

# Amphenol® ACA-B Reverse Bayonet Coupling Connectors

12-027-1



**The Industrial Connector for Factory Automation, Robotics,  
Process Control and Test & Measurement Equipment.**

# Amphenol

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Amphenol Aerospace is a Certified ISO 9001 Manufacturer

# Amphenol® ACA-B Connectors

## with reverse bayonet coupling



### Features of the Amphenol® ACA-B Reverse Bayonet Coupling Connectors with MIL-DTL-5015 insert patterns:

- Quick positive coupling
- Audible and tactile indication of full coupling
- Waterproof - IP67 rated
- No lockwiring required
- High shock and vibration capabilities
- Inserts available in Neoprene
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Numerous finishes available
- Zinc alloy plating (cadmium free) available
- Rugged construction
- Intermateable with existing VG95234 connectors
- 500 couplings minimum
- Up to 50% more ampacity with the use of RADSOK® socket contacts. Consult Amphenol Industrial Operations for more information or see Amphenol® Amphe-Power Connectors with RADSOK® Technology, SL-391 (online at [www.amphenol-industrial.com](http://www.amphenol-industrial.com)).
- Operating temperature range: -55°C to 125°C

**RoHS Compliant Product**  
**Available – Consult**  
Amphenol Industrial Operations.



**The ACA-B is designed for commercial and Industrial environments requiring a rugged bayonet style connector for heavy duty power and signal applications.**

A comprehensive selection of insert arrangements and accessory hardware configurations are featured to accommodate heavy-duty, commercial wire and cable.

ACA-B is manufactured in accordance with MIL-DTL-5015 and VG95234. The insulators are made of high quality polychloroprene material and can withstand temperatures of -55 to +125 degrees C. The rugged shell is made from aluminum alloy and plated with a variety of finishes to meet any application. Contacts are machined from copper alloy or brass and can be plated with gold or silver.

Common applications include automation, machine tool, robotics, instrumentation, process control, material handling, and test and measurement.



# ACA-B

## insert availability

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |   |    |    |      |   |   |    |  |  |  |
|----------------------------|-------------------|------------------------|--------------|---|---|----|----|------|---|---|----|--|--|--|
|                            |                   |                        | 0            | 4 | 8 | 12 | 16 | Coax |   |   |    |  |  |  |
|                            |                   |                        |              |   |   |    |    | 0    | 4 | 8 | 12 |  |  |  |
| 10SL-3                     | A                 | 3                      |              |   |   |    | 3  |      |   |   |    |  |  |  |
| 10SL-4†                    | A                 | 2                      |              |   |   |    | 2  |      |   |   |    |  |  |  |
| 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  |      |   |   |    |  |  |  |
| 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  |    |      |   |   |    |  |  |  |
| 18-17                      | 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  |      |   |   |    |  |  |  |
| 18-30                      | A                 | 5                      |              |   |   |    | 5  |      |   |   |    |  |  |  |
| 18-31                      | A                 | 5                      |              |   |   |    | 5  |      |   |   |    |  |  |  |

\*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 6-24 for application wire size.

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |    |    |    |      |   |   |    |  |  |  |
|----------------------------|-------------------|------------------------|--------------|---|----|----|----|------|---|---|----|--|--|--|
|                            |                   |                        | 0            | 4 | 8  | 12 | 16 | Coax |   |   |    |  |  |  |
|                            |                   |                        |              |   |    |    |    | 0    | 4 | 8 | 12 |  |  |  |
| 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 |      |   |   |    |  |  |  |
| 20-26                      | A                 | 19                     |              |   |    |    | 19 |      |   |   |    |  |  |  |
| 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                      | A/D               | 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  |      |   |   |    |  |  |  |

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

\*\*Coaxial cable data can be found on insert arrangement drawings, pages 6-24. For further information on coaxial contacts and cable see catalog 12-130.

# ACA-B

## insert availability, cont.

| Insert<br>Arrange<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |    |    |    |        |   |   |    |  |  |  |
|---------------------------|-------------------|------------------------|--------------|---|----|----|----|--------|---|---|----|--|--|--|
|                           |                   |                        | 0            | 4 | 8  | 12 | 16 | Coax** |   |   |    |  |  |  |
|                           |                   |                        |              |   |    |    |    | 0      | 4 | 8 | 12 |  |  |  |
| 22-16                     | A                 | 9                      |              |   |    | 3  | 6  |        |   |   |    |  |  |  |
| 22-17                     | D/A               | 9                      |              |   |    | 1  | 8  |        |   |   |    |  |  |  |
| 22-18                     | D/A               | 8                      |              |   |    |    | 8  |        |   |   |    |  |  |  |
| 22-19                     | A                 | 14                     |              |   |    |    | 14 |        |   |   |    |  |  |  |
| 22-20                     | A                 | 9                      |              |   |    |    | 9  |        |   |   |    |  |  |  |
| 22-21                     | A                 | 3                      | 1            |   |    |    | 2  |        |   |   |    |  |  |  |
| 22-22                     | A                 | 4                      |              |   | 4  |    |    |        |   |   |    |  |  |  |
| 22-23                     | D/A               | 8                      |              |   |    | 8  |    |        |   |   |    |  |  |  |
| 22-24                     | D/A               | 6                      |              |   |    | 2  | 4  |        |   |   |    |  |  |  |
| 22-27                     | D/A               | 9                      |              |   | 1  |    | 8  |        |   |   |    |  |  |  |
| 22-28                     | A                 | 7                      |              |   |    | 7  |    |        |   |   |    |  |  |  |
| 22-33                     | D/A               | 7                      |              |   |    |    | 7  |        |   |   |    |  |  |  |
| 22-34                     | D                 | 5                      |              |   |    | 3  | 2  |        |   |   |    |  |  |  |
| 22-63                     | A                 | 12                     |              |   |    | 4  | 8  |        |   |   |    |  |  |  |
| 22-65                     | D/A               | 8                      |              |   |    | 8* |    |        |   |   |    |  |  |  |
| 22-70                     | A                 | 13                     |              |   |    | 8  | 5  |        |   |   |    |  |  |  |
| 22-80                     | A                 | 3                      |              |   | 3* |    |    |        |   |   |    |  |  |  |
| 24-2                      | D                 | 7                      |              |   |    | 7  |    |        |   |   |    |  |  |  |
| 24-3                      | D                 | 7                      |              |   |    | 2  | 5  |        |   |   |    |  |  |  |
| 24-5                      | A                 | 16                     |              |   |    |    | 16 |        |   |   |    |  |  |  |
| 24-6                      | D/A               | 8                      |              |   |    | 8  |    |        |   |   |    |  |  |  |
| 24-7                      | A                 | 16                     |              |   |    | 2  | 14 |        |   |   |    |  |  |  |
| 24-9                      | A                 | 2                      |              | 2 |    |    |    |        |   |   |    |  |  |  |
| 24-10                     | A                 | 7                      |              |   | 7  |    |    |        |   |   |    |  |  |  |
| 24-11                     | A                 | 9                      |              |   | 3  | 6  |    |        |   |   |    |  |  |  |
| 24-12                     | A                 | 5                      |              | 2 |    | 3  |    |        |   |   |    |  |  |  |
| 24-16                     | D/A               | 7                      |              |   | 1  | 3  | 3  |        |   |   |    |  |  |  |
| 24-17                     | D                 | 5                      |              |   |    | 2  | 3  |        |   |   |    |  |  |  |
| 24-19                     | 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 |        |   |   |    |  |  |  |

\*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 6-24 for application wire size.

| Insert<br>Arrange<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |    |    |    |        |   |   |    |  |    |  |
|---------------------------|-------------------|------------------------|--------------|---|----|----|----|--------|---|---|----|--|----|--|
|                           |                   |                        | 0            | 4 | 8  | 12 | 16 | Coax** |   |   |    |  |    |  |
|                           |                   |                        |              |   |    |    |    | 0      | 4 | 8 | 12 |  |    |  |
| 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 |        |   |   |    |  |    |  |
| 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/<br>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 |        |   |   |    |  |    |  |

\*\*Coaxial cable data can be found on insert arrangement drawings, pages 6-24. For further information on coaxial contacts and cable see catalog 12-130.

# ACA-B

## insert availability, cont.

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |   |    |    |        |   |   |    |  |  |  |
|----------------------------|-------------------|------------------------|--------------|---|---|----|----|--------|---|---|----|--|--|--|
|                            |                   |                        | 0            | 4 | 8 | 12 | 16 | Coax** |   |   |    |  |  |  |
|                            |                   |                        |              |   |   |    |    | 0      | 4 | 8 | 12 |  |  |  |
| 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                      | E/Inst.           | 42                     |              |   |   | 5  | 37 |        |   |   |    |  |  |  |
| 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 |        |   |   |    |  |  |  |
| 32-AM                      | A                 | 1                      | 1 size 4/0   |   |   |    |    |        |   |   |    |  |  |  |
| 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 |        |   |   |    |  |  |  |

\*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 6-24 for application wire size.

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |    |     |     |        |   |   |    |   |  |  |
|----------------------------|-------------------|------------------------|--------------|---|----|-----|-----|--------|---|---|----|---|--|--|
|                            |                   |                        | 0            | 4 | 8  | 12  | 16  | Coax** |   |   |    |   |  |  |
|                            |                   |                        |              |   |    |     |     | 0      | 4 | 8 | 12 |   |  |  |
| 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  |        |   |   |    |   |  |  |
| 36-22                      | D                 | 22                     |              |   |    | 22  |     |        |   |   |    |   |  |  |
| 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* |     |        |   |   |    |   |  |  |
| 36-83                      | Coax              | 7                      |              |   |    |     |     |        |   |   | 7  |   |  |  |
| 36-85                      | A/D               | 35                     |              |   |    |     | 35* |        |   |   |    |   |  |  |
| 36-97                      | C                 | 1                      | 1 size 4/0   |   |    |     |     |        |   |   |    |   |  |  |
| 36-99                      | D                 | 12                     |              | 3 | 3  | 3   | 3   |        |   |   |    |   |  |  |
| 36-AF                      | A                 | 48                     |              |   |    |     | 48  |        |   |   |    |   |  |  |

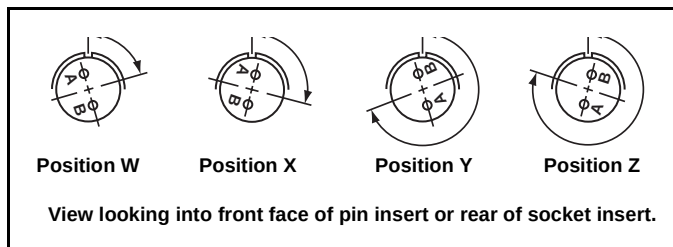
\*\*Coaxial cable data can be found on insert arrangement drawings, pages 6-24. For further information on coaxial contacts and cable see catalog 12-130.

# ACA-B

## insert alternate positioning

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

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



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

| Degrees |     |     |     |
|---------|-----|-----|-----|
| W       | X   | Y   | Z   |
| 80      | 110 | 250 | 280 |

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

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 10SL-4             | 63      | —   | —   | —   |
| 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 |
| 20-19              | 90      | 180 | 270 | —   |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 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 |
| 20-33              | —       | —   | —   | 280 |
| 22-1               | 35      | 110 | 250 | 325 |
| 22-2               | 70      | 145 | 215 | 290 |
| 22-4               | 35      | 110 | 250 | 325 |
| 22-5               | 35      | 110 | 250 | 325 |
| 22-8               | 35      | 110 | 250 | 325 |
| 22-9               | 70      | 145 | 215 | 290 |
| 22-10              | 35      | 110 | 250 | 325 |
| 22-11              | 35      | 110 | 250 | 325 |
| 22-13              | 35      | 110 | 250 | 325 |
| 22-20              | 35      | 110 | 250 | 325 |
| 22-22              | —       | 110 | 250 | —   |
| 22-23              | 35      | —   | 250 | —   |
| 22-27              | 80      | —   | 250 | 280 |
| 22-28              | 80      | —   | —   | 280 |
| 24-2               | 80      | —   | —   | 280 |
| 24-9               | 35      | 110 | 250 | 325 |
| 24-10              | 80      | —   | —   | 280 |
| 24-11              | 35      | 110 | 250 | 325 |
| 24-22              | 45      | 110 | 250 | —   |
| 24-27              | 80      | —   | —   | 280 |
| 24-96              | 65      | —   | —   | —   |
| 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 |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 28-12              | 90      | 180 | 270 | —   |
| 28-18              | 70      | 145 | 215 | 290 |
| 28-22              | 70      | 145 | 215 | 290 |
| 28-AY              | 45      | 110 | 250 | —   |
| 32-2               | 70      | 145 | 215 | 290 |
| 32-5               | 35      | 110 | 250 | 325 |
| 32-7               | 80      | 125 | 235 | 280 |
| 32-8               | 80      | 125 | 235 | 280 |
| 32-15              | 35      | 110 | 250 | 280 |
| 32-17              | 45      | 110 | 250 | —   |
| 32-25              | 60      | 120 | —   | —   |
| 32-64*             | 80      | 100 | 110 | 250 |
| 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      | —   | —   | —   |

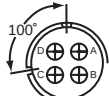
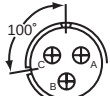
\*Additional rotations available; consult Amphenol for information.

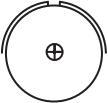
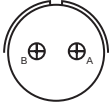
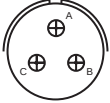
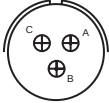
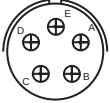
# ACA-B

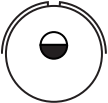
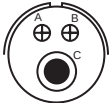
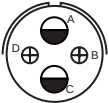
## contact arrangements

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

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

|                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |
| Insert Arrangement | 14S-6                                                                             | 14S-7                                                                             | 14S-9                                                                             | 14S-10                                                                             | 14S-12                                                                              | 14S-A7                                                                              |
| Service Rating     | Inst.                                                                             | A                                                                                 | A                                                                                 | Inst.                                                                              | A                                                                                   | A                                                                                   |
| Number of Contacts | 6                                                                                 | 3                                                                                 | 2                                                                                 | 4                                                                                  | 3                                                                                   | 7                                                                                   |
| Contact Size       | 16                                                                                | 16                                                                                | 16                                                                                | 16                                                                                 | 16                                                                                  | 16                                                                                  |

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

|                    |                                                                                     |                                                                                     |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 16-2                                                                                | 16-7                                                                                | 16-9                                                                                |
| Service Rating     | E                                                                                   | A                                                                                   | A                                                                                   |
| Number of Contacts | 1                                                                                   | 1 2                                                                                 | 2 2                                                                                 |
| Contact Size       | 12                                                                                  | 8 16                                                                                | 12 16                                                                               |

CONTACT LEGEND











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# ACA-B

## 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 |
| Service Rating     | A     | A     | A     | A     | A     |
| Number of Contacts | 3     | 2     | 1     | 2*    | 4     |
| Contact Size       | 12    | 12    | 4     | 12    | 12    |

|                    |                              |      |      |       |      |      |
|--------------------|------------------------------|------|------|-------|------|------|
|                    |                              |      |      |       |      |      |
| Insert Arrangement | 18-1                         | 18-3 | 18-4 | 18-5  | 18-6 | 18-7 |
| Service Rating     | B, C, F, G = A; Bal. = Inst. | D    | D    | D     | D    | B    |
| Number of Contacts | 10                           | 2    | 4    | 2 1   | 1    | 1    |
| Contact Size       | 16                           | 12   | 16   | 12 16 | 4    | 8    |

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 18-8  | 18-9  | 18-10 | 18-11 | 18-12 | 18-13 |
| Service Rating     | A     | Inst. | A     | A     | A     | A     |
| Number of Contacts | 1 7   | 2 5   | 4     | 5     | 6     | 1 3   |
| Contact Size       | 12 16 | 12 16 | 12    | 12    | 16    | 8 12  |

|                    |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |
| Insert Arrangement | 18-14 | 18-15 | 18-17 | 18-19 | 18-20 |
| Service Rating     | A     | A     | Inst. | A     | A     |
| Number of Contacts | 1 1   | 4**   | 2 5   | 10    | 5     |
| Contact Size       | 4 16  | 12    | 12 16 | 16    | 16    |

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

CONTACT LEGEND

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# ACA-B

## contact arrangements

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

|                    |       |                              |       |       |       |      |
|--------------------|-------|------------------------------|-------|-------|-------|------|
|                    |       |                              |       |       |       |      |
| Insert Arrangement | 18-22 | 18-24                        | 18-29 | 18-30 | 18-31 | 20-2 |
| Service Rating     | D     | B, C, F, G = A; Bal. = Inst. | A     | A     | A     | D    |
| Number of Contacts | 3     | 10                           | 5     | 5     | 5     | 1    |
| Contact Size       | 16    | 16                           | 16    | 16    | 16    | 0    |

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

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 20-11 | 20-12 | 20-14 | 20-15 | 20-16 | 20-17 |
| Service Rating     | Inst. | A     | A     | A     | A     | A     |
| Number of Contacts | 13    | 1 1   | 2 3   | 7     | 2 7   | 5 1   |
| Contact Size       | 16    | 4 16  | 8 12  | 12    | 12 16 | 12 16 |

