

# Amphenol

MS & 97B - Series

ACRMS02 0313



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# Amphenol



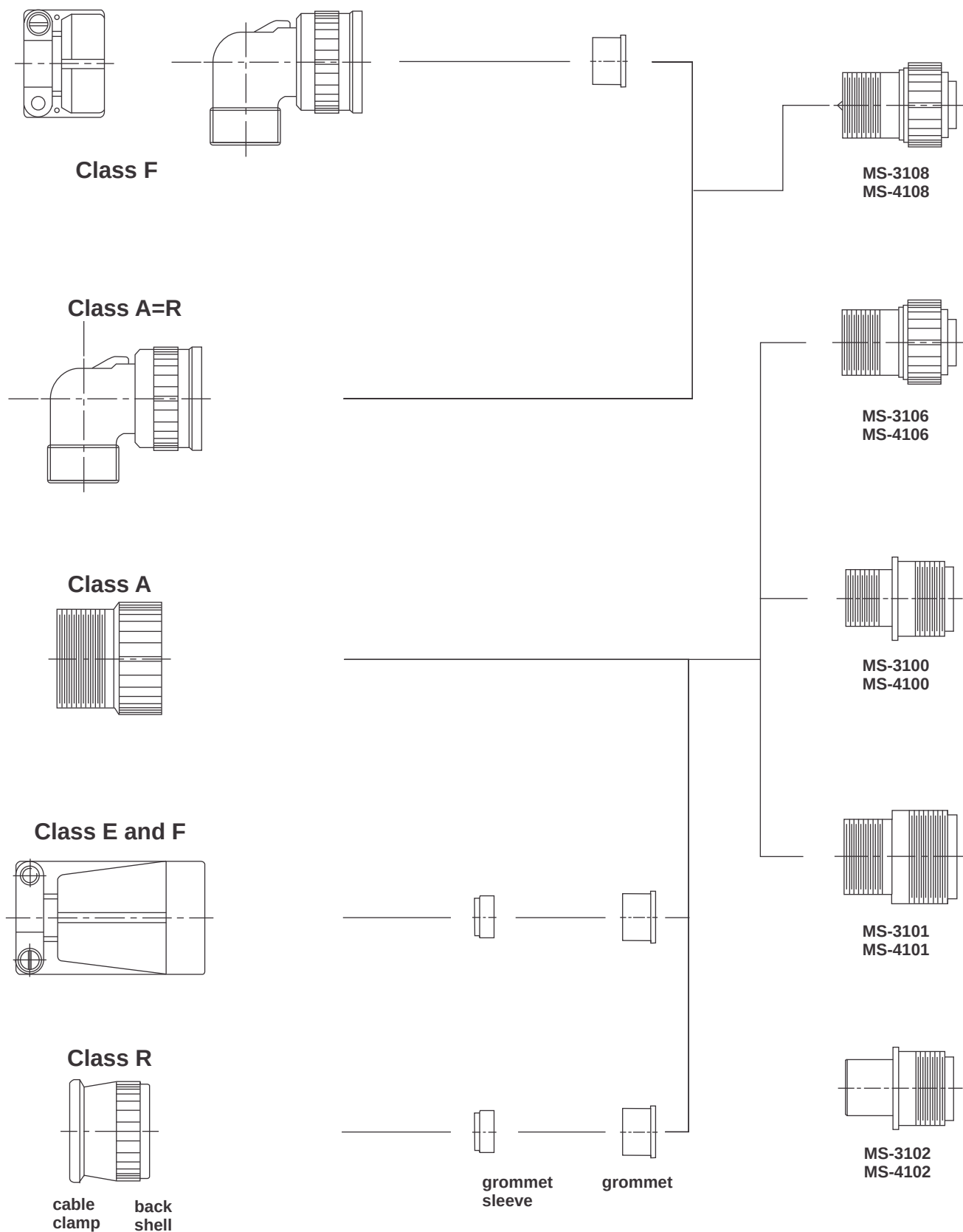
# Introduction

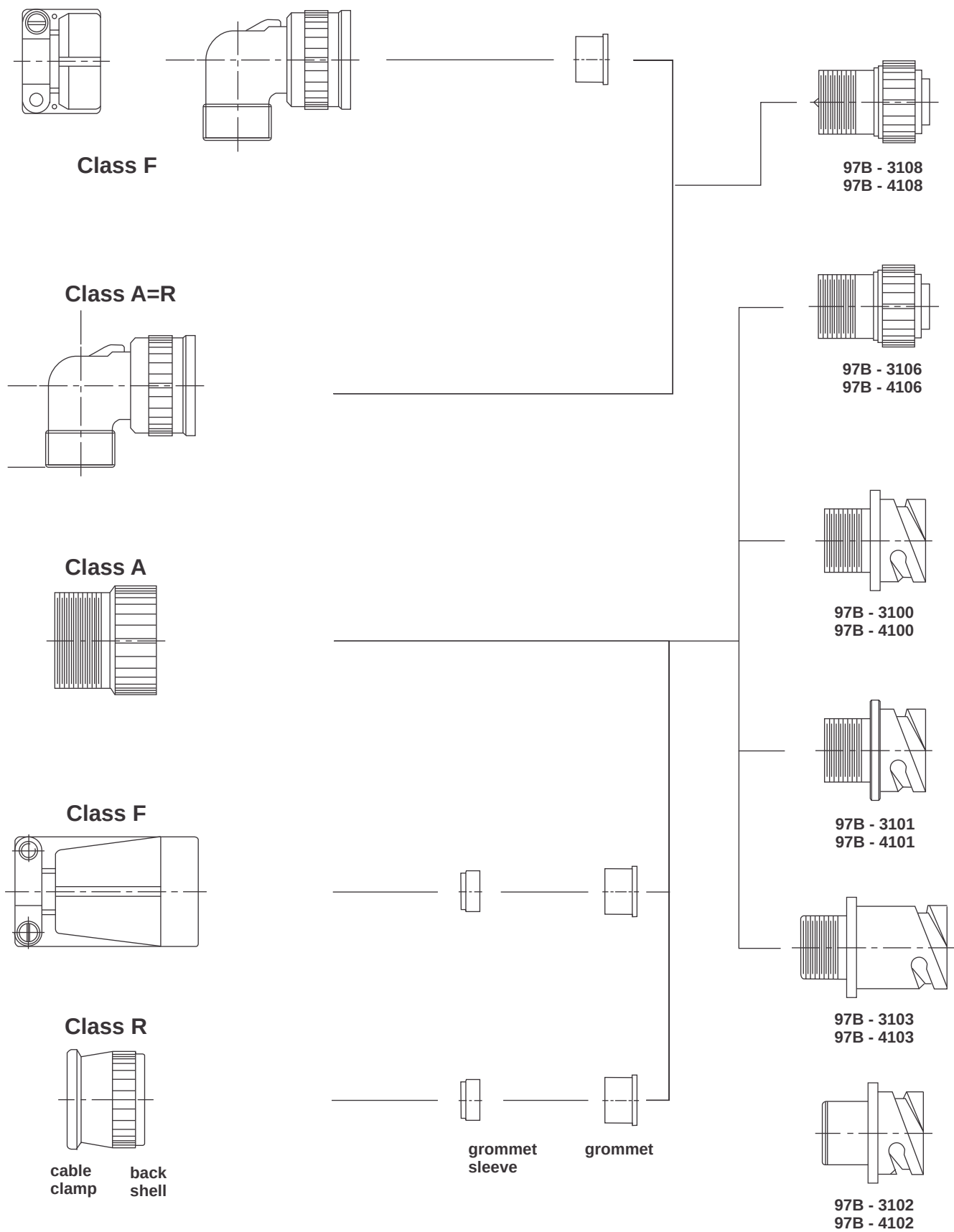
Amphenol MS & 97B series are two series of thread & Bayonet coupled connectors designed to meet the operating requirements of MIL-C-5015. available in a variety of styles & classes, these connectors are primarily used in a range of military and industrial applications where specific degrees of environmental protection are required.

Although MS series have identical insert arrangements and other similar components parts, the two series differ in that Amphenol MS series of connectors are also qualified to meet the operating requirements of Defence Standard Joint Services Specifications JSS50812, issued by the Electronics Components Standardization Organisation (LCSO)

Amphenol 97B connectors feature a quick a mating bayonet coupling with an audible full mating feature. This series uses the same MIL-C-5015 insert patterns and are used in high shock and vibration environments encountered in commercial, geophysical, aerospace, ground support and shipboard applications.

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These electrical connectors are designated MS because the interchangeability and operating characteristics are determined by U.S. Military Specifications. These specifications are revised from time to time to incorporate performance requirements dictated by design advances and more stringent requirements of allied equipment. The several designations of MS and 97B connectors meet different requirements of MIL-C-5015. These designations and general descriptions are as follows :

### Shell

Shell constructions include solid back shell (A) and environmental resistant (E, F & R). Environmental resistant connectors provide a moisture barrier and assure a positive seal. Shell styles consist of wall type receptacles (3100), cable receptacles (3101), box receptacles (3102), straight plugs (3106) and angle plugs (3108). Shell hardware is manufactured from aluminium alloy and cadmium plated with olive drab chromate finish. This finish has excellent conductivity; it is non-reflecting and corrosion resistant. Black anodised finish and cadmium-free zinc plating with olive drab chromate finish are also available. For details, contact factory.

### Contacts

Pin and socket contacts are of brass and generally silver plated. Gold plating is also available. For details contact factory. These contacts are available for solder or crimp termination. Special arrangements of contacts for pre-mating and pre-earth are also available.

### Inserts and grommet

Synthetic inserts and grommet manufactured according to MIL-R-3065, offer high dielectric strength and are resistant to oils, gasoline and low temperature. DAP is dimensionally stable, has high arc resistance and high insulation resistance under both humidity and thermal stress.

### General description

Plugs are available in A, F and R types. Receptacles are available in A, E, F and R types.

#### A Solid back shell

Intended for general service usage to provide convenient means of connecting and disconnecting electrical circuits in industrial and military applications.

#### Environmental resisting

Intended for use where the connector will be subject to heavy condensation and rapid changes in temperature or pressure and/or where the connector is subjected to high vibratory conditions.

**E** Environmental resisting with grommet seal and strain relief backshell except for 3102 type.

**F** Environmental resisting with grommet seal, strain relief backshell and front gasket seal for plug type.

**R** Environmental resisting with grommet seal, shorter and lightweight.

### Features for 97B reverse bayonet coupling connectors with Mil-C-5015 insert patterns:

- Quick positive coupling
- Audible and tactile indication of full coupling
- Waterproof
- No lockwiring required
- High shock and vibration capabilities
- Insert available in Neoprene material (alternate inserts materials available upon request)
- Operating temperature range with Neoprene inserts: -55°C to +125°C
- 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; aluminum or stainless steel components
- Intermateable with existing VG95234 connectors
- 500 couplings minimum

### Dielectric strength

| Service rating | Test Voltage<br>Vac rms |
|----------------|-------------------------|
| Inst.          | 1000V                   |
| A              | 2000V                   |
| D              | 2800V                   |
| E              | 3500V                   |
| B              | 4500V                   |
| C              | 7000V                   |

### Contact rating

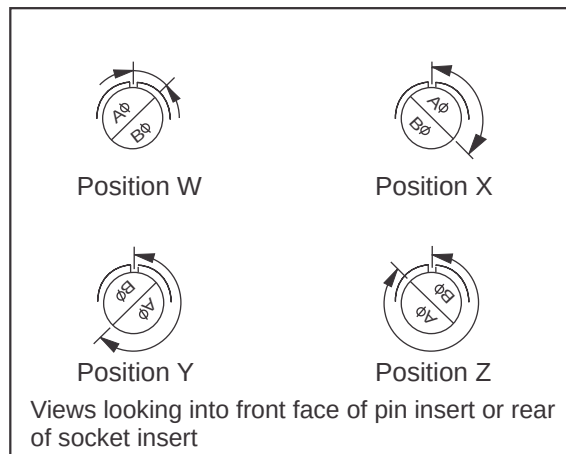
| Contact<br>Size | Rated<br>Current | Contact<br>Resistance<br>miliohms |
|-----------------|------------------|-----------------------------------|
| 16              | 13A              | 3.46                              |
| 12              | 23A              | 1.83                              |
| 8               | 46A              | 0.52                              |
| 4               | 80A              | 0.26                              |
| 0               | 150A             | 0.14                              |

### Service rating

| Service rating | Operating Voltage<br>DC at Sea Level | Operating Voltage<br>AC at Sea Level |
|----------------|--------------------------------------|--------------------------------------|
| Inst.          | 250V                                 | 200V                                 |
| A              | 700V                                 | 500V                                 |
| D              | 1250V                                | 900V                                 |
| E              | 1750V                                | 1250V                                |
| B              | 2450V                                | 1750V                                |
| C              | 4200V                                | 3000V                                |

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

As shown in the daigram 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 counterclockwise the same number of degrees with respect to the normal shell key.



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

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

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

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

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 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 | -   |
| 20-21              | 35      | 110 | 250 | 325 |
| 20-23              | 35      | 110 | 250 | 325 |
| 20-24              | 35      | 110 | 250 | 325 |
| 20-27              | 35      | 110 | 250 | 325 |
| 20-29              | 80      | -   | -   | 280 |
| 22-1               | 35      | 110 | 250 | 325 |
| 22-2               | 70      | 145 | 215 | 290 |
| 22-4               | 35      | 110 | 250 | 325 |
| 22-5               | 35      | 110 | 250 | 325 |
| 22-8               | 35      | 110 | 250 | 325 |
| 22-9               | 70      | 145 | 215 | 290 |
| 22-10              | 35      | 110 | 250 | 325 |
| 22-11              | 35      | 110 | 250 | 325 |
| 22-13              | 35      | 110 | 250 | 325 |
| 22-20              | 35      | 110 | 250 | 325 |
| 22-22              | -       | 110 | 250 | -   |
| 22-23              | 35      | -   | 250 | -   |
| 22-27              | 80      | -   | 250 | 280 |
| 22-28              | 80      | -   | -   | 280 |
| 24-2               | 80      | -   | -   | 280 |
| 24-9               | 35      | 110 | 250 | 325 |
| 24-10              | 80      | -   | -   | 280 |
| 24-11              | 35      | 110 | 250 | 325 |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 24-22              | 45      | 110 | 250 | -   |
| 24-27              | 80      | -   | -   | 280 |
| 28-2               | 35      | 110 | 250 | 325 |
| 28-3               | 70      | 145 | 215 | 290 |
| 28-5               | 35      | 110 | 250 | 325 |
| 28-6               | 70      | 145 | 215 | 290 |
| 28-7               | 35      | 110 | 250 | 325 |
| 28-12              | 90      | 180 | 270 | -   |
| 28-18              | 70      | 145 | 215 | 290 |
| 28-22              | 70      | 145 | 215 | 290 |
| 32-8               | 80      | 125 | 235 | 280 |
| 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 |
| 40-56              | 72      | 144 | 216 | 288 |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |
|                    |         |     |     |     |

# Insert Arrangements

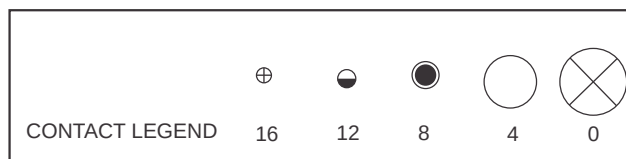
| Insert Arrangement | Service Rating | Total Cont-acts | Contact Size |   |   |    |    |
|--------------------|----------------|-----------------|--------------|---|---|----|----|
|                    |                |                 | 0            | 4 | 8 | 12 | 16 |
| 10S-2              | A              | 1               |              |   |   |    | 1  |
| 10SL-3             | A              | 3               |              |   |   |    | 3  |
| 10SL-4             | A              | 2               |              |   |   |    | 2  |
| 12S-3              | A              | 2               |              |   |   |    | 2  |
| 12S-4              | D              | 1               |              |   |   |    | 1  |
| 12-5               | D              | 1               |              |   |   |    | 1  |
| 14S-1              | A              | 3               |              |   |   |    | 3  |
| 14S-2              | Inst           | 4               |              |   |   |    | 4  |
| 14S-4              | D              | 1               |              |   |   |    | 1  |
| 14S-5              | Inst           | 5               |              |   |   |    | 5  |
| 14S-6              | Inst           | 6               |              |   |   |    | 6  |
| 14S-7              | A              | 3               |              |   |   |    | 3  |
| 14S-9              | A              | 2               |              |   |   |    | 2  |
| 14S-10             | Inst           | 4               |              |   |   |    | 4  |
| 14S-12             | A              | 3               |              |   |   |    | 3  |
| 14-3               | A              | 1               |              |   | 1 |    |    |
| 14S-A7             | A              | 19              | 19           |   |   |    |    |
| 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  |    |
| 18-1               | A/Inst         | 10              |              |   |   |    | 10 |
| 18-3               | D              | 2               |              |   |   | 2  |    |
| 18-4               | D              | 4               |              |   |   |    | 4  |
| 18-5               | D              | 3               |              |   |   | 2  | 1  |
| 18-06              |                | 6               |              |   |   | 4  | 2  |
| 18-6               | D              | 1               |              | 1 |   |    |    |
| 18-7               | B              | 1               |              |   | 1 |    |    |
| 18-8               | A              | 8               |              |   |   | 1  | 7  |
| 18-9               | Inst           | 7               |              |   |   | 2  | 5  |
| 18-10              | A              | 4               |              |   |   | 4  |    |
| 18-11              | A              | 5               |              |   |   | 5  |    |
| 18-12              | A              | 6               |              |   |   |    | 6  |
| 18-13              | A              | 4               |              |   | 1 | 3  |    |
| 18-14              | A              | 2               |              | 1 |   |    | 1  |
| 18-15              | A              | 4               |              |   |   | 4  |    |
| 18-16              | C              | 1               |              |   |   | 1  |    |
| 18-17              | Inst           | 7               |              |   |   | 2  | 5  |
| 18-19              | A              | 10              |              |   |   |    | 10 |
| 18-20              | A              | 5               |              |   |   |    | 5  |
| 18-22              | D              | 3               |              |   |   |    | 3  |
| 18-24              | A/Inst         | 10              |              |   |   |    | 10 |
| 18-29              | A              | 5               |              |   |   |    | 5  |
| 18-30              | A              | 5               |              |   |   |    | 5  |
| 18-31              | A              | 5               |              |   |   |    | 5  |
| 20-2               |                | 1               | 1            |   |   |    |    |
| 20-3               | D              | 3               |              |   |   | 3  |    |
| 20-4               | D              | 4               |              |   |   | 4  |    |
| 20-6               | D              | 3               |              |   |   |    | 3  |
| 20-7               | D/A            | 8               |              |   |   |    | 8  |

| Insert Arrangement | Service Rating | Total Cont-acts | Contact Size |   |   |    |    |
|--------------------|----------------|-----------------|--------------|---|---|----|----|
|                    |                |                 | 0            | 4 | 8 | 12 | 16 |
| 20-8               | Inst           | 6               |              |   | 2 |    | 4  |
| 20-9               | D/A            | 8               |              |   |   | 1  | 7  |
| 20-11              | Inst           | 13              |              |   |   |    | 13 |
| 20-12              | A              | 2               |              | 1 |   |    | 1  |
| 20-14              | A              | 5               |              |   | 2 | 3  |    |
| 20-15              | A              | 7               |              |   |   | 7  |    |
| 20-16              | A              | 9               |              |   |   | 2  | 7  |
| 20-17              | A              | 6               |              |   |   | 5  | 1  |
| 20-18              | A              | 9               |              |   |   | 3  | 6  |
| 20-19              | A              | 3               |              |   | 3 |    |    |
| 20-20              | A              | 4               |              | 1 |   | 3  |    |
| 20-21              | A              | 9               |              |   |   | 1  | 8  |
| 20-22              | A              | 6               |              |   | 3 |    | 3  |
| 20-23              | A              | 2               |              |   | 2 |    |    |
| 20-24              | A              | 4               |              |   | 2 |    | 2  |
| 20-25              | Inst           | 13              |              |   |   |    | 13 |
| 20-27              | A              | 14              |              |   |   |    | 14 |
| 20-29              | A              | 17              |              |   |   |    | 17 |
| 20-30              | Inst           | 13              |              |   |   |    | 13 |
| 20-33              | A              | 11              |              |   |   |    | 11 |
| 20-A48             | A              | 19              |              |   |   |    |    |
| 22-1               | D              | 2               |              |   | 2 |    |    |
| 22-2               | D              | 3               |              |   | 3 |    |    |
| 22-4               | A              | 4               |              |   | 2 | 2  |    |
| 22-5               | D              | 6               |              |   |   | 2  | 4  |
| 22-6               | D              | 3               |              |   | 2 |    | 1  |
| 22-7               | E              | 1               | 1            |   |   |    |    |
| 22-8               | E              | 2               |              |   |   | 2  |    |
| 22-9               | E              | 3               |              |   |   | 3  |    |
| 22-10              | E              | 4               |              |   |   |    | 4  |
| 22-11              | B              | 2               |              |   |   |    | 2  |
| 22-12              | D              | 5               |              |   | 2 |    | 3  |
| 22-13              | D/A            | 5               |              |   |   | 4  | 1  |
| 22-14              | A              | 19              |              |   |   |    | 19 |
| 22-15              | E/A            | 6               |              |   |   | 5  | 1  |
| 22-16              | A              | 9               |              |   |   | 3  | 6  |
| 22-17              | D/A            | 9               |              |   |   | 1  | 8  |
| 22-18              | D/A            | 8               |              |   |   |    | 8  |
| 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  |    |
| 22-34              | D              | 5               |              |   |   | 3  | 2  |
| 24-2               | D              | 7               |              |   |   | 7  |    |
| 24-3               | D              | 7               |              |   |   | 2  | 5  |
| 24-4               |                | 1               |              |   |   |    | 3  |
| 24-5               | A              | 16              |              |   |   |    | 16 |
| 24-6               | D/A            | 8               |              |   |   | 8  |    |
| 24-06              | A              | 6               |              | 4 |   |    | 2  |
| 24-7               | A              | 16              |              |   |   | 2  | 14 |
| 24-9               | A              | 2               |              | 2 |   |    |    |
| 24-10              | A              | 7               |              |   | 7 |    |    |

| Insert Arrangement | Service Rating | Total Cont-acts | Contact Size |   |    |    |    |
|--------------------|----------------|-----------------|--------------|---|----|----|----|
|                    |                |                 | 0            | 4 | 8  | 12 | 16 |
| 24-11              | A              | 9               |              |   |    | 3  | 6  |
| 24-12              | A              | 5               |              |   | 2  |    | 3  |
| 24-16              | D/A            | 7               |              |   | 1  | 3  | 3  |
| 24-17              | D              | 5               |              |   |    | 2  | 3  |
| 24-20              | D              | 11              |              |   |    | 2  | 9  |
| 24-21              | D              | 10              |              |   | 1  |    | 9  |
| 24-22              | D              | 4               |              |   | 4  |    |    |
| 24-27              | E              | 7               |              |   |    |    | 7  |
| 24-28              | Inst           | 24              |              |   |    |    | 24 |
| 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  |
| 28-09              | A              | 9               |              | 4 |    |    | 5  |
| 28-10              | D/A            | 7               |              | 2 | 2  | 3  |    |
| 28-11              | A              | 22              |              |   |    | 4  | 18 |
| 28-12              | A              | 26              |              |   |    |    | 26 |
| 28-13              | A              | 26              |              |   |    |    | 26 |
| 28-15              | A              | 35              |              |   |    |    | 35 |
| 28-16              | A              | 20              |              |   |    |    | 20 |
| 28-17              | B/D/A          | 15              |              |   |    |    | 15 |
| 28-18              | C/D/A/Inst     | 12              |              |   |    |    | 12 |
| 28-19              | B/D/A          | 10              |              |   |    | 4  | 6  |
| 28-20              | A              | 14              |              |   |    | 10 | 4  |
| 28-21              | A              | 37              |              |   |    |    | 37 |
| 28-22              | D              | 6               |              | 3 |    |    | 3  |
| 28-51              | D              | 12              |              |   |    |    | 12 |
| 32-1               | D/A            | 5               | 2            |   |    | 3  |    |
| 32-3               | D              | 9               | 1            | 2 |    | 2  | 4  |
| 32-5               | D              | 2               | 2            |   |    |    |    |
| 32-6               | A              | 23              |              | 2 | 3  | 2  | 16 |
| 32-7               | INSTA          | 35              |              |   |    | 7  | 28 |
| 32-8               | A              | 30              |              |   |    | 6  | 24 |
| 32B-13             | D              | 13              |              |   | 13 |    |    |
| 32-17              | D              | 4               |              | 4 |    |    |    |
| 32-22              | A              | 54              |              |   |    |    | 54 |
| 36-1               | D              | 22              |              |   |    | 4  | 18 |
| 36-3               | D              | 6               | 3            |   |    | 3  |    |
| 36-4               | D/A            | 3               | 3            |   |    |    |    |
| 36-5               | A              | 4               | 4            |   |    |    |    |
| 36-6               | A              | 6               | 2            | 4 |    |    |    |
| 36-7               | A              | 47              |              |   |    | 7  | 40 |
| 36-8               | A              | 47              |              |   |    | 1  | 46 |
| 36-9               | A              | 31              |              | 1 | 2  | 14 | 14 |
| 36-10              | A              | 48              |              |   |    |    | 48 |
| 36-11              | A              | 48              |              |   |    |    | 48 |
| 36-12              | A              | 48              |              |   |    |    | 48 |
| 36-13              | E/A            | 17              |              |   |    | 2  | 15 |
| 36-14              | D              | 16              |              |   | 5  | 5  | 6  |
| 36-15              | D/A            | 35              |              |   |    |    | 35 |
| 36-16              | A              | 47              |              |   |    | 7  | 40 |
| 36-17              | A              | 47              |              |   |    | 7  | 40 |
| 38-18              | A              | 31              |              | 1 | 2  | 14 | 14 |
| 36-20              | A              | 34              |              |   | 2  | 2  | 30 |
| 36-46              | A              | 27              |              |   |    |    | 27 |
| 36-52              | A              | 52              |              |   |    |    | 52 |
| 40-56              | A              | 85              |              |   |    |    | 85 |
| 40-63              | A              | 61              |              |   |    |    |    |

