaded 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 7-9
7. Contact type  
P - Pin contacts  
S - Socket contacts  
R - RADSOK® socket contacts\* (see page 39)  
  
Ask for Brochure SL-391 for Amphe-Power Connectors with RADSOK Technology.
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 10 for availability.
9. Variations RoHS Compliant  
(003) - Olive drab cadmium plate finish  
(023) - Electroless nickel finish  
(025) - Black zinc alloy finish  
(G96) - Black hard-coat anodize  
(A24) - .000035 gold/nickel on contacts  
(116) - Non-pre-tinned solder contacts  
(472) - Black zinc alloy finish and solder contacts  
less pre-filled cup ✓  
(548) - Electroless nickel finish and solder contacts  
less pre-filled cup ✓



For further RoHS Compliant support, contact Amphenol Industrial Operations or call 1-866-315-8559.

# Additional Products

## reverse bayonet coupling MIL-5015 type connectors

**Amphenol has replaced the previously available AC-B series with the ACA-B.**

The ACA-B is a modification of the MIL-5015 family designed for commercial and industrial environments requiring a rugged bayonet style connector, including heavy duty power and signal applications. A comprehensive selection of insert arrangements and accessory hardware are available to accommodate heavy-duty, commercial wire and cable. The rugged shell is made from aluminum alloy and plated with a variety of finishes to meet any application.

### Features of the ACA-B Reverse Bayonet series:

- Quick positive coupling with audible and tactile indication of full coupling.
- Intermateable with existing VG95234 connectors
- Rated 500 couplings minimum.
- No lockwiring required
- Inserts available in Neoprene material with alternate materials available upon request.
- Contacts available in gold and silver plating
- Available in both crimp and solder terminations
- Numerous finishes available, including cadmium free zinc alloy.
- Rugged construction; aluminum or stainless steel components.

Ask for Amphenol catalog 12-027 for further information on ACA-B Reverse Bayonet Connectors.



**Amphenol ACA-B Reverse Bayonet Connectors**

### 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, petrochemical industries and heavy equipment/geophysical marketplaces. GT connector utilize MIL-5015 inserts and are intermateable 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
  - GTC-M for high voltage power applications
- resilient cover coupling nuts available for added damage protection and increased gripping surface



**Amphenol® GT Reverse Bayonet Connectors**

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 39 for advantages and features of RADSOK contacts for high amperage capability.



# 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-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 37, 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-5015 type connectors from Amphenol

### MS/Standard MIL-5015 Type Connectors

Amphenol has long been the accepted leader in providing MS/Standard MIL-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



Amphenol® MS/Standard MIL-5015 Connectors

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-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-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® 97 Series Connectors

# Additional Products

## other MIL-5015 type connectors from Amphenol

### 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.

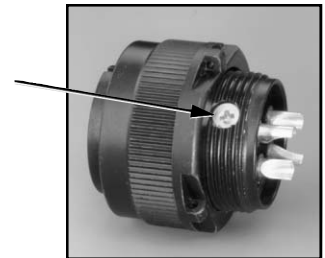
#### Features of Pre-Earth FMLB (DL Series) Connectors:

- MIL-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.



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



### Matrix® MIL-5015 Connectors

This series provides an alternative to the older MIL-5015 solder type. It bridges the gap between an old connector standard and the environmental and high performance needs of current technologies.

Features of the Matrix MIL-5015 include:

- MS and Proprietary versions available.
- Completely sealed against environmental extremes:
  - individual contact seals
  - interfacial seals between contacts
  - peripheral gasket shell-to-shell seals
  - redundant rear wire seals and insert-to-shell seals
- 4 threaded shell styles with 172 insert patterns.
- Over 100 insert arrangements available, accommodating from a minimum of 1 to a maximum of 85 circuits.
- Thermocouple pin and socket contacts are available. Consult Amphenol, Sidney NY for information on thermocouple contacts.
- Self-locking plug available with an internal ratcheting mechanism to prevent unmating due to vibration and shock.

Ask for Amphenol Catalog 12-026 for detailed information on Matrix MIL-5015 connectors.



**Matrix® MIL-5015 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).

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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