CONTACT LEGEND

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# ACA-B

## contact arrangements

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

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 20-18 | 20-19 | 20-20 | 20-21 | 20-22 | 20-23 |
| Service Rating     | A     | A     | A     | A     | A     | A     |
| Number of Contacts | 3 6   | 3     | 1 3   | 1 8   | 3 3   | 2     |
| Contact Size       | 12 16 | 8     | 4 12  | 12 16 | 8 16  | 8     |

|                    |                           |       |       |       |                           |       |
|--------------------|---------------------------|-------|-------|-------|---------------------------|-------|
|                    |                           |       |       |       |                           |       |
|                    | 100° Rotation<br>of 20-11 |       |       |       | 250° Rotation<br>of 20-11 |       |
| Insert Arrangement | 20-24                     | 20-25 | 20-26 | 20-27 | 20-29                     | 20-30 |
| Service Rating     | A                         | Inst. | A     | A     | A                         | Inst. |
| Number of Contacts | 2 2                       | 13    | 19    | 14    | 17                        | 13    |
| Contact Size       | 8 16                      | 16    | 16    | 16    | 16                        | 16    |

|                    |       |       |                       |       |                      |                    |
|--------------------|-------|-------|-----------------------|-------|----------------------|--------------------|
|                    |       |       |                       |       |                      |                    |
| Insert Arrangement | 20-33 | 20-51 | 20-57                 | 20-58 | 20-59                | 20-66              |
| Service Rating     | A     | A     | A                     | A     | A                    | A                  |
| Number of Contacts | 11    | 3*    | 7*                    | 5 5   | 3*                   | 1 5                |
| Contact Size       | 16    | 8     | 12 for #14 or 16 wire | 12 16 | 8 for #10 or 12 wire | 16 12 for #10 wire |

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CONTACT LEGEND

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# ACA-B

## contact arrangements

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

|                    |                    |      |      |      |       |
|--------------------|--------------------|------|------|------|-------|
|                    |                    |      |      |      |       |
| Insert Arrangement | 20-79              | 22-1 | 22-2 | 22-4 | 22-5  |
| Service Rating     | H=D; Bal. = A      | D    | D    | A    | D     |
| Number of Contacts | 7* 1*              | 2    | 3    | 2 2  | 2 4   |
| Contact Size       | 16 12 for #16 wire | 8    | 8    | 8 12 | 12 16 |

|                    |      |      |      |      |       |
|--------------------|------|------|------|------|-------|
|                    |      |      |      |      |       |
| Insert Arrangement | 22-6 | 22-7 | 22-8 | 22-9 | 22-10 |
| Service Rating     | D    | E    | E    | E    | E     |
| Number of Contacts | 2 1  | 1    | 2    | 3    | 4     |
| Contact Size       | 8 16 | 0    | 12   | 12   | 16    |

|                    |       |       |                       |       |                          |
|--------------------|-------|-------|-----------------------|-------|--------------------------|
|                    |       |       |                       |       |                          |
| Insert Arrangement | 22-11 | 22-12 | 22-13                 | 22-14 | 22-15                    |
| Service Rating     | B     | D     | E = D; A, B, C, D = A | A     | D = E; A, B, C, E, F = A |
| Number of Contacts | 2     | 2 3   | 4 1                   | 19    | 5 1                      |
| Contact Size       | 16    | 8 16  | 12 16                 | 16    | 12 16                    |

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CONTACT LEGEND

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# ACA-B

## contact arrangements

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

|                    |       |                 |                                |       |       |
|--------------------|-------|-----------------|--------------------------------|-------|-------|
|                    |       |                 |                                |       |       |
| Insert Arrangement | 22-16 | 22-17           | 22-18                          | 22-19 | 22-20 |
| Service Rating     | A     | A = D; Bal. = A | A, B, F, G, H = D; C, D, E = A | A     | A     |
| Number of Contacts | 3 6   | 1 8             | 8                              | 14    | 9     |
| Contact Size       | 12 16 | 12 16           | 16                             | 16    | 16    |

|                    |       |       |                 |                          |                 |
|--------------------|-------|-------|-----------------|--------------------------|-----------------|
|                    |       |       |                 |                          |                 |
| Insert Arrangement | 22-21 | 22-22 | 22-23           | 22-24                    | 22-27           |
| Service Rating     | A     | A     | H = D; Bal. = A | C, D, E = D; A, B, F = A | J = D; Bal. = A |
| Number of Contacts | 1 2   | 4     | 8               | 2 4                      | 1 8             |
| Contact Size       | 0 16  | 8     | 12              | 12 16                    | 8 16            |

|                    |       |                             |       |       |                       |
|--------------------|-------|-----------------------------|-------|-------|-----------------------|
|                    |       |                             |       |       |                       |
| Insert Arrangement | 22-28 | 22-33                       | 22-34 | 22-63 | 22-65                 |
| Service Rating     | A     | A, B, C, D = D; E, F, G = A | D     | A     | H = D; Bal. = A       |
| Number of Contacts | 7     | 7                           | 3 2   | 4 8   | 8*                    |
| Contact Size       | 12    | 16                          | 12 16 | 12 16 | 12 for #14 or 16 wire |

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CONTACT LEGEND

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# ACA-B

## contact arrangements

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

|                    |       |                      |      |       |      |
|--------------------|-------|----------------------|------|-------|------|
|                    |       |                      |      |       |      |
| Insert Arrangement | 22-70 | 22-80                | 24-2 | 24-3  | 24-5 |
| Service Rating     | A     | A                    | D    | D     | A    |
| Number of Contacts | 8 5   | 3*                   | 7    | 2 5   | 16   |
| Contact Size       | 12 16 | 8 for #10 or 12 wire | 12   | 12 16 | 16   |

|                    |                       |       |      |       |       |
|--------------------|-----------------------|-------|------|-------|-------|
|                    |                       |       |      |       |       |
| Insert Arrangement | 24-6                  | 24-7  | 24-9 | 24-10 | 24-11 |
| Service Rating     | A, G, H = D; Bal. = A | A     | A    | A     | A     |
| Number of Contacts | 8                     | 2 14  | 2    | 7     | 3 6   |
| Contact Size       | 12                    | 12 16 | 4    | 8     | 8 12  |

|                    |       |                             |       |       |       |
|--------------------|-------|-----------------------------|-------|-------|-------|
|                    |       |                             |       |       |       |
| Insert Arrangement | 24-12 | 24-16                       | 24-17 | 24-19 | 24-20 |
| Service Rating     | A     | A, B, F, G = D; C, D, E = A | D     | A     | D     |
| Number of Contacts | 2 3   | 1 3 3                       | 2 3   | 12    | 2 9   |
| Contact Size       | 4 12  | 8 12 16                     | 12 16 | 16    | 12 16 |

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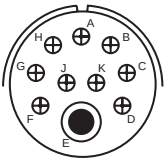
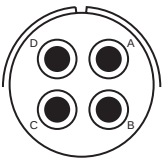
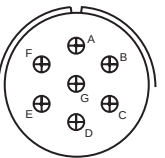
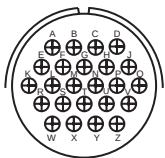
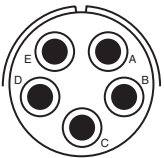
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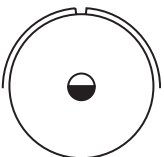
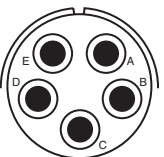
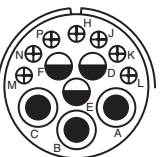
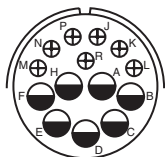
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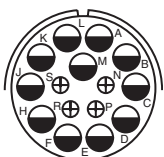
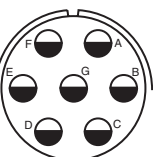
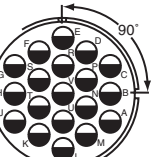
# ACA-B

## contact arrangements

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

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

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

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

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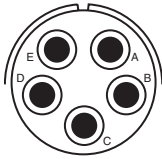
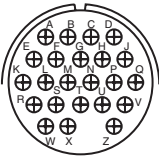
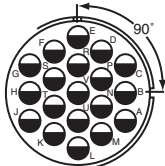
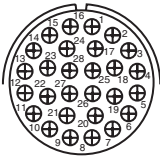
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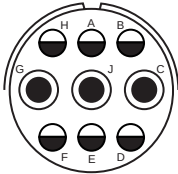
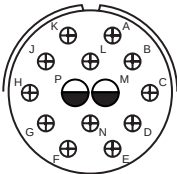
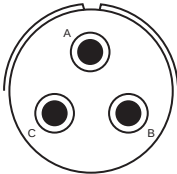
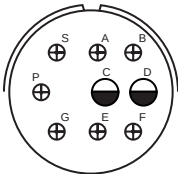
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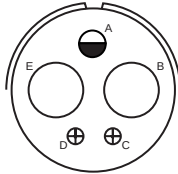
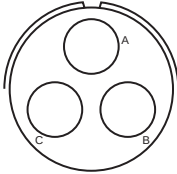
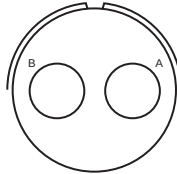
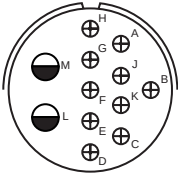
# ACA-B

## contact arrangements

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

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

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

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 28-5                                                                                | 28-6                                                                                | 28-7                                                                                 | 28-8                                                                                  |
| Service Rating     | D                                                                                   | D                                                                                   | D                                                                                    | L, M = E; B = D; Bal. = A                                                             |
| Number of Contacts | 2 1 2                                                                               | 3                                                                                   | 2                                                                                    | 2 10                                                                                  |
| Contact Size       | 4 12 16                                                                             | 4                                                                                   | 4                                                                                    | 12 16                                                                                 |

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CONTACT LEGEND

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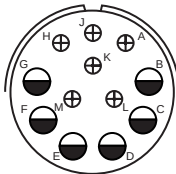
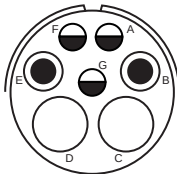
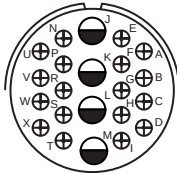
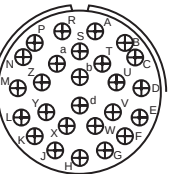
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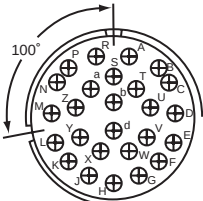
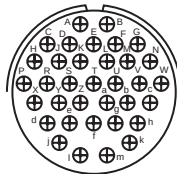
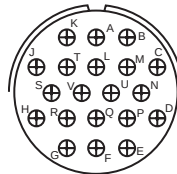
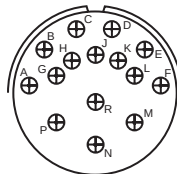
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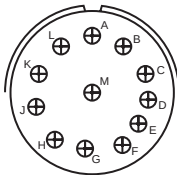
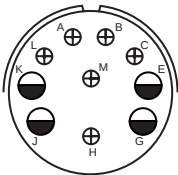
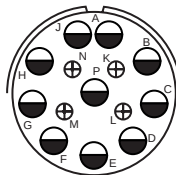
# ACA-B

## contact arrangements

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

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

|                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
|  |  |  |  |                                |
| 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 |

\* Solderless

CONTACT LEGEND

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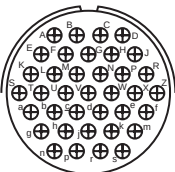
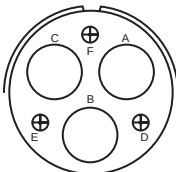
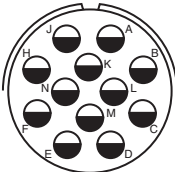
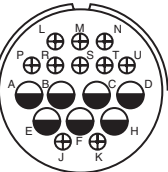
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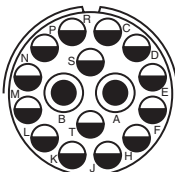
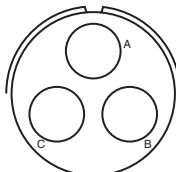
# ACA-B

## contact arrangements

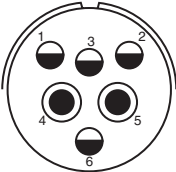
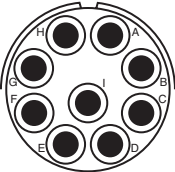
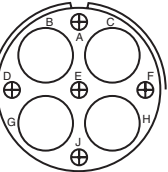
front face of pin insert or rear face of socket insert illustrated

|                    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| 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                                                                               |

|                    |                                                                                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| 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-59A/U or RG-62A/U                                                      | 16 8 8 for #10 wire (S, T, R)                                                       | 16 8 for #10 wire                                                                    |

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

\* Solderless

CONTACT LEGEND









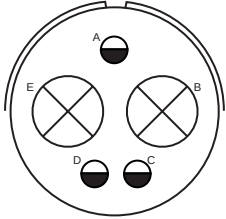
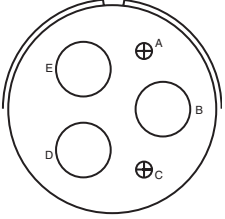
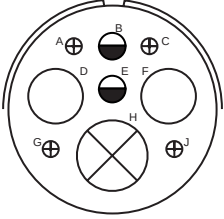
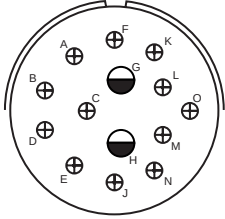


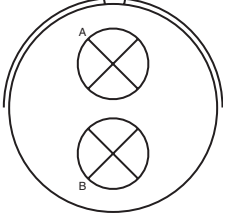
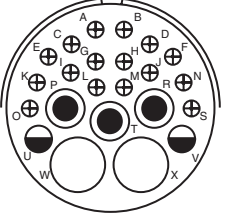
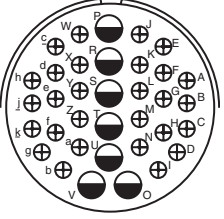
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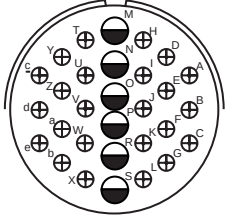
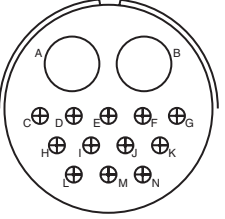
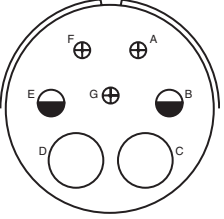
# ACA-B

## contact arrangements

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

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

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

|                    |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 32-8                                                                                | 32-9                                                                                 | 32-10                                                                                 |
| Service Rating     | A                                                                                   | D                                                                                    | A, F = E; G = B; B, E = D; C, D = A                                                   |
| Number of Contacts | 6 24                                                                                | 2 12                                                                                 | 2 2 3                                                                                 |
| Contact Size       | 12 16                                                                               | 4 16                                                                                 | 4 8 16                                                                                |

|                |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |  |  |  |  |  |
| CONTACT LEGEND | 16                                                                                    | 12                                                                                    | 8                                                                                     | 4                                                                                     | 0                                                                                     |

# ACA-B

## contact arrangements

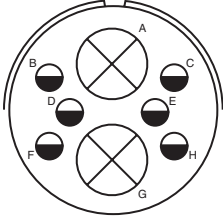
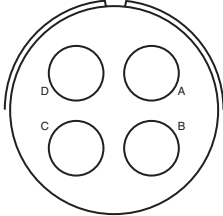
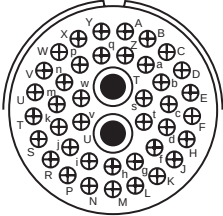
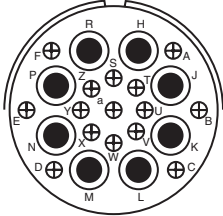
front face of pin insert or rear face of socket insert illustrated

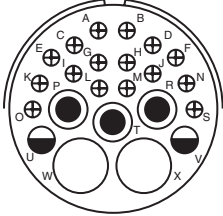
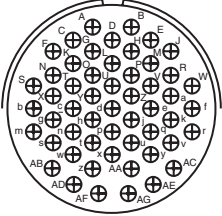
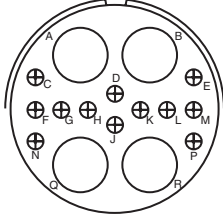
|                    |                             |                                   |                        |                                |
|--------------------|-----------------------------|-----------------------------------|------------------------|--------------------------------|
|                    |                             |                                   |                        |                                |
| Insert Arrangement | 32-12                       | 32-13                             | 32-15                  | 100° Rotation of 32-6<br>32-16 |
| Service Rating     | C, D, E, F, G = A; Bal. = D | D                                 | D                      | A                              |
| Number of Contacts | 5 10                        | 5 18                              | 2 6                    | 2 3 2 16                       |
| Contact Size       | 12 16                       | 12 16                             | 0 12                   | 4 8 12 16                      |
|                    |                             |                                   |                        |                                |
| Insert Arrangement | 32-17                       | 32-22                             | 32-25                  | 32-31                          |
| Service Rating     | D                           | A                                 | A                      | A                              |
| Number of Contacts | 4                           | 54                                | 25                     | 31                             |
| Contact Size       | 4                           | 16                                | 12                     | 16                             |
|                    |                             |                                   |                        |                                |
| Insert Arrangement | 32-48                       | 90° CW Rotation of 32-15<br>32-52 | 32-53                  | 32-56                          |
| Service Rating     | Inst.                       | D                                 | t, u = E; Bal. = Inst. | A                              |
| Number of Contacts | 48                          | 2 6                               | 5 37                   | 24 6                           |
| Contact Size       | 16                          | 0 12                              | 12 16                  | 16 12 for #10 wire             |
|                    |                             |                                   |                        |                                |
|                    |                             |                                   |                        | CONTACT LEGEND 16 12 8 4 0     |