# Insert Arrangements

Front face of pin insert or rear of socket insert illustrated

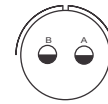
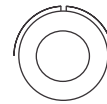
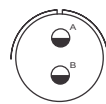
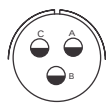
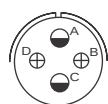
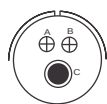
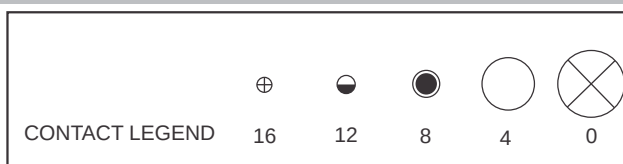


|                    |        |                           |                           |                           |       |       |
|--------------------|--------|---------------------------|---------------------------|---------------------------|-------|-------|
|                    |        |                           |                           |                           |       |       |
|                    |        | Front of<br>socket insert | Front of<br>socket insert |                           |       |       |
| Insert arrangement | 10S-2  | 10SL-3                    | 10SL-4                    | 12S-3                     | 12S-4 | 12-5  |
| Service rating     | A      | A                         | A                         | A                         | A     | D     |
| Number of contacts | 1      | 3                         | 2                         | 2                         | 1     | 1     |
| Contact size       | 16     | 16                        | 16                        | 16                        | 16    | 12    |
| Premating contact  | —      | C                         | —                         | —                         | —     | —     |
|                    |        |                           |                           |                           |       |       |
| Insert arrangement | 14S-A7 | 14S-1                     | 14S-2                     | 14S-4                     | 14S-5 | 14S-6 |
| Service rating     | A      | A                         | Inst.                     | D                         | Inst. | Inst. |
| Number of contacts | 7      | 3                         | 4                         | 1                         | 5     | 6     |
| Contact size       | 16     | 16                        | 16                        | 16                        | 16    | 16    |
| Premating contact  | —      | —                         | —                         | —                         | —     | —     |
|                    |        |                           |                           |                           |       |       |
|                    |        |                           | 100° rotation<br>of 14S-2 | 100° rotation<br>of 14S-7 |       |       |
| Insert arrangement | 14S-7  | 14S-9                     | *14S-10                   | *14S-12                   | *14-3 | 16S-1 |
| Service rating     | A      | A                         | Inst.                     | A                         | A     | A     |
| Number of contacts | 3      | 2                         | 4                         | 3                         | 1     | 7     |
| Contact size       | 16     | 16                        | 16                        | 16                        | 8     | 16    |
| Premating contact  | B      | —                         | —                         | B                         | —     | G     |
|                    |        |                           |                           |                           |       |       |
| Insert arrangement | *16S-3 | 16S-4                     | 16S-5                     | 16S-6                     | 16S-8 | *16-2 |
| Service rating     | B      | D                         | A                         | A                         | A     | E     |
| Number of contacts | 1      | 2                         | 3                         | 3                         | 5     | 1     |
| Contact size       | 16     | 16                        | 16                        | 16                        | 16    | 12    |
| Premating contact  | —      | —                         | A                         | B                         | E     | —     |

\*Not tooled up, can be tooled up on request. Contact Factory.

# Insert Arrangements

Front face of pin insert or rear of socket insert illustrated



Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

16-7  
A  
1 2  
8 16  
C

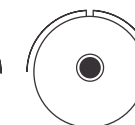
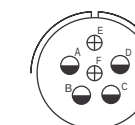
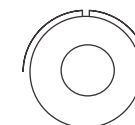
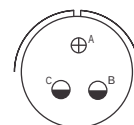
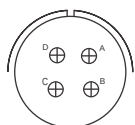
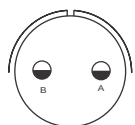
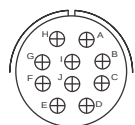
16-9  
A  
2 2  
12 16  
—

16-10  
A  
3  
12  
B

16-11  
A  
2  
12  
—

16-12  
A  
1  
4  
—

\*16-13  
A  
2  
12  
—



Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

18-1  
B,C,F,G=A; Bal.=Inst.  
10  
16  
—

18-3  
D  
2  
12  
—

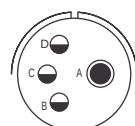
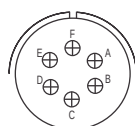
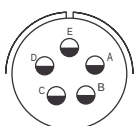
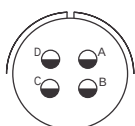
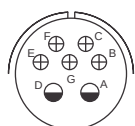
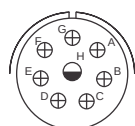
18-4  
D  
4  
16  
A

18-5  
D  
2 1  
12 16  
C

\*18-6  
D  
1  
4  
—

18-06  
A  
2 4  
16 12  
—

18-7  
B  
1  
8  
—



Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

18-8  
A  
1 7  
12 16  
H

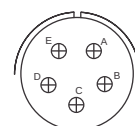
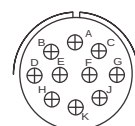
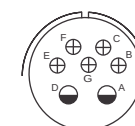
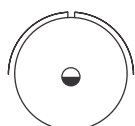
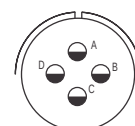
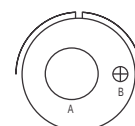
18-9  
Inst.  
2 5  
12 16  
—

18-10  
A  
4  
12  
D

18-11  
A  
5  
12  
E

18-12  
A  
6  
16  
C or D

\*18-13  
A  
1 3  
8 12  
A



100° rotation  
of 18-9

Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

\*18-14  
A  
1 1  
4 16  
—

18-15  
A  
4  
12  
—

18-16  
C  
1  
12  
—

\*18-17  
Inst.  
2 5  
12 16  
—

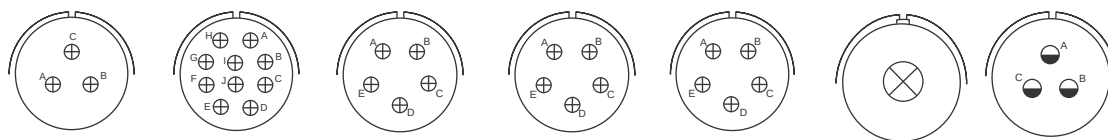
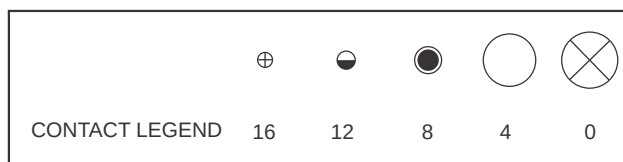
18-19  
A  
10  
16  
K

18-20  
A  
5  
16  
D

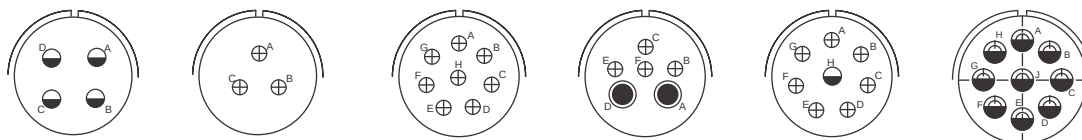
\*Not tooled up, can be tooled up on request. Contact Factory.

# Insert Arrangements

Front face of pin insert or rear of socket insert illustrated



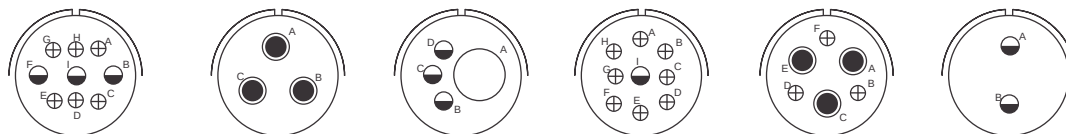
|                    |       |                          |        |                           |                           |      |
|--------------------|-------|--------------------------|--------|---------------------------|---------------------------|------|
|                    |       | 250° rotation<br>of 18-1 |        | 110° rotation<br>of 18-20 | 260° rotation<br>of 18-20 |      |
| 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    |
| Premating contact  | C     | —                        | D      | C                         | C                         | —    |



|                    |        |       |                            |       |             |       |
|--------------------|--------|-------|----------------------------|-------|-------------|-------|
| Insert arrangement | 20-4   | *20-6 | 20-7                       | 20-8  | 20-9        | 20A-9 |
| Service rating     | D      | D     | A, B, H, G=D; C, D, E, F=A | Inst. | H=D; Bal.=A | A     |
| Number of contacts | 4      | 3     | 8                          | 2 4   | 1 7         | 9     |
| Contact size       | 12     | 16    | 16                         | 8 16  | 12 16       | 12    |
| Premating contact  | C or D | A     | A                          | —     | H           | —     |



|                    |       |        |       |        |       |        |
|--------------------|-------|--------|-------|--------|-------|--------|
| 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  |
| Premating contact  | —     | —      | D     | A or D | E     | E or F |

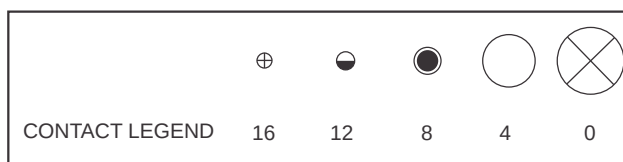


|                    |       |       |       |        |       |       |
|--------------------|-------|-------|-------|--------|-------|-------|
| Insert arrangement | 20-18 | 20-19 | 20-20 | *20-21 | 20-22 | 20-23 |
| Service rating     | A     | A     | A     | A      | A     | A     |
| Number of contacts | 3 6   | 3     | 1 3   | 1 8    | 3 3   | 2     |
| Contact size       | 12 16 | 8     | 4 12  | 12 16  | 8 16  | 8     |
| Premating contact  | D     | C     | A     | 1      | —     | —     |

\*Not tooled up, can be tooled up on request. Contact Factory.

# Insert Arrangements

Front face of pin insert or rear of socket insert illustrated

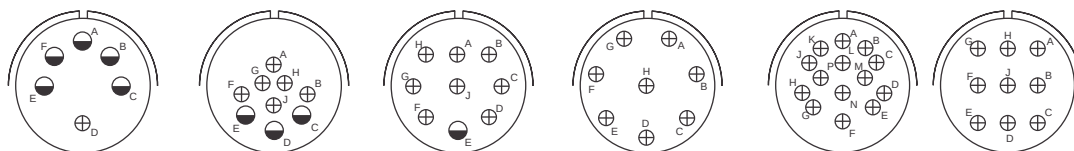
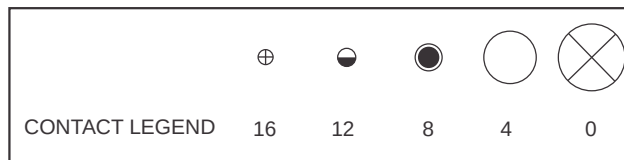


|                    |       |                        |       |                   |                        |
|--------------------|-------|------------------------|-------|-------------------|------------------------|
|                    |       |                        |       |                   |                        |
|                    |       | 100° rotation of 20-11 |       |                   | 250° rotation of 20-11 |
| Insert arrangement | 20-24 | *20-25                 | 20-27 | 20-29             | *20-30                 |
| Service rating     | A     | Inst.                  | A     | A                 | Inst.                  |
| Number of contacts | 2 2   | 13                     | 14    | 17                | 13                     |
| Contact size       | 8 16  | 16                     | 16    | 16                | 16                     |
| Premating contact  | —     | —                      | M     | G                 | —                      |
|                    |       |                        |       |                   |                        |
| Insert arrangement | 20-33 | 20 A - 48              | 22-1  | 22-2              | *22-4                  |
| Service rating     | A     | A                      | D     | D                 | A                      |
| Number of contacts | 11    | 19                     | 2     | 3                 | 2 2                    |
| Contact size       | 16    | 16                     | 8     | 8                 | 8 12                   |
| Premating contact  | E     | —                      | —     | A                 | C                      |
|                    |       |                        |       |                   |                        |
| Insert arrangement | 22-5  | *22-6                  | 22-7  | *22-8             | 22-9                   |
| Service rating     | D     | D                      | E     | E                 | E                      |
| Number of contacts | 2 4   | 2 1                    | 1     | 2                 | 3                      |
| Contact size       | 12 16 | 8 16                   | 0     | 12                | 12                     |
| Premating contact  | D     | B                      | —     | —                 | A                      |
|                    |       |                        |       |                   |                        |
| Insert arrangement | 22-10 | 22-11                  | 22-12 | 22-13             | 22-14                  |
| Service rating     | E     | B                      | D     | E=D; A, B, C, D=A | A                      |
| Number of contacts | 4     | 2                      | 2 3   | 4 1               | 19                     |
| Contact size       | 16    | 16                     | 8 16  | 12 16             | 16                     |
| Premating contact  | C     | —                      | A     | E                 | A                      |

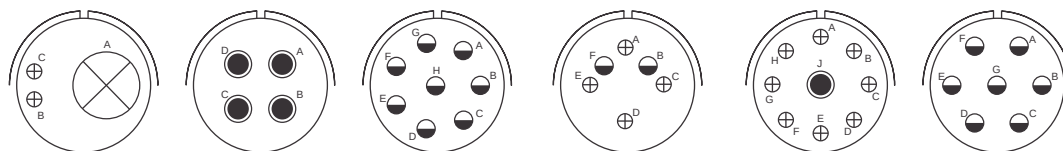
\*Not tooled up, can be tooled up on request. Contact Factory.

# Insert Arrangements

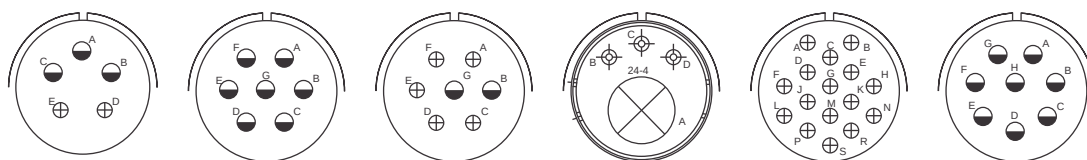
Front face of pin insert or rear of socket insert illustrated



|                    |                 |       |            |                     |       |       |
|--------------------|-----------------|-------|------------|---------------------|-------|-------|
| Insert arrangement | 22-15           | 22-16 | *22-17     | 22-18               | 22-19 | 22-20 |
| Service rating     | D=E;A,B,C,E,F=A | A     | A=D;Bal.=A | A,B,F,G,H=D;C,D,E=A | A     | A     |
| Number of contacts | 5 1             | 3 6   | 1 8        | 8                   | 14    | 9     |
| Contact size       | 12 16           | 12 16 | 12 16      | 16                  | 16    | 16    |
| Premating contact  | D               | D     | E          | D                   | F     | D     |



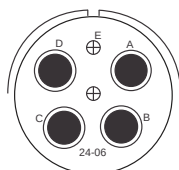
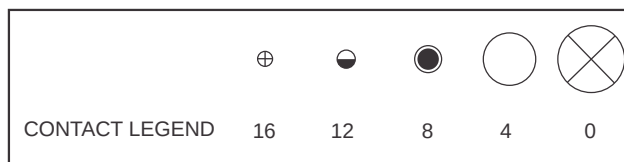
|                    |        |        |            |                 |            |       |
|--------------------|--------|--------|------------|-----------------|------------|-------|
| Insert arrangement | *22-21 | 22-22  | 22-23      | 22-24           | 22-27      | 22-28 |
| Service rating     | A      | A      | H=D;Bal.=A | C,D,E=D;A,B,F=A | J=D;Bal.=A | A     |
| Number of contacts | 1 2    | 4      | 8          | 2 4             | 1 8        | 7     |
| Contact size       | 0 16   | 8      | 12         | 12 16           | 8 16       | 12    |
| Premating contact  | —      | C or D | A or D     | D               | —          | G     |



|                    |        |      |       |      |      |                |
|--------------------|--------|------|-------|------|------|----------------|
| Insert arrangement | *22-34 | 24-2 | *24-3 | 24-4 | 24-5 | 24-6           |
| Service rating     | D      | D    | D     | A    | A    | A,G,H=D;Bal.=A |
| Number of contacts | 3 2    | 7    | 2 5   | 3 1  | 16   | 8              |
| Contact size       | 12 16  | 12   | 12 16 | 16 0 | 16   | 12             |
| Premating contact  | E      | A    | D     | —    | S    | D              |

\*Not tooled up, can be tooled up on request. Contact Factory.

Front face of pin insert or rear of socket insert illustrated



24-06

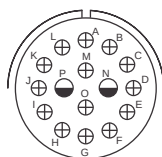
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

A

2 4

16 8

—



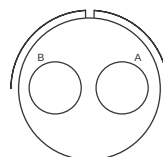
24-7

A

2 14

12 16

G



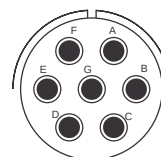
24-9

A

2

4

—



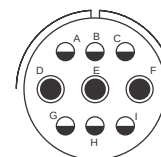
24-10

A

7

8

D or E or G



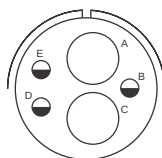
24-11

A

3 6

8 12

E



24-12

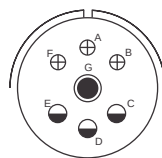
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

A

2 3

4 12

—



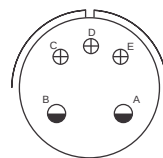
\*24-16

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

1 3 3

8 12 16

G



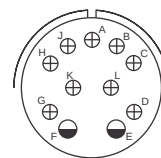
\*24-17

D

2 3

12 16

D



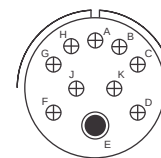
24-20

D

2 9

12 16

A



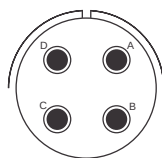
24-21

D

1 9

8 16

E



24-22

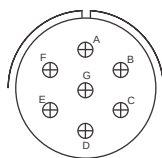
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

D

4

8

D



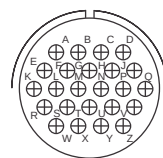
\*24-27

E

7

16

D



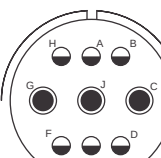
24-28

Inst.

24

16

—



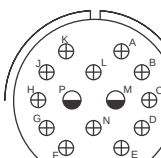
28-1

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

3 6

8 12

E



\*28-2

D

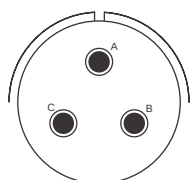
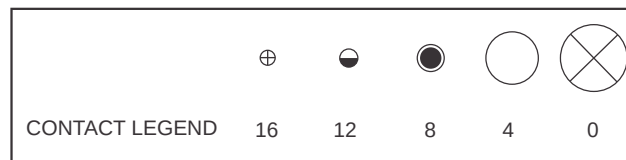
2 12

12 16

E

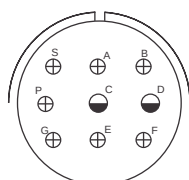
\*Not tooled up, can be tooled up on request. Contact Factory.

Front face of pin insert or rear of socket insert illustrated

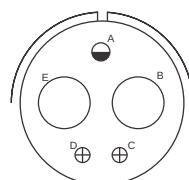


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

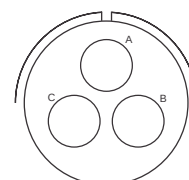
28-3  
E  
3  
8  
A



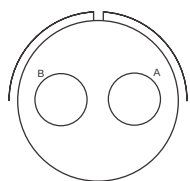
\*28-4  
G,S,P=E; Bal.=D  
2 7  
12 16  
E



\*28-5  
D  
2 1 2  
4 12 16  
—

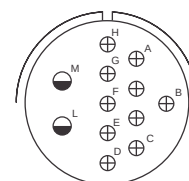


28-6  
D  
3  
4  
A

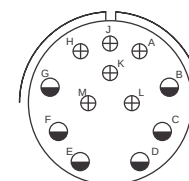


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

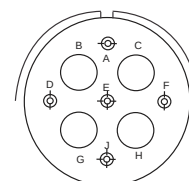
28-7  
D  
2  
4  
—



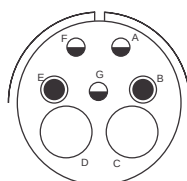
28-8  
L,M=E; B=D; Bal.=A  
2 10  
12 16  
D



28-9  
D  
6 6  
12 16  
E

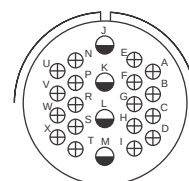


28-09  
A  
5 4  
16 4  
—

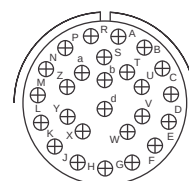


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

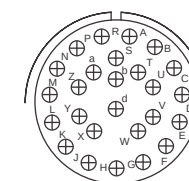
28-10  
G=D; Bal.=A  
2 2 3  
4 8 12  
G



28-11  
A  
4 18  
12 16  
M



28-12  
A  
26  
16  
H

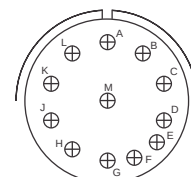
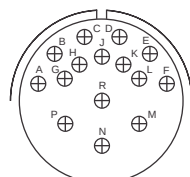
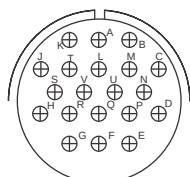
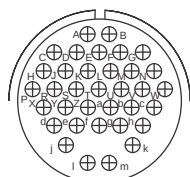
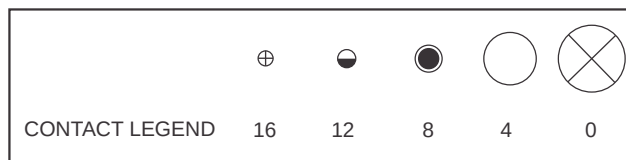


100° rotation  
of 28-12  
\*28-13  
A  
26  
16  
H

\*Not tooled up, can be tooled up on request. Contact Factory.

# Insert Arrangements

Front face of pin insert or rear of socket insert illustrated



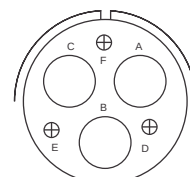
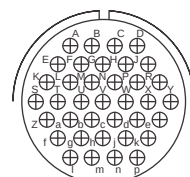
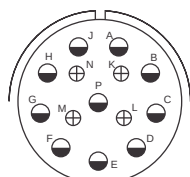
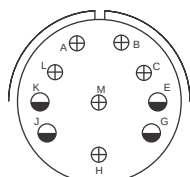
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

28-15  
A  
35  
16  
M

28-16  
A  
20  
16  
F

\*28-17  
R=B;M,N,P=D;A to L=A  
15  
16  
N

28-18  
M=C;G,H,J,K,L=D;A,B=ABal.=Inst.  
12  
16  
—



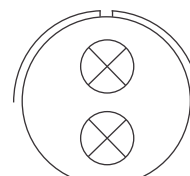
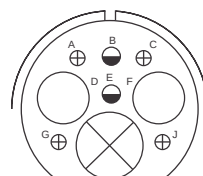
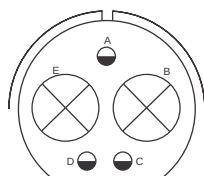
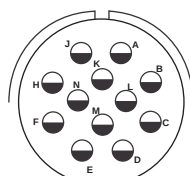
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

28-19  
H,M=B;A,B=D;Bal.=A  
4 6  
12 16  
H

28-20  
A  
10 4  
12 16  
E

28-21  
A  
37  
16  
A

28-22  
D  
3 3  
4 16  
—



Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

28-51  
D  
12  
12  
—

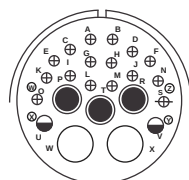
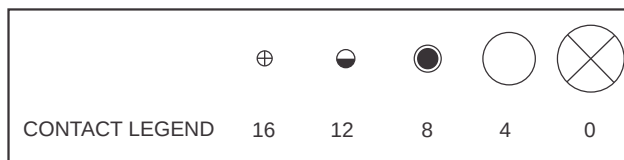
32-1  
A=E;B,C,D,E=A  
2 3  
0 12  
—

\*32-3  
D  
1 2 2 4  
0 4 12 16  
—

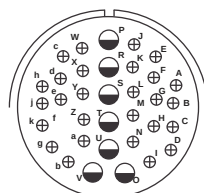
32-5  
D  
2  
0

\*Not tooled up, can be tooled up on request. Contact Factory.