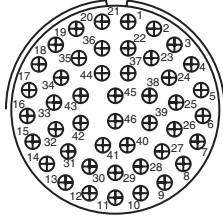
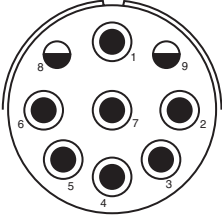
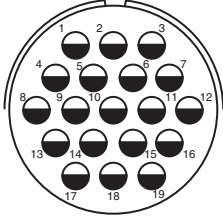
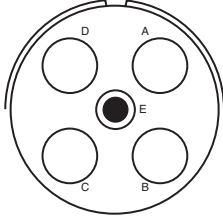
# ACA-B

## contact arrangements

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

|                    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 32-57                                                                             | 32-58                                                                             | 32-59                                                                              | 32-60                                                                               |
| Service Rating     | **                                                                                | —                                                                                 | A                                                                                  | A                                                                                   |
| Number of Contacts | 6 2                                                                               | 4                                                                                 | 40 2                                                                               | 15 8                                                                                |
| Contact Size       | 12 0 (Coax) RG-71/U                                                               | 4 (Coax) RG-161/U or RG-179/U                                                     | 16 8 (Coax) RG-161/U                                                               | 16 8 (Coax) RG-124/U                                                                |

|                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 32-62                                                                              | 32-64                                                                               | 32-68                                                                                |
| Service Rating     | **                                                                                 | Inst.                                                                               | A                                                                                    |
| Number of Contacts | 2 1 2 16 2                                                                         | 54                                                                                  | 12 4                                                                                 |
| Contact Size       | 4 8 12 16 8 (Coax) RG-124/U                                                        | 16                                                                                  | 16 4 (Coax) RG-58C/U                                                                 |

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 32-73                                                                               | 32-75                                                                               | 32-76                                                                                | 32-79                                                                                 |
| Service Rating     | A                                                                                   | 8, 9 = D                                                                            | A                                                                                    | D                                                                                     |
| Number of Contacts | 46                                                                                  | 2 7                                                                                 | 19                                                                                   | 4 1                                                                                   |
| Contact Size       | 16                                                                                  | 12 8 (Coax) RG-180B/U                                                               | 12                                                                                   | 4 8                                                                                   |

|                |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |  |  |  |  |  |
| CONTACT LEGEND | 16                                                                                    | 12                                                                                    | 8                                                                                     | 4                                                                                     | 0                                                                                     |

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

# ACA-B

## contact arrangements

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

|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
|                    |       |       |       |       |
| Insert Arrangement | 32-82 | 32-AF | 32-AM | 36-1  |
| Service Rating     | A     | A     | A     | D     |
| Number of Contacts | 4 12  | 55    | 1     | 4 18  |
| Contact Size       | 4 16  | 16    | 4/0   | 12 16 |

|                    |      |                 |      |
|--------------------|------|-----------------|------|
|                    |      |                 |      |
| Insert Arrangement | 36-3 | 36-4            | 36-5 |
| Service Rating     | D    | A = D; B, C = A | A    |
| Number of Contacts | 3 3  | 3               | 4    |
| Contact Size       | 0 12 | 0               | 0    |

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

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CONTACT LEGEND

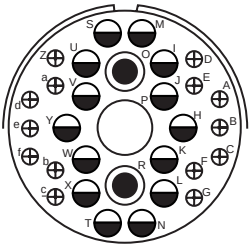
16128404/0

# ACA-B

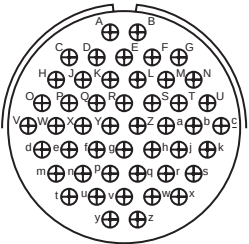
## contact arrangements

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

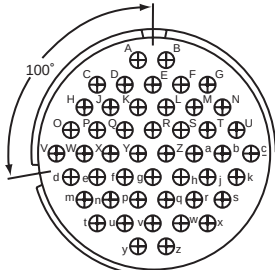
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



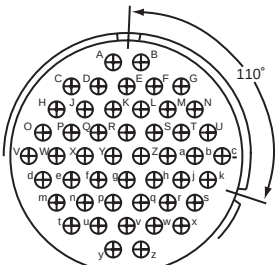
**36-9**  
**A**  
**1 2 14 14**  
**4 8 12 16**



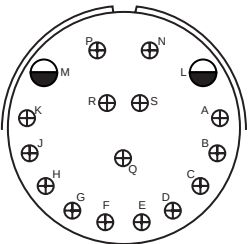
**36-10**  
**A**  
**48**  
**16**



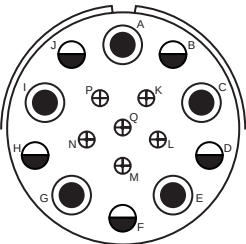
100° Rotation  
of 36-10  
**36-11**  
**A**  
**48**  
**16**



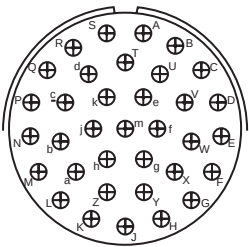
110° Rotation  
of 36-10  
**36-12**  
**A**  
**48**  
**16**



**36-13**  
**N, P, Q = E; Bal. = A**  
**2 15**  
**12 16**

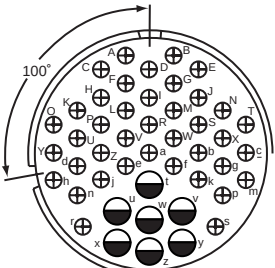


**36-14**  
**D**  
**5 5 6**  
**8 12 16**

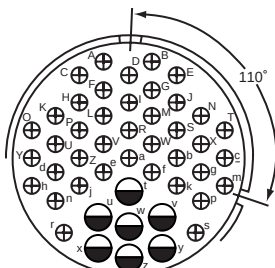


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

**36-15**  
**M = D; Bal. = A**  
**35**  
**16**



100° Rotation  
of 36-7  
**36-16**  
**A**  
**7 40**  
**12 16**



110° Rotation  
of 36-7  
**36-17**  
**A**  
**7 40**  
**12 16**

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CONTACT LEGEND

16

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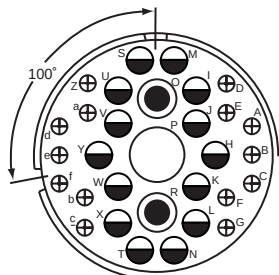
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# ACA-B

## contact arrangements

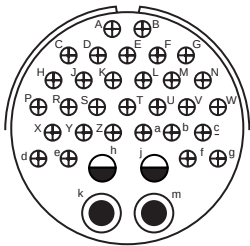
front face of pin insert or rear face of socket insert illustrated



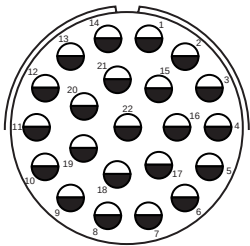
100° Rotation  
of 36-9

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

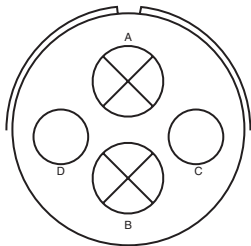
|       |   |    |    |
|-------|---|----|----|
| 36-18 |   |    |    |
| A     |   |    |    |
| 1     | 2 | 14 | 14 |
| 4     | 8 | 12 | 16 |



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

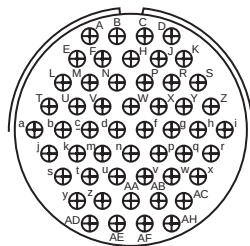


|       |    |
|-------|----|
| 36-22 |    |
| D     |    |
|       | 22 |
|       | 12 |

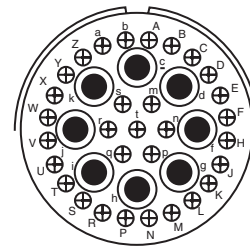


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

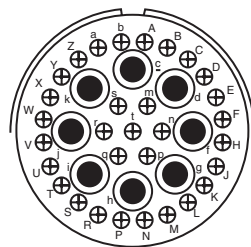
|       |   |
|-------|---|
| 36-51 |   |
| D     |   |
| 2     | 2 |
| 0     | 4 |



|       |    |
|-------|----|
| 36-52 |    |
| A     |    |
|       | 52 |
|       | 16 |

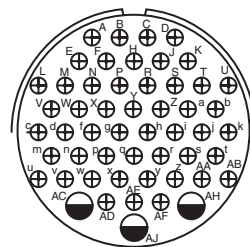


|       |    |
|-------|----|
| 36-54 |    |
| A     |    |
| 8     | 31 |
| 8     | 16 |

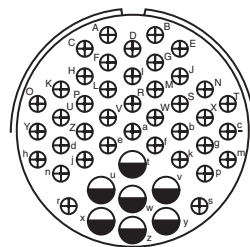


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

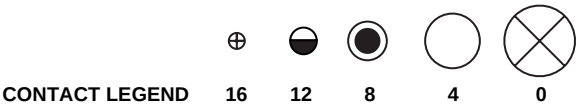
|       |               |
|-------|---------------|
| 36-55 |               |
| A     |               |
| 31    | 8             |
| 16    | 8 for #6 wire |



|       |                 |
|-------|-----------------|
| 36-59 |                 |
| A     |                 |
| 50    | 3               |
| 16    | 12 for #10 wire |



|       |                 |
|-------|-----------------|
| 36-60 |                 |
| A     |                 |
| 40    | 7               |
| 16    | 12 for #10 wire |



# ACA-B

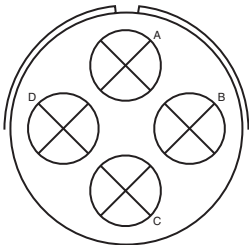
## contact arrangements

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

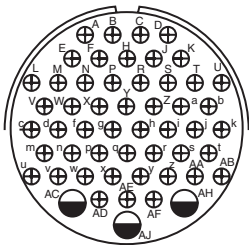
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



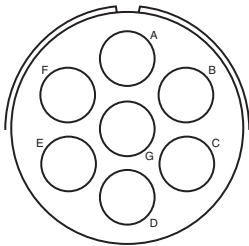
36-64  
—  
4  
0 (Coax) RG-11/U  
RG-12/U, or RG-13/U



36-65  
—  
4  
0 (Coax) RG-59/U, RG-62/U  
or RG-71/U

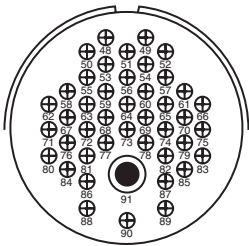


36-71  
A  
3 50  
12 16

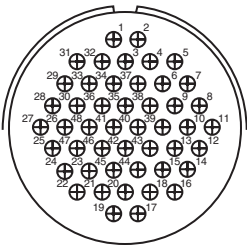


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

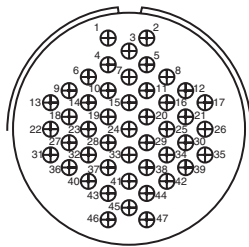
36-73  
—  
7  
4 (Coax) RG-62B/U



36-74  
A  
43 1  
16 8 (Coax) RG-187/B

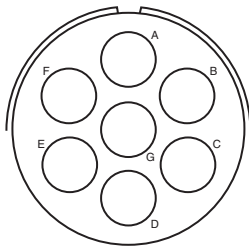


36-75  
A  
48  
16 for #14 wire

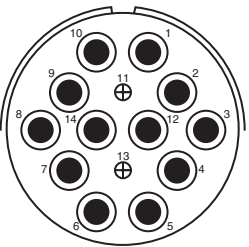


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

36-76  
A  
47  
16



36-77  
D  
7  
4



36-78  
A  
2 12  
16 8

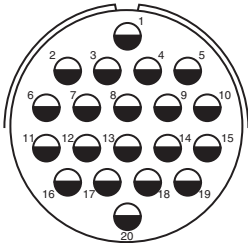


# ACA-B

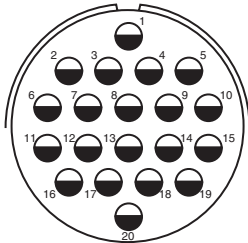
## contact arrangements

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

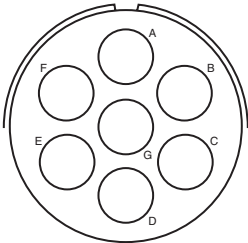
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



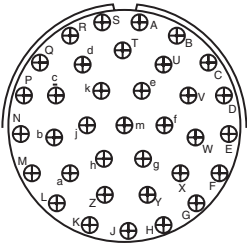
36-79  
A  
20  
12



36-80  
A  
20  
12 for #10 wire

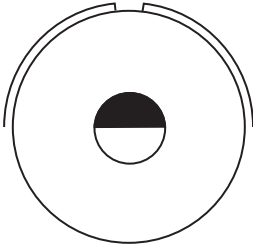


36-83  
-  
7  
4 (Coax) RG-58/U

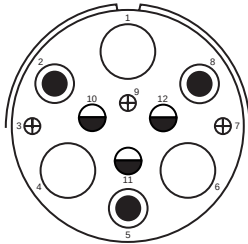


Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

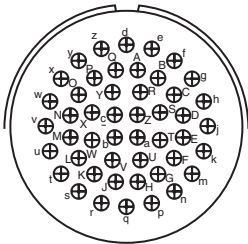
36-85  
M = D; Bal. = A  
35  
16 for #12 wire



36-97  
C  
1  
4/0



36-99  
D  
3 3 3 3  
4 8 12 16



Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

36-AF  
A  
48  
16



# **ACA-B Connector Classes**

# ACA 3100F-B

## wall mount receptacle for front panel mounting

- Receptacle with solid backshell and rear accessory threads
- Four through mounting holes or optional metric threaded holes
- Includes grommet and grommet sleeve



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>Thru Hole<br>+ .004<br>- .000 |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|------------------------------------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                               |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                               |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                               |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                               |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                               |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                               |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                               |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                               |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                               |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                               |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                               |

Millimeters

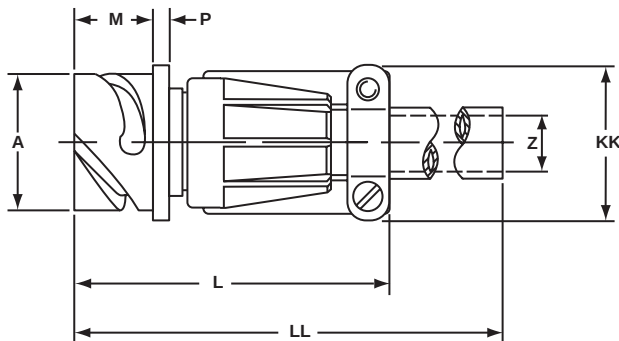
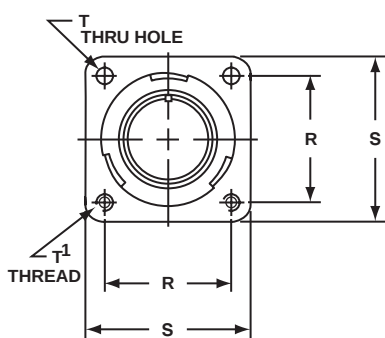
| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>Thru Hole<br>+ 0.1<br>- 0.0 | T <sup>1</sup><br>Metric<br>Thread |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|------------|----------------------------------|------------------------------------|
| 10SL       | 10.4      | 9.5       | 50        | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                              | M4                                 |
| 14S        | 13.2      | 9.5       | 50        | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                              | M4                                 |
| 16S        | 16.2      | 9.5       | 50        | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 |
| 16         | 16.2      | 9.5       | 60        | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 |
| 18         | 19.2      | 9.5       | 60        | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                              | M4                                 |
| 20         | 22.0      | 9.5       | 60        | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                              | M4                                 |
| 22         | 24.5      | 9.5       | 60        | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                              | M4                                 |
| 24         | 27.8      | 9.5       | 65        | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                              | M4                                 |
| 28         | 31.2      | 9.5       | 65        | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                              | M5                                 |
| 32         | 37.8      | 11.0      | 65        | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                              | M5                                 |
| 36         | 45.2      | 11.8      | 80        | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                              | M5                                 |

All dimensions for reference only.