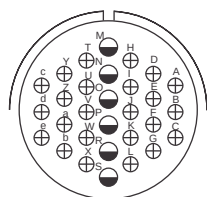
Front face of pin insert or rear of socket insert illustrated



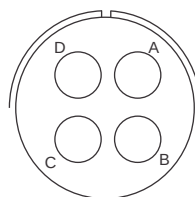
32-6  
A  
16 2 3 2  
16 12 8 4  
—



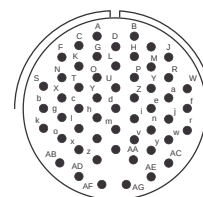
32-7  
INST , A  
4 24 7  
16 12  
—



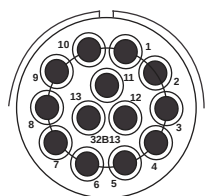
32-8  
A  
6 24  
12 16  
S



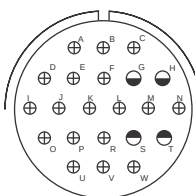
32-17  
D  
4  
4  
—



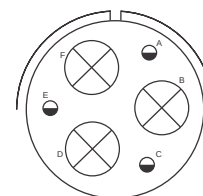
32-22  
A  
54  
16  
—



32B-13  
D  
13  
8  
—  
—



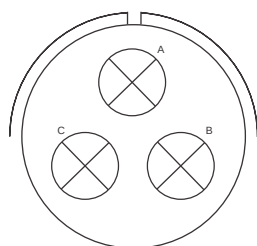
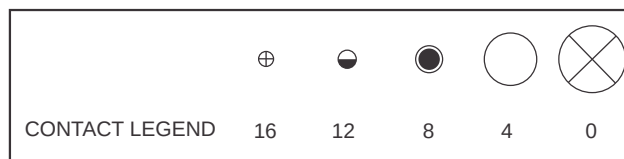
\*36-1  
D  
4 18  
12 16  
—



36-3  
D  
3 3  
0 12  
—

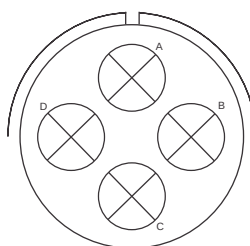
\*Not tooled up, can be tooled up on request. Contact Factory.

Front face of pin insert or rear of socket insert illustrated

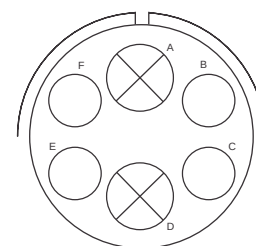


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

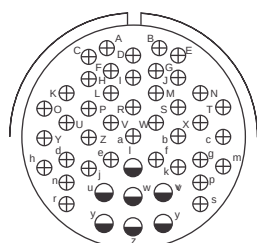
36-4  
A=D; B, C=A  
3  
0  
—



36-5  
A  
4  
0  
—

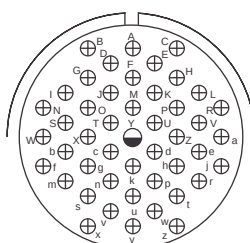


36-6  
A  
2 4  
0 4  
—

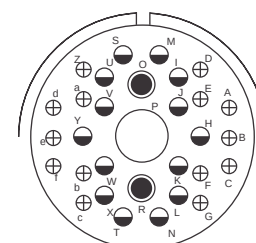


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

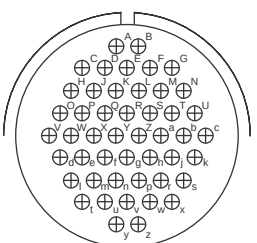
\*36-7  
A  
7 40  
12 16  
x or y



\*36-8  
A  
1 46  
12 16  
Y

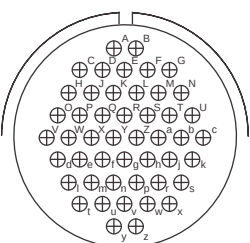


\*36-9  
A  
1 2 14 14  
4 8 12 16  
P

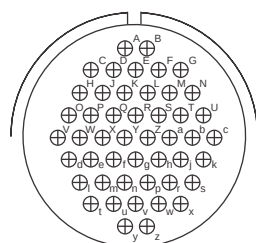


Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

36-10  
A  
48  
16  
A



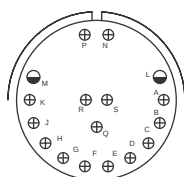
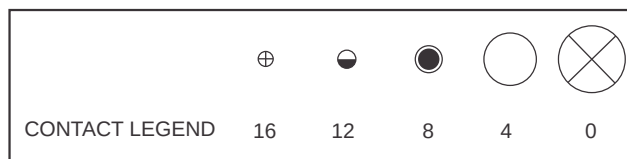
100° rotation  
of 36-10  
\*36-11  
A  
48  
16  
A



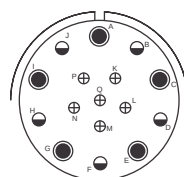
250° rotation  
of 36-10  
\*36-12  
A  
48  
16  
A

\*Not tooled up, can be tooled up on request. Contact Factory.

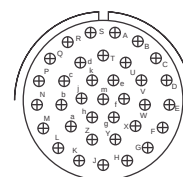
Front face of pin insert or rear of socket insert illustrated



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

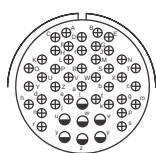


\*36-14  
D  
5 5 6  
8 12 16  
—

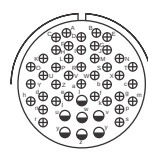


\*36-15  
M=D;Bal.=A  
35  
16  
J

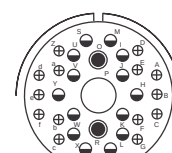
Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact



100°rotation  
of 36-7



250°rotation  
of 36-7



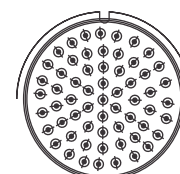
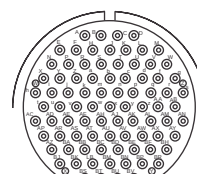
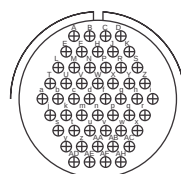
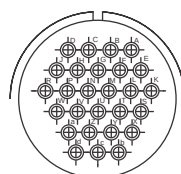
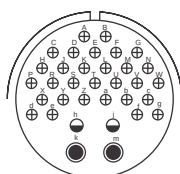
100°rotation  
of 36-9

Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

\*36-16  
A  
7 40  
12 16  
x or y

\*36-17  
A  
7 40  
12 16  
x or y

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



Insert arrangement  
Service rating  
Number of contacts  
Contact size  
Premating contact

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

36-46  
A  
27  
16  
—

36-52  
A  
52  
16  
—

40-56  
A  
85  
16  
—

40-63  
A  
61  
16  
—

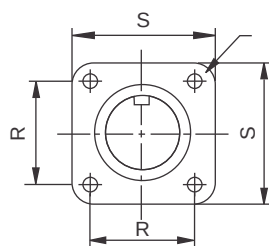
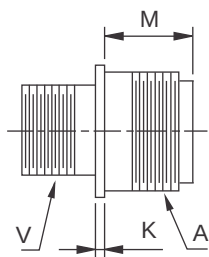
\*Not tooled up, can be tooled up on request. Contact Factory.

# MIL -C-5015

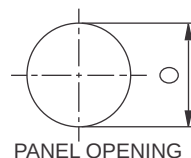


MS Threaded Version  
connector

## Wall mounting receptacle MS-3100 MS-4100



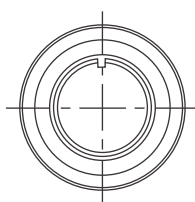
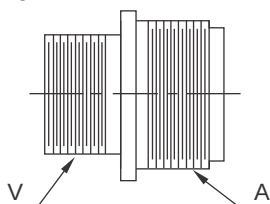
MOUNTING HOLES  
4.39 DIA. FOR SIZE 32 AND 36  
3.73 DIA. FOR SIZE 24 AND 28  
3.05 DIA. FOR ALL OTHER SIZES  
4.55 DIA. FOR 40 SIZE



All dimensions are in mm

| Connector Size | A Thread in inches | K    | M     | O     | R     | S     | V Thread in inches |
|----------------|--------------------|------|-------|-------|-------|-------|--------------------|
| 10SL           | 5/8-24 UNEF        | 1.98 | 14.29 | 20.62 | 18.25 | 25.68 | 5/8-24 NEF         |
| 12S            | 3/4-20 UNEF        | 1.98 | 14.29 | 20.62 | 20.64 | 27.76 | 11/16-24NEF        |
| 12             | 3/4-20 UNEF        | 1.98 | 19.05 | 20.62 | 20.64 | 27.76 | 11/16-24NEF        |
| 14S            | 7/8-20 UNEF        | 1.98 | 14.29 | 23.82 | 23.02 | 30.43 | 3/4-20 UNEF        |
| 14             | 7/8-20 UNEF        | 1.98 | 19.05 | 23.82 | 23.02 | 30.43 | 3/4-20 UNEF        |
| 16S            | 1-20 UNEF          | 1.98 | 14.29 | 26.97 | 24.61 | 32.82 | 7/8-20 UNEF        |
| 16             | 1-20 UNEF          | 3.17 | 19.05 | 26.97 | 24.61 | 32.82 | 7/8-20 UNEF        |
| 18             | 1 1/8-18 UNEF      | 3.17 | 19.05 | 30.17 | 26.99 | 35.07 | 1-20 UNEF          |
| 20             | 1 1/4-18 UNEF      | 3.17 | 19.05 | 33.32 | 29.37 | 38.38 | 1 1/8-18 NS        |
| 22             | 1 3/8-18 UNEF      | 3.17 | 19.05 | 36.52 | 31.75 | 41.55 | 1 1/4-18 NEF       |
| 24             | 1 1/2-18 UNEF      | 3.17 | 20.64 | 39.67 | 34.92 | 44.70 | 1 3/8-18 NEF       |
| 28             | 1 3/4-18 UNS       | 3.17 | 20.64 | 46.02 | 39.69 | 51.08 | 1 5/8-18 NEF       |
| 32             | 2.00-18 UNS        | 3.17 | 22.25 | 53.0  | 44.45 | 57.15 | 1 7/8-16UN         |
| 36             | 2 1/4-16 UN        | 3.17 | 22.22 | 58.72 | 49.21 | 63.78 | 2 1/16-16UN        |
| 40             | 2 1/2-16 UN        | 3.45 | 22.22 | 62.00 | 55.58 | 69.85 | 2 5/16-16 UN       |

## Cable Connecting Receptacle MS-3101 MS-4101

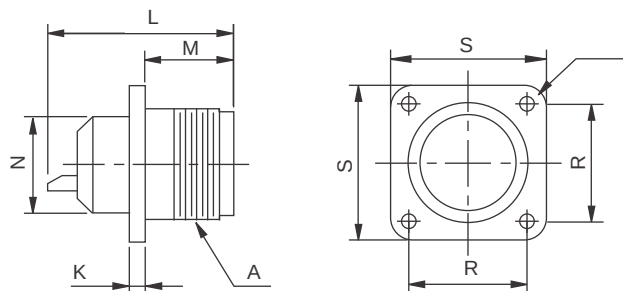


All dimensions are in mm

| Connector Size | A Thread in inches | V Thread in inches |
|----------------|--------------------|--------------------|
| 10SL           | 5/8-24 UNEF        | 5/8-24 NEF         |
| 12S            | 3/4-20 UNEF        | 11/16-24 NEF       |
| 12             | 3/4-20 UNEF        | 11/16-24 NEF       |
| 14S            | 7/8-20 UNEF        | 3/4-20 UNEF        |
| 14             | 7/8-20 UNEF        | 3/4-20 UNEF        |
| 16S            | 1-20 UNEF          | 7/8-20 UNEF        |
| 16             | 1-20 UNEF          | 7/8-20 UNEF        |
| 18             | 1 1/8-18 UNEF      | 1-20 UNEF          |
| 20             | 1 1/4-18 UNEF      | 1 1/8-18 NS        |
| 22             | 1 3/8-18 UNEF      | 1 1/4-18 NEF       |
| 24             | 1 1/2-18 UNEF      | 1 3/8-18 NEF       |
| 28             | 1 3/4-18 UNS       | 1 5/8-18 NEF       |
| 32             | 2-18 UNS           | 1 7/8-16UN         |
| 36             | 2 1/4-16 UN        | 2 1/16-16UN        |
| 40             | 2 1/2-16 UN        | 2 5/16-16 UN       |

## Box mounting receptacle

MS-3102 MS-4102



### MOUNTING HOLES

4.39 DIA. FOR SIZE 32 AND 36

3.73 DIA. FOR SIZE 24 AND 28

3.05 DIA. FOR ALL OTHER SIZES

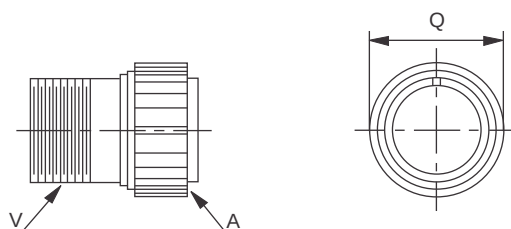
4.55 FOR 40 SIZE

All dimensions are in mm

| Connector Size | A Thread in inches | K    | L     | M     | N     | R     | S     |
|----------------|--------------------|------|-------|-------|-------|-------|-------|
| 10SL           | 5/8-24 UNEF        | 1.98 | 30.18 | 13.89 | 15.87 | 18.25 | 25.68 |
| 12S            | 3/4-20 UNEF        | 1.98 | 30.18 | 14.28 | 17.46 | 20.64 | 28.04 |
| 12             | 3/4-20 UNEF        | 1.98 | 41.28 | 19.05 | 17.46 | 20.64 | 28.04 |
| 14S            | 7/8-20 UNEF        | 1.98 | 30.18 | 14.28 | 19.05 | 23.02 | 30.43 |
| 14             | 7/8-20 UNEF        | 1.98 | 41.28 | 19.05 | 19.05 | 23.02 | 30.43 |
| 16S            | 1-20 UNEF          | 1.98 | 30.18 | 14.28 | 22.22 | 24.61 | 32.82 |
| 16             | 1-20 UNEF          | 3.17 | 41.28 | 19.05 | 22.22 | 24.61 | 32.82 |
| 18             | 1 1/8-18 UNEF      | 3.17 | 49.28 | 19.05 | 25.40 | 26.99 | 35.08 |
| 20             | 1 1/4-18 UNEF      | 3.17 | 49.28 | 19.05 | 28.57 | 29.37 | 38.38 |
| 22             | 1 3/8-18 UNEF      | 3.17 | 49.28 | 19.05 | 31.75 | 31.75 | 41.55 |
| 24             | 1 1/2-18 UNEF      | 3.17 | 49.28 | 20.64 | 34.92 | 34.92 | 44.73 |
| 28             | 1 3/4-18 UNS       | 3.17 | 49.28 | 20.64 | 41.27 | 39.69 | 51.08 |
| 32             | 2-18 UNS           | 3.17 | 49.28 | 22.22 | 48.26 | 44.45 | 57.15 |
| 36             | 2 1/4-16 UN        | 3.17 | 49.28 | 22.22 | 53.97 | 49.21 | 63.78 |
| 40             | 2 1/2-16 UN        | 3.45 | 49.28 | 22.22 | 58.25 | 55.58 | 69.85 |

## Straight Plug

MS-3106 MS-4106

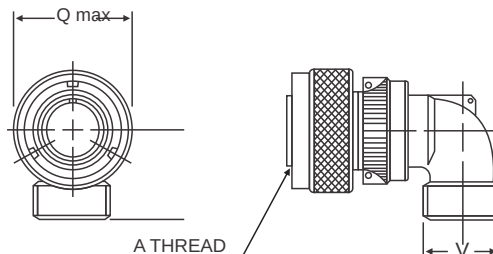


All dimensions are in mm

| Connector Size | A Thread in inches | Q max | V Thread in inches |
|----------------|--------------------|-------|--------------------|
| 10SL           | 5/8-24 UNEF        | 19.05 | 5/8-24 NEF         |
| 12S            | 3/4-20 UNEF        | 19.84 | 11/16-24NEF        |
| 12             | 3/4-20 UNEF        | 19.84 | 11/16-24NEF        |
| 14S            | 7/8-20 UNEF        | 22.22 | 3/4-20 UNEF        |
| 14             | 7/8-20 UNEF        | 22.22 | 3/4-20 UNEF        |
| 16S            | 1-20 UNEF          | 25.40 | 7/8-20 UNEF        |
| 16             | 1-20 UNEF          | 25.40 | 7/8-20 UNEF        |
| 18             | 1 1/8-18 UNEF      | 28.57 | 1-20 UNEF          |
| 20             | 1 1/4-18 UNEF      | 31.75 | 1 1/8-18 NS        |
| 22             | 1 3/8-18 UNEF      | 34.92 | 1 1/4-18 NEF       |
| 24             | 1 1/2-18 UNEF      | 38.10 | 1 3/8-18 NEF       |
| 28             | 1 3/4-18 UNS       | 44.45 | 1 5/8-18 NEF       |
| 32             | 2-18 UNS           | 51.75 | 1 7/8-16UN         |
| 36             | 2 1/4-16 UN        | 57.15 | 2 1/16-16UN        |
| 40             | 2 1/2-16 UN        | 63.50 | 2 5/16-20 UN       |

Note - Both versions, straight and diamond knurling available on coupling ring. For details, contact factory.

## Right angle plug MS-3108 MS-4108

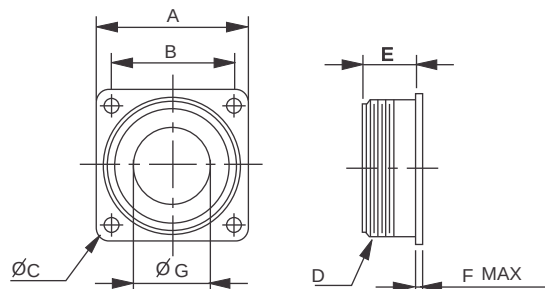


All dimensions are in mm

| Connector Size | A Thread in inches | Q max | V Thread in inches |
|----------------|--------------------|-------|--------------------|
| 10SL           | 5/8-24 UNEF        | 19.05 | 5/8-24 NEF         |
| 12S            | 3/4-20 UNEF        | 19.84 | 11/16-24 NEF       |
| 12             | 3/4-20 UNEF        | 19.84 | 11/16-24 NEF       |
| 14S            | 7/8-20 UNEF        | 22.22 | 3/4-20 UNEF        |
| 14             | 7/8-20 UNEF        | 22.22 | 3/4-20 UNEF        |
| 16S            | 1-20 UNEF          | 25.40 | 7/8-20 UNEF        |
| 16             | 1-20 UNEF          | 25.40 | 7/8-20 UNEF        |
| 18             | 1 1/8-18 UNEF      | 28.57 | 1-20 UNEF          |
| 20             | 1 1/4-18 UNEF      | 31.75 | 1 1/8-18 NS        |
| 22             | 1 3/8-18 UNEF      | 34.92 | 1 1/4-18 NEF       |
| 24             | 1 1/2-18 UNEF      | 38.10 | 1 3/8-18 NEF       |
| 28             | 1 3/4-18 UNS       | 44.45 | 1 5/8-18 NEF       |
| 32             | 2-18 UNS           | 51.75 | 1 29/32-18 NS      |
| 36             | 2 1/4-16 NS        | 57.15 | 2 1/16-20 UNS      |
| 40             | 2 1/2-16 UN        | 63.50 | 2 5/16-16 UN       |

Note - Both versions, straight and diamond knurling available on coupling ring. For details, contact factory.

## Other Accessories Dummy receptacle MS-3105



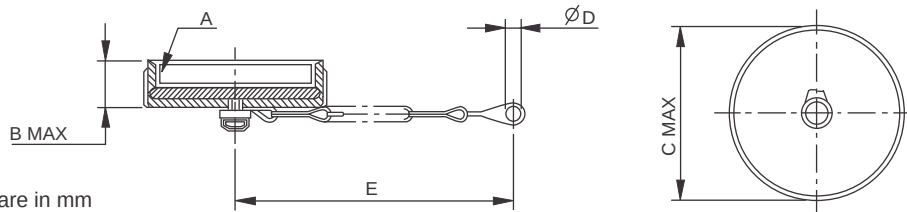
All dimensions are in mm

| Part number (see note) | A     | B     | C    | D Thread in inches | E     | F max. | G     |
|------------------------|-------|-------|------|--------------------|-------|--------|-------|
| MS-3105-10S            | 25.4  | 18.26 | 3.05 | 5/8-24             | 14.27 | 3.96   | 8.20  |
| MS-3105-12S            | 27.79 | 20.62 | 3.05 | 3/4-20             | 14.27 | 3.96   | 11.43 |
| MS-3105-12             | 27.79 | 20.62 | 3.05 | 3/4-20             | 19.05 | 3.96   | 11.43 |
| MS-3105-14S            | 30.17 | 23.01 | 3.05 | 7/8-20             | 14.27 | 3.96   | 13.36 |
| MS-3105-14             | 30.17 | 23.01 | 3.05 | 7/8-20             | 19.05 | 3.96   | 13.36 |
| MS-3105-16S            | 32.54 | 24.61 | 3.05 | 1-20               | 14.27 | 3.96   | 16.41 |
| MS-3105-16             | 32.54 | 24.61 | 3.05 | 1-20               | 19.05 | 3.96   | 16.41 |
| MS-3105-18             | 34.92 | 26.97 | 3.05 | 1 1/8-18           | 19.05 | 5.16   | 18.03 |
| MS-3105-20             | 38.10 | 29.36 | 3.05 | 1 1/4-18           | 19.05 | 5.16   | 23.54 |
| MS-3105-22             | 41.27 | 31.75 | 3.05 | 1 3/8-18           | 19.05 | 5.16   | 25.93 |
| MS-3105-24             | 44.45 | 34.92 | 3.73 | 1 1/2-18           | 20.62 | 5.16   | 29.21 |
| MS-3105-28             | 50.8  | 39.67 | 3.73 | 1 3/4-18           | 20.62 | 5.16   | 34.67 |
| MS-3105-36             | 63.5  | 49.22 | 4.39 | 2 1/4-16           | 22.2  | 9.11   | 46.56 |

Note: The dash number also indicates shell size.

**MS-25043**

**For receptacles** Has internal threads and is used on all receptacles. Gasket is provided in the dust cap forming a watertight seal.



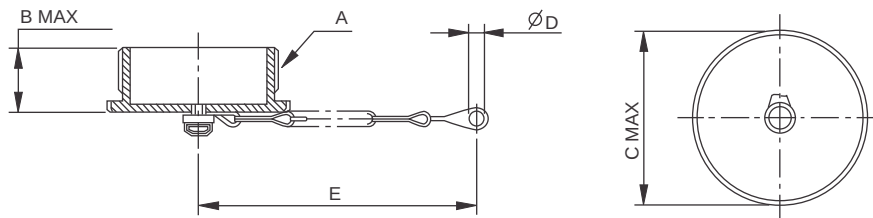
All dimensions are in mm

| MS Part number | Shell size  | A Thread in inches | B     | C    | D   | E   |
|----------------|-------------|--------------------|-------|------|-----|-----|
| MS 25043-10D   | MS 10S-1-SL | 5/8-24             | 11.11 | 20.7 | 3.6 | 102 |
| MS 25043-12D   | MS 12-12S   | 3/4- 20            | 11.11 | 25.4 | 3.6 | 115 |
| MS 25043-14D   | MS 14-14S   | 7/8-20             | 11.11 | 28.6 | 3.6 | 115 |
| MS 25043-16D   | MS 16-16S   | 1-20               | 11.11 | 30.2 | 3.6 | 115 |
| MS 25043-18D   | MS 18       | 1 1/8-18           | 11.11 | 34.1 | 3.6 | 115 |
| MS 25043-20D   | MS 20       | 1 1/4-18           | 11.11 | 37.3 | 4.4 | 127 |
| MS 25043-22D   | MS 22       | 1 3/8-18           | 11.11 | 40.4 | 4.4 | 127 |
| MS 25043-24D   | MS 24       | 1 1/2-18           | 11.11 | 43.6 | 4.4 | 140 |
| MS 25043-28D   | MS 28       | 1 3/4-18           | 12.7  | 50   | 4.4 | 197 |
| MS 25043-32D   | MS 32       | 2-18               | 12.7  | 56.3 | 4.8 | 197 |
| MS 25043-36D   | MS 36       | 2 1/4-18           | 12.7  | 62.7 | 4.8 | 197 |
| MS 25043-40D   | MS 40       | 2 1/2-16           | 12.7  | 69   | 4.8 | 197 |

- Notes :**
1. For protective caps with nylon cord, contact factory.
  2. Standard - Plating is Cad. For alternative finishes, contact factory.
  3. Standard - straight knurling. For diamond knurling on caps, contact factory.
  4. Please add 07 suffix for bigger end link.