# ACA 3100E-B

## wall mount receptacle for front panel mounting

- Receptacle with cable clamp and telescopic bushing
- Includes grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | L Max. | M + .016 - .000 | N + .000 - .006 | P ± .008 | R ± .004 | S ± .012 | T Thru Hole + .004 - .000 | Z Max. | KK Max. | LL Max. |
|------------|--------|-----------------|-----------------|----------|----------|----------|---------------------------|--------|---------|---------|
| 10SL       | 2.362  | .717            | .717            | .110     | .717     | 1.000    | .126                      | .256   | .894    | 4.720   |
| 14S        | 2.440  | .717            | .969            | .126     | .906     | 1.181    | .126                      | .354   | 1.083   | 4.720   |
| 16S        | 2.756  | .717            | 1.079           | .126     | .969     | 1.280    | .126                      | .433   | 1.181   | 4.720   |
| 16         | 2.756  | .846            | 1.079           | .126     | .969     | 1.280    | .126                      | .433   | 1.181   | 4.921   |
| 18         | 3.031  | .907            | 1.213           | .157     | 1.063    | 1.378    | .126                      | .559   | 1.300   | 4.921   |
| 20         | 3.031  | .907            | 1.346           | .157     | 1.157    | 1.496    | .126                      | .622   | 1.476   | 4.921   |
| 22         | 3.031  | .907            | 1.472           | .157     | 1.252    | 1.614    | .126                      | .622   | 1.476   | 4.921   |
| 24         | 3.346  | .907            | 1.610           | .157     | 1.374    | 1.752    | .146                      | .843   | 1.705   | 4.921   |
| 28         | 3.346  | .947            | 1.839           | .157     | 1.563    | 2.000    | .146                      | .843   | 1.705   | 4.921   |
| 32         | 3.346  | .947            | 2.102           | .157     | 1.752    | 2.244    | .169                      | 1.051  | 2.035   | 4.921   |
| 36         | 4.134  | .947            | 2.346           | .157     | 1.937    | 2.500    | .169                      | 1.248  | 2.283   | 5.315   |

Millimeters

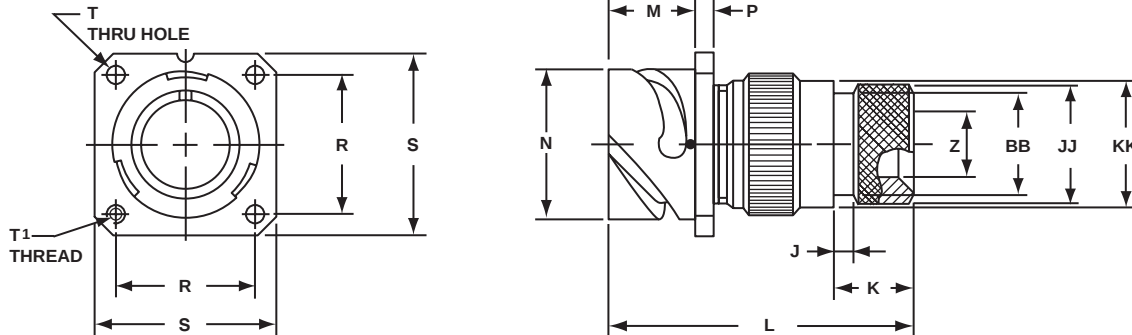
| Shell Size | L Max. | M + 0.4 - 0.0 | N + 0.00 - 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 - 0.0 | T <sup>1</sup> Metric Thread | Z Max. | KK Max. | LL Max. |
|------------|--------|---------------|-----------------|---------|---------|---------|-------------------------|------------------------------|--------|---------|---------|
| 10SL       | 60     | 18.2          | 18.2            | 2.8     | 18.2    | 25.4    | 3.2                     | M4                           | 6.5    | 22.7    | 120     |
| 14S        | 62     | 18.2          | 24.6            | 3.2     | 23.0    | 30.0    | 3.2                     | M4                           | 9.0    | 27.5    | 120     |
| 16S        | 70     | 18.2          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           | 11.0   | 30.0    | 120     |
| 16         | 70     | 21.5          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           | 11.0   | 30.0    | 125     |
| 18         | 77     | 23.0          | 30.8            | 4.0     | 27.0    | 35.0    | 3.2                     | M4                           | 14.2   | 33.0    | 125     |
| 20         | 77     | 23.0          | 34.2            | 4.0     | 29.4    | 38.0    | 3.2                     | M4                           | 15.8   | 37.5    | 125     |
| 22         | 77     | 23.0          | 37.4            | 4.0     | 31.8    | 41.0    | 3.2                     | M4                           | 15.8   | 37.5    | 125     |
| 24         | 85     | 23.0          | 40.9            | 4.0     | 34.9    | 44.5    | 3.7                     | M4                           | 21.4   | 43.3    | 125     |
| 28         | 85     | 24.1          | 46.7            | 4.0     | 39.7    | 50.8    | 3.7                     | M5                           | 21.4   | 43.3    | 125     |
| 32         | 85     | 24.1          | 53.4            | 4.0     | 44.5    | 57.0    | 4.3                     | M5                           | 26.7   | 51.7    | 125     |
| 36         | 105    | 24.1          | 59.6            | 4.0     | 49.2    | 63.5    | 4.3                     | M5                           | 31.7   | 58.0    | 135     |

All dimensions for reference only.

# ACA 3100G-B

## wall mount receptacle for front panel mounting

- Receptacle with endbell for heat shrink termination
- Does not include grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>Thru Hole<br>+ .004<br>- .000 | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|------------------------------------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                               | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                               | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                               | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                               | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                               | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                               | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                               | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                               | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                               | 1.062     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                               | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                               | 1.516     | 1.717      | 1.882        | 2.157        |

Millimeters

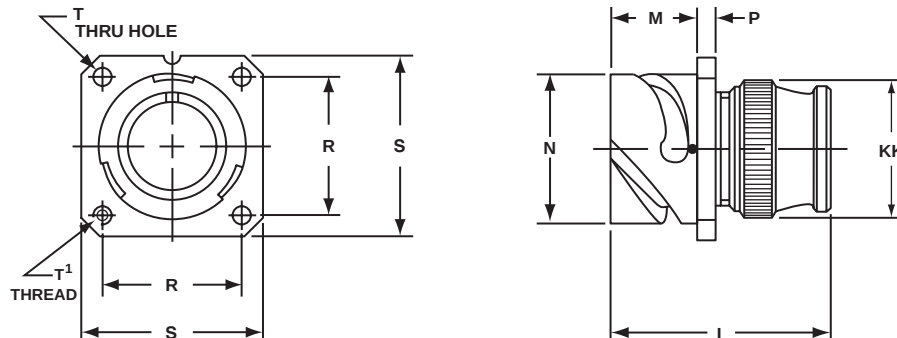
| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>Thru Hole<br>+ 0.1<br>- 0.0 | T <sup>1</sup><br>Metric<br>Thread | Z<br>Min. | BB<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|------------|------------|----------------------------------|------------------------------------|-----------|------------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                              | M4                                 | 7.7       | 13.3       | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                              | M4                                 | 10.6      | 17.0       | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 13.5      | 21.9       | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 13.5      | 21.9       | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                              | M4                                 | 14.6      | 21.9       | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                              | M4                                 | 18.7      | 26.2       | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                              | M4                                 | 20.8      | 26.2       | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                              | M4                                 | 24.6      | 34.5       | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                              | M5                                 | 27.0      | 34.5       | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                              | M5                                 | 33.3      | 43.6       | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                              | M5                                 | 38.5      | 43.6       | 47.8        | 54.8        |

All dimensions for reference only.

# ACA 3100R-B

## wall mount receptacle for front panel mounting

- Receptacle with short endbell for individual wire sealing
- Includes grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>Thru Hole<br>+ .004<br>- .000 | KK<br>Max. |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|------------------------------------|------------|
| 10SL       | 1.890     | .717                  | .717                  | .110        | .717        | 1.000       | .126                               | .787       |
| 14S        | 1.890     | .717                  | .969                  | .126        | .906        | 1.181       | .126                               | .945       |
| 16S        | 1.890     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                               | 1.024      |
| 16         | 2.205     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                               | 1.024      |
| 18         | 2.244     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                               | 1.161      |
| 20         | 2.244     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                               | 1.299      |
| 22         | 2.244     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                               | 1.417      |
| 24         | 2.244     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                               | 1.575      |
| 28         | 2.244     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                               | 1.811      |
| 32         | 2.362     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                               | 2.028      |
| 36         | 2.362     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                               | 2.283      |

Millimeters

| Shell Size | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>Thru Hole<br>+ 0.1<br>- 0.0 | T¹<br>Metric<br>Thread | KK<br>Max. |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|----------------------------------|------------------------|------------|
| 10SL       | 48.0      | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                              | M4                     | 20.0       |
| 14S        | 48.0      | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                              | M4                     | 24.0       |
| 16S        | 48.0      | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                     | 26.0       |
| 16         | 56.0      | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                     | 26.0       |
| 18         | 57.0      | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                              | M4                     | 29.5       |
| 20         | 57.0      | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                              | M4                     | 33.0       |
| 22         | 57.0      | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                              | M4                     | 36.0       |
| 24         | 57.0      | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                              | M4                     | 40.0       |
| 28         | 57.0      | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                              | M5                     | 46.0       |
| 32         | 60.0      | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                              | M5                     | 51.5       |
| 36         | 60.0      | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                              | M5                     | 58.0       |

All dimensions for reference only.

# ACA 3101F-B

## inline receptacle

- Receptacle with solid backshell and rear accessory threads
- Includes grommet and grommet sleeve



Inches

| Shell Size | B Thread Class 2A | F Min. | K Min. | L Max. | M + .016 - .000 | N + .000 - .006 | P ± .008 | Q ± .008 | S Max. |
|------------|-------------------|--------|--------|--------|-----------------|-----------------|----------|----------|--------|
| 10SL       | .6250-24 UNEF     | .409   | .374   | 1.969  | .717            | .717            | .110     | .811     | .992   |
| 14S        | .7500-20 UNEF     | .520   | .374   | 1.969  | .717            | .969            | .126     | 1.000    | 1.173  |
| 16S        | .8750-20 UNEF     | .638   | .374   | 1.969  | .717            | 1.079           | .126     | 1.126    | 1.272  |
| 16         | .8750-20 UNEF     | .638   | .374   | 2.362  | .846            | 1.079           | .126     | 1.126    | 1.272  |
| 18         | 1.0000-20 UNEF    | .756   | .374   | 2.362  | .907            | 1.213           | .157     | 1.248    | 1.370  |
| 20         | 1.1875-18 UNEF    | .867   | .374   | 2.362  | .907            | 1.346           | .157     | 1.374    | 1.488  |
| 22         | 1.1875-18 UNEF    | .965   | .374   | 2.362  | .907            | 1.472           | .157     | 1.500    | 1.618  |
| 24         | 1.4375-18 UNEF    | 1.094  | .374   | 2.560  | .907            | 1.610           | .157     | 1.626    | 1.756  |
| 28         | 1.4375-18 UNEF    | 1.228  | .374   | 2.560  | .947            | 1.839           | .157     | 1.874    | 2.004  |
| 32         | 1.7500-18 UNS     | 1.488  | .433   | 2.560  | .947            | 2.102           | .157     | 2.126    | 2.248  |
| 36         | 2.0000-18 UNS     | 1.780  | .465   | 3.150  | .947            | 2.346           | .157     | 2.386    | 2.504  |

Millimeters

| Shell Size | F Min. | K Min. | L Max. | M + 0.4 - 0.0 | N + 0.00 - 0.15 | P ± 0.2 | Q ± 0.2 | S Max. |
|------------|--------|--------|--------|---------------|-----------------|---------|---------|--------|
| 10SL       | 10.4   | 9.5    | 50     | 18.2          | 18.2            | 2.8     | 20.6    | 25.2   |
| 14S        | 13.2   | 9.5    | 50     | 18.2          | 24.6            | 3.2     | 25.4    | 29.8   |
| 16S        | 16.2   | 9.5    | 50     | 18.2          | 27.4            | 3.2     | 28.6    | 32.3   |
| 16         | 16.2   | 9.5    | 60     | 21.5          | 27.4            | 3.2     | 28.6    | 32.3   |
| 18         | 19.2   | 9.5    | 60     | 23.0          | 30.8            | 4.0     | 31.7    | 34.8   |
| 20         | 22.0   | 9.5    | 60     | 23.0          | 34.2            | 4.0     | 34.9    | 37.8   |
| 22         | 24.5   | 9.5    | 60     | 23.0          | 37.4            | 4.0     | 38.1    | 41.1   |
| 24         | 27.8   | 9.5    | 65     | 23.0          | 40.9            | 4.0     | 41.3    | 44.6   |
| 28         | 31.2   | 9.5    | 65     | 24.1          | 46.7            | 4.0     | 47.6    | 50.9   |
| 32         | 37.8   | 11.0   | 65     | 24.1          | 53.4            | 4.0     | 54.0    | 57.1   |
| 36         | 45.2   | 11.8   | 80     | 24.1          | 59.6            | 4.0     | 60.6    | 63.6   |

All dimensions for reference only.

# ACA 3101E-B

## inline receptacle

- Receptacle with cable clamp and telescopic bushing
- Includes grommet and grommet sleeve



Inches

| Shell Size | B Max. | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q Max. | S Max. | KK Max. | LL Max. |
|------------|--------|--------|-----------------------|-----------------------|-------------|--------|--------|---------|---------|
| 10SL       | .256   | 2.362  | .717                  | .717                  | .110        | .886   | .992   | .894    | 4.720   |
| 14S        | .354   | 2.440  | .717                  | .969                  | .126        | 1.161  | 1.173  | 1.083   | 4.720   |
| 16S        | .433   | 2.756  | .717                  | 1.079                 | .126        | 1.240  | 1.272  | 1.181   | 4.720   |
| 16         | .433   | 2.756  | .846                  | 1.079                 | .126        | 1.240  | 1.272  | 1.181   | 4.921   |
| 18         | .559   | 3.031  | .907                  | 1.213                 | .157        | 1.358  | 1.370  | 1.300   | 4.921   |
| 20         | .622   | 3.031  | .907                  | 1.346                 | .157        | 1.476  | 1.488  | 1.476   | 4.921   |
| 22         | .622   | 3.031  | .907                  | 1.472                 | .157        | 1.594  | 1.618  | 1.476   | 4.921   |
| 24         | .843   | 3.346  | .907                  | 1.610                 | .157        | 1.752  | 1.756  | 1.705   | 4.921   |
| 28         | .843   | 3.346  | .947                  | 1.839                 | .157        | 1.969  | 2.004  | 1.705   | 4.921   |
| 32         | 1.051  | 3.346  | .947                  | 2.102                 | .157        | 2.224  | 2.248  | 2.035   | 4.921   |
| 36         | 1.248  | 4.134  | .947                  | 2.346                 | .157        | 2.480  | 2.504  | 2.283   | 5.315   |

Millimeters

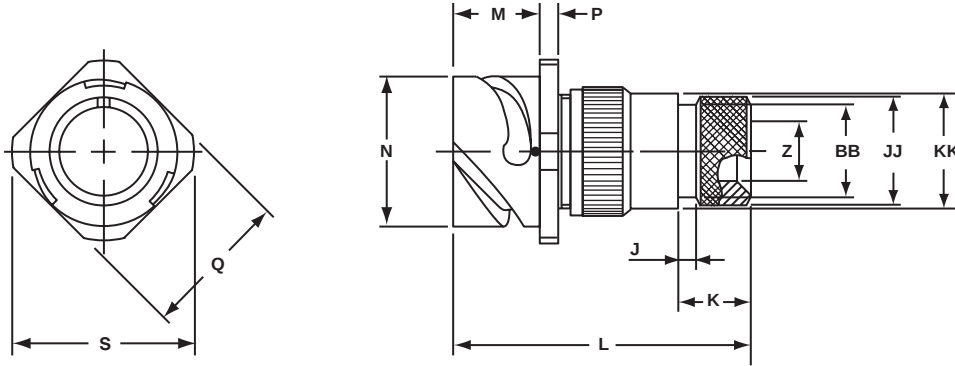
| Shell Size | B Max. | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q Max. | S Max. | KK Max. | LL Max. |
|------------|--------|--------|---------------------|-----------------------|------------|--------|--------|---------|---------|
| 10SL       | 6.5    | 60     | 18.2                | 18.2                  | 2.8        | 22.5   | 25.2   | 22.7    | 120     |
| 14S        | 9.0    | 62     | 18.2                | 24.6                  | 3.2        | 29.5   | 29.8   | 27.5    | 120     |
| 16S        | 11.0   | 70     | 18.2                | 27.4                  | 3.2        | 31.5   | 32.3   | 30.0    | 120     |
| 16         | 11.0   | 70     | 21.5                | 27.4                  | 3.2        | 31.5   | 32.3   | 30.0    | 125     |
| 18         | 14.2   | 77     | 23.0                | 30.8                  | 4.0        | 34.5   | 34.8   | 33.0    | 125     |
| 20         | 15.8   | 77     | 23.0                | 34.2                  | 4.0        | 37.5   | 37.8   | 37.5    | 125     |
| 22         | 15.8   | 77     | 23.0                | 37.4                  | 4.0        | 40.5   | 41.1   | 37.5    | 125     |
| 24         | 21.4   | 85     | 23.0                | 40.9                  | 4.0        | 44.5   | 44.6   | 43.3    | 125     |
| 28         | 21.4   | 85     | 24.1                | 46.7                  | 4.0        | 50.0   | 50.9   | 43.3    | 125     |
| 32         | 26.7   | 85     | 24.1                | 53.4                  | 4.0        | 56.5   | 57.1   | 51.7    | 125     |
| 36         | 31.7   | 105    | 24.1                | 59.6                  | 4.0        | 63.0   | 63.6   | 58.0    | 135     |

All dimensions for reference only.