**Other Accessories****Protective cap for MS series****MS-25042**

**For plugs** Has external threads and is used on all plugs where a coupling ring is provided.



All dimensions are in mm

| MS Part number | Shell size  | A Thread in inches | B     | C    | D   | E   |
|----------------|-------------|--------------------|-------|------|-----|-----|
| MS 25042-10D   | MS 10S-1-SL | 5/8-24             | 16.67 | 17.4 | 4   | 102 |
| MS 25042-12D   | MS 12-12S   | 3/4- 20            | 21.4  | 20.6 | 4   | 115 |
| MS 25042-14D   | MS 14-14S   | 7/8-20             | 21.4  | 23.7 | 4   | 115 |
| MS 25042-16D   | MS 16-16S   | 1-20               | 21.4  | 26.9 | 4   | 115 |
| MS 25042-18D   | MS 18       | 1 1/8-18           | 21.4  | 30   | 4   | 115 |
| MS 25042-20D   | MS 20       | 1 1/4-18           | 21.4  | 33   | 4.8 | 127 |
| MS 25042-22D   | MS 22       | 1 3/8-18           | 21.4  | 36.4 | 4.8 | 127 |
| MS 25042-24D   | MS 24       | 1 1/2-18           | 21.4  | 39.6 | 4.8 | 140 |
| MS 25042-28D   | MS 28       | 1 3/4-18           | 21.4  | 46   | 4.8 | 197 |
| MS 25042-32D   | MS 32       | 2-18               | 21.4  | 52   | 5.6 | 197 |
| MS 25042-36D   | MS 36       | 2 1/4-18           | 21.4  | 58.7 | 5.6 | 197 |
| MS 25042-40D   | MS 40       | 2 1/2-16           | 21.4  | 65   | 5.6 | 197 |

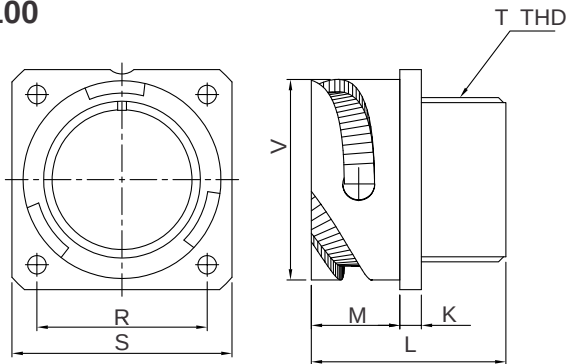
# MIL -C-5015



97B Series Bayonet Version  
connector

## Wall mounting receptacle

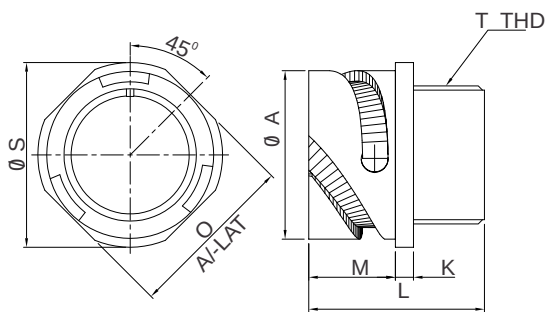
100



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX | PG THD         |
|------------|-------------------|--------------|--------------------|-------|--------------|------------|----------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 18.20 | 25.40        | 27.60      | 5/8"-24 UNEF   |
| 12S        | 21.40             | 3.20         | 14.20              | 20.60 | 28.00        | 27.60      | 5/8"-24 UNEF   |
| 14S        | 24.61             | 3.20         | 14.20              | 23.00 | 30.00        | 27.60      | 3/4"-24 UNEF   |
| 16S        | 27.41             | 3.20         | 14.20              | 24.60 | 32.50        | 27.60      | 7/8"-24 UNEF   |
| 16         | 27.41             | 3.20         | 19.00              | 24.60 | 32.50        | 33.80      | 7/8"-24 UNEF   |
| 18         | 30.81             | 3.99         | 19.00              | 27.00 | 35.00        | 33.80      | 1"-20 UNEF     |
| 20         | 34.19             | 3.99         | 19.00              | 29.40 | 38.00        | 33.80      | 1 1/8"-18 UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 41.00        | 33.80      | 1 1/8"-18 UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 34.90 | 44.00        | 35.70      | 1 3/8"-18 UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 39.70 | 50.80        | 35.70      | 1 5/8"-18 UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 44.50 | 57.00        | 37.30      | 1 7/8"-16 UN   |
| 36         | 59.59             | 3.99         | 22.20              | 49.20 | 63.50        | 37.30      | 2 1/16"-16 UN  |

## Cable connecting receptacle

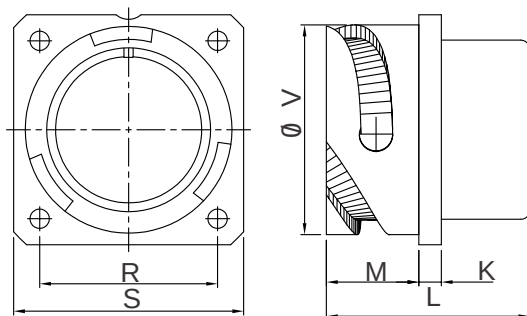
101



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'Q'<br>+0.20 | 'S'<br>±0.20 | 'L'<br>MAX | T<br>-2A THD   |
|------------|-------------------|--------------|--------------------|--------------|--------------|------------|----------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 20.60        | 25.00        | 27.60      | 5/8"-24 UNEF   |
| 12S        | 21.40             | 3.20         | 14.20              | 23.60        | 27.60        | 27.60      | 5/8"-24 UNEF   |
| 14S        | 24.61             | 3.20         | 14.20              | 25.40        | 29.60        | 27.60      | 3/4"-24 UNEF   |
| 16S        | 27.41             | 3.20         | 14.20              | 28.60        | 32.10        | 27.60      | 7/8"-24 UNEF   |
| 16         | 27.41             | 3.20         | 19.00              | 28.60        | 32.10        | 33.80      | 7/8"-24 UNEF   |
| 18         | 30.81             | 3.99         | 19.00              | 31.70        | 34.60        | 33.80      | 1"-20 UNEF     |
| 20         | 34.19             | 3.99         | 19.00              | 34.90        | 37.60        | 33.80      | 1 1/8"-18 UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.70        | 40.90        | 33.80      | 1 1/4"-18 UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 41.30        | 44.40        | 35.70      | 1 3/8"-18 UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 47.60        | 50.70        | 35.70      | 1 5/8"-18 UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 54.00        | 56.90        | 37.30      | 1 7/8"-16 UN   |
| 36         | 59.59             | 3.99         | 22.20              | 60.60        | 63.40        | 37.30      | 2 1/16"-16 UN  |

## Box mounting receptacle

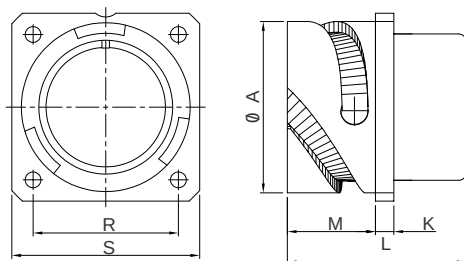
102



| SHELL SIZE | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 -0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX. |
|------------|-------------------|--------------|-------------------|-------|--------------|-------------|
| 10SL       | 18.21             | 2.79         | 14.20             | 18.20 | 25.40        | 24.70       |
| 12S        | 21.40             | 3.20         | 14.20             | 20.60 | 28.00        | 27.60       |
| 14S        | 24.61             | 3.20         | 14.20             | 23.00 | 30.00        | 24.70       |
| 16S        | 27.41             | 3.20         | 14.20             | 24.60 | 32.50        | 24.70       |
| 16         | 27.41             | 3.20         | 19.00             | 24.60 | 32.50        | 33.80       |
| 18         | 30.81             | 3.99         | 19.00             | 27.00 | 35.00        | 33.80       |
| 20         | 34.19             | 3.99         | 19.00             | 29.40 | 38.00        | 33.80       |
| 22         | 37.39             | 3.99         | 19.00             | 31.80 | 41.00        | 33.80       |
| 24         | 40.89             | 3.99         | 20.60             | 34.90 | 44.50        | 35.70       |
| 28         | 46.71             | 3.99         | 20.60             | 39.70 | 50.80        | 35.70       |
| 32         | 53.39             | 3.99         | 22.20             | 44.50 | 57.00        | 37.30       |
| 36         | 59.59             | 3.99         | 22.20             | 49.20 | 63.50        | 37.30       |

## Rear mounting Receptacle

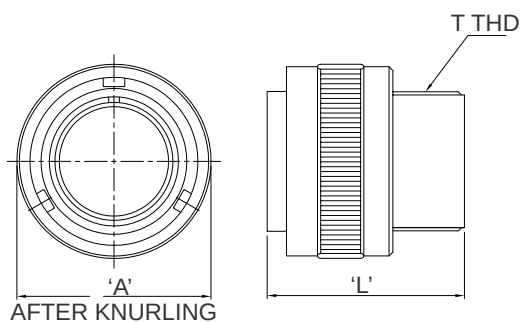
103



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'<br>±0.20 | 'S'<br>±0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 18.20                | 18.20        | 25.40        | 27.60       |
| 12S        | 21.40                | 3.20         | 18.20                | 20.60        | 28.00        | 27.60       |
| 14S        | 24.61                | 3.20         | 18.20                | 23.00        | 30.00        | 27.60       |
| 16S        | 27.41                | 3.20         | 18.20                | 24.60        | 32.50        | 27.60       |
| 16         | 27.41                | 3.20         | 23.05                | 24.60        | 32.50        | 33.80       |
| 18         | 30.81                | 3.99         | 23.05                | 27.00        | 35.00        | 33.80       |
| 20         | 34.19                | 3.99         | 23.05                | 29.40        | 38.00        | 33.80       |
| 22         | 37.39                | 3.99         | 23.05                | 31.80        | 41.00        | 33.80       |
| 24         | 40.89                | 3.99         | 23.05                | 34.90        | 44.50        | 35.70       |
| 28         | 46.71                | 3.99         | 24.05                | 39.70        | 50.80        | 35.70       |
| 32         | 53.39                | 3.99         | 24.05                | 44.50        | 57.00        | 37.30       |
| 36         | 59.59                | 3.99         | 24.05                | 49.20        | 63.50        | 37.30       |

## Plug connector

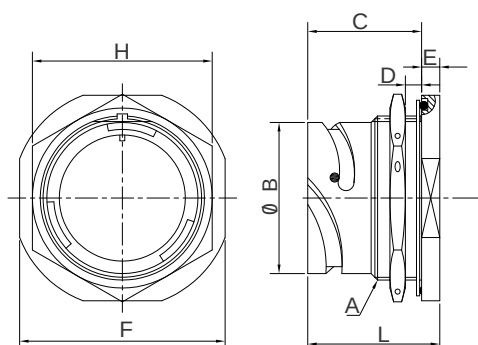
106



| SHELL SIZE | 'A'<br>MAX. | 'L'<br>MAX | 'T'<br>- 2A THD |
|------------|-------------|------------|-----------------|
| 10SL       | 22.80       | 56.00      | 5/8"-24 UNEF    |
| 12S        | 25.60       | 56.00      | 5/8"-24 UNEF    |
| 14S        | 29.20       | 54.00      | 3/4"-24 UNEF    |
| 16S        | 32.00       | 56.00      | 7/8"-24 UNEF    |
| 16         | 32.00       | 67.00      | 7/8"-24 UNEF    |
| 18         | 36.50       | 74.00      | 1"-20 UNEF      |
| 20         | 39.90       | 75.00      | 1 1/8"-18 UNEF  |
| 22         | 43.10       | 78.00      | 1 1/4"-18 UNEF  |
| 24         | 46.60       | 78.00      | 1 3/8"-18 UNEF  |
| 28         | 53.40       | 82.00      | 1 5/8"-18 UNEF  |
| 32         | 60.10       | 82.00      | 1 7/8"-18 UN    |
| 36         | 66.30       | 90.00      | 2 1/16"-16 UN   |

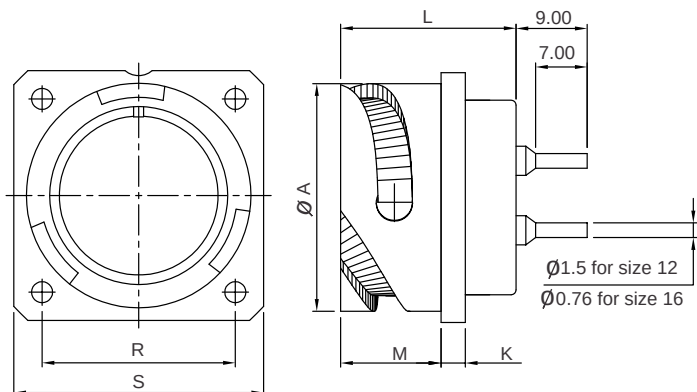
## Jam Nut Receptacles

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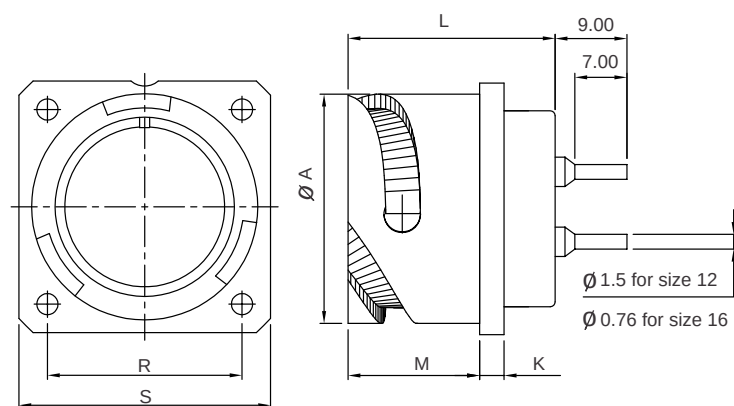
| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 27.70 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 30.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 30.00 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 35.30 |
| 18         | 1" 3/8- 18 UNEF  | 30.80              | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 37.70 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 37.70 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 37.70 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 37.70 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 35.20 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 35.20 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 35.20 |

## Box mount Receptacle with PC Tail contacts



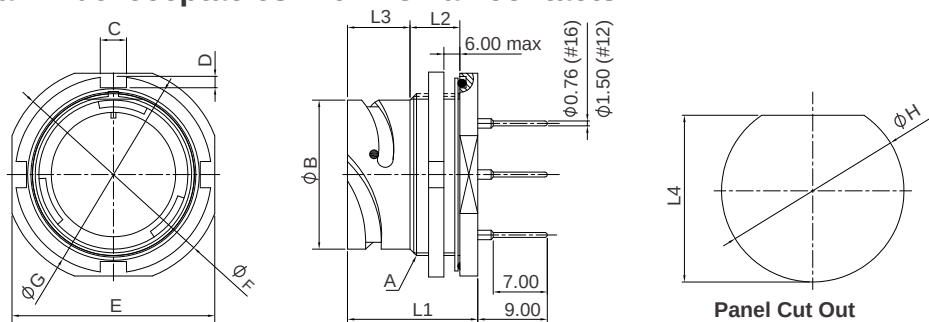
| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>±0.20 |
|------------|-------------------|--------------|--------------------|-------|--------------|--------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 18.20 | 25.40        | 24.70        |
| 12S        | 21.40             | 3.20         | 14.20              | 20.60 | 28.00        | 24.70        |
| 14S        | 24.61             | 3.20         | 14.20              | 23.00 | 30.00        | 24.70        |
| 16S        | 27.41             | 3.20         | 14.20              | 24.60 | 32.50        | 24.70        |
| 6          | 27.41             | 3.20         | 19.00              | 24.60 | 32.50        | 33.80        |
| 18         | 30.81             | 3.99         | 19.00              | 27.00 | 35.00        | 33.80        |
| 20         | 34.19             | 3.99         | 19.00              | 29.40 | 38.00        | 33.80        |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 41.00        | 33.80        |
| 24         | 40.89             | 3.99         | 20.60              | 34.90 | 44.50        | 33.80        |
| 28         | 46.71             | 3.99         | 20.60              | 39.70 | 50.80        | 33.80        |
| 32         | 53.39             | 3.99         | 22.20              | 44.50 | 57.00        | 33.80        |
| 36         | 59.59             | 3.99         | 22.20              | 49.20 | 63.50        | 33.80        |
| 40         | 65.51             | 3.99         | 22.20              | 55.50 | 69.90        | 33.80        |

## Rear Mount Receptacle with PC Tail contacts



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>±0.20 |
|------------|-------------------|--------------|--------------------|-------|--------------|--------------|
| 10SL       | 18.21             | 2.79         | 18.20              | 18.20 | 25.40        | 24.70        |
| 12S        | 21.40             | 3.20         | 18.20              | 20.60 | 28.00        | 24.70        |
| 14S        | 24.61             | 3.20         | 18.20              | 23.00 | 30.00        | 24.70        |
| 16S        | 27.41             | 3.20         | 18.20              | 24.60 | 32.50        | 24.70        |
| 6          | 27.41             | 3.20         | 23.05              | 24.60 | 32.50        | 33.80        |
| 18         | 30.81             | 3.99         | 23.05              | 27.00 | 35.00        | 33.80        |
| 20         | 34.19             | 3.99         | 23.05              | 29.40 | 38.00        | 33.80        |
| 22         | 37.39             | 3.99         | 23.05              | 31.80 | 41.00        | 33.80        |
| 24         | 40.89             | 3.99         | 23.05              | 34.90 | 44.50        | 33.80        |
| 28         | 46.71             | 3.99         | 24.05              | 39.70 | 50.80        | 33.80        |
| 32         | 53.39             | 3.99         | 24.05              | 44.50 | 57.00        | 33.80        |
| 36         | 59.59             | 3.99         | 24.05              | 49.20 | 63.50        | 33.80        |
| 40         | 65.51             | 3.99         | 24.05              | 55.50 | 69.90        | 33.80        |

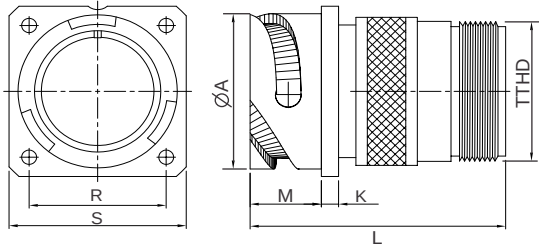
## Jam Nut receptacles with PC Tail contacts



| Shell Size | 'A'<br>-2A Threads | 'B'<br>+0.00 - 0.15 | 'C'  | 'D'  | 'E'   | F     | G     | H     | L1    | L2    | L3    | L4    |
|------------|--------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10SL       | 7/8"-20UNEF        | 18.20               | 5.00 | 2.50 | 31.80 | 35.00 | 31.50 | 22.70 | 29.20 | 13.50 | 12.50 | 20.90 |
| 14S        | 1" 1/8-18UNEF      | 24.60               | 6.00 | 2.50 | 38.10 | 41.30 | 37.90 | 28.80 | 29.20 | 13.50 | 12.50 | 27.20 |
| 16S        | 1" 1/4-18UNEF      | 27.40               | 6.00 | 2.50 | 41.20 | 44.40 | 41.00 | 32.00 | 29.20 | 13.50 | 12.50 | 30.40 |
| 16         | 1" 1/4-18UNEF      | 27.40               | 6.00 | 2.50 | 41.20 | 44.40 | 41.00 | 32.00 | 37.70 | 13.50 | 21.00 | 30.40 |
| 18         | 1" 3/8-18UNEF      | 30.80               | 7.00 | 3.00 | 45.00 | 48.20 | 44.80 | 35.10 | 40.00 | 15.00 | 21.00 | 33.60 |
| 20         | 1" 1/2-18UNEF      | 34.20               | 7.00 | 3.00 | 49.20 | 52.40 | 49.00 | 38.20 | 40.00 | 15.00 | 21.00 | 36.80 |
| 22         | 1" 5/8-18UNEF      | 37.40               | 7.00 | 3.00 | 52.40 | 55.50 | 52.20 | 42.00 | 40.00 | 15.00 | 21.00 | 39.90 |
| 24         | 1" 3/4-18UNS       | 40.90               | 7.00 | 3.00 | 55.20 | 59.00 | 55.00 | 44.70 | 40.00 | 15.00 | 21.00 | 43.10 |
| 28         | 2"-18UNS           | 46.70               | 7.00 | 3.00 | 62.20 | 66.00 | 62.00 | 51.10 | 40.00 | 15.00 | 21.00 | 49.20 |
| 32         | 2" 1/4-16UN        | 53.40               | 7.00 | 3.00 | 68.20 | 72.00 | 68.00 | 57.40 | 40.00 | 15.00 | 21.00 | 55.70 |
| 36         | 2" 1/2-16UN        | 59.60               | 8.00 | 3.00 | 75.20 | 80.00 | 75.00 | 63.80 | 40.00 | 15.00 | 21.00 | 62.00 |
| 40         | 2" 3/4-16 UN       | 65.50               | 8.00 | 3.00 | 82.20 | 87.00 | 82.00 | 70.20 | 40.00 | 15.00 | 21.00 | 68.50 |

## Wall Mount Receptacle with A type Solid B/S

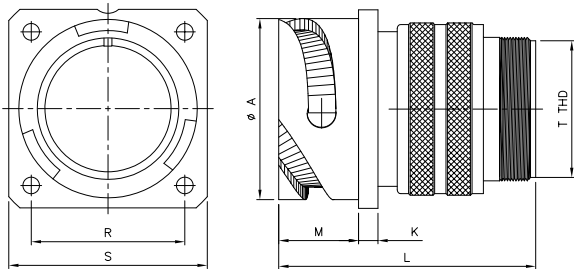
### 100A



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX | 'T'<br>THD    |
|------------|-------------------|--------------|--------------------|-------|--------------|------------|---------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 18.20 | 25.40        | 45.00      | 5/8-24 UNEF   |
| 12S        | 21.40             | 3.20         | 14.20              | 20.60 | 28.00        | 45.00      | 5/8-24 UNEF   |
| 14S        | 24.61             | 3.20         | 14.20              | 23.00 | 30.00        | 48.00      | 3/4-20 UNEF   |
| 16S        | 27.41             | 3.20         | 14.20              | 24.60 | 32.50        | 48.00      | 7/8-20 UNEF   |
| 6          | 27.41             | 3.20         | 19.00              | 24.60 | 32.50        | 55.00      | 7/8-20 UNEF   |
| 18         | 30.81             | 3.99         | 19.00              | 27.00 | 35.00        | 60.00      | 1-20 UNEF     |
| 20         | 34.19             | 3.99         | 19.00              | 29.40 | 38.00        | 65.00      | 1 3/16-18UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 41.00        | 65.00      | 1 3/16-18UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 34.90 | 44.50        | 68.00      | 1 7/16-18UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 39.70 | 50.80        | 68.00      | 1 7/16-18UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 44.50 | 57.00        | 70.00      | 1 3/4-18UNS   |
| 36         | 59.59             | 3.99         | 22.20              | 49.20 | 63.50        | 70.00      | 2-18 UNS      |

## Wall Mount Receptacle with A type solid B/S & Environmental sealing Grommet

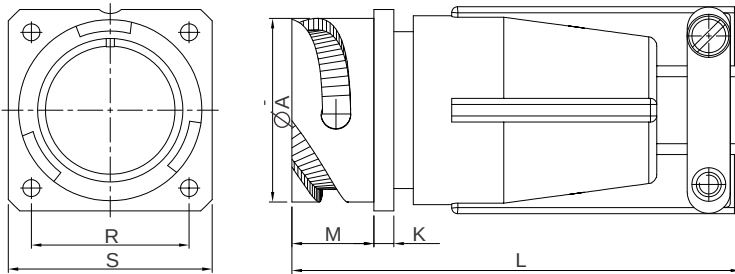
### 100AG



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX | 'T'<br>THD    |
|------------|-------------------|--------------|--------------------|-------|--------------|------------|---------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 18.20 | 25.40        | 68.60      | 5/8-24 UNEF   |
| 12S        | 21.40             | 3.20         | 14.20              | 20.60 | 28.00        | 68.60      | 5/8-24 UNEF   |
| 14S        | 24.61             | 3.20         | 14.20              | 23.00 | 30.00        | 68.60      | 3/4-20 UNEF   |
| 16S        | 27.41             | 3.20         | 14.20              | 24.60 | 32.50        | 68.60      | 7/8-20 UNEF   |
| 6          | 27.41             | 3.20         | 19.00              | 24.60 | 32.50        | 75.00      | 7/8-20 UNEF   |
| 18         | 30.81             | 3.99         | 19.00              | 27.00 | 35.00        | 75.00      | 1-20 UNEF     |
| 20         | 34.19             | 3.99         | 19.00              | 29.40 | 38.00        | 75.00      | 1 3/16-18UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 41.00        | 75.00      | 1 3/16-18UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 34.90 | 44.50        | 77.00      | 1 7/16-18UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 39.70 | 50.80        | 77.00      | 1 7/16-18UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 44.50 | 57.00        | 80.00      | 1 3/4-18UNS   |
| 36         | 59.59             | 3.99         | 22.20              | 49.20 | 63.50        | 80.00      | 2-18 UNS      |