# ACA 3101G-B

## inline receptacle

- Receptacle with backshell for heat shrink termination
- Does not include grommet and grommet sleeve



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>Max. | S<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-----------|-----------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .717                  | .717                  | .110        | .886      | .992      | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .717                  | .969                  | .126        | 1.161     | 1.173     | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .717                  | 1.079                 | .126        | 1.240     | 1.272     | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .846                  | 1.079                 | .126        | 1.240     | 1.272     | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .907                  | 1.213                 | .157        | 1.358     | 1.370     | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .907                  | 1.346                 | .157        | 1.476     | 1.488     | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .907                  | 1.472                 | .157        | 1.594     | 1.618     | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .907                  | 1.610                 | .157        | 1.752     | 1.756     | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .947                  | 1.839                 | .157        | 1.969     | 2.004     | 1.062     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .947                  | 2.102                 | .157        | 2.224     | 2.248     | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .947                  | 2.346                 | .157        | 2.480     | 2.504     | 1.516     | 1.717      | 1.882        | 2.157        |

Millimeters

| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>Max. | S<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|-----------|-----------|-----------|------------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 18.2                | 18.2                  | 2.8        | 22.5      | 25.2      | 7.7       | 13.3       | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 18.2                | 24.6                  | 3.2        | 29.5      | 29.8      | 10.6      | 17.0       | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 18.2                | 27.4                  | 3.2        | 31.5      | 32.3      | 13.5      | 21.9       | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 21.5                | 27.4                  | 3.2        | 31.5      | 32.3      | 13.5      | 21.9       | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 23.0                | 30.8                  | 4.0        | 34.5      | 34.8      | 14.6      | 21.9       | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 23.0                | 34.2                  | 4.0        | 37.5      | 37.8      | 18.7      | 26.2       | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 23.0                | 37.4                  | 4.0        | 40.5      | 41.1      | 20.8      | 26.2       | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 23.0                | 40.9                  | 4.0        | 44.5      | 44.6      | 24.6      | 34.5       | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 24.1                | 46.7                  | 4.0        | 50.0      | 50.9      | 27.0      | 34.5       | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 24.1                | 53.4                  | 4.0        | 56.5      | 57.1      | 33.3      | 43.6       | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 24.1                | 59.6                  | 4.0        | 63.0      | 63.6      | 38.5      | 43.6       | 47.8        | 54.8        |

All dimensions for reference only.

# ACA 3101R-B

## inline receptacle

- Receptacle with short endbell for individual wire sealing
- Includes grommet and grommet sleeve



Inches

| Shell Size | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q Max. | S Max. | KK Max. |
|------------|--------|-----------------------|-----------------------|-------------|--------|--------|---------|
| 10SL       | 1.890  | .717                  | .717                  | .110        | .886   | .992   | .787    |
| 14S        | 1.890  | .717                  | .969                  | .126        | 1.161  | 1.173  | .945    |
| 16S        | 1.890  | .717                  | 1.079                 | .126        | 1.240  | 1.272  | 1.024   |
| 16         | 2.205  | .846                  | 1.079                 | .126        | 1.240  | 1.272  | 1.024   |
| 18         | 2.244  | .907                  | 1.213                 | .157        | 1.358  | 1.370  | 1.161   |
| 20         | 2.244  | .907                  | 1.346                 | .157        | 1.476  | 1.488  | 1.299   |
| 22         | 2.244  | .907                  | 1.472                 | .157        | 1.594  | 1.618  | 1.417   |
| 24         | 2.244  | .907                  | 1.610                 | .157        | 1.752  | 1.756  | 1.575   |
| 28         | 2.244  | .947                  | 1.839                 | .157        | 1.969  | 2.004  | 1.811   |
| 32         | 2.362  | .947                  | 2.102                 | .157        | 2.224  | 2.248  | 2.028   |
| 36         | 2.362  | .947                  | 2.346                 | .157        | 2.480  | 2.504  | 2.283   |

Millimeters

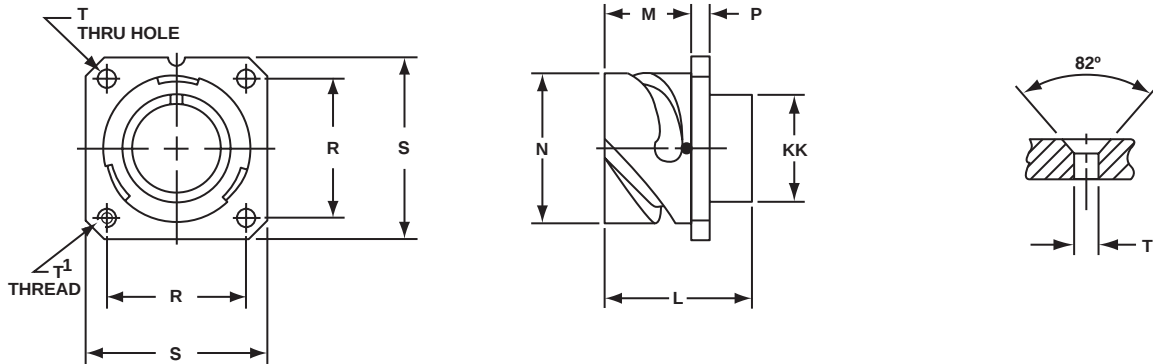
| Shell Size | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q Max. | S Max. | KK Max. |
|------------|--------|---------------------|-----------------------|------------|--------|--------|---------|
| 10SL       | 48.0   | 18.2                | 18.2                  | 2.8        | 22.5   | 25.2   | 20.0    |
| 14S        | 48.0   | 18.2                | 24.6                  | 3.2        | 29.5   | 29.8   | 24.0    |
| 16S        | 48.0   | 18.2                | 27.4                  | 3.2        | 31.5   | 32.3   | 26.0    |
| 16         | 56.0   | 21.5                | 27.4                  | 3.2        | 31.5   | 32.3   | 26.0    |
| 18         | 57.0   | 23.0                | 30.8                  | 4.0        | 34.5   | 34.8   | 29.5    |
| 20         | 57.0   | 23.0                | 34.2                  | 4.0        | 37.5   | 37.8   | 33.0    |
| 22         | 57.0   | 23.0                | 37.4                  | 4.0        | 40.5   | 41.1   | 36.0    |
| 24         | 57.0   | 23.0                | 40.9                  | 4.0        | 44.5   | 44.6   | 40.0    |
| 28         | 57.0   | 24.1                | 46.7                  | 4.0        | 50.0   | 50.9   | 46.0    |
| 32         | 60.0   | 24.1                | 53.4                  | 4.0        | 56.5   | 57.1   | 51.5    |
| 36         | 60.0   | 24.1                | 59.6                  | 4.0        | 63.0   | 63.6   | 58.0    |

All dimensions for reference only.

# ACA 3102E-B

## box mount receptacle for front panel mounting

- Receptacle without threads for panel mounting
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | L<br>± .012 | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T Thru Hole<br>+ .004<br>- .000 | KK Max. |
|------------|-------------|-----------------------|-----------------------|-------------|-------------|-------------|---------------------------------|---------|
| 10SL       | 1.087       | .717                  | .717                  | .110        | .717        | 1.000       | .126                            | .626    |
| 14S        | 1.087       | .717                  | .969                  | .126        | .906        | 1.181       | .126                            | .756    |
| 16S        | 1.087       | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                            | .882    |
| 16         | 1.331       | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                            | .882    |
| 18         | 1.331       | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                            | 1.008   |
| 20         | 1.331       | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                            | 1.142   |
| 22         | 1.331       | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                            | 1.268   |
| 24         | 1.331       | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                            | 1.390   |
| 28         | 1.406       | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                            | 1.630   |
| 32         | 1.469       | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                            | 1.882   |
| 36         | 1.469       | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                            | 2.063   |

Millimeters

| Shell Size | L<br>± 0.3 | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T Thru Hole<br>+ 0.1<br>- 0.0 | T <sup>1</sup> Metric Thread | KK Max. |
|------------|------------|---------------------|-----------------------|------------|------------|------------|-------------------------------|------------------------------|---------|
| 10SL       | 27.6       | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                           | M4                           | 15.9    |
| 14S        | 27.6       | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                           | M4                           | 19.2    |
| 16S        | 27.6       | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                           | M4                           | 22.4    |
| 16         | 33.8       | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                           | M4                           | 22.4    |
| 18         | 33.8       | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                           | M4                           | 25.6    |
| 20         | 33.8       | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                           | M4                           | 29.0    |
| 22         | 33.8       | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                           | M4                           | 32.2    |
| 24         | 33.8       | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                           | M4                           | 35.3    |
| 28         | 35.7       | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                           | M5                           | 41.4    |
| 32         | 37.3       | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                           | M5                           | 47.8    |
| 36         | 37.3       | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                           | M5                           | 52.4    |

All dimensions for reference only.

# ACA 3103F-B

## wall mounting receptacle for rear panel mounting

- Receptacle with backshell and rear accessory threads
- Includes wire sealing grommet and grommet sleeve for individual wires
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | B Thread Class 2A | F Min. | K Min. | L Max. | M + .016 - .000 | N + .000 - .006 | P ± .008 | R ± .004 | S ± .012 | T Thru Hole + .004 - .000 |
|------------|-------------------|--------|--------|--------|-----------------|-----------------|----------|----------|----------|---------------------------|
| 10SL       | .6250-24 UNEF     | .409   | .374   | 1.969  | .717            | .717            | .110     | .717     | 1.000    | .126                      |
| 14S        | .7500-20 UNEF     | .520   | .374   | 1.969  | .717            | .969            | .126     | .906     | 1.181    | .126                      |
| 16S        | .8750-20 UNEF     | .638   | .374   | 1.969  | .717            | 1.079           | .126     | .969     | 1.280    | .126                      |
| 16         | .8750-20 UNEF     | .638   | .374   | 2.362  | .846            | 1.079           | .126     | .969     | 1.280    | .126                      |
| 18         | 1.0000-20 UNEF    | .756   | .374   | 2.362  | .907            | 1.213           | .157     | 1.063    | 1.378    | .126                      |
| 20         | 1.1875-18 UNEF    | .867   | .374   | 2.362  | .907            | 1.346           | .157     | 1.157    | 1.496    | .126                      |
| 22         | 1.1875-18 UNEF    | .965   | .374   | 2.362  | .907            | 1.472           | .157     | 1.252    | 1.614    | .126                      |
| 24         | 1.4375-18 UNEF    | 1.094  | .374   | 2.560  | .907            | 1.610           | .157     | 1.374    | 1.752    | .146                      |
| 28         | 1.4375-18 UNEF    | 1.228  | .374   | 2.560  | .947            | 1.839           | .157     | 1.563    | 2.000    | .146                      |
| 32         | 1.7500-18 UNS     | 1.488  | .433   | 2.560  | .947            | 2.102           | .157     | 1.752    | 2.244    | .169                      |
| 36         | 2.0000-18 UNS     | 1.780  | .465   | 3.150  | .947            | 2.346           | .157     | 1.937    | 2.500    | .169                      |

Millimeters

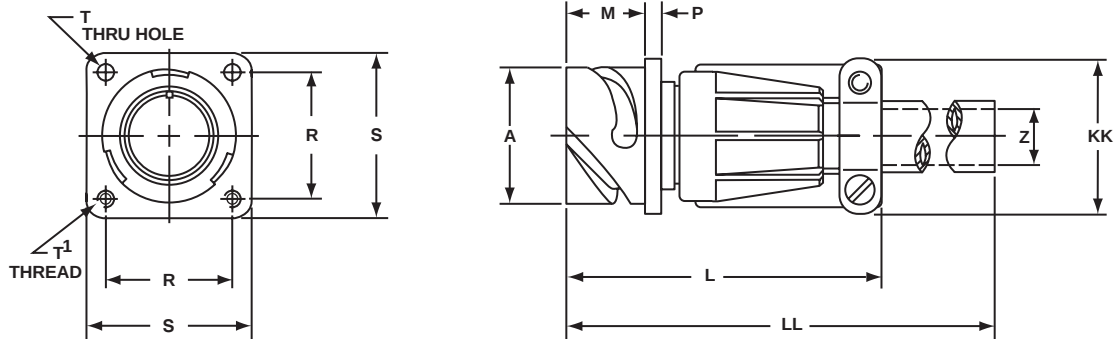
| Shell Size | F Min. | K Min. | L Max. | M + 0.4 - 0.0 | N + 0.00 - 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 - 0.0 | T <sup>1</sup> Metric Thread |
|------------|--------|--------|--------|---------------|-----------------|---------|---------|---------|-------------------------|------------------------------|
| 10SL       | 10.4   | 9.5    | 50     | 18.2          | 18.2            | 2.8     | 18.2    | 25.4    | 3.2                     | M4                           |
| 14S        | 13.2   | 9.5    | 50     | 18.2          | 24.6            | 3.2     | 23.0    | 30.0    | 3.2                     | M4                           |
| 16S        | 16.2   | 9.5    | 50     | 18.2          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           |
| 16         | 16.2   | 9.5    | 60     | 21.5          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           |
| 18         | 19.2   | 9.5    | 60     | 23.0          | 30.8            | 4.0     | 27.0    | 35.0    | 3.2                     | M4                           |
| 20         | 22.0   | 9.5    | 60     | 23.0          | 34.2            | 4.0     | 29.4    | 38.0    | 3.2                     | M4                           |
| 22         | 24.5   | 9.5    | 60     | 23.0          | 37.4            | 4.0     | 31.8    | 41.0    | 3.2                     | M4                           |
| 24         | 27.8   | 9.5    | 65     | 23.0          | 40.9            | 4.0     | 34.9    | 44.5    | 3.7                     | M4                           |
| 28         | 31.2   | 9.5    | 65     | 24.1          | 46.7            | 4.0     | 39.7    | 50.8    | 3.7                     | M5                           |
| 32         | 37.8   | 11.0   | 65     | 24.1          | 53.4            | 4.0     | 44.5    | 57.0    | 4.3                     | M5                           |
| 36         | 45.2   | 11.8   | 80     | 24.1          | 59.6            | 4.0     | 49.2    | 63.5    | 4.3                     | M5                           |

All dimensions for reference only.

# ACA 3103E-B

## wall mount receptacle for rear panel mounting

- Receptacle with cable clamp and telescopic bushing
- Includes grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | L Max. | M + .016 - .000 | N + .000 - .006 | P ± .008 | R ± .004 | S ± .012 | T Thru Hole + .004 - .000 | Z Max. | KK Max. | LL Max. |
|------------|--------|-----------------|-----------------|----------|----------|----------|---------------------------|--------|---------|---------|
| 10SL       | 2.362  | .717            | .717            | .110     | .717     | 1.000    | .126                      | .256   | .894    | 4.720   |
| 14S        | 2.440  | .717            | .969            | .126     | .906     | 1.181    | .126                      | .354   | 1.083   | 4.720   |
| 16S        | 2.756  | .717            | 1.079           | .126     | .969     | 1.280    | .126                      | .433   | 1.181   | 4.720   |
| 16         | 2.756  | .846            | 1.079           | .126     | .969     | 1.280    | .126                      | .433   | 1.181   | 4.921   |
| 18         | 3.031  | .907            | 1.213           | .157     | 1.063    | 1.378    | .126                      | .559   | 1.300   | 4.921   |
| 20         | 3.031  | .907            | 1.346           | .157     | 1.157    | 1.496    | .126                      | .622   | 1.476   | 4.921   |
| 22         | 3.031  | .907            | 1.472           | .157     | 1.252    | 1.614    | .126                      | .622   | 1.476   | 4.921   |
| 24         | 3.346  | .907            | 1.610           | .157     | 1.374    | 1.752    | .146                      | .843   | 1.705   | 4.921   |
| 28         | 3.346  | .947            | 1.839           | .157     | 1.563    | 2.000    | .146                      | .843   | 1.705   | 4.921   |
| 32         | 3.346  | .947            | 2.102           | .157     | 1.752    | 2.244    | .169                      | 1.051  | 2.035   | 4.921   |
| 36         | 4.134  | .947            | 2.346           | .157     | 1.937    | 2.500    | .169                      | 1.248  | 2.283   | 5.315   |

Millimeters

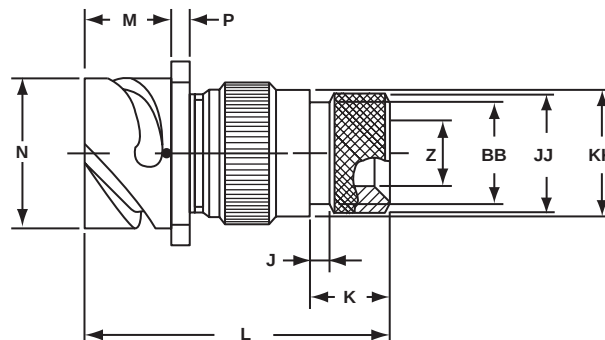
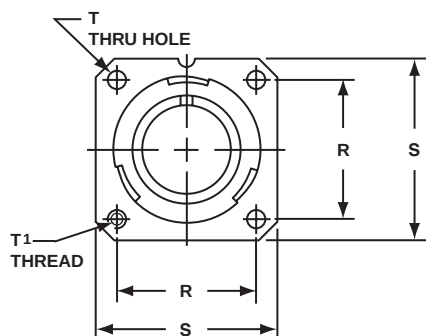
| Shell Size | L Max. | M + 0.4 - 0.0 | N + 0.00 - 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 - 0.0 | T <sup>1</sup> Metric Thread | Z Max. | KK Max. | LL Max. |
|------------|--------|---------------|-----------------|---------|---------|---------|-------------------------|------------------------------|--------|---------|---------|
| 10SL       | 60     | 18.2          | 18.2            | 2.8     | 18.2    | 25.4    | 3.2                     | M4                           | 6.5    | 22.7    | 120     |
| 14S        | 62     | 18.2          | 24.6            | 3.2     | 23.0    | 30.0    | 3.2                     | M4                           | 9.0    | 27.5    | 120     |
| 16S        | 70     | 18.2          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           | 11.0   | 30.0    | 120     |
| 16         | 70     | 21.5          | 27.4            | 3.2     | 24.6    | 32.5    | 3.2                     | M4                           | 11.0   | 30.0    | 125     |
| 18         | 77     | 23.0          | 30.8            | 4.0     | 27.0    | 35.0    | 3.2                     | M4                           | 14.2   | 33.0    | 125     |
| 20         | 77     | 23.0          | 34.2            | 4.0     | 29.4    | 38.0    | 3.2                     | M4                           | 15.8   | 37.5    | 125     |
| 22         | 77     | 23.0          | 37.4            | 4.0     | 31.8    | 41.0    | 3.2                     | M4                           | 15.8   | 37.5    | 125     |
| 24         | 85     | 23.0          | 40.9            | 4.0     | 34.9    | 44.5    | 3.7                     | M4                           | 21.4   | 43.3    | 125     |
| 28         | 85     | 24.1          | 46.7            | 4.0     | 39.7    | 50.8    | 3.7                     | M5                           | 21.4   | 43.3    | 125     |
| 32         | 85     | 24.1          | 53.4            | 4.0     | 44.5    | 57.0    | 4.3                     | M5                           | 26.7   | 51.7    | 125     |
| 36         | 105    | 24.1          | 59.6            | 4.0     | 49.2    | 63.5    | 4.3                     | M5                           | 31.7   | 58.0    | 135     |

All dimensions for reference only.