## Wall Mount Receptacle with F type Strain Relief B/S & Environmental sealing Grommet

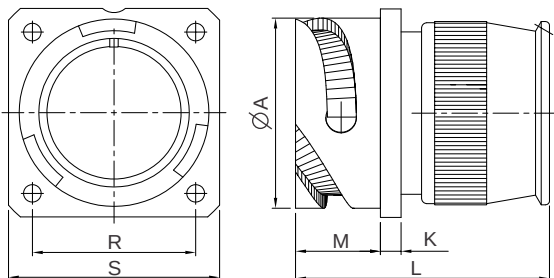
### 100F



| SHELL SIZE | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 -0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX. |
|------------|-------------------|--------------|-------------------|-------|--------------|-------------|
| 10SL       | 18.21             | 2.79         | 14.20             | 18.20 | 25.40        | 60.00       |
| 12S        | 21.40             | 3.20         | 14.20             | 20.60 | 28.00        | 60.00       |
| 14S        | 24.61             | 3.20         | 14.20             | 23.00 | 30.00        | 61.00       |
| 16S        | 27.41             | 3.20         | 14.20             | 24.60 | 32.50        | 61.00       |
| 16         | 27.41             | 3.20         | 19.00             | 24.60 | 32.50        | 68.00       |
| 18         | 30.81             | 3.99         | 19.00             | 27.00 | 35.00        | 72.00       |
| 20         | 34.19             | 3.99         | 19.00             | 29.40 | 38.00        | 74.00       |
| 22         | 37.39             | 3.99         | 19.00             | 31.80 | 41.00        | 74.00       |
| 24         | 40.89             | 3.99         | 20.60             | 34.90 | 44.50        | 78.00       |
| 28         | 46.71             | 3.99         | 20.60             | 39.70 | 50.80        | 78.00       |
| 32         | 53.39             | 3.99         | 22.20             | 44.50 | 57.00        | 82.00       |
| 36         | 59.59             | 3.99         | 22.20             | 49.20 | 63.50        | 82.00       |

## Wall Mount Receptacle with R type B/S & Environmental sealing Grommet

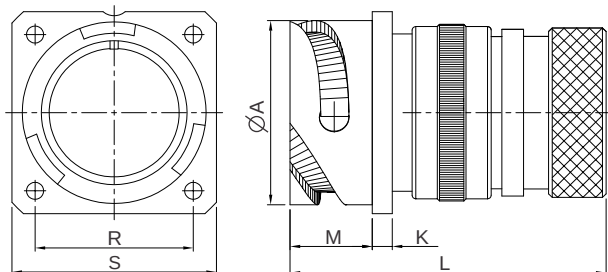
### 100R



| SHELL SIZE | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 -0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX. |
|------------|-------------------|--------------|-------------------|-------|--------------|-------------|
| 10SL       | 18.21             | 2.79         | 14.20             | 18.20 | 25.40        | 47.00       |
| 12S        | 21.40             | 3.20         | 14.20             | 20.60 | 28.00        | 47.00       |
| 14S        | 24.61             | 3.20         | 14.20             | 23.00 | 30.00        | 47.00       |
| 16S        | 27.41             | 3.20         | 14.20             | 24.60 | 32.50        | 48.00       |
| 16         | 27.41             | 3.20         | 19.00             | 24.60 | 32.50        | 54.40       |
| 18         | 30.81             | 3.99         | 19.00             | 27.00 | 35.00        | 56.40       |
| 20         | 34.19             | 3.99         | 19.00             | 29.40 | 38.00        | 56.40       |
| 22         | 37.39             | 3.99         | 19.00             | 31.80 | 41.00        | 56.40       |
| 24         | 40.89             | 3.99         | 20.60             | 34.90 | 44.50        | 57.40       |
| 28         | 46.71             | 3.99         | 20.60             | 39.70 | 50.80        | 57.40       |
| 32         | 53.39             | 3.99         | 22.20             | 44.50 | 57.00        | 58.10       |
| 36         | 59.59             | 3.99         | 22.20             | 49.20 | 63.50        | 58.10       |

## Wall Mount Receptacle with G type B/S for heatshrinkable & Environmental sealing Grommet

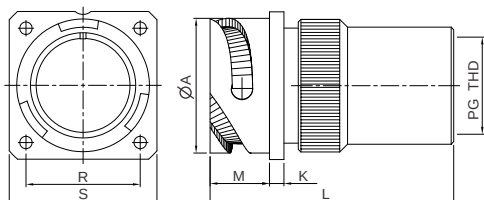
### 100G



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|-------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 18.20 | 25.40        | 52.50       |
| 12S        | 21.40                | 3.20         | 14.20                | 20.60 | 28.00        | 52.50       |
| 14S        | 24.61                | 3.20         | 14.20                | 23.00 | 30.00        | 54.40       |
| 16S        | 27.41                | 3.20         | 14.20                | 24.60 | 32.50        | 54.40       |
| 16         | 27.41                | 3.20         | 19.00                | 24.60 | 32.50        | 61.00       |
| 18         | 30.81                | 3.99         | 19.00                | 27.00 | 35.00        | 62.00       |
| 20         | 34.19                | 3.99         | 19.00                | 29.40 | 38.00        | 62.00       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80 | 41.00        | 65.00       |
| 24         | 40.89                | 3.99         | 20.60                | 34.90 | 44.50        | 65.00       |
| 28         | 46.71                | 3.99         | 20.60                | 39.70 | 50.80        | 66.00       |
| 32         | 53.39                | 3.99         | 22.20                | 44.50 | 57.00        | 71.00       |
| 36         | 59.59                | 3.99         | 22.20                | 49.20 | 63.50        | 75.00       |

## Wall Mount Receptacle with PG threaded type B/S suitable for PG Glands

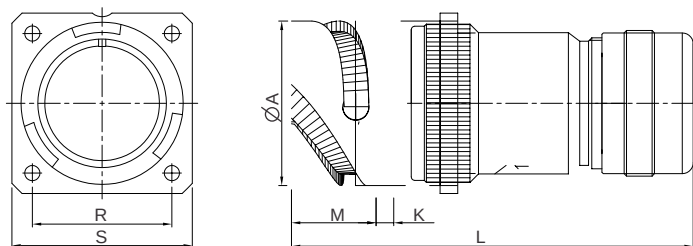
### 100PG



| Shell Size | 'A'<br>+0.0 - 0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>±0.20 | 'L'<br>MAX | PG THD           |
|------------|--------------------|--------------|--------------------|-------|--------------|------------|------------------|
| 10SL       | 18.21              | 2.79         | 14.20              | 18.20 | 25.40        | 56.00      | 7, 9, 11         |
| 12s        | 21.40              | 3.20         | 14.20              | 20.60 | 28.00        | 56.00      | 7, 9, 11         |
| 14S        | 24.61              | 3.20         | 14.20              | 23.00 | 30.00        | 56.00      | 11, 13.5         |
| 16s        | 27.41              | 3.20         | 14.20              | 24.60 | 32.50        | 58.00      | 9, 11, 16        |
| 6          | 27.41              | 3.20         | 19.00              | 24.60 | 32.50        | 66.00      | 9, 11, 16        |
| 18         | 30.81              | 3.99         | 19.00              | 27.00 | 35.00        | 74.00      | 9, 11, 16, 21    |
| 20         | 34.19              | 3.99         | 19.00              | 29.40 | 38.00        | 74.00      | 11, 16, 21       |
| 22         | 37.39              | 3.99         | 19.00              | 31.80 | 41.00        | 77.00      | 13.5, 16, 21     |
| 24         | 40.89              | 3.99         | 20.60              | 34.90 | 44.50        | 77.00      | 13.5, 16, 21, 29 |
| 28         | 46.71              | 3.99         | 20.60              | 39.70 | 50.80        | 78.00      | 16, 21, 29       |
| 32         | 53.39              | 3.99         | 22.20              | 44.50 | 57.00        | 78.00      | 21, 29           |
| 36         | 59.59              | 3.99         | 22.20              | 49.20 | 63.50        | 90.00      | 21, 29, 36       |

## Wall Mount Receptacle with EGM B/S for shielded cable & PHM B/S Unshielded cable with sealing rubber bush

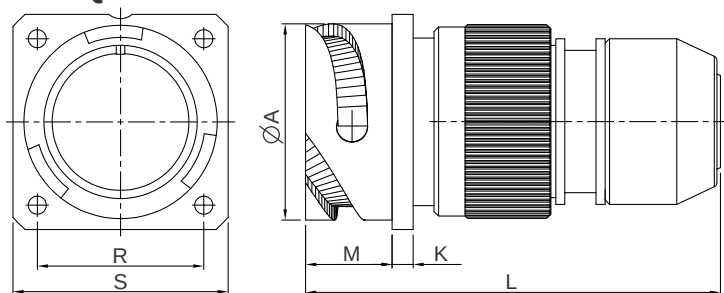
### 100EGM/PHM



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|-------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 18.20 | 25.40        | 95.60       |
| 12S        | 21.40                | 3.20         | 14.20                | 20.60 | 28.00        | 95.60       |
| 14S        | 24.61                | 3.20         | 14.20                | 23.00 | 30.00        | 95.60       |
| 16S        | 27.41                | 3.20         | 14.20                | 24.60 | 32.50        | 95.60       |
| 16         | 27.41                | 3.20         | 19.00                | 24.60 | 32.50        | 102.00      |
| 18         | 30.81                | 3.99         | 19.00                | 27.00 | 35.00        | 102.00      |
| 20         | 34.19                | 3.99         | 19.00                | 29.40 | 38.00        | 102.00      |
| 22         | 37.39                | 3.99         | 19.00                | 31.80 | 41.00        | 102.00      |
| 24         | 40.89                | 3.99         | 20.60                | 34.90 | 44.50        | 104.00      |
| 28         | 46.71                | 3.99         | 20.60                | 39.70 | 50.80        | 104.00      |
| 32         | 53.39                | 3.99         | 22.20                | 44.50 | 57.00        | 106.00      |
| 36         | 59.59                | 3.99         | 22.20                | 49.20 | 63.50        | 106.00      |

## Wall Mount Receptacle with SQ type Shielded B/S & Environmental sealing Grommet & Heat shrinkable option

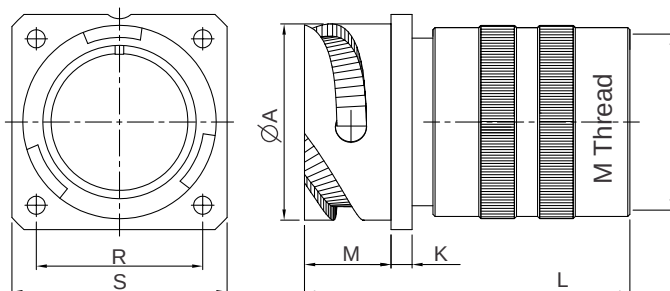
### 100SQ



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|-------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 18.20 | 25.40        | 57.00       |
| 12S        | 21.40                | 3.20         | 14.20                | 20.60 | 28.00        | 57.00       |
| 14S        | 24.61                | 3.20         | 14.20                | 23.00 | 30.00        | 59.00       |
| 16S        | 27.41                | 3.20         | 14.20                | 24.60 | 32.50        | 59.00       |
| 16         | 27.41                | 3.20         | 19.00                | 24.60 | 32.50        | 66.00       |
| 18         | 30.81                | 3.99         | 19.00                | 27.00 | 35.00        | 66.00       |
| 20         | 34.19                | 3.99         | 19.00                | 29.40 | 38.00        | 66.00       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80 | 41.00        | 66.00       |
| 24         | 40.89                | 3.99         | 20.60                | 34.90 | 44.50        | 68.00       |
| 28         | 46.71                | 3.99         | 20.60                | 39.70 | 50.80        | 68.00       |
| 32         | 53.39                | 3.99         | 22.20                | 44.50 | 57.00        | 70.00       |
| 36         | 59.59                | 3.99         | 22.20                | 49.20 | 63.50        | 70.00       |

## Wall Mount Receptacle with Metric threaded type B/S suitable for Metric Glands

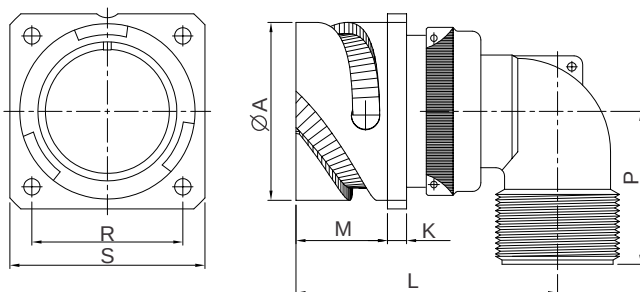
### 100M



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 - 0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. | M<br>THD |
|------------|-------------------|--------------|--------------------|-------|--------------|-------------|----------|
| 10SL       | 18.21             | 2.79         | 14.20              | 18.20 | 25.40        | 56.00       | M12X1.5  |
| 14s        | 24.61             | 3.20         | 14.20              | 23.00 | 30.00        | 56.00       | M16X1.5  |
| 16s        | 27.41             | 3.20         | 14.20              | 24.60 | 32.50        | 58.00       | M16X1.5  |
| 6          | 27.41             | 3.20         | 19.00              | 24.60 | 32.50        | 66.00       | M16X1.5  |
| 18         | 30.81             | 3.99         | 19.00              | 27.00 | 35.00        | 74.00       | M20X1.5  |
| 20         | 34.19             | 3.99         | 19.00              | 29.40 | 38.00        | 74.00       | M25X1.5  |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 41.00        | 77.00       | M25X1.5  |
| 24         | 40.89             | 3.99         | 20.60              | 34.90 | 44.50        | 77.00       | M32X1.5  |
| 28         | 46.71             | 3.99         | 20.60              | 39.70 | 50.80        | 78.00       | M32X1.5  |
| 32         | 53.39             | 3.99         | 22.20              | 44.50 | 57.00        | 78.00       | M36X1.5  |
| 36         | 59.59             | 3.99         | 22.20              | 49.20 | 63.50        | 90.00       | M40X1.5  |

## Wall Mount Receptacle with 90° B/S & Environmental sealing Grommet

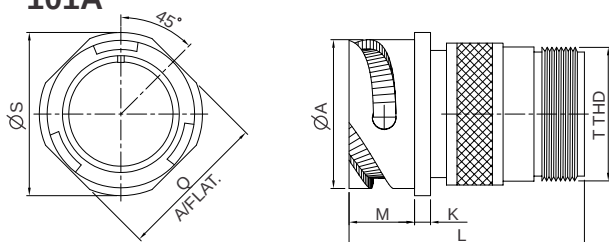
### 100RT



| SHELL SIZE | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 -0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. | 'P'<br>MAX. |
|------------|-------------------|--------------|-------------------|-------|--------------|-------------|-------------|
| 10SL       | 18.21             | 2.79         | 14.20             | 18.20 | 25.40        | 40.50       | 21.50       |
| 12S        | 21.40             | 3.20         | 14.20             | 20.60 | 28.00        | 40.50       | 21.50       |
| 14S        | 24.61             | 3.20         | 14.20             | 23.00 | 30.00        | 42.00       | 23.00       |
| 16S        | 27.41             | 3.20         | 14.20             | 24.60 | 32.50        | 45.00       | 24.60       |
| 16         | 27.41             | 3.20         | 19.00             | 24.60 | 32.50        | 52.00       | 24.60       |
| 18         | 30.81             | 3.99         | 19.00             | 27.00 | 35.00        | 53.00       | 27.00       |
| 20         | 34.19             | 3.99         | 19.00             | 29.40 | 38.00        | 58.00       | 29.00       |
| 22         | 37.39             | 3.99         | 19.00             | 31.80 | 41.00        | 58.00       | 31.00       |
| 24         | 40.89             | 3.99         | 20.60             | 34.90 | 44.50        | 63.00       | 34.00       |
| 28         | 46.71             | 3.99         | 20.60             | 39.70 | 50.80        | 63.00       | 36.00       |
| 32         | 53.39             | 3.99         | 22.20             | 44.50 | 57.00        | 69.00       | 44.00       |
| 36         | 59.59             | 3.99         | 22.20             | 49.20 | 63.50        | 72.30       | 46.00       |

## Cable connecting Receptacle with A type Solid B/S

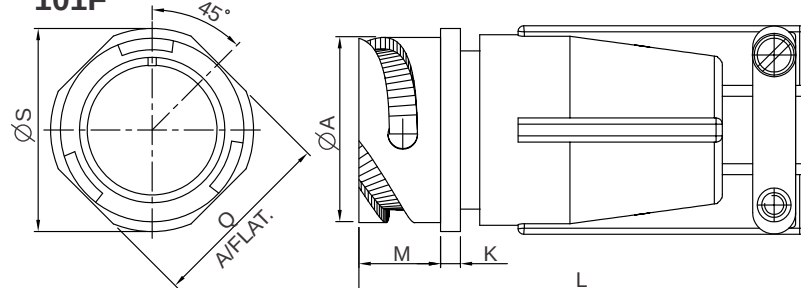
### 101A



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 - 0.0 | 'Q'   | 'S'<br>+0.20 | 'L'<br>MAX. | 'T'<br>THD    |
|------------|-------------------|--------------|--------------------|-------|--------------|-------------|---------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 20.60 | 25.00        | 45.00       | 5/8-24 UNEF   |
| 12s        | 21.40             | 3.20         | 14.20              | 23.60 | 27.60        | 45.00       | 5/8-24 UNEF   |
| 14s        | 24.61             | 3.20         | 14.20              | 25.40 | 29.60        | 48.00       | 3/4-20 UNEF   |
| 16s        | 27.41             | 3.20         | 14.20              | 28.60 | 32.10        | 48.00       | 7/8-20 UNEF   |
| 6          | 27.41             | 3.20         | 19.00              | 28.60 | 32.10        | 55.00       | 7/8-20 UNEF   |
| 18         | 30.81             | 3.99         | 19.00              | 31.70 | 34.60        | 60.00       | 1-20 UNEF     |
| 20         | 34.19             | 3.99         | 19.00              | 34.90 | 37.60        | 65.00       | 1 3/16-18UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.80 | 40.90        | 65.00       | 1 3/16-18UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 41.30 | 44.40        | 68.00       | 1 7/16-18UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 47.60 | 50.70        | 68.00       | 1 7/16-18UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 54.0  | 56.90        | 70.00       | 1 3/4-18UNS   |
| 36         | 59.59             | 3.99         | 22.20              | 60.60 | 63.40        | 70.00       | 2-18 UNS      |

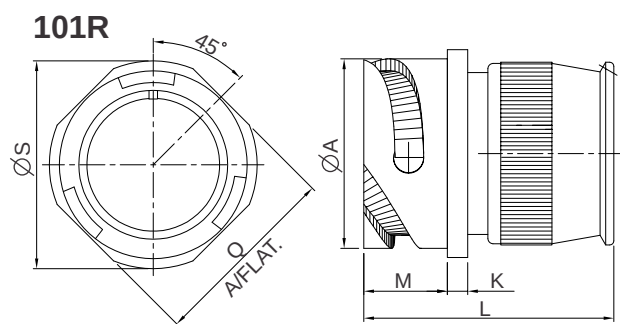
## Cable connecting Receptacle with F type Strain Relief B/S & Environmental sealing Grommet

### 101F



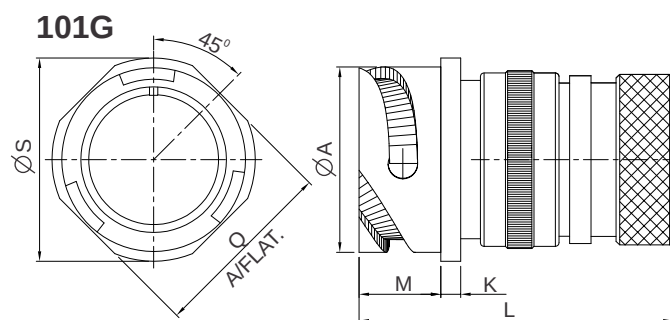
| SHELL SIZE | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 -0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|-------------------|--------------|-------------------|--------------|--------------|-------------|
| 10SL       | 18.21             | 2.79         | 14.20             | 20.60        | 25.0         | 60.00       |
| 12S        | 21.40             | 3.20         | 14.20             | 23.60        | 27.60        | 60.00       |
| 14S        | 24.61             | 3.20         | 14.20             | 25.40        | 29.60        | 61.00       |
| 16S        | 27.41             | 3.20         | 14.20             | 28.60        | 32.10        | 61.00       |
| 16         | 27.41             | 3.20         | 19.00             | 28.60        | 32.10        | 68.00       |
| 18         | 30.81             | 3.99         | 19.00             | 31.70        | 34.60        | 72.00       |
| 20         | 34.19             | 3.99         | 19.00             | 34.90        | 37.60        | 74.00       |
| 22         | 37.39             | 3.99         | 19.00             | 31.80        | 40.90        | 74.00       |
| 24         | 40.89             | 3.99         | 20.60             | 41.30        | 44.40        | 78.00       |
| 28         | 46.71             | 3.99         | 20.60             | 47.60        | 50.70        | 78.00       |
| 32         | 53.39             | 3.99         | 22.20             | 54.0         | 56.90        | 82.00       |
| 36         | 59.59             | 3.99         | 22.20             | 60.60        | 63.40        | 82.00       |

## Cable connecting Receptacle with R type B/S & Environmental sealing Grommet



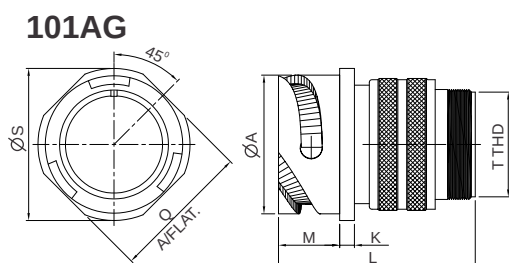
| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 20.60        | 25.00        | 47.00       |
| 12S        | 21.40                | 3.20         | 14.20                | 23.60        | 27.60        | 47.00       |
| 14S        | 24.61                | 3.20         | 14.20                | 25.40        | 29.60        | 47.00       |
| 16S        | 27.41                | 3.20         | 14.20                | 28.60        | 32.10        | 48.00       |
| 16         | 27.41                | 3.20         | 19.00                | 28.60        | 32.10        | 54.40       |
| 18         | 30.81                | 3.99         | 19.00                | 31.70        | 34.60        | 56.40       |
| 20         | 34.19                | 3.99         | 19.00                | 34.90        | 37.60        | 56.40       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80        | 40.90        | 56.40       |
| 24         | 40.89                | 3.99         | 20.60                | 41.30        | 44.40        | 57.40       |
| 28         | 46.71                | 3.99         | 20.60                | 47.60        | 50.70        | 57.40       |
| 32         | 53.39                | 3.99         | 22.20                | 54.00        | 56.90        | 58.10       |
| 36         | 59.59                | 3.99         | 22.20                | 60.00        | 63.40        | 58.10       |

## Cable connecting Receptacle with G type B/S for heatshrinkable & Environmental sealing Grommet



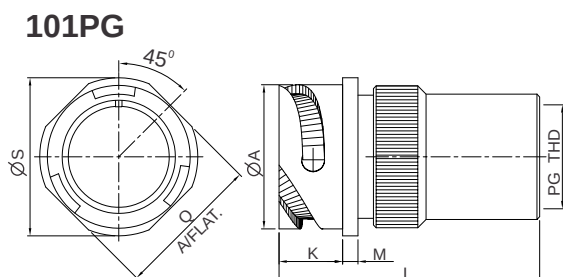
| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 20.60        | 25.40        | 52.50       |
| 12S        | 21.40                | 3.20         | 14.20                | 23.60        | 28.00        | 52.50       |
| 14S        | 24.61                | 3.20         | 14.20                | 25.40        | 30.00        | 54.40       |
| 16S        | 27.41                | 3.20         | 14.20                | 28.60        | 32.50        | 54.40       |
| 16         | 27.41                | 3.20         | 19.00                | 28.60        | 32.50        | 61.00       |
| 18         | 30.81                | 3.99         | 19.00                | 31.70        | 35.00        | 62.00       |
| 20         | 34.19                | 3.99         | 19.00                | 34.90        | 38.00        | 63.00       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80        | 41.00        | 65.00       |
| 24         | 40.89                | 3.99         | 20.60                | 41.30        | 44.50        | 65.00       |
| 28         | 46.71                | 3.99         | 20.60                | 47.60        | 50.80        | 66.00       |
| 32         | 53.39                | 3.99         | 22.20                | 54.0         | 57.00        | 71.00       |
| 36         | 59.59                | 3.99         | 22.20                | 60.60        | 63.50        | 75.00       |

## Cable connecting Receptacle with A type Solid B/S & Environmental sealing Grommet



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'Q'<br>+0.20 | 'S'<br>±0.20 | 'L'<br>MAX | 'T'<br>THD     |
|------------|-------------------|--------------|--------------------|--------------|--------------|------------|----------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 20.60        | 25.40        | 68.60      | 5/8-24 UNEF    |
| 12s        | 21.40             | 3.20         | 14.20              | 23.60        | 28.00        | 68.60      | 5/8-24 UNEF    |
| 14s        | 24.61             | 3.20         | 14.20              | 25.40        | 30.00        | 68.60      | 3/4-20 UNEF    |
| 16s        | 27.41             | 3.20         | 14.20              | 28.60        | 32.50        | 68.60      | 7/8-20 UNEF    |
| 6          | 27.41             | 3.20         | 19.00              | 28.60        | 32.50        | 75.00      | 7/8-20 UNEF    |
| 18         | 30.81             | 3.99         | 19.00              | 31.70        | 35.00        | 75.00      | 1-20 UNEF      |
| 20         | 34.19             | 3.99         | 19.00              | 34.90        | 38.00        | 75.00      | 1 3/16-18 UNEF |
| 22         | 37.39             | 3.99         | 19.00              | 31.80        | 41.00        | 75.00      | 1 3/16-18 UNEF |
| 24         | 40.89             | 3.99         | 20.60              | 41.30        | 44.50        | 77.00      | 1 7/16-18 UNEF |
| 28         | 46.71             | 3.99         | 20.60              | 47.60        | 50.80        | 77.00      | 1 7/16-18 UNEF |
| 32         | 53.39             | 3.99         | 22.20              | 54.0         | 57.00        | 80.00      | 1 3/4-18 UNS   |
| 36         | 59.59             | 3.99         | 22.20              | 60.60        | 63.50        | 80.00      | 2-18 UNS       |