# ACA 3103G-B

## wall mount receptacle for rear panel mounting

- Receptacle with endbell for heat shrink termination
- Does not include grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>Thru Hole<br>+ .004<br>- .000 | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|------------------------------------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                               | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                               | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                               | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                               | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                               | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                               | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                               | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                               | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                               | 1.062     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                               | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                               | 1.516     | 1.717      | 1.882        | 2.157        |

Millimeters

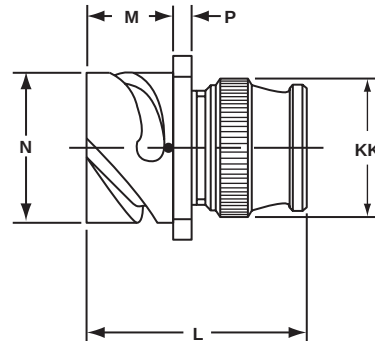
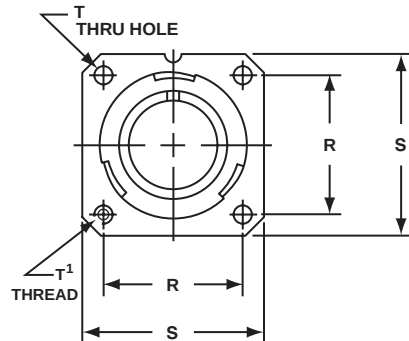
| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>Thru Hole<br>+ 0.1<br>- 0.0 | T <sup>1</sup><br>Metric<br>Thread | Z<br>Min. | BB<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|------------|------------|----------------------------------|------------------------------------|-----------|------------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                              | M4                                 | 7.7       | 13.3       | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                              | M4                                 | 10.6      | 17.0       | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 13.5      | 21.9       | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 13.5      | 21.9       | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                              | M4                                 | 14.6      | 21.9       | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                              | M4                                 | 18.7      | 26.2       | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                              | M4                                 | 20.8      | 26.2       | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                              | M4                                 | 24.6      | 34.5       | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                              | M5                                 | 27.0      | 34.5       | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                              | M5                                 | 33.3      | 43.6       | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                              | M5                                 | 38.5      | 43.6       | 47.8        | 54.8        |

All dimensions for reference only.

# ACA 3103R-B

## wall mount receptacle for rear panel mounting

- Receptacle with short endbell for individual wire sealing
- Includes grommet and grommet sleeve
- Four through mounting holes or optional metric threaded holes



Inches

| Shell Size | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>Thru Hole<br>+ .004<br>- .000 | KK<br>Max. |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|------------------------------------|------------|
| 10SL       | 1.890     | .717                  | .717                  | .110        | .717        | 1.000       | .126                               | .787       |
| 14S        | 1.890     | .717                  | .969                  | .126        | .906        | 1.181       | .126                               | .945       |
| 16S        | 1.890     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                               | 1.024      |
| 16         | 2.205     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                               | 1.024      |
| 18         | 2.244     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                               | 1.161      |
| 20         | 2.244     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                               | 1.299      |
| 22         | 2.244     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                               | 1.417      |
| 24         | 2.244     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                               | 1.575      |
| 28         | 2.244     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                               | 1.811      |
| 32         | 2.362     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                               | 2.028      |
| 36         | 2.362     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                               | 2.283      |

Millimeters

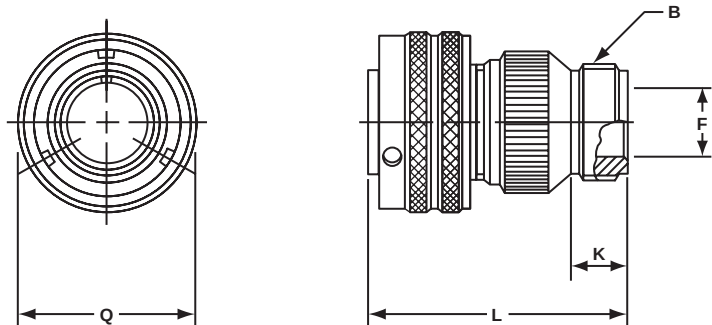
| Shell Size | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>Thru Hole<br>+ 0.1<br>- 0.0 | T <sup>1</sup><br>Metric<br>Thread | KK<br>Max. |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|----------------------------------|------------------------------------|------------|
| 10SL       | 48.0      | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                              | M4                                 | 20.0       |
| 14S        | 48.0      | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                              | M4                                 | 24.0       |
| 16S        | 48.0      | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 26.0       |
| 16         | 56.0      | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                              | M4                                 | 26.0       |
| 18         | 57.0      | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                              | M4                                 | 29.5       |
| 20         | 57.0      | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                              | M4                                 | 33.0       |
| 22         | 57.0      | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                              | M4                                 | 36.0       |
| 24         | 57.0      | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                              | M4                                 | 40.0       |
| 28         | 57.0      | 24.1                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                              | M5                                 | 46.0       |
| 32         | 60.0      | 24.1                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                              | M5                                 | 51.5       |
| 36         | 60.0      | 24.1                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                              | M5                                 | 58.0       |

All dimensions for reference only.

# ACA 3106F-B

## straight plug

- Plug with backshell and rear accessory threads
- Includes grommet and grommet sleeve



Inches

| Shell Size | B Thread Class 2A | F Min. | K Min. | L Max. | Q Max. |
|------------|-------------------|--------|--------|--------|--------|
| 10SL       | .6250-24UNEF      | .409   | .374   | 1.969  | .898   |
| 14S        | .7500-20UNEF      | .520   | .374   | 1.969  | 1.150  |
| 16S        | .8750-20UNEF      | .638   | .374   | 1.969  | 1.260  |
| 16         | .8750-20UNEF      | .638   | .374   | 2.362  | 1.260  |
| 18         | 1.0000-20UNEF     | .756   | .374   | 2.362  | 1.437  |
| 20         | 1.1875-18UNEF     | .867   | .374   | 2.362  | 1.571  |
| 22         | 1.1875-18UNEF     | .965   | .374   | 2.362  | 1.697  |
| 24         | 1.4375-18UNEF     | 1.094  | .374   | 2.560  | 1.835  |
| 28         | 1.4375-18UNEF     | 1.228  | .374   | 2.560  | 2.102  |
| 32         | 1.7500-18UNS      | 1.488  | .433   | 2.560  | 2.366  |
| 36         | 2.0000-18UNS      | 1.780  | .465   | 3.150  | 2.610  |

Millimeters

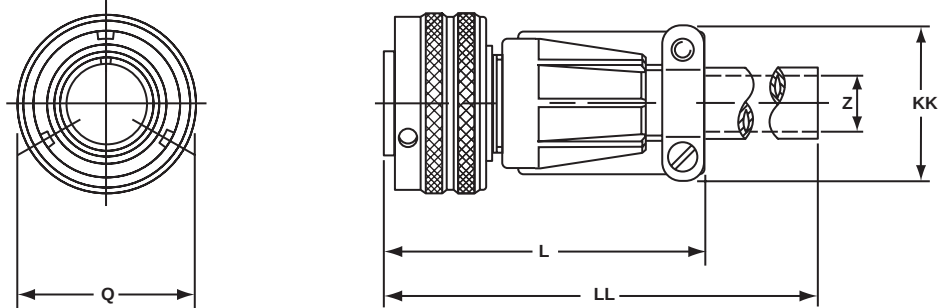
| Shell Size | F Min. | K Min. | L Max. | Q Max. |
|------------|--------|--------|--------|--------|
| 10SL       | 10.4   | 9.5    | 50     | 22.8   |
| 14S        | 13.2   | 9.5    | 50     | 29.2   |
| 16S        | 16.2   | 9.5    | 50     | 32.0   |
| 16         | 16.2   | 9.5    | 60     | 32.0   |
| 18         | 19.2   | 9.5    | 60     | 36.5   |
| 20         | 22.0   | 9.5    | 60     | 39.9   |
| 22         | 24.5   | 9.5    | 60     | 43.1   |
| 24         | 27.8   | 9.5    | 65     | 46.6   |
| 28         | 31.2   | 9.5    | 65     | 53.4   |
| 32         | 37.8   | 11.0   | 65     | 60.1   |
| 36         | 45.2   | 11.8   | 80     | 66.3   |

All dimensions for reference only.

# ACA 3106E-B

## straight plug

- Plug with cable clamp and telescopic bushing
- Includes grommet and grommet sleeve



Inches

| Shell Size | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|---------|---------|
| 10SL       | 2.165  | .898   | .256   | .894    | 4.528   |
| 14S        | 2.362  | 1.150  | .354   | 1.083   | 4.528   |
| 16S        | 2.362  | 1.260  | .433   | 1.181   | 4.528   |
| 16         | 2.756  | 1.260  | .433   | 1.181   | 4.724   |
| 18         | 2.756  | 1.437  | .559   | 1.268   | 4.724   |
| 20         | 2.953  | 1.571  | .622   | 1.476   | 4.724   |
| 22         | 2.953  | 1.697  | .622   | 1.476   | 4.724   |
| 24         | 3.543  | 1.835  | .843   | 1.705   | 4.724   |
| 28         | 3.543  | 2.102  | .843   | 1.705   | 4.724   |
| 32         | 3.543  | 2.366  | 1.051  | 2.035   | 4.724   |
| 36         | 3.937  | 2.610  | 1.248  | 2.283   | 5.118   |

Millimeters

| Shell Size | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|---------|---------|
| 10SL       | 55     | 22.8   | 6.5    | 22.7    | 115     |
| 14S        | 60     | 29.2   | 9.0    | 27.5    | 115     |
| 16S        | 60     | 32.0   | 11.0   | 30.0    | 115     |
| 16         | 70     | 32.0   | 11.0   | 30.0    | 120     |
| 18         | 70     | 36.5   | 14.2   | 32.2    | 120     |
| 20         | 75     | 39.9   | 15.8   | 37.5    | 120     |
| 22         | 75     | 43.1   | 15.8   | 37.5    | 120     |
| 24         | 90     | 46.6   | 21.4   | 43.3    | 120     |
| 28         | 90     | 53.4   | 21.4   | 43.3    | 120     |
| 32         | 90     | 60.1   | 26.7   | 51.7    | 120     |
| 36         | 100    | 66.3   | 31.7   | 58.0    | 130     |

All dimensions for reference only.

# ACA 3106G-B

## straight plug

- Plug with backshell for heat shrink termination
- Does not include grommet and grommet sleeve



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | Q<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .898      | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | 1.150     | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | 1.260     | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | 1.260     | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | 1.437     | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | 1.571     | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | 1.697     | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | 1.835     | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | 2.102     | 1.063     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | 2.366     | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | 2.610     | 1.516     | 1.717      | 1.882        | 2.157        |

Millimeters

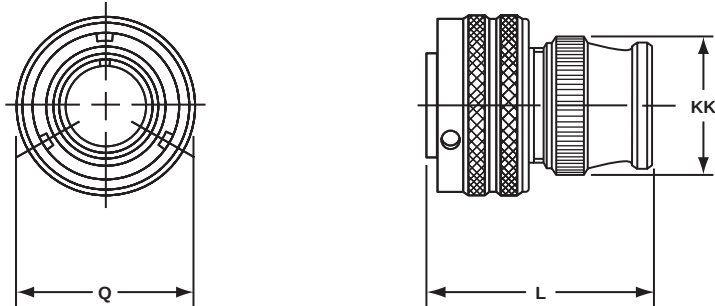
| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | Q<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|-----------|-----------|------------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 22.8      | 7.7       | 13.3       | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 29.2      | 10.6      | 17.0       | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 32.0      | 13.5      | 21.9       | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 32.0      | 13.5      | 21.9       | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 36.5      | 14.6      | 21.9       | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 39.9      | 18.7      | 26.2       | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 43.1      | 20.8      | 26.2       | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 46.6      | 24.6      | 34.5       | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 53.4      | 27.0      | 34.5       | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 60.1      | 33.3      | 43.6       | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 66.3      | 38.5      | 43.6       | 47.8        | 54.8        |

All dimensions for reference only.

# ACA 3106R-B

## straight plug

- Plug with short endbell for individual wire sealing
- Includes grommet and grommet sleeve



Inches

| Shell Size | L Max. | Q Max. | KK Max. |
|------------|--------|--------|---------|
| 10SL       | 1.417  | .898   | .787    |
| 14S        | 1.437  | 1.150  | .945    |
| 16S        | 1.437  | 1.260  | 1.024   |
| 16         | 1.929  | 1.260  | 1.024   |
| 18         | 1.929  | 1.437  | 1.161   |
| 20         | 1.969  | 1.571  | 1.299   |
| 22         | 1.969  | 1.697  | 1.417   |
| 24         | 2.008  | 1.835  | 1.543   |
| 28         | 2.008  | 2.102  | 1.811   |
| 32         | 2.087  | 2.366  | 2.028   |
| 36         | 2.106  | 2.610  | 2.283   |

Millimeters

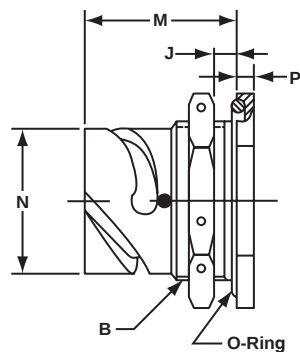
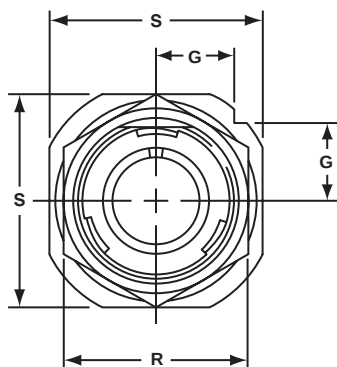
| Shell Size | L Max. | Q Max. | KK Max. |
|------------|--------|--------|---------|
| 10SL       | 36.0   | 22.8   | 20.0    |
| 14S        | 36.5   | 29.2   | 24.0    |
| 16S        | 36.5   | 32.0   | 26.0    |
| 16         | 49.0   | 32.0   | 26.0    |
| 18         | 49.0   | 36.5   | 29.5    |
| 20         | 50.0   | 39.9   | 33.0    |
| 22         | 50.0   | 43.1   | 36.0    |
| 24         | 51.0   | 46.6   | 40.0    |
| 28         | 51.0   | 53.4   | 46.0    |
| 32         | 53.0   | 60.1   | 51.5    |
| 36         | 53.5   | 66.3   | 58.0    |

All dimensions for reference only.