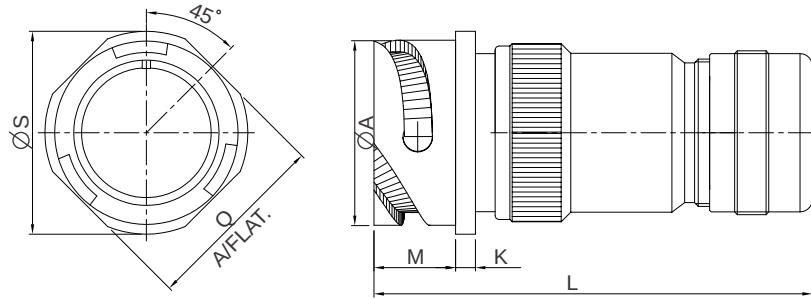
## Cable connecting Receptacle with PG threaded type B/S suitable for PG Glands



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'Q'<br>+0.20 | 'S'<br>±0.20 | 'L'<br>MAX | PG THD           |
|------------|-------------------|--------------|--------------------|--------------|--------------|------------|------------------|
| 10SL       | 18.21             | 2.79         | 14.20              | 20.60        | 25.40        | 56.00      | 7, 9, 11         |
| 12s        | 21.40             | 3.20         | 14.20              | 23.60        | 28.00        | 56.00      | 7, 9, 11         |
| 14s        | 24.61             | 3.20         | 14.20              | 25.40        | 30.00        | 56.00      | 11, 13.5         |
| 16s        | 27.41             | 3.20         | 14.20              | 28.60        | 32.50        | 58.00      | 9, 11, 16        |
| 6          | 27.41             | 3.20         | 19.00              | 28.60        | 32.50        | 66.00      | 9, 11, 16        |
| 18         | 30.81             | 3.99         | 19.00              | 31.70        | 35.00        | 74.00      | 9, 11, 16, 21    |
| 20         | 34.19             | 3.99         | 19.00              | 34.90        | 38.00        | 74.00      | 11, 16, 21       |
| 22         | 37.39             | 3.99         | 19.00              | 31.80        | 41.00        | 77.00      | 13.5, 16, 21     |
| 24         | 40.89             | 3.99         | 20.60              | 41.30        | 44.50        | 77.00      | 13.5, 16, 21, 29 |
| 28         | 46.71             | 3.99         | 20.60              | 47.60        | 50.80        | 78.00      | 16, 21, 29       |
| 32         | 53.39             | 3.99         | 22.20              | 54.0         | 57.00        | 78.00      | 21, 29           |
| 36         | 59.59             | 3.99         | 22.20              | 60.60        | 63.50        | 90.00      | 21, 29, 36       |

## Cable connecting Receptacle with EGM B/S for shielded cable & PHM B/S Unshielded cable with sealing rubber bush

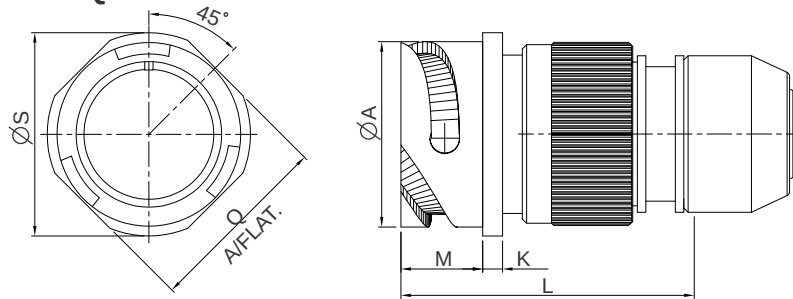
### 101EGM/PHM



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 20.60        | 25.40        | 95.60       |
| 12S        | 21.40                | 3.20         | 14.20                | 23.60        | 28.00        | 95.60       |
| 14S        | 24.61                | 3.20         | 14.20                | 25.40        | 30.00        | 95.60       |
| 16S        | 27.41                | 3.20         | 14.20                | 28.60        | 32.50        | 95.60       |
| 16         | 27.41                | 3.20         | 19.00                | 28.60        | 32.50        | 102.00      |
| 18         | 30.81                | 3.99         | 19.00                | 31.70        | 35.00        | 102.00      |
| 20         | 34.19                | 3.99         | 19.00                | 34.90        | 38.00        | 102.00      |
| 22         | 37.39                | 3.99         | 19.00                | 31.80        | 41.00        | 102.00      |
| 24         | 40.89                | 3.99         | 20.60                | 41.30        | 44.50        | 104.00      |
| 28         | 46.71                | 3.99         | 20.60                | 47.60        | 50.80        | 104.00      |
| 32         | 53.39                | 3.99         | 22.20                | 54.0         | 57.00        | 106.00      |
| 36         | 59.59                | 3.99         | 22.20                | 60.60        | 63.50        | 106.00      |

## Cable connecting Receptacle with SQ type Shielded B/S & Environmental sealing Grommet & Heat Shrinkable option

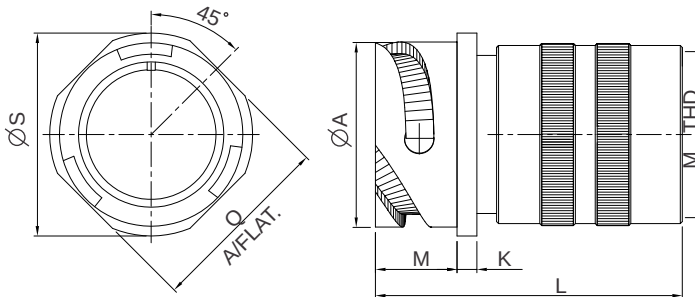
### 101SQ



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 20.60        | 25.40        | 57.00       |
| 12S        | 21.40                | 3.20         | 14.20                | 23.60        | 28.00        | 57.00       |
| 14S        | 24.61                | 3.20         | 14.20                | 25.40        | 30.00        | 59.00       |
| 16S        | 27.41                | 3.20         | 14.20                | 28.60        | 32.50        | 59.00       |
| 16         | 27.41                | 3.20         | 19.00                | 28.60        | 32.50        | 66.00       |
| 18         | 30.81                | 3.99         | 19.00                | 31.70        | 35.00        | 66.00       |
| 20         | 34.19                | 3.99         | 19.00                | 34.90        | 38.00        | 66.00       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80        | 41.00        | 66.00       |
| 24         | 40.89                | 3.99         | 20.60                | 41.30        | 44.50        | 68.00       |
| 28         | 46.71                | 3.99         | 20.60                | 47.60        | 50.80        | 68.00       |
| 32         | 53.39                | 3.99         | 22.20                | 54.0         | 57.00        | 70.00       |
| 36         | 59.59                | 3.99         | 22.20                | 60.60        | 63.50        | 70.00       |

## Cable connecting Receptacle with Metric threaded type B/S suitable for Metric Glands

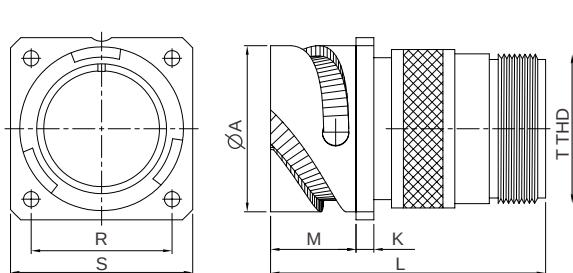
### 101M



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 - 0.0 | 'Q'<br>+0.20 | 'S'<br>+0.20 | 'L'<br>MAX. | M THD   |
|------------|-------------------|--------------|--------------------|--------------|--------------|-------------|---------|
| 10SL       | 18.21             | 2.79         | 14.20              | 20.60        | 25.40        | 56.00       | M12X1.5 |
| 14s        | 24.61             | 3.20         | 14.20              | 25.40        | 30.00        | 56.00       | M16X1.5 |
| 16s        | 27.41             | 3.20         | 14.20              | 28.60        | 32.50        | 58.00       | M16X1.5 |
| 6          | 27.41             | 3.20         | 19.00              | 28.60        | 32.50        | 66.00       | M16X1.5 |
| 18         | 30.81             | 3.99         | 19.00              | 31.70        | 35.00        | 74.00       | M20X1.5 |
| 20         | 34.19             | 3.99         | 19.00              | 34.90        | 38.00        | 74.00       | M25X1.5 |
| 22         | 37.39             | 3.99         | 19.00              | 31.80        | 41.00        | 77.00       | M25X1.5 |
| 24         | 40.89             | 3.99         | 20.60              | 41.30        | 44.50        | 77.00       | M32X1.5 |
| 28         | 46.71             | 3.99         | 20.60              | 47.60        | 50.80        | 78.00       | M32X1.5 |
| 32         | 53.39             | 3.99         | 22.20              | 54.0         | 57.00        | 78.00       | M36X1.5 |
| 36         | 59.59             | 3.99         | 22.20              | 60.60        | 63.50        | 90.00       | M40X1.5 |

## Rear wall Mount Receptacle with A type Solid B/S

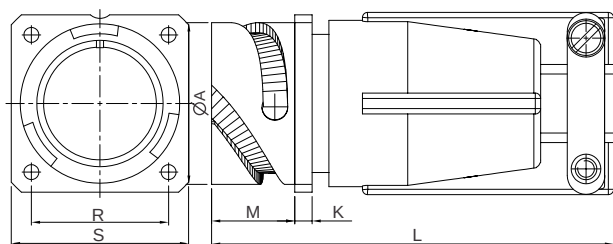
### 103A



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>+0.20 | 'M'<br>+0.41 - 0.0 | 'R'<br>+0.10 | 'S'<br>+0.20 | 'T'<br>THD    | 'L'<br>MAX |
|------------|-------------------|--------------|--------------------|--------------|--------------|---------------|------------|
| 10SL       | 18.21             | 2.79         | 18.20              | 18.20        | 25.40        | 5/8-24 UNEF   | 45.00      |
| 12s        | 21.40             | 3.20         | 18.20              | 20.60        | 28.00        | 5/8-24 UNEF   | 45.00      |
| 14s        | 24.61             | 3.20         | 18.20              | 23.00        | 30.00        | 3/4-20 UNEF   | 48.00      |
| 16s        | 27.41             | 3.20         | 18.20              | 24.60        | 32.50        | 7/8-20 UNEF   | 48.00      |
| 6          | 27.41             | 3.20         | 23.05              | 24.60        | 32.50        | 7/8-20 UNEF   | 55.00      |
| 18         | 30.81             | 3.99         | 23.05              | 27.00        | 35.00        | 1-20 UNEF     | 60.00      |
| 20         | 34.19             | 3.99         | 23.05              | 29.40        | 38.00        | 1 3/16-18UNEF | 65.00      |
| 22         | 37.39             | 3.99         | 23.05              | 31.80        | 41.00        | 1 3/16-18UNEF | 65.00      |
| 24         | 40.89             | 3.99         | 23.05              | 34.90        | 44.50        | 1 7/16-18UNEF | 68.00      |
| 28         | 46.71             | 3.99         | 24.05              | 39.70        | 50.80        | 1 7/16-18UNEF | 68.00      |
| 32         | 53.39             | 3.99         | 24.05              | 44.50        | 57.00        | 1 3/4-18UNS   | 70.00      |
| 36         | 59.59             | 3.99         | 24.05              | 49.20        | 63.50        | 2-18 UNS      | 70.00      |

## Rear wall Mount Receptacle with F type Strain Relief B/S & Environmental sealing Grommet

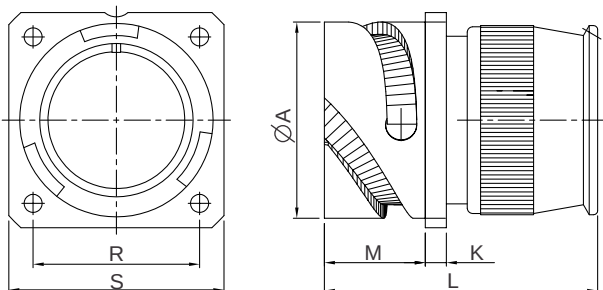
### 103F



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'<br>+0.10 | 'S'<br>+0.20 | 'T'<br>THD.    | 'L'<br>MAX |
|------------|----------------------|--------------|----------------------|--------------|--------------|----------------|------------|
| 10SL       | 18.21                | 2.79         | 18.20                | 18.20        | 25.40        | 5/8-24 UNEF    | 60.00      |
| 12S        | 21.40                | 3.20         | 18.20                | 20.60        | 28.00        | 5/8 24 UNEF    | 60.00      |
| 14S        | 24.61                | 3.20         | 18.20                | 23.00        | 30.00        | 3/4-20 UNEF    | 61.00      |
| 16S        | 27.41                | 3.20         | 18.20                | 24.60        | 32.50        | 7/8-20 UNEF    | 61.00      |
| 16         | 27.41                | 3.20         | 23.05                | 24.60        | 32.50        | 7/8-20 UNEF    | 68.00      |
| 18         | 30.81                | 3.99         | 23.05                | 27.00        | 35.00        | 1-20 UNEF      | 72.00      |
| 20         | 34.19                | 3.99         | 23.05                | 29.40        | 38.00        | 1 3/16-18 UNEF | 74.00      |
| 22         | 37.39                | 3.99         | 23.05                | 31.80        | 41.00        | 1 3/16-18 UNEF | 74.00      |
| 24         | 40.89                | 3.99         | 23.05                | 34.90        | 44.50        | 1 7/16-18 UNEF | 78.00      |
| 28         | 46.71                | 3.99         | 24.05                | 39.70        | 50.80        | 1 7/16-18 UNEF | 78.00      |
| 32         | 53.39                | 3.99         | 24.05                | 44.50        | 57.00        | 1 3/4-18 UNS   | 82.00      |
| 36         | 59.59                | 3.99         | 24.05                | 49.20        | 63.50        | 2-18 UNS       | 82.00      |

## Rear wall Mount Receptacle with R type B/S & Environmental sealing Grommet

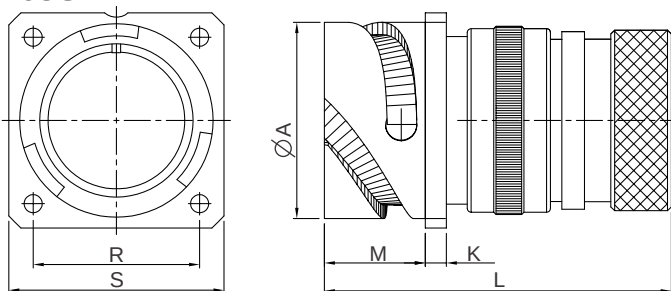
### 103R



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'   | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|-------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 18.20                | 18.20 | 25.40        | 47.00       |
| 12S        | 21.40                | 3.20         | 18.20                | 20.60 | 28.00        | 47.00       |
| 14S        | 24.61                | 3.20         | 18.20                | 23.00 | 30.00        | 47.00       |
| 16S        | 27.41                | 3.20         | 18.20                | 24.60 | 32.50        | 48.00       |
| 16         | 27.41                | 3.20         | 23.05                | 24.60 | 32.50        | 54.40       |
| 18         | 30.81                | 3.99         | 23.05                | 27.00 | 35.00        | 56.40       |
| 20         | 34.19                | 3.99         | 23.05                | 29.40 | 38.00        | 56.40       |
| 22         | 37.39                | 3.99         | 23.05                | 31.80 | 41.00        | 56.40       |
| 24         | 40.89                | 3.99         | 23.05                | 34.90 | 44.50        | 57.40       |
| 28         | 46.71                | 3.99         | 24.05                | 39.70 | 50.80        | 57.40       |
| 32         | 53.39                | 3.99         | 24.05                | 44.50 | 57.00        | 58.10       |
| 36         | 59.59                | 3.99         | 24.05                | 49.20 | 63.50        | 58.10       |

## Rear wall Mount Receptacle with G type B/S for heatshrinkable & Environmental sealing Grommet

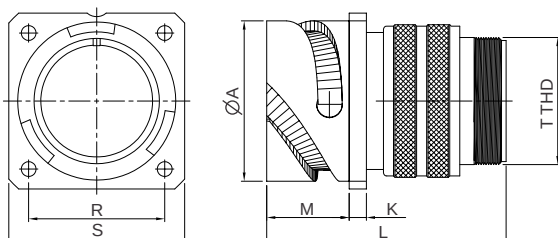
### 103G



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'<br>+0.10 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 18.20                | 18.20        | 25.40        | 52.50       |
| 12S        | 21.40                | 3.20         | 18.20                | 20.60        | 28.00        | 52.50       |
| 14S        | 24.61                | 3.20         | 18.20                | 23.00        | 30.00        | 54.40       |
| 16S        | 27.41                | 3.20         | 18.20                | 24.60        | 32.50        | 54.40       |
| 16         | 27.41                | 3.20         | 23.05                | 24.60        | 32.50        | 61.00       |
| 18         | 30.81                | 3.99         | 23.05                | 27.00        | 35.00        | 62.00       |
| 20         | 34.19                | 3.99         | 23.05                | 29.40        | 38.00        | 63.00       |
| 22         | 37.39                | 3.99         | 23.05                | 31.80        | 41.00        | 65.00       |
| 24         | 40.89                | 3.99         | 23.05                | 34.90        | 44.50        | 65.00       |
| 28         | 46.71                | 3.99         | 24.05                | 39.70        | 50.80        | 66.00       |
| 32         | 53.39                | 3.99         | 24.05                | 44.50        | 57.00        | 71.00       |
| 36         | 59.59                | 3.99         | 24.05                | 49.20        | 63.50        | 75.00       |

## Rear wall Mount Receptacle with A type Solid B/S & Environmental sealing Grommet

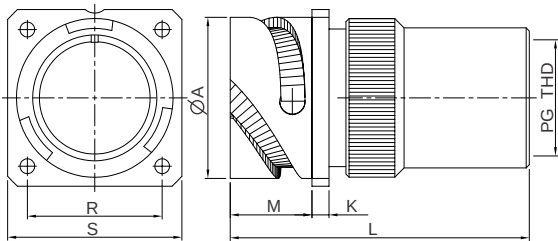
### 103AG



| Shell Size | 'A'<br>+0.0 -0.15 | 'K'<br>±0.20 | 'M'<br>+0.41 - 0.0 | 'R'<br>+0.10 | 'S'<br>±0.20 | 'T'<br>THD    | 'L'<br>MAX |
|------------|-------------------|--------------|--------------------|--------------|--------------|---------------|------------|
| 10SL       | 18.21             | 2.79         | 18.20              | 18.20        | 25.40        | 5/8-24 UNEF   | 68.60      |
| 12s        | 21.40             | 3.20         | 18.20              | 20.60        | 28.00        | 5/8-24 UNEF   | 68.60      |
| 14s        | 24.61             | 3.20         | 18.20              | 23.00        | 30.00        | 3/4-20 UNEF   | 68.60      |
| 16s        | 27.41             | 3.20         | 18.20              | 24.60        | 32.50        | 7/8-20 UNEF   | 68.60      |
| 6          | 27.41             | 3.20         | 23.05              | 24.60        | 32.50        | 7/8-20 UNEF   | 75.00      |
| 18         | 30.81             | 3.99         | 23.05              | 27.00        | 35.00        | 1-20 UNEF     | 75.00      |
| 20         | 34.19             | 3.99         | 23.05              | 29.40        | 38.00        | 1 3/16-18UNEF | 75.00      |
| 22         | 37.39             | 3.99         | 23.05              | 31.80        | 41.00        | 1 3/16-18UNEF | 75.00      |
| 24         | 40.89             | 3.99         | 23.05              | 34.90        | 44.50        | 1 7/16-18UNEF | 77.00      |
| 28         | 46.71             | 3.99         | 24.05              | 39.70        | 50.80        | 1 7/16-18UNEF | 77.00      |
| 32         | 53.39             | 3.99         | 24.05              | 44.50        | 57.00        | 1 3/4-18UNS   | 80.00      |
| 36         | 59.59             | 3.99         | 24.05              | 49.20        | 63.50        | 2-18 UNS      | 80.00      |

## Rear wall Mount Receptacle with PG threaded type B/S suitable for PG Glands

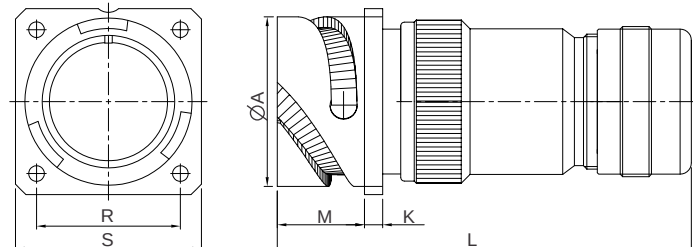
### 103PG



| Shell Size | 'A' +0.0 -0.15 | 'K' ±0.20 | 'M' +0.41 -0.0 | 'R' ±0.10 | 'S' ±0.20 | 'L' MAX | PG THD           |
|------------|----------------|-----------|----------------|-----------|-----------|---------|------------------|
| 10SL       | 18.21          | 2.79      | 18.20          | 18.20     | 25.40     | 56.00   | 7, 9, 11         |
| 12s        | 21.40          | 3.20      | 18.20          | 20.60     | 28.00     | 56.00   | 7, 9, 11         |
| 14s        | 24.61          | 3.20      | 18.20          | 23.00     | 30.00     | 56.00   | 11, 13.5         |
| 16s        | 27.41          | 3.20      | 18.20          | 24.60     | 32.50     | 58.00   | 9, 11, 16        |
| 6          | 27.41          | 3.20      | 23.05          | 24.60     | 32.50     | 66.00   | 9, 11, 16        |
| 18         | 30.81          | 3.99      | 23.05          | 27.00     | 35.00     | 74.00   | 9, 11, 16, 21    |
| 20         | 34.19          | 3.99      | 23.05          | 29.40     | 38.00     | 74.00   | 11, 16, 21       |
| 22         | 37.39          | 3.99      | 23.05          | 31.80     | 41.00     | 77.00   | 13.5, 16, 21     |
| 24         | 40.89          | 3.99      | 23.05          | 34.90     | 44.50     | 77.00   | 13.5, 16, 21, 29 |
| 28         | 46.71          | 3.99      | 24.05          | 39.70     | 50.80     | 78.00   | 16, 21, 29       |
| 32         | 53.39          | 3.99      | 24.05          | 44.50     | 57.00     | 78.00   | 21, 29           |
| 36         | 59.59          | 3.99      | 24.05          | 49.20     | 63.50     | 90.00   | 21, 29, 36       |

## Rear wall Mount Receptacle with EGM B/S for shielded cable & PHM B/S Unshielded cable with sealing rubber bush

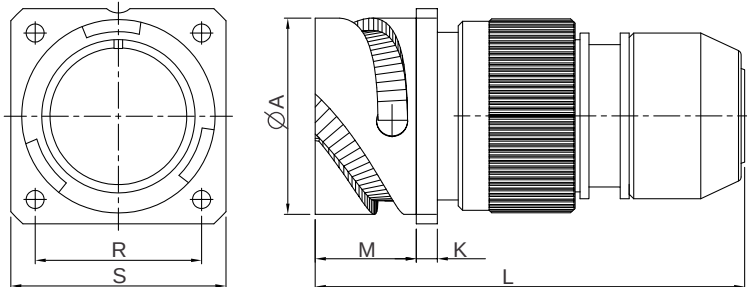
### 103 EGM/PHM



| SHELL SIZE | 'A' +0.0 -0.15 | 'K' ±0.20 | 'M' +0.41 -0.0 | 'R'   | 'S' ±0.20 | 'L' MAX. |
|------------|----------------|-----------|----------------|-------|-----------|----------|
| 10SL       | 18.21          | 2.79      | 14.20          | 18.20 | 25.40     | 95.60    |
| 12S        | 21.40          | 3.20      | 14.20          | 20.60 | 28.00     | 95.60    |
| 14S        | 24.61          | 3.20      | 14.20          | 23.00 | 30.00     | 95.60    |
| 16S        | 27.41          | 3.20      | 14.20          | 24.60 | 32.50     | 95.60    |
| 16         | 27.41          | 3.20      | 19.00          | 24.60 | 32.50     | 102.00   |
| 18         | 30.81          | 3.99      | 19.00          | 27.00 | 35.00     | 102.00   |
| 20         | 34.19          | 3.99      | 19.00          | 29.40 | 38.00     | 102.00   |
| 22         | 37.39          | 3.99      | 19.00          | 31.80 | 41.00     | 102.00   |
| 24         | 40.89          | 3.99      | 20.60          | 34.90 | 44.50     | 104.00   |
| 28         | 46.71          | 3.99      | 20.60          | 39.70 | 50.80     | 104.00   |
| 32         | 53.39          | 3.99      | 22.20          | 44.50 | 57.00     | 106.00   |
| 36         | 59.59          | 3.99      | 22.20          | 49.20 | 63.50     | 106.00   |

## Rear wall Mount Receptacle with SQ type Shielded B/S & Environmental sealing Grommet & Heat Shrinkable Option

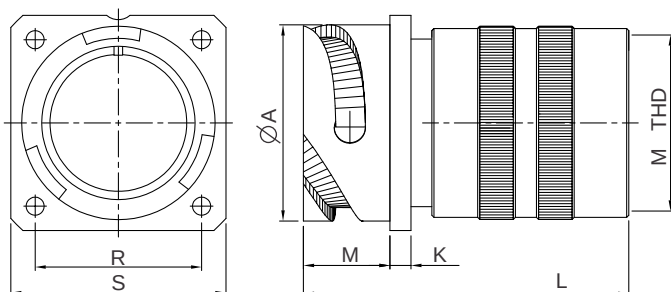
### 103SQ



| SHELL SIZE | 'A' +0.0 -0.15 | 'K' ±0.20 | 'M' +0.41 -0.0 | 'R' ±0.10 | 'S' ±0.20 | 'L' MAX. |
|------------|----------------|-----------|----------------|-----------|-----------|----------|
| 10SL       | 18.21          | 2.79      | 18.20          | 18.20     | 25.40     | 57.00    |
| 12S        | 21.40          | 3.20      | 18.20          | 20.60     | 28.00     | 57.00    |
| 14S        | 24.61          | 3.20      | 18.20          | 23.00     | 30.00     | 59.00    |
| 16S        | 27.41          | 3.20      | 18.20          | 24.60     | 32.50     | 59.00    |
| 16         | 27.41          | 3.20      | 23.05          | 24.60     | 32.50     | 66.00    |
| 18         | 30.81          | 3.99      | 23.05          | 27.00     | 35.00     | 66.00    |
| 20         | 34.19          | 3.99      | 23.05          | 29.40     | 38.00     | 66.00    |
| 22         | 37.39          | 3.99      | 23.05          | 31.80     | 41.00     | 66.00    |
| 24         | 40.89          | 3.99      | 23.05          | 34.90     | 44.50     | 68.00    |
| 28         | 46.71          | 3.99      | 24.05          | 39.70     | 50.80     | 68.00    |
| 32         | 53.39          | 3.99      | 24.05          | 44.50     | 57.00     | 70.00    |
| 36         | 59.59          | 3.99      | 24.05          | 49.20     | 63.50     | 70.00    |

## Rear wall Mount Receptacle with Metric threaded type B/S suitable for Metric Glands

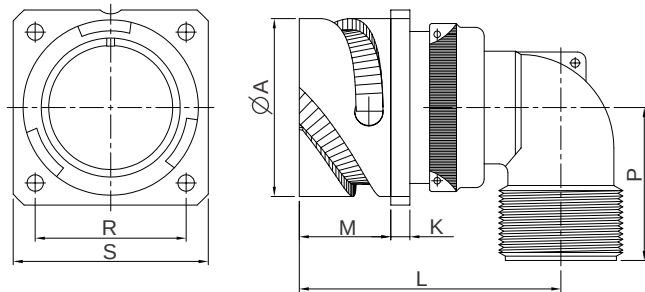
### 103M



| Shell Size | 'A' +0.0 -0.15 | 'K' ±0.20 | 'M' +0.41 -0.0 | 'R'   | 'S' ±0.20 | 'L' MAX. | M THD   |
|------------|----------------|-----------|----------------|-------|-----------|----------|---------|
| 10SL       | 18.21          | 2.79      | 18.20          | 18.20 | 25.40     | 56.00    | M12X1.5 |
| 14s        | 24.61          | 3.20      | 18.20          | 23.00 | 30.00     | 56.00    | M16X1.5 |
| 16s        | 27.41          | 3.20      | 18.20          | 24.60 | 32.50     | 58.00    | M16X1.5 |
| 6          | 27.41          | 3.20      | 23.05          | 24.60 | 32.50     | 66.00    | M16X1.5 |
| 18         | 30.81          | 3.99      | 23.05          | 27.00 | 35.00     | 74.00    | M20X1.5 |
| 20         | 34.19          | 3.99      | 23.05          | 29.40 | 38.00     | 74.00    | M25X1.5 |
| 22         | 37.39          | 3.99      | 23.05          | 31.80 | 41.00     | 77.00    | M25X1.5 |
| 24         | 40.89          | 3.99      | 23.05          | 34.90 | 44.50     | 77.00    | M32X1.5 |
| 28         | 46.71          | 3.99      | 24.05          | 39.70 | 50.80     | 78.00    | M32X1.5 |
| 32         | 53.39          | 3.99      | 24.05          | 44.50 | 57.00     | 78.00    | M36X1.5 |
| 36         | 59.59          | 3.99      | 24.05          | 49.20 | 63.50     | 90.00    | M40X1.5 |

## Rear wall Mount Receptacle with 90° B/S & Environmental sealing Grommet

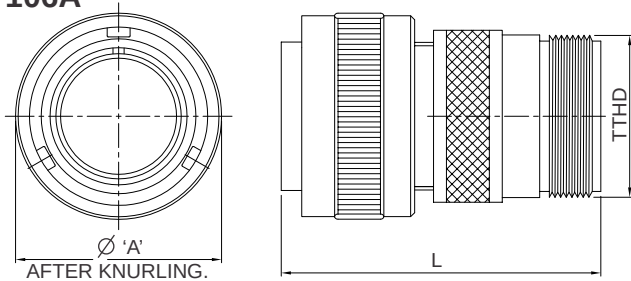
### 103RT



| SHELL SIZE | 'A' +0.0 -0.15 | 'K' +0.20 | 'M' +0.41 -0.0 | 'R'   | 'S' +0.20 | 'L' MAX. | 'P' MAX. |
|------------|----------------|-----------|----------------|-------|-----------|----------|----------|
| 10SL       | 18.21          | 2.79      | 14.20          | 18.20 | 25.40     | 40.50    | 21.50    |
| 12S        | 21.40          | 3.20      | 14.20          | 20.60 | 28.00     | 40.50    | 21.50    |
| 14S        | 24.61          | 3.20      | 14.20          | 23.00 | 30.00     | 42.00    | 23.00    |
| 16S        | 27.41          | 3.20      | 14.20          | 24.60 | 32.50     | 45.00    | 24.60    |
| 16         | 27.41          | 3.20      | 19.00          | 24.60 | 32.50     | 52.00    | 24.60    |
| 18         | 30.81          | 3.99      | 19.00          | 27.00 | 35.00     | 53.00    | 27.00    |
| 20         | 34.19          | 3.99      | 19.00          | 29.40 | 38.00     | 58.00    | 29.00    |
| 22         | 37.39          | 3.99      | 19.00          | 31.80 | 41.00     | 58.00    | 31.00    |
| 24         | 40.89          | 3.99      | 20.60          | 34.90 | 44.50     | 63.00    | 34.00    |
| 28         | 46.71          | 3.99      | 20.60          | 39.70 | 50.80     | 63.00    | 36.00    |
| 32         | 53.39          | 3.99      | 22.20          | 44.50 | 57.00     | 69.00    | 44.00    |
| 36         | 59.59          | 3.99      | 22.20          | 49.20 | 63.50     | 72.30    | 46.00    |

## Straight Plug with A type solid B/S

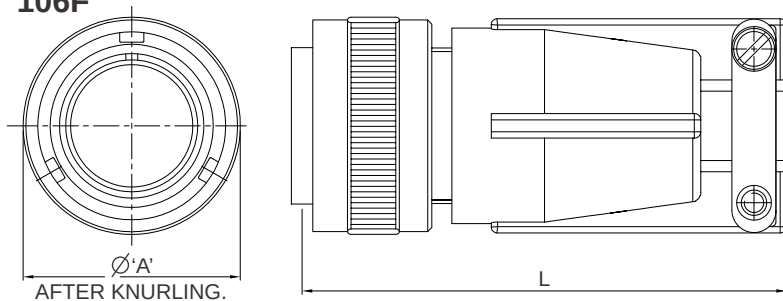
### 106A



| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'T' THD        |
|------------|----------|----------|----------------|
| 10SL       | 22.80    | 44.00    | 5/8-24 UNEF    |
| 12S        | 25.60    | 44.00    | 5/8-24 UNEF    |
| 14S        | 29.20    | 46.00    | 3/4-20 UNEF    |
| 16S        | 32.00    | 46.00    | 7/8-20 UNEF    |
| 16         | 32.00    | 46.00    | 7/8-20 UNEF    |
| 18         | 36.50    | 55.00    | 1-20 UNEF      |
| 20         | 39.90    | 62.00    | 1 3/16-18 UNEF |
| 22         | 46.10    | 65.00    | 1 3/16-18 UNEF |
| 24         | 46.60    | 65.00    | 1 7/16-18 UNEF |
| 28         | 53.40    | 68.00    | 1 7/16-18 UNEF |
| 32         | 60.10    | 70.00    | 1 3/4-18 UNS   |
| 36         | 66.30    | 70.00    | 2-18 UNS       |

## Rear wall Mount Receptacle with SQ type Shielded B/S & Environmental sealing Grommet

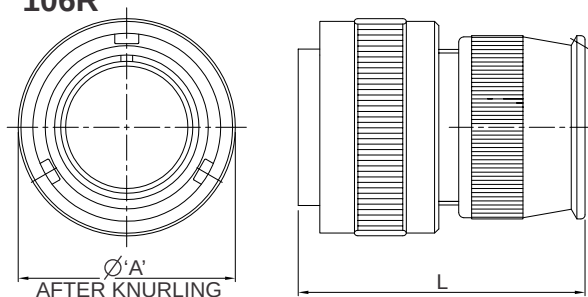
### 106F



| SHELL SIZE | 'A' MAX. | 'L' MAX | 'T' THD.       |
|------------|----------|---------|----------------|
| 10SL       | 22.80    | 60.00   | 5/8-24 UNEF    |
| 12S        | 25.60    | 60.00   | 5/8-24 UNEF    |
| 14S        | 29.20    | 60.00   | 3/4-20 UNEF    |
| 16S        | 32.00    | 60.00   | 7/8-20 UNEF    |
| 16         | 32.00    | 68.00   | 7/8-20 UNEF    |
| 18         | 36.50    | 72.00   | 1-20 UNEF      |
| 20         | 39.90    | 74.00   | 1 3/16-18 UNEF |
| 22         | 43.10    | 74.00   | 1 3/16-18 UNEF |
| 24         | 46.60    | 78.00   | 1 7/16-18 UNEF |
| 28         | 53.40    | 78.00   | 1 7/16-18 UNEF |
| 32         | 60.10    | 82.00   | 1 3/4-18 UNS   |
| 36         | 66.30    | 82.00   | 2-18 UNS       |

## Straight Plug with R type B/S & Environmental sealing Grommet

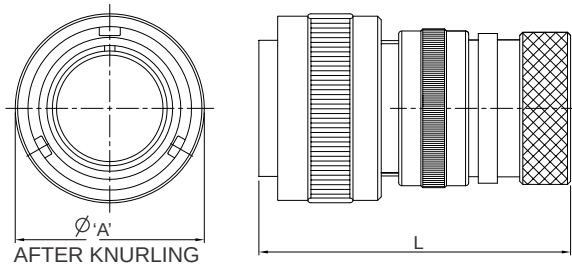
### 106R



| SHELL SIZE | 'A' MAX. | 'L' MAX. |
|------------|----------|----------|
| 10SL       | 22.80    | 47.00    |
| 12S        | 25.60    | 47.00    |
| 14S        | 29.20    | 47.00    |
| 16S        | 32.00    | 47.00    |
| 16         | 32.00    | 55.40    |
| 18         | 36.50    | 57.40    |
| 20         | 39.90    | 57.40    |
| 22         | 43.10    | 57.40    |
| 24         | 46.60    | 57.40    |
| 28         | 53.40    | 57.40    |
| 32         | 60.10    | 58.10    |
| 36         | 66.30    | 58.10    |

## Straight Plug with G type B/S for Heat Shrinkable & Environmental sealing Grommet

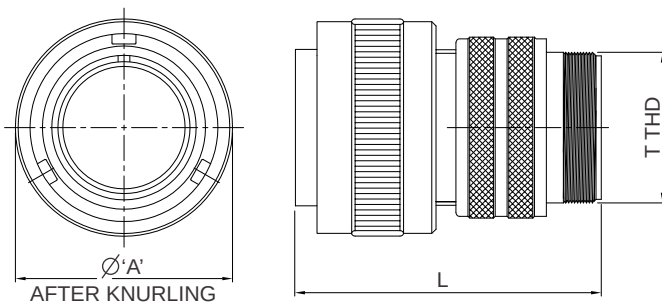
### 106G



| SHELL SIZE | 'A' MAX | 'L' MAX |
|------------|---------|---------|
| 10SL       | 22.80   | 53.00   |
| 12S        | 25.60   | 53.00   |
| 14S        | 29.20   | 53.00   |
| 16S        | 32.00   | 53.00   |
| 16         | 32.00   | 61.00   |
| 18         | 36.50   | 62.00   |
| 20         | 39.90   | 63.00   |
| 22         | 43.10   | 65.00   |
| 24         | 46.60   | 65.00   |
| 28         | 53.40   | 68.00   |
| 32         | 60.10   | 71.00   |
| 36         | 66.30   | 75.00   |

## Straight Plug with A type Solid B/S & Environmental sealing Grommet

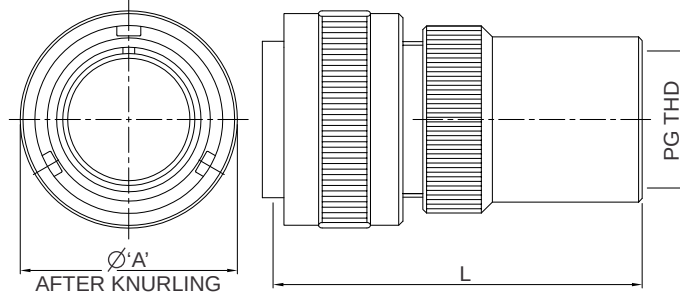
### 106AG



| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'T' THD       |
|------------|----------|----------|---------------|
| 10SL       | 22.80    | 68.60    | 5/8-24 UNEF   |
| 12S        | 25.60    | 68.60    | 5/8-24 UNEF   |
| 14S        | 29.20    | 67.00    | 3/4-20 UNEF   |
| 16S        | 32.00    | 67.00    | 7/8-20 UNEF   |
| 16         | 32.00    | 76.00    | 7/8-20 UNEF   |
| 18         | 36.50    | 76.00    | 1-20 UNEF     |
| 20         | 39.90    | 76.00    | 1 3/16-18UNEF |
| 22         | 43.10    | 76.00    | 1 3/16-18UNEF |
| 24         | 46.60    | 78.00    | 1 7/16-18UNEF |
| 28         | 53.40    | 78.00    | 1 7/16-18UNEF |
| 32         | 60.10    | 80.00    | 1 3/4-18UNS   |
| 36         | 66.30    | 80.00    | 2-18 UNS      |

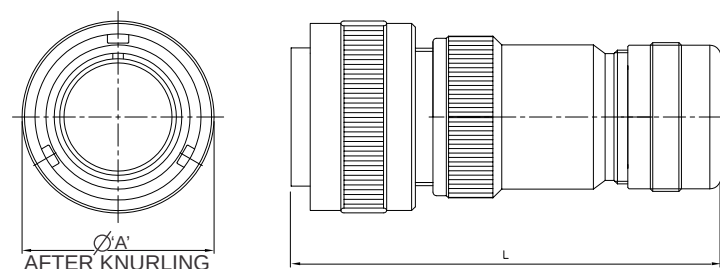
## Straight Plug with PG threaded type B/S suitable for PG Glands

### 106PG



| SHELL SIZE | 'A' MAX. | 'L' MAX | PG THD           |
|------------|----------|---------|------------------|
| 10SL       | 22.80    | 56.00   | 7, 9, 11         |
| 12S        | 25.60    | 56.00   | 7, 9, 11         |
| 14S        | 29.20    | 56.00   | 11, 13.5         |
| 16S        | 32.00    | 58.00   | 9, 11, 16        |
| 16         | 32.00    | 66.00   | 9, 11, 16        |
| 18         | 36.50    | 74.00   | 9, 11, 16, 21    |
| 20         | 39.90    | 74.00   | 11, 16, 21       |
| 22         | 43.10    | 77.00   | 13.5, 16, 21     |
| 24         | 46.60    | 77.00   | 13.5, 16, 21, 29 |
| 28         | 53.40    | 78.00   | 16, 21, 29       |
| 32         | 60.10    | 78.00   | 21, 29           |
| 36         | 66.30    | 90.00   | 21, 29, 36       |

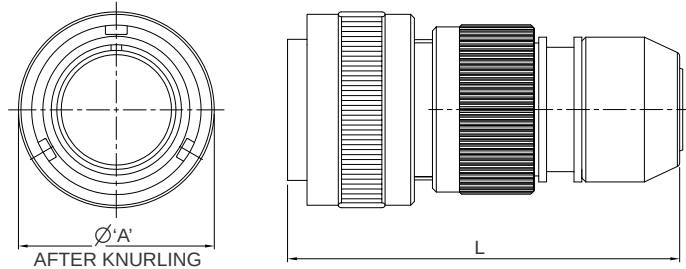
### 106 EGM/PHM



| SHELL SIZE | 'A' MAX | 'L' MAX |
|------------|---------|---------|
| 10SL       | 22.80   | 53.00   |
| 12S        | 25.60   | 53.00   |
| 14S        | 29.20   | 53.00   |
| 16S        | 32.00   | 53.00   |
| 16         | 32.00   | 61.00   |
| 18         | 36.50   | 62.00   |
| 20         | 39.90   | 63.00   |
| 22         | 43.10   | 65.00   |
| 24         | 46.60   | 65.00   |
| 28         | 53.40   | 68.00   |
| 32         | 60.10   | 71.00   |
| 36         | 66.30   | 75.00   |

## Straight Plug with SQ type Shielded B/S & Environmental sealing Grommet & Heat Shrinkable option

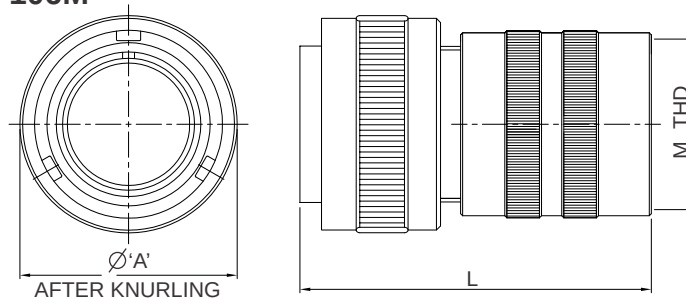
### 106SQ



| SHELL SIZE | 'A' MAX. | 'L' MAX. |
|------------|----------|----------|
| 10SL       | 22.80    | 56.60    |
| 12S        | 25.60    | 56.60    |
| 14S        | 29.20    | 57.00    |
| 16S        | 32.00    | 57.00    |
| 16         | 32.00    | 66.00    |
| 18         | 36.50    | 66.00    |
| 20         | 39.90    | 66.00    |
| 22         | 43.10    | 66.00    |
| 24         | 46.60    | 68.00    |
| 28         | 53.40    | 66.00    |
| 32         | 60.10    | 70.00    |
| 36         | 66.30    | 70.00    |

## Straight Plug with Metric threaded type B/S suitable for Metric Glands

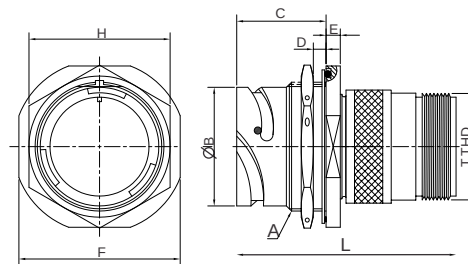
### 106M



| Shell Size | 'A' MAX. | 'L' MAX. | M THD   |
|------------|----------|----------|---------|
| 10SL       | 22.80    | 56.00    | M12X1.5 |
| 14s        | 29.20    | 56.00    | M16X1.5 |
| 16s        | 32.00    | 58.00    | M16X1.5 |
| 6          | 32.00    | 66.00    | M16X1.5 |
| 18         | 36.50    | 74.00    | M20X1.5 |
| 20         | 39.90    | 74.00    | M25X1.5 |
| 22         | 43.10    | 77.00    | M25X1.5 |
| 24         | 46.60    | 77.00    | M32X1.5 |
| 28         | 53.40    | 78.00    | M32X1.5 |
| 32         | 60.10    | 78.00    | M36X1.5 |
| 36         | 66.30    | 90.00    | M40X1.5 |

## Jam Nut Receptacle with A type Solid B/S

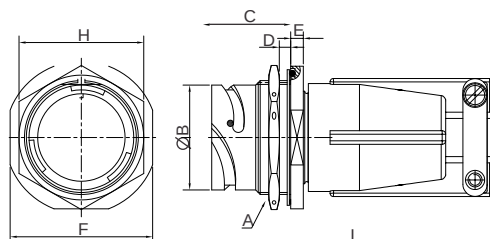
### 107TA



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 52.00 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 58.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 58.00 |
| 16         | 1" 1/4-18 UNEF   | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 68.00 |
| 18         | 1" 3/8- 18 UNEF  | 30..80             | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 76.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 80.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 80.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 82.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 84.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 85.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 85.00 |

## Jam Nut Receptacle with F type Strain Relief B/S with Environmental sealing Grommet

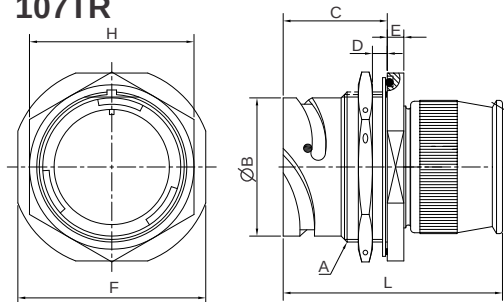
### 107TF



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 69.00 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 72.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 72.00 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 83.00 |
| 18         | 1" 3/8- 18 UNEF  | 30..80             | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 87.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 89.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 89.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 92.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 95.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 97.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 97.00 |

## Jam Nut Receptacle with R type B/S with Environmental sealing Grommet

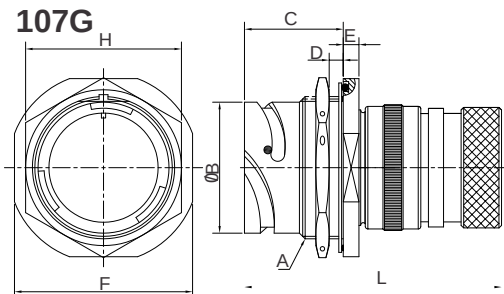
### 107TR



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 56.00 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 59.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 70.00 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 72.00 |
| 18         | 1" 3/8- 18 UNEF  | 30..80             | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 72.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 72.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 72.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 72.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 74.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 74.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 74.00 |

## Jam Nut Receptacle with G type B/S for Heat shrinkable & Environmental sealing Grommet

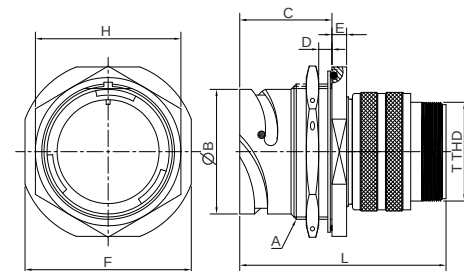
### 107G



| Shell Size | 'A'<br>-2A Threads | 'B'<br>+0.00 - 0.15 | 'C'   | D<br>Wall Thickness |      | E    | F<br>+0.25 | H     | L     |
|------------|--------------------|---------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                    |                     |       | MIN.                | MAX. |      |            |       |       |
| 10SL       | 7/8"-20UNEF        | 18.20               | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 61.00 |
| 14S        | 1" 1/8-18UNEF      | 24.60               | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 66.00 |
| 16S        | 1" 1/4-18UNEF      | 27.40               | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 66.00 |
| 16         | 1" 1/4-18UNEF      | 27.40               | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 76.00 |
| 18         | 1" 3/8-18UNEF      | 30.80               | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 78.00 |
| 20         | 1" 1/2-18UNEF      | 34.20               | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 79.00 |
| 22         | 1" 5/8-18UNEF      | 37.40               | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 81.00 |
| 24         | 1" 3/4-18UNS       | 40.90               | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 79.00 |
| 28         | 2"-18UNS           | 46.70               | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 82.00 |
| 32         | 2" 1/4-16UN        | 53.40               | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 85.00 |
| 36         | 2" 1/2-16UN        | 59.60               | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 90.00 |

## Jam Nut Receptacle with AG type B/S for heat shrinkable & Environmental sealing Grommet

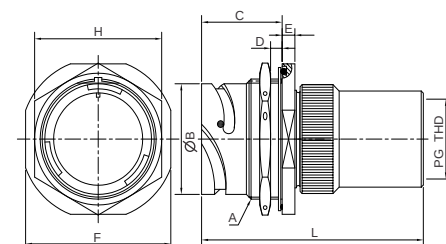
### 107AG



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 77.00 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 80.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 80.00 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 90.00 |
| 18         | 1" 3/8- 18 UNEF  | 30..80             | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 92.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 92.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 92.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 92.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 94.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 94.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 94.00 |