# ACA 3107A-B

## jam nut receptacle

- For rear panel single hole mounting
- Panel seal O-ring included
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | G<br>± .012 | J<br>Wall Thickness |      | M<br>± .012 | N<br>+ .000<br>- .006 | P<br>± .007 | R<br>± .016 | S<br>± .012 |
|------------|-------------------------|-------------|---------------------|------|-------------|-----------------------|-------------|-------------|-------------|
|            |                         |             | Min.                | Max. |             |                       |             |             |             |
| 10SL       | .8750-20 UNEF           | .441        | .094                | .205 | .965        | .717                  | .157        | 1.062       | 1.252       |
| 14S        | 1.1250-18 UNEF          | .575        | .094                | .295 | 1.055       | .969                  | .189        | 1.312       | 1.626       |
| 16S        | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.055       | 1.079                 | .189        | 1.500       | 1.748       |
| 16         | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.264       | 1.079                 | .189        | 1.500       | 1.748       |
| 18         | 1.3750-18 UNEF          | .661        | .094                | .354 | 1.327       | 1.213                 | .189        | 1.562       | 1.875       |
| 20         | 1.5000-18 UNEF          | .709        | .094                | .358 | 1.327       | 1.346                 | .189        | 1.750       | 2.000       |
| 22         | 1.6250-18 UNEF          | .795        | .094                | .358 | 1.327       | 1.472                 | .189        | 2.000       | 2.134       |
| 24         | 1.7500-18 UNEF          | .795        | .094                | .358 | 1.327       | 1.610                 | .189        | 2.000       | 2.252       |
| 28         | 2.0000-18 UNS           | .886        | .094                | .394 | 1.386       | 1.839                 | .220        | 2.188       | 2.500       |
| 32         | 2.2500-16 UN            | .972        | .094                | .394 | 1.386       | 2.102                 | .220        | 2.438       | 2.748       |
| 36         | 2.5000-16 UN            | 1.059       | .094                | .327 | 1.386       | 2.346                 | .220        | 2.812       | 3.000       |

Millimeters

| Shell Size | G<br>± 0.3 | J<br>Wall Thickness |      | M<br>± 0.3 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.4 | S<br>± 0.3 |
|------------|------------|---------------------|------|------------|-----------------------|------------|------------|------------|
|            |            | Min.                | Max. |            |                       |            |            |            |
| 10SL       | 11.2       | 2.4                 | 5.2  | 24.5       | 18.2                  | 4.0        | 27         | 31.8       |
| 14S        | 14.6       | 2.4                 | 7.5  | 26.8       | 24.6                  | 4.8        | 33         | 41.3       |
| 16S        | 15.7       | 2.4                 | 7.5  | 26.8       | 27.4                  | 4.8        | 38         | 44.4       |
| 16         | 15.7       | 2.4                 | 7.5  | 32.1       | 27.4                  | 4.8        | 38         | 44.4       |
| 18         | 16.8       | 2.4                 | 9.0  | 33.7       | 30.8                  | 4.8        | 40         | 47.6       |
| 20         | 18.0       | 2.4                 | 9.1  | 33.7       | 34.2                  | 4.8        | 44         | 50.8       |
| 22         | 20.2       | 2.4                 | 9.1  | 33.7       | 37.4                  | 4.8        | 51         | 54.2       |
| 24         | 20.2       | 2.4                 | 9.1  | 33.7       | 40.9                  | 4.8        | 51         | 57.2       |
| 28         | 22.5       | 2.4                 | 10.0 | 35.2       | 46.7                  | 5.6        | 56         | 63.5       |
| 32         | 24.7       | 2.4                 | 10.0 | 35.2       | 53.4                  | 5.6        | 62         | 69.8       |
| 36         | 26.9       | 2.4                 | 8.3  | 35.2       | 59.6                  | 5.6        | 71         | 76.2       |

All dimensions for reference only.

# ACA 3108F-B

## 90° angle plug

- 90° plug for angled attachment to panels with rear accessory threads
- Includes grommet and grommet sleeve



Inches

| Shell Size | B Thread Class 2A | F Max. | J Min. | K Max. | L Max. | Q Max. |
|------------|-------------------|--------|--------|--------|--------|--------|
| 10SL       | .6250-24UNEF      | .337   | .370   | 1.181  | 1.772  | .898   |
| 14S        | .7500-20UNEF      | .462   | .370   | 1.181  | 1.850  | 1.150  |
| 16S        | .8750-20UNEF      | .587   | .370   | 1.181  | 1.890  | 1.299  |
| 16         | .8750-20UNEF      | .587   | .370   | 1.181  | 2.244  | 1.299  |
| 18         | 1.0000-20UNEF     | .685   | .370   | 1.378  | 2.283  | 1.437  |
| 20         | 1.1875-18UNEF     | .810   | .370   | 1.378  | 2.402  | 1.571  |
| 22         | 1.1875-18UNEF     | .915   | .370   | 1.378  | 2.402  | 1.697  |
| 24         | 1.4375-18UNEF     | 1.025  | .370   | 1.575  | 2.598  | 1.835  |
| 28         | 1.4375-18UNEF     | 1.139  | .370   | 1.575  | 2.598  | 2.102  |
| 32         | 1.7500-18UNS      | 1.447  | .433   | 1.772  | 2.835  | 2.366  |
| 36         | 2.0000-18UNS      | 1.687  | .496   | 1.969  | 2.953  | 2.610  |

Millimeters

| Shell Size | F Max. | J Min. | K Max. | L Max. | Q Max. |
|------------|--------|--------|--------|--------|--------|
| 10SL       | 8.5    | 9.4    | 30     | 45     | 22.8   |
| 14S        | 11.7   | 9.4    | 30     | 47     | 29.2   |
| 16S        | 14.9   | 9.4    | 30     | 48     | 33.0   |
| 16         | 14.9   | 9.4    | 30     | 57     | 33.0   |
| 18         | 17.4   | 9.4    | 35     | 58     | 36.5   |
| 20         | 20.5   | 9.4    | 35     | 61     | 39.9   |
| 22         | 23.2   | 9.4    | 35     | 61     | 43.1   |
| 24         | 26.0   | 9.4    | 40     | 66     | 46.6   |
| 28         | 28.9   | 9.4    | 40     | 66     | 53.4   |
| 32         | 36.7   | 11.0   | 45     | 72     | 60.1   |
| 36         | 42.8   | 12.6   | 50     | 75     | 66.3   |

All dimensions for reference only.

# ACA 3108E-B

## 90° angle plug

- 90° plug for angled attachment to panels with cable clamp and telescopic bushing
- Includes grommet and grommet sleeve



Inches

| Shell Size | K Max. | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|--------|---------|---------|
| 10SL       | 1.654  | 1.772  | .898   | .220   | .894    | 3.937   |
| 14S        | 1.654  | 1.850  | 1.150  | .312   | 1.083   | 3.937   |
| 16S        | 1.772  | 1.890  | 1.299  | .437   | 1.181   | 3.937   |
| 16         | 1.772  | 2.244  | 1.299  | .437   | 1.181   | 3.937   |
| 18         | 2.087  | 2.283  | 1.437  | .562   | 1.299   | 3.937   |
| 20         | 2.087  | 2.402  | 1.571  | .625   | 1.476   | 3.937   |
| 22         | 2.087  | 2.402  | 1.697  | .625   | 1.476   | 3.937   |
| 24         | 2.283  | 2.598  | 1.835  | .750   | 1.705   | 3.937   |
| 28         | 2.283  | 2.598  | 2.102  | .750   | 1.705   | 3.937   |
| 32         | 2.598  | 2.835  | 2.366  | .937   | 2.061   | 4.331   |
| 36         | 2.717  | 2.953  | 2.610  | 1.250  | 2.283   | 4.331   |

Millimeters

| Shell Size | K Max. | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|--------|---------|---------|
| 10SL       | 42     | 45     | 22.8   | 5.58   | 22.7    | 100     |
| 14S        | 42     | 47     | 29.2   | 7.92   | 27.5    | 100     |
| 16S        | 45     | 48     | 33.0   | 11.09  | 30.0    | 100     |
| 16         | 45     | 57     | 33.0   | 11.09  | 30.0    | 100     |
| 18         | 53     | 58     | 36.5   | 14.27  | 33.0    | 100     |
| 20         | 53     | 61     | 39.9   | 15.87  | 37.5    | 100     |
| 22         | 53     | 61     | 43.1   | 15.87  | 37.5    | 100     |
| 24         | 58     | 66     | 46.6   | 19.05  | 43.3    | 100     |
| 28         | 58     | 66     | 53.4   | 19.05  | 43.3    | 100     |
| 32         | 66     | 72     | 60.1   | 23.79  | 51.7    | 110     |
| 36         | 69     | 75     | 66.3   | 31.75  | 58.0    | 110     |

All dimensions for reference only.

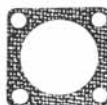
# ACA-B Connectors – accessories

## 10-40450, 10-36675, 10-580649 sealing gaskets



### PLAIN FLAT GASKET

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.



### SHIELDING GASKET

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.



### LOW TEMPERATURE GASKET

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°F this gasket retains its resiliency and will seal a pressure differential of 30 psi.

Additional versions of gaskets are available including low smoke zero halogen, and also high temperature and conductive types. Consult Amphenol Industrial Operations, Sidney NY, for further information.

| Installation Dimensions |             |                                            |                                          |                       |             |
|-------------------------|-------------|--------------------------------------------|------------------------------------------|-----------------------|-------------|
| MS Shell Size           | A<br>± .010 | Front Panel Versions B<br>+ .016<br>- .000 | Rear Panel Version B<br>+ .016<br>- .000 | C<br>+ .016<br>- .000 | D<br>± .010 |
| 10SL                    | .719        | .625                                       | .724                                     | 1.000                 | .172        |
| 14S                     | .906        | .875                                       | .976                                     | 1.188                 | .172        |
| 16S                     | .969        | 1.000                                      | 1.087                                    | 1.281                 | .172        |
| 16                      | .969        | 1.000                                      | 1.087                                    | 1.281                 | .172        |
| 18                      | 1.063       | 1.125                                      | 1.220                                    | 1.375                 | .203        |
| 20                      | 1.156       | 1.250                                      | 1.354                                    | 1.500                 | .203        |
| 22                      | 1.250       | 1.375                                      | 1.480                                    | 1.625                 | .203        |
| 24                      | 1.375       | 1.500                                      | 1.618                                    | 1.750                 | .203        |
| 28                      | 1.563       | 1.750                                      | 1.846                                    | 2.000                 | .203        |
| 32                      | 1.750       | 2.000                                      | 2.110                                    | 2.250                 | .219        |
| 36                      | 1.938       | 2.188                                      | 2.354                                    | 2.500                 | .219        |

| Order Data for Front Panel Mount Gaskets |                               |                                     |                                  |
|------------------------------------------|-------------------------------|-------------------------------------|----------------------------------|
| Front Panel Plain Version                | Front Panel Shielding Version | Front Panel Low Temperature Version | Front Panel Low Smoke ZH Version |
| 10-40450-10                              | 10-40450-10S                  | 10-36675-10                         | LS-40450-10                      |
| 10-40450-14                              | 10-40450-14S                  | 10-36675-14                         | LS-40450-14                      |
| 10-40450-16                              | 10-40450-16S                  | 10-36675-16                         | LS-40450-16                      |
| 10-40450-18                              | 10-40450-18S                  | 10-36675-18                         | LS-40450-18                      |
| 10-40450-20                              | 10-40450-20S                  | 10-36675-20                         | LS-40450-20                      |
| 10-40450-22                              | 10-40450-22S                  | 10-36675-22                         | LS-40450-22                      |
| 10-40450-24                              | 10-40450-24S                  | 10-36675-24                         | LS-40450-24                      |
| 10-40450-28                              | 10-40450-28S                  | 10-36675-28                         | LS-40450-28                      |
| 10-40450-32                              | 10-40450-32S                  | 10-36675-32                         | LS-40450-32                      |
| 10-40450-36                              | 10-40450-36S                  | 10-36675-36                         | LS-40450-36                      |
| 10-40450-40                              | 10-40450-40S                  | 10-36675-40                         | LS-40450-40                      |

| Installation Dimensions |            |                                          |                                        |                     |            |
|-------------------------|------------|------------------------------------------|----------------------------------------|---------------------|------------|
| MS Shell Size           | A<br>± 0.2 | Front Panel Versions B<br>+ 0.4<br>- 0.0 | Rear Panel Version B<br>+ 0.4<br>- 0.0 | C<br>+ 0.4<br>- 0.0 | D<br>± 0.2 |
| 10SL                    | 18.2       | 15.9                                     | 18.4                                   | 25.4                | 4.36       |
| 14S                     | 23.0       | 22.2                                     | 24.8                                   | 30.2                | 4.36       |
| 16S                     | 24.6       | 25.4                                     | 27.6                                   | 32.5                | 4.36       |
| 16                      | 24.6       | 25.4                                     | 27.6                                   | 32.5                | 4.36       |
| 18                      | 27.0       | 28.57                                    | 31.0                                   | 35.0                | 5.15       |
| 20                      | 29.4       | 31.75                                    | 34.4                                   | 38.1                | 5.15       |
| 22                      | 31.8       | 34.9                                     | 37.6                                   | 41.2                | 5.15       |
| 24                      | 34.9       | 38.1                                     | 41.1                                   | 44.5                | 5.15       |
| 28                      | 39.7       | 44.45                                    | 46.9                                   | 50.8                | 5.15       |
| 32                      | 44.5       | 50.8                                     | 53.6                                   | 57.2                | 5.56       |
| 36                      | 49.2       | 55.57                                    | 59.8                                   | 63.5                | 5.56       |

| Order Data for Rear Panel Mount Gaskets |                                 |
|-----------------------------------------|---------------------------------|
| Rear Panel Plain Version                | Rear Panel Low Smoke ZH Version |
| 10-580649-11                            | LS-580649-11                    |
| 10-580649-14                            | LS-580649-14                    |
| 10-580649-16                            | LS-580649-16                    |
| 10-580649-18                            | LS-580649-18                    |
| 10-580649-20                            | LS-580649-20                    |
| 10-580649-22                            | LS-580649-22                    |
| 10-580649-24                            | LS-580649-24                    |
| 10-580649-28                            | LS-580649-28                    |
| 10-580649-32                            | LS-580649-32                    |
| 10-580649-36                            | LS-580649-36                    |
| 10-580649-40                            | LS-580649-40                    |

# ACA-B Connectors – accessories

## receptacle protection caps

- Protective metal caps which seal the front of receptacles
- Includes a chain for retention of the cap at the required location
- For all ACA( )-B receptacles



\* 10-580902-XXX

\* To complete order number, add shell size and suffix number. For example, shell size 11 with olive drab cadmium plate would be 10-580902-113.

Inches

| Shell Size | D<br>+ .020<br>- .000 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|-----------------------|-----------|-----------|---------------|
| 10SL       | .173                  | .700      | .905      | 5.000         |
| 14S        | .173                  | .700      | 1.181     | 5.000         |
| 16         | .173                  | .700      | 1.280     | 5.000         |
| 17         | .173                  | .900      | 1.280     | 5.000         |
| 18         | .173                  | .900      | 1.457     | 5.000         |
| 20         | .173                  | .900      | 1.594     | 5.000         |
| 22         | .173                  | .900      | 1.713     | 5.000         |
| 24         | .173                  | .900      | 1.850     | 5.000         |
| 28         | .220                  | .900      | 2.126     | 7.480         |
| 32         | .261                  | .900      | 2.382     | 7.480         |
| 36         | .261                  | .900      | 2.638     | 7.480         |

Millimeters

| Shell Size | D<br>+ 0.5<br>- 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 10SL       | 4.4                 | 17.8      | 23.0      | 127           |
| 14S        | 4.4                 | 17.8      | 30.0      | 127           |
| 16         | 4.4                 | 17.8      | 32.5      | 127           |
| 17         | 4.4                 | 22.9      | 32.5      | 127           |
| 18         | 4.4                 | 22.9      | 37.0      | 127           |
| 20         | 4.4                 | 22.9      | 40.5      | 127           |
| 22         | 4.4                 | 22.9      | 43.5      | 127           |
| 24         | 4.4                 | 22.9      | 47.0      | 127           |
| 28         | 5.6                 | 22.9      | 54.0      | 190           |
| 32         | 5.6                 | 22.9      | 60.5      | 190           |
| 36         | 5.6                 | 22.9      | 67.0      | 175           |

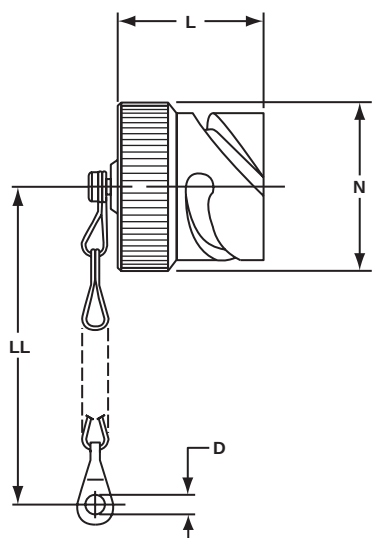
All dimensions for reference only.

| Finish                   | Suffix |
|--------------------------|--------|
| Olive drab cadmium plate | -XX3   |
| Electroless nickel       | -XXG   |
| Black zinc cobalt        | -XXY   |

# ACA-B Connectors – accessories

## plug protection caps

- Protective metal caps which seal the front of plugs
- Includes a chain for retention of the cap at the required location
- For all ACA( )-B plugs



\* 10-580903-XXX

\* To complete order number, add shell size and suffix number. For example, shell size 11 with olive drab cadmium plate would be 10-580903-113.