## Jam Nut Receptacle with PG threaded type B/S suitable for PG Glands

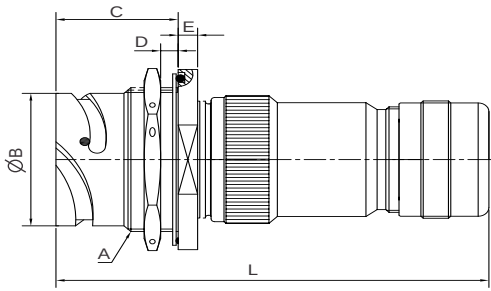
### 107TPG



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L      | PG THD        |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|--------|---------------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |        |               |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 64.60  | 7, 9, 11      |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 68.00  | 11, 13, 5     |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 70.00  | 9, 11, 16     |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 81.00  | 9, 11, 16     |
| 18         | 1" 3/8- 18 UNEF  | 30..80             | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 89.00  | 9, 11, 16, 21 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 90.00  | 11, 16, 21    |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 93.00  | 13, 5, 16, 21 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 91.00  | 13, 5, 16, 21 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 95.00  | 16, 21, 29    |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 94.00  | 21, 29        |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 105.00 | 21, 29, 36    |

## Jam Nut Receptacle with EGM B/S for shielded cable & PHM B/S Unshielded cable with sealing rubber bush

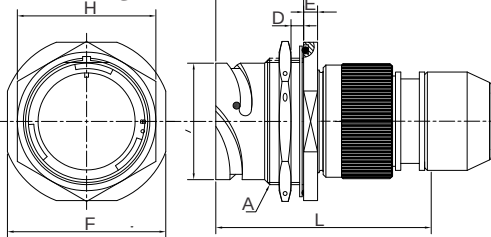
### 107TEGM/PHM



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L      |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|--------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |        |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 104.20 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 107.00 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 107.00 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 107.00 |
| 18         | 1" 3/8- 18 UNEF  | 30.80              | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 118.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 118.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 118.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 118.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 120.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 120.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 120.00 |

## Jam Nut Receptacle with SQ type Shielded B/S & Environmental sealing Grommet & Heat Shrinkable Option

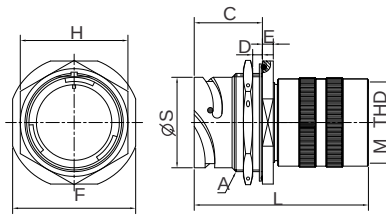
### 107TSQ



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 66.00 |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 70.20 |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 70.20 |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 80.00 |
| 18         | 1" 3/8- 18 UNEF  | 30.80              | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 81.00 |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 81.00 |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 82.00 |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 82.00 |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 84.00 |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 84.00 |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 84.00 |

## Jam Nut Receptacle with Metric threaded type B/S suitable for Metric Glands

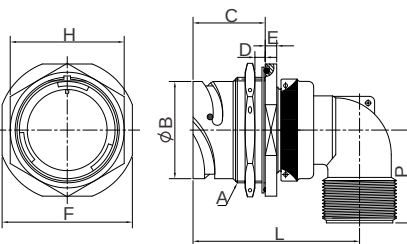
### 107TM



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     | M<br>THD |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|----------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |          |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 66.00 | M12X1.5  |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 70.20 | M16X1.5  |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 70.20 | M16X1.5  |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 80.00 | M16X1.5  |
| 18         | 1" 3/8- 18 UNEF  | 30.80              | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 81.00 | M20X1.5  |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 81.00 | M25X1.5  |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 82.00 | M25X1.5  |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 82.00 | M32X1.5  |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 84.00 | M32X1.5  |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 84.00 | M36X1.5  |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 84.00 | M40X1.5  |

## Jam Nut Receptacle with 90° B/S & Environmental sealing Grommet

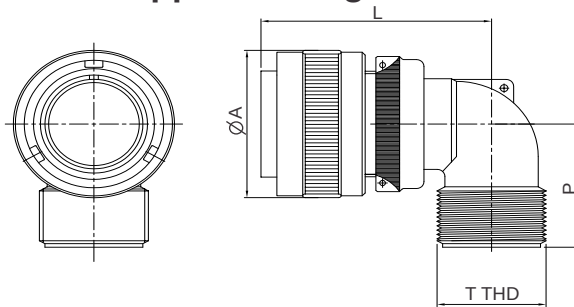
### 107TRT



| SHELL SIZE | A<br>-2A THREADS | B<br>+0.0<br>-0.15 | C     | D<br>WALL THICKNESS |      | E    | F<br>+0.25 | H     | L     | 'P'<br>MAX. |
|------------|------------------|--------------------|-------|---------------------|------|------|------------|-------|-------|-------------|
|            |                  |                    |       | MIN                 | MAX  |      |            |       |       |             |
| 10SL       | 7/8" - 20 UNEF   | 18.20              | 24.50 | 2.40                | 5.20 | 4.00 | 31.80      | 27.00 | 49.00 | 21.50       |
| 14S        | 1" 1/8-18 UNEF   | 24.60              | 26.80 | 2.40                | 7.50 | 4.80 | 41.30      | 33.00 | 54.00 | 23.00       |
| 16S        | 1" 1/4-18 UNEF   | 27.40              | 26.80 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 57.00 | 24.60       |
| 16         | 1" 1/4- 18 UNEF  | 27.40              | 32.10 | 2.40                | 7.50 | 4.80 | 44.40      | 38.10 | 66.00 | 24.60       |
| 18         | 1" 3/8- 18 UNEF  | 30.80              | 33.70 | 2.40                | 9.00 | 4.80 | 47.60      | 39.70 | 69.00 | 27.00       |
| 20         | 1" 1/2- 18 UNEF  | 34.20              | 33.70 | 2.40                | 9.00 | 4.80 | 50.80      | 44.00 | 75.00 | 29.00       |
| 22         | 1" 5/8- 18 UNEF  | 37.40              | 33.70 | 2.40                | 9.10 | 4.80 | 54.20      | 46.00 | 75.00 | 31.00       |
| 24         | 1" 3/4- 18 UNS   | 40.90              | 33.70 | 2.40                | 9.10 | 4.80 | 57.20      | 50.80 | 77.00 | 34.00       |
| 28         | 2" - 18 UNS      | 46.70              | 35.20 | 2.40                | 8.50 | 5.60 | 63.50      | 55.00 | 80.00 | 36.00       |
| 32         | 2" 1/4- 16 UN    | 53.40              | 35.20 | 2.40                | 6.50 | 5.60 | 69.80      | 62.00 | 84.00 | 44.00       |
| 36         | 2" 1/2- 16 UN    | 59.60              | 35.20 | 2.40                | 8.30 | 5.60 | 76.20      | 71.00 | 87.00 | 46.00       |

## 90° Plug Connector

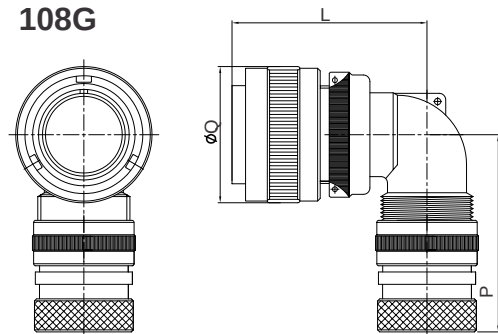
108A=Supplied without grommet  
108R=Supplied with grommet



| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'P' MAX. | 'T' THD        |
|------------|----------|----------|----------|----------------|
| 10SL       | 22.80    | 41.00    | 21.50    | 5/8-24 UNEF    |
| 12S        | 25.60    | 41.00    | 21.50    | 5/8-24 UNEF    |
| 14S        | 29.20    | 41.00    | 23.00    | 3/4-20 UNEF    |
| 16S        | 32.00    | 43.00    | 24.60    | 7/8-20 UNEF    |
| 16         | 32.00    | 53.00    | 24.60    | 7/8-20 UNEF    |
| 18         | 36.50    | 55.00    | 27.00    | 1-20 UNEF      |
| 20         | 39.90    | 60.00    | 29.00    | 1 3/16-18 UNEF |
| 22         | 43.10    | 60.00    | 31.00    | 1 3/16-18 UNEF |
| 24         | 46.60    | 64.00    | 34.00    | 1 7/16-18 UNEF |
| 28         | 53.40    | 64.00    | 36.00    | 1 7/16-18 UNEF |
| 32         | 60.10    | 70.00    | 44.00    | 1 3/4-18 UNS   |
| 36         | 66.30    | 74.00    | 46.00    | 2-18 UNS       |

## 90° Plug connector with G type B/S for Heat Shrinkable & Environmental sealing Grommet

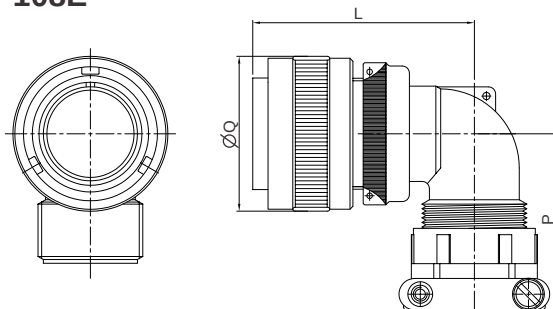
### 108G



| SHELL SIZE | 'A' MAX | 'L' MAX | 'P' MAX |
|------------|---------|---------|---------|
| 10SL       | 22.80   | 41.00   | 46.00   |
| 12S        | 25.60   | 41.00   | 46.20   |
| 14S        | 29.20   | 41.00   | 50.00   |
| 16S        | 32.00   | 43.00   | 52.00   |
| 16         | 32.00   | 53.00   | 52.00   |
| 18         | 36.50   | 55.00   | 55.00   |
| 20         | 39.90   | 60.00   | 58.00   |
| 22         | 43.10   | 60.00   | 62.00   |
| 24         | 46.60   | 64.00   | 63.00   |
| 28         | 53.40   | 64.00   | 65.00   |
| 32         | 60.10   | 76.00   | 76.00   |

## 90° Plug connector with Strain Relief B/S & Environmental sealing Grommet

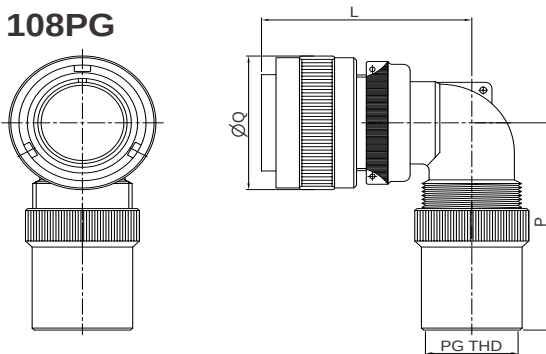
### 108E



| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'P' MAX. |
|------------|----------|----------|----------|
| 10SL       | 22.80    | 41.00    | 38.00    |
| 12S        | 25.60    | 41.00    | 40.00    |
| 14S        | 29.20    | 43.00    | 41.00    |
| 16S        | 32.00    | 53.00    | 45.00    |
| 16         | 32.00    | 55.00    | 45.00    |
| 18         | 36.50    | 60.00    | 48.00    |
| 20         | 39.90    | 60.00    | 50.00    |
| 22         | 46.10    | 64.00    | 52.00    |
| 24         | 46.60    | 64.00    | 56.00    |
| 28         | 53.40    | 70.00    | 58.00    |
| 32         | 60.10    | 70.00    | 68.00    |
| 36         | 36.30    | 74.00    | 70.00    |

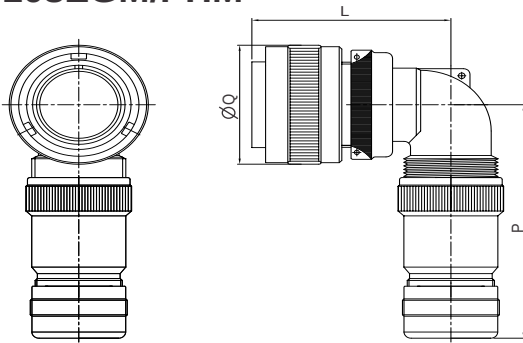
## 90° Plug connector with PG threaded type B/S suitable for PG Glands

### 108PG



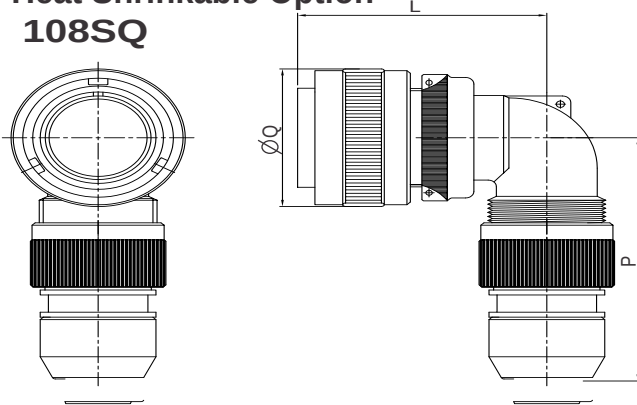
| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'P' MAX. | PG THD           |
|------------|----------|----------|----------|------------------|
| 10SL       | 22.80    | 41.00    | 50.00    | 7, 9, 11         |
| 12S        | 25.60    | 41.00    | 50.00    | 7, 9, 11         |
| 14S        | 29.20    | 41.00    | 52.00    | 11, 13.5         |
| 16S        | 32.00    | 43.00    | 55.00    | 9, 11, 16        |
| 16         | 32.00    | 53.00    | 57.00    | 9, 11, 16        |
| 18         | 36.50    | 55.00    | 67.00    | 9, 11, 16, 21    |
| 20         | 39.90    | 60.00    | 69.00    | 11, 16, 21       |
| 22         | 43.10    | 60.00    | 74.00    | 13.5, 16, 21     |
| 24         | 46.60    | 64.00    | 75.00    | 13.5, 16, 21, 29 |
| 28         | 53.40    | 64.00    | 78.00    | 16, 21, 29       |
| 32         | 60.10    | 70.00    | 85.00    | 21, 29           |
| 36         | 66.30    | 74.00    | 98.00    | 21, 29, 36       |

## 90° Plug connector with EGM B/S for shielded cable & PHM B/S Unshielded cable with sealing rubber bush 108EGM/PHM



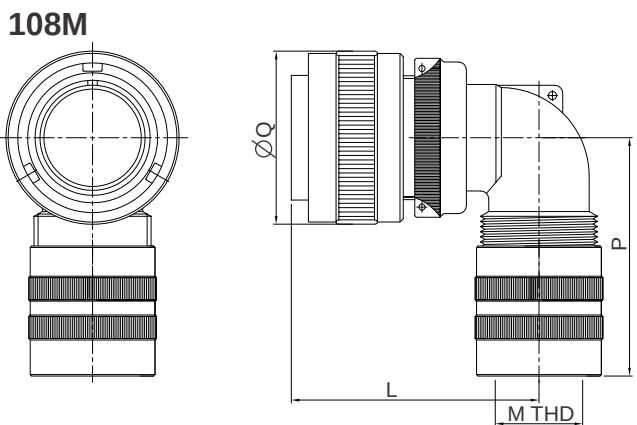
| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'P' MAX. |
|------------|----------|----------|----------|
| 10SL       | 22.80    | 41.00    | 91.00    |
| 12S        | 25.60    | 41.00    | 91.00    |
| 14S        | 29.20    | 41.00    | 91.00    |
| 16S        | 32.00    | 43.00    | 93.00    |
| 16         | 32.00    | 53.00    | 93.00    |
| 18         | 36.50    | 55.00    | 95.00    |
| 20         | 39.90    | 60.00    | 97.00    |
| 22         | 43.10    | 60.00    | 99.00    |
| 24         | 46.60    | 64.00    | 102.00   |
| 28         | 53.40    | 64.00    | 103.00   |
| 32         | 60.10    | 70.00    | 111.00   |
| 36         | 66.30    | 74.00    | 113.00   |

## 90° Plug connector with SQ type Shielded B/S & Environmental sealing Grommet & Heat Shrinkable Option 108SQ



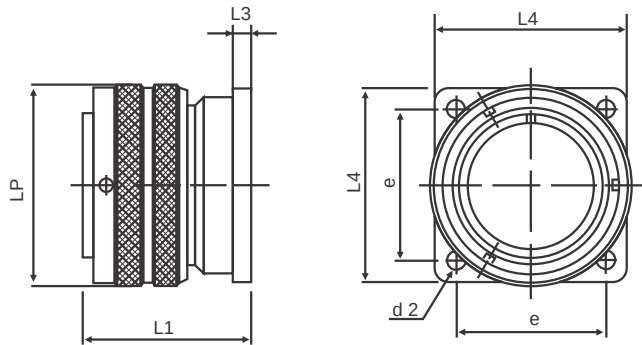
| SHELL SIZE | 'A' MAX. | 'L' MAX. | 'P' MAX. |
|------------|----------|----------|----------|
| 10SL       | 22.80    | 41.00    | 49.00    |
| 12S        | 25.60    | 41.00    | 51.00    |
| 14S        | 29.20    | 41.00    | 55.00    |
| 16S        | 32.00    | 43.00    | 56.00    |
| 16         | 32.00    | 53.00    | 56.00    |
| 18         | 36.50    | 55.00    | 59.00    |
| 20         | 39.90    | 60.00    | 60.00    |
| 22         | 43.10    | 60.00    | 63.00    |
| 24         | 46.60    | 64.00    | 66.00    |
| 28         | 53.40    | 64.00    | 67.00    |
| 32         | 60.10    | 70.00    | 75.00    |
| 36         | 66.30    | 74.00    | 77.00    |

## 90° Plug connector with Metric threaded type B/S suitable for Metric Glands 108M



| Shell Size | 'A' MAX. | 'L' MAX. | 'P' MAX. | M THD   |
|------------|----------|----------|----------|---------|
| 10SL       | 22.80    | 41.00    | 49.50    | M12X1.5 |
| 14s        | 29.20    | 41.00    | 49.50    | M16X1.5 |
| 16s        | 32.00    | 43.00    | 49.50    | M16X1.5 |
| 6          | 32.00    | 53.00    | 52.00    | M16X1.5 |
| 18         | 36.50    | 55.00    | 63.00    | M20X1.5 |
| 20         | 39.90    | 60.00    | 65.00    | M25X1.5 |
| 22         | 43.10    | 60.00    | 67.00    | M25X1.5 |
| 24         | 46.60    | 64.00    | 73.00    | M32X1.5 |
| 28         | 53.40    | 64.00    | 75.00    | M32X1.5 |
| 32         | 60.10    | 70.00    | 85.00    | M36X1.5 |
| 36         | 66.30    | 74.00    | 98.00    | M40X1.5 |

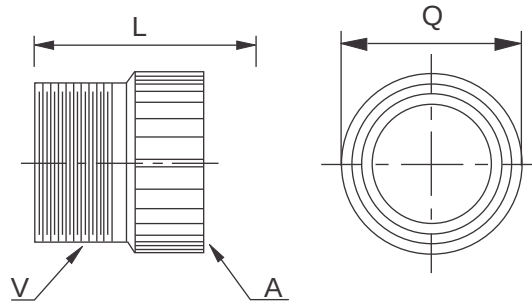
## Panel mounting plug connector 97B - 3164 97B-4164



All dimensions are in mm

| Shell Size | d <sub>1</sub><br>Max | d <sub>2</sub><br>H13 | e<br>±0.1 | l <sub>1</sub><br>~ | l <sub>3</sub><br>±0.2 | l <sub>4</sub><br>±0.3 |
|------------|-----------------------|-----------------------|-----------|---------------------|------------------------|------------------------|
| 10SL       | 22.8                  | 3.2                   | 18.2      | 28.1                | 2.8                    | 25.4                   |
| 14S        | 29.2                  | 3.2                   | 23        | 28.1                | 3.2                    | 30                     |
| 16S        | 32                    | 3.2                   | 24.6      | 28.1                | 3.2                    | 32.5                   |
| 16         | 32                    | 3.2                   | 24.6      | 37.6                | 3.2                    | 32.5                   |
| 18         | 36.5                  | 3.2                   | 27        | 38.6                | 4                      | 35                     |
| 20         | 39.9                  | 3.2                   | 29.4      | 38.6                | 4                      | 38                     |
| 22         | 43.1                  | 3.2                   | 31.8      | 38.6                | 4                      | 41                     |
| 24         | 46.6                  | 3.7                   | 34.9      | 41                  | 4                      | 44.5                   |
| 28         | 53.4                  | 3.7                   | 39.7      | 41.8                | 4                      | 50.8                   |
| 32         | 60.1                  | 4.3                   | 44.5      | 45                  | 4                      | 57                     |
| 36         | 66.3                  | 4.3                   | 49.2      | 45                  | 4                      | 63.5                   |
| 40         | 72.5                  | 4.3                   | 55.5      | 45                  | 4                      | 69.9                   |

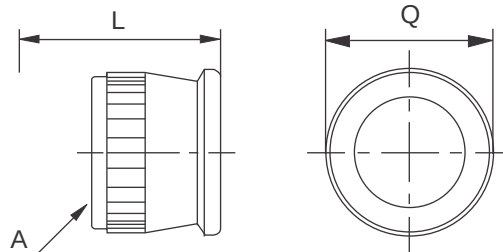
## Solid backshell without grommet and sleeve Class A



All dimensions are in mm

| Connector Size | A Thread in inches | L max for MS | L max for 97B | Q max | V Thread in inches |
|----------------|--------------------|--------------|---------------|-------|--------------------|
| 10SL           | 5/8-24 NEF         | 32.54        | 37.60         | 19.05 | 5/8-24 UNEF        |
| 12S            | 11/16-24 NEF       | 37.31        | ---           | 19.84 | 5/8-24 UNEF        |
| 12             | 11/16-24 NEF       | 46.83        | ---           | 19.84 | 5/8-24 UNEF        |
| 14S            | 3/4-20 UNEF        | 36.51        | 37.64         | 22.22 | 3/4-20 UNEF        |
| 14             | 3/4-20 UNEF        | 46.83        | ---           | 22.22 | 3/4-20 UNEF        |
| 16S            | 7/8-20 UNEF        | 37.70        | 38.83         | 25.40 | 7/8-20 UNEF        |
| 16             | 7/8-20 UNEF        | 48.02        | 48.00         | 25.40 | 7/8-20 UNEF        |
| 18             | 1-20 UNEF          | 50.80        | 51.58         | 28.57 | 1-20 UNEF          |
| 20             | 1 1/8-18 NS        | 53.97        | 54.75         | 31.75 | 1 3/16-18 UNEF     |
| 22             | 1 1/4-18 NEF       | 53.97        | 54.75         | 34.92 | 1 3/16-18 UNEF     |
| 24             | 1 3/8-18 NEF       | 57.15        | 57.94         | 38.10 | 1 7/16-18 UNEF     |
| 28             | 1 5/8-18 NEF       | 57.15        | 57.94         | 44.45 | 1 7/16-18 UNEF     |
| 32             | 1 7/8-16UN         | 59.0         | 59.78         | 51.75 | 1 3/4-18 UNS       |
| 36             | 2 1/16-16UN        | 60.32        | 61.13         | 57.15 | 2-18 UNS           |
| 40             | 2 5/16-16 UN       | 71.80        | 80.00         | 63.50 | 2 1/4 - 16 UN      |

## Solid Backshell With Grommet & Sleeve Class R



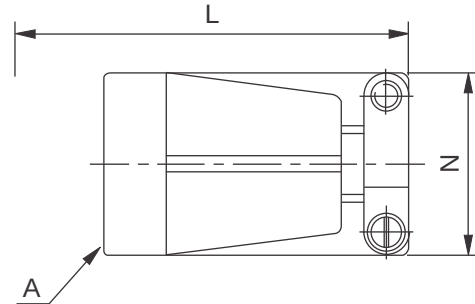
All dimensions are in mm

| Connector Size | A Thread class 2B in inches | For Plug type L max for MS | For Receptacle L max for 97B | Q max |
|----------------|-----------------------------|----------------------------|------------------------------|-------|
| 10SL           | 5/8-24 NEF                  | 47                         | 48                           | 21.50 |
| 12S            | 11/16-24 NEF                | 47                         | ---                          | 20.35 |
| 12             | 11/16-24 NEF                | 55                         | ---                          | 20.35 |
| 14S            | 3/4-20 UNEF                 | 47                         | 48                           | 23.40 |
| 14             | 3/4-20 UNEF                 | 55                         | ---                          | 23.40 |
| 16S            | 7/8-20 UNEF                 | 47                         | 48                           | 26.71 |
| 16             | 7/8-20 UNEF                 | 55                         | 56                           | 26.71 |
| 18             | 1-20 UNEF                   | 57                         | 57                           | 29.50 |
| 20             | 1 1/8-18 NS                 | 57                         | 57                           | 35.70 |
| 22             | 1 1/4-18 NEF                | 57                         | 57                           | 35.85 |
| 24             | 1 3/8-18 NEF                | 57                         | 57                           | 44.40 |
| 28             | 1 5/8-18 NEF                | 57                         | 57                           | 45.08 |
| 32             | 1 7/8-16UN                  | 58.25                      | 60                           | 52.36 |
| 36             | 2 1/16-16UN                 | 58.25                      | 60                           | 56.81 |
| 40             | 2 5/16-16 UN                | 58.25                      | 60                           | 64.50 |

Note - Both versions, straight and diamond knurling available on back accessories. For details, contact factory.

## Back Accessories