Inches

| Shell Size | D<br>+ .020<br>– .000 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|-----------------------|-----------|-----------|---------------|
| 10SL       | .157                  | .945      | .807      | 5.000         |
| 14S        | .157                  | .945      | 1.059     | 5.000         |
| 16         | .157                  | .945      | 1.169     | 5.000         |
| 17         | .157                  | .945      | 1.169     | 5.000         |
| 18         | .157                  | .945      | 1.303     | 5.000         |
| 20         | .189                  | 1.260     | 1.437     | 5.520         |
| 22         | .189                  | 1.260     | 1.563     | 5.520         |
| 24         | .189                  | 1.260     | 1.701     | 5.520         |
| 28         | .220                  | 1.260     | 1.929     | 7.480         |
| 32         | .261                  | 1.260     | 2.193     | 7.480         |
| 36         | .261                  | 1.260     | 2.437     | 7.480         |

Millimeters

| Shell Size | D<br>+ 0.5<br>– 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 10SL       | 4.0                 | 24        | 20.5      | 127           |
| 14S        | 4.0                 | 24        | 26.9      | 127           |
| 16         | 4.0                 | 24        | 29.7      | 127           |
| 17         | 4.0                 | 24        | 29.7      | 127           |
| 18         | 4.0                 | 24        | 33.1      | 127           |
| 20         | 4.8                 | 32        | 36.5      | 140           |
| 22         | 4.8                 | 32        | 39.7      | 140           |
| 24         | 4.8                 | 32        | 43.2      | 140           |
| 28         | 4.8                 | 32        | 49.0      | 190           |
| 32         | 5.6                 | 32        | 55.7      | 190           |
| 36         | 5.6                 | 32        | 61.9      | 190           |

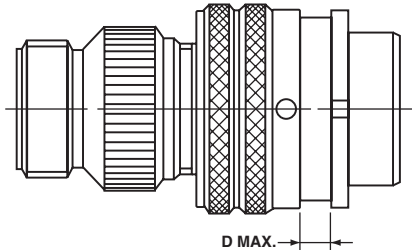
All dimensions for reference only.

| Finish                   | Suffix |
|--------------------------|--------|
| Olive drab cadmium plate | -XX3   |
| Electroless nickel       | -XXG   |
| Black zinc cobalt        | -XXY   |

# ACA-B Connectors – accessories

rear mounting data, panel cut-out dimensions, sealing plugs, sealing ranges

REAR MOUNTING DATA  
MAXIMUM PANEL THICKNESS



| Size | Dimension D |      |        |      |
|------|-------------|------|--------|------|
|      | GT00/020    |      | GT030  |      |
|      | Inches      | (mm) | Inches | (mm) |
| 10SL | .146        | 3.70 | .303   | 7.70 |
| 14S  | .146        | 3.70 | .303   | 7.70 |
| 16S  | .146        | 3.70 | .303   | 7.70 |
| 16   | .145        | 3.70 | .242   | 6.15 |
| 18   | .145        | 3.70 | .303   | 7.70 |
| 20   | .145        | 3.70 | .303   | 7.70 |
| 22   | .145        | 3.70 | .303   | 7.70 |
| 24   | .207        | 5.25 | .303   | 7.70 |
| 28   | .207        | 5.25 | .343   | 8.70 |
| 32   | .241        | 6.10 | .309   | 7.85 |
| 36   | .241        | 6.10 | .309   | 7.85 |

## SEALING PLUG 10-405996-XX

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



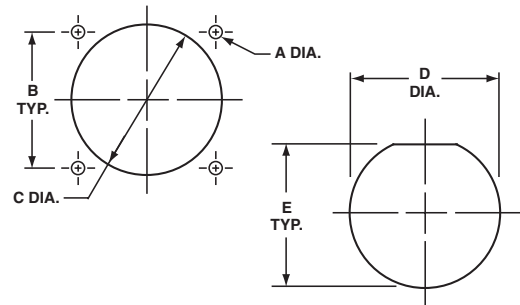
| Order No.    | Contact Size | Wire Size | Color Code | Inches       |         |         |
|--------------|--------------|-----------|------------|--------------|---------|---------|
|              |              |           |            | A Dia. ±.010 | B ±.005 | C ±.010 |
| 10-405996-16 | 16           | 20-16     | Blue       | .083         | .133    | .564**  |
| 10-405996-12 | 12           | 14-12     | Yellow     | .121         | .171    | .564**  |
| 10-405996-8  | 8            | 10-8      | Red        | .185         | .315    | .470    |
| 10-405996-4  | 4            | 4-6       | Blue       | .310         | .415    | .470    |
| 10-405996-0  | 0            | 0-2       | Yellow     | .440         | .605    | 1.000   |

| Millimeters  |         |         |
|--------------|---------|---------|
| A Dia. ± 0.2 | B ± 0.1 | C ± 0.2 |
| 2.1          | 3.4     | 14.3*** |
| 3.1          | 4.3     | 14.3*** |
| 4.7          | 8.0     | 11.9    |
| 7.9          | 10.5    | 11.9    |
| 11.2         | 15.4    | 25.4    |

\*\* ± .020 (in.)    \*\*\* ± 0.5 (mm)

GROMMET HOLE  
SEALING RANGES

| Hole Size | Sealing Range |             |
|-----------|---------------|-------------|
|           | (mm)          | Inches      |
| 16        | 1.62 – 3.3    | .064 – .130 |
| 12        | 2.89 – 4.31   | .114 – .170 |
| 8         | 4.16 – 6.47   | .164 – .255 |
| 4         | 6.9 – 9.3     | .272 – .370 |
| 0         | 10.5 – 13.97  | .415 – .550 |



PANEL CUT-OUT DIMENSIONS

| Shell Size | A Dia. Hole Size | Connector Styles |                         |                |             |             |
|------------|------------------|------------------|-------------------------|----------------|-------------|-------------|
|            |                  | 02, 020, 00, 030 | Front Mount 02, 00, 020 | Rear Mount 030 | Jam Nut 070 | Jam Nut 070 |
|            |                  | B ±.004          | C Dia.                  | C Dia.         | D Dia.      | E           |
| 10SL       | .126             | .717             | 11/16                   | 1 3/4          | 7/8         | .83         |
| 14S        | .126             | .906             | 13/16                   | 1              | 1 1/8       | 1.08        |
| 16S/16     | .126             | .969             | 15/16                   | 1 1/8          | 1 1/4       | 1.21        |
| 18         | .126             | 1.063            | 1 1/16                  | 1 1/4          | 1 3/8       | 1.32        |
| 20         | .126             | 1.157            | 1 3/16                  | 1 3/8          | 1 1/2       | 1.45        |
| 22         | .126             | 1.252            | 1 5/16                  | 1 1/2          | 1 5/8       | 1.57        |
| 24         | .146             | 1.374            | 1 7/16                  | 1 5/8          | 1 3/4       | 1.70        |
| 28         | .146             | 1.563            | 1 11/16                 | 1 7/8          | 2           | 1.95        |
| 32         | .169             | 1.752            | 1 15/16                 | 2 1/8          | 2 1/4       | 2.20        |
| 36         | .169             | 1.937            | 2 1/8                   | 2 3/8          | 2 1/2       | 2.45        |

All dimensions for reference only.

# ACA-B Connectors – accessories

## crimp contacts and application tools

Contacts for ACA-B connectors are 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

| CRIMP CONTACT DATA |               |                |               |                |              | APPLICATION TOOLS            |                         |                              |                         |                              |                         |                                       |
|--------------------|---------------|----------------|---------------|----------------|--------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|---------------------------------------|
| PART NUMBER        |               |                |               | MATING<br>SIZE | WIRE<br>WELL | Crimp Tools                  | Positioner/<br>Die Set  | Locator/<br>Color            |                         |                              |                         |                                       |
| PIN CONTACT        |               | SOCKET CONTACT |               |                |              |                              |                         |                              |                         |                              |                         |                                       |
| SILVER             | GOLD("D")     | SILVER         | GOLD("D")     |                |              |                              |                         |                              |                         |                              |                         |                                       |
| 10-40553           | 10-597160-15D | 10-597109-161  | 10-597109-16D | 16S            | 16-18-20     | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent | Red                          |                         |                              |                         |                                       |
| 10-606014-40       | 10-597160-40D | 10-597109-401  | 10-597109-40D |                | 12-14        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-221      | 10-597160-19D | 10-597109-191  | 10-597109-19D |                | 14-16        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-291      | 10-597160-34D | 10-597109-341  | 10-597109-34D |                | 20-22        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-46       | 10-597160-46D | 10-597109-461  | 10-597109-46D |                | 20-24        |                              |                         |                              |                         |                              |                         |                                       |
| 10-40557           | 10-597160-16D | 10-597109-171  | 10-597109-17D | 16             | 16-18-20     |                              |                         | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent | Pin - Blue<br>Socket - Green |                         |                                       |
| 10-606014-022      | 10-597160-22D | 10-597109-221  | 10-597109-22D |                | 12-14        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-171      | 10-597160-17D | 10-597109-141  | 10-597109-14D |                | 14-16        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-311      | 10-597160-33D | 10-597109-331  | 10-597109-33D |                | 20-22        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-361      | 10-597160-36D | 10-597109-361  | 10-597109-36D |                | 20-24        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-121      | 10-597160-12D | 10-597109-131  | 10-597109-13D | 12             | 12-14        |                              |                         |                              |                         | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent | Green                                 |
| 10-606014-231      | 10-597160-23D | 10-597109-231  | 10-597109-23D |                | 8-10         |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-251      | 10-597160-26D | 10-597109-261  | 10-597109-26D |                | 10-12        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-271      | 10-597160-27D | 10-597109-271  | 10-597109-27D |                | 14-16-18     |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-261      | 10-597160-24D | 10-597109-241  | 10-597109-24D |                | 18-20        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-201      | 10-597160-20D | 10-597109-201  | 10-597109-20D |                | 20-22        |                              |                         |                              |                         |                              |                         |                                       |
| 10-40792           | 10-597160-8D  | 10-40793       | 10-597109-8D  | 8              | 8            | Pico 400BHD                  | Pico 414DA-8N           |                              |                         |                              |                         | Pico<br>Pin - 4025<br>Socket - 4026   |
| 10-606014-41       | 10-597160-41D | 10-597109-411  | 10-597109-41D |                | 6            |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-321      | 10-597160-28D | 10-606015-321  | 10-597109-28D |                | 10-12        |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-381      | 10-597160-38D | 10-597109-381  | 10-597109-38D |                | 12-14        |                              |                         |                              |                         |                              |                         |                                       |
| 10-40564           | 10-597160-4D  | 10-40565       | 10-597109-4D  | 4              | 4            |                              | Pico 400BHD             |                              |                         |                              |                         | Pico 414DA-4N                         |
| 10-606014-58       | 10-597160-58D | 10-597109-581  | 10-597109-58D |                | 6            |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-331      | 10-597160-35D | 10-597109-351  | 10-597109-35D |                | 8            |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-44       | 10-597160-44D | 10-606015-441  | 10-597109-44D |                | 10           |                              |                         |                              |                         |                              |                         |                                       |
| 10-581806-000      | 10-597160-1D  | 10-581808-000  | 10-597159-1D  | 0              | 0            |                              |                         | Pico 400BHD                  | Pico 414DA-0N           |                              |                         | Pico<br>Pin - 4042-1<br>Socket - 4042 |
| 10-606014-341      | 10-597160-29D | 10-597109-291  | 10-597109-29D |                | 0-2          |                              |                         |                              |                         |                              |                         |                                       |
| 10-606014-351      | 10-597160-30D | 10-606015-351  | 10-597109-30D |                | 4            |                              |                         |                              |                         |                              |                         |                                       |
| 10-597276-48       | 10-597276-48D | 10-606015-48   | 10-597109-48D | 2/0            | 2/0          |                              |                         |                              | Pico 500                | Pico 514DA2/0N               | Pico<br>Pin - 6490      |                                       |
| 10-597276-47       | 10-597276-47D | 10-606015-47   | 10-597109-47D | 4/0            | 4/0          |                              |                         |                              |                         | Pico 514DA4/0N               | Socket - 6491           |                                       |

See page 52 for further contact information applicable to both crimp and solder contacts.

Additional contact variations including thermocouple and RADSOK® power contacts are available; consult Amphenol Industrial, Sidney, NY for information.

# ACA-B Connectors – accessories

## application tools

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 ACA-B series connectors are available in publication L-757.

TOOLING CHART

| Contact Size | Contact Style | Insertion Tool | Removal Tool                        |
|--------------|---------------|----------------|-------------------------------------|
| 16           | Pin & Socket  | 11-7345        | 11-8250 Kit                         |
| 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

# ACA-B Connectors – accessories

## 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 MS style solder contacts for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop. (See how to order, Connector Modification, page 53).

| Part Number   | Pin/<br>Socket | Mating End<br>Size    | Wire Barrel<br>Size | Allowable<br>Wire Size | Test Current**<br>Amps |
|---------------|----------------|-----------------------|---------------------|------------------------|------------------------|
| 10-040569-000 | Pin            | 16 Short <sup>†</sup> | 16                  | 16                     | 13                     |
| 10-597107-171 | Socket         |                       |                     | 18                     | 10                     |
|               |                |                       |                     | 20                     | 7.5                    |
|               |                |                       |                     | 22                     | 5                      |
| 10-040599-000 | Pin            | 16 Long               | 16                  | 16                     | 13                     |
| 10-597107-171 | Socket         |                       |                     | 18                     | 10                     |
|               |                |                       |                     | 20                     | 7.5                    |
|               |                |                       |                     | 22                     | 5                      |
| 10-033646-000 | Pin            | 12                    | 12                  | 12                     | 23                     |
| 10-597107-131 | Socket         |                       |                     | 14                     | 17                     |
| 10-035531-000 | Pin            | 8                     | 8                   | 8                      | 46                     |
| 10-035532-000 | Socket         |                       |                     | 10                     | 33                     |
| 10-035529-000 | Pin            | 4                     | 4                   | 4                      | 80                     |
| 10-035530-000 | Socket         |                       |                     | 6                      | 60                     |
| 10-035527-000 | Pin            | 0                     | 0                   | 0                      | 150                    |
| 10-035528-000 | Socket         |                       |                     | 1                      | 125                    |
|               |                |                       |                     | 2                      | 100                    |

\*\* 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, 14S and 16S connectors require short contacts.

**Table I**  
**MIL-SPEC 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                    |

\* 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 AC (RMS) | Test Voltage AC (RMS) | Minimum Flashover Voltage AC (RMS) | Test Voltage AC (RMS) | Minimum Flashover Voltage AC (RMS) | Test Voltage AC (RMS) |
| Inst.             | 1/32             | 1/16     | 1400                               | 1000                  | 550                                | 400                   | 325                                | 260                   |
| A                 | 1/16             | 1/8      | 2800                               | 2000                  | 800                                | 600                   | 450                                | 360                   |
| D                 | 1/8              | 3/16     | 3600                               | 2800                  | 900                                | 675                   | 500                                | 400                   |
| E                 | 3/16             | 1/4      | 4500                               | 3500                  | 1000                               | 750                   | 550                                | 440                   |
| B                 | 1/4              | 5/16     | 5700                               | 4500                  | 1100                               | 825                   | 600                                | 480                   |
| C                 | 5/16             | 1        | 8500                               | 7000                  | 1300                               | 975                   | 700                                | 560                   |

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

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

# Amphenol® ACA-B Connectors

## how to order, connector intermateability

| Part Number System<br>(example part number shown) |      |   |        |   |   |   |       |
|---------------------------------------------------|------|---|--------|---|---|---|-------|
| ACA                                               | 3100 | E | 10SL-3 | P | W | B | (F80) |
| 1                                                 | 2    | 3 | 4      | 5 | 6 | 7 | 8     |

### 1. Connector Series

ACA designates Amphenol® ACA-B Reverse Bayonet Series

### 2. Shell Style

- 3100 - Wall mount receptacle for front panel mounting
- 3101 - Cable connecting receptacle
- 3102 - Box mount receptacle (Class E only, see sect. 3)
- 3103 - Wall mount receptacle for rear panel mounting
- 3106 - Straight plug
- 3107 - Jam nut receptacle - rear panel mount  
(Class A only, see sect. 3)
- 3108 - 90° angle plug

### 3. Connector Class

- A Environmental, no rear threads (Applies to 3107 only)
- E Environmental resisting, with grommet seal and strain relief backshell
- F Environmental resisting, with grommet seal and solid backshell with rear accessory threads
- G Backshell for heat shrink termination
- R Environmental resisting with lightweight endbell

### 4. Shell Size and Insert Arrangement

See pages 2-4 for insert availability charts, and pages 6-24 for insert pattern drawings.

### 5. Contact Style

P designates pin contacts

S designates socket contacts

Note: standard contacts are silver plated. Consult Connector Modification for ordering gold plated contacts.

### 6. Alternate Position

W, X, Y and Z - See page 5.

No suffix required for normal position.

### 7. Designation for Reverse Bayonet

B designates Reverse Bayonet coupling shells

### 8. Connector Modification

Omit for standard olive drab connectors with solder type silver plated contacts.

For a modification as listed below, add suffix in parenthesis to the end of the part number. Consult Amphenol Industrial Operations for further description or assistance.

- (RDS) with Radsack contacts
- (F80) with AWG crimp contacts
- (FO) less contacts. (contacts are to be ordered separately)
- (A176) gold contacts
- (T00) metric threads in flange holes
- (RFI) grounded - plug only
- (F42) less grommet and backshell
- (F85) less sleeve and grommet
- (A23) electroless nickel plating
- (A232) with black zinc cobalt plating

### MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

| Connector Style | Mateable with Style              |
|-----------------|----------------------------------|
| ACA3100         | ACA 3106, 3108                   |
| ACA3101         | ACA 3106, 3108                   |
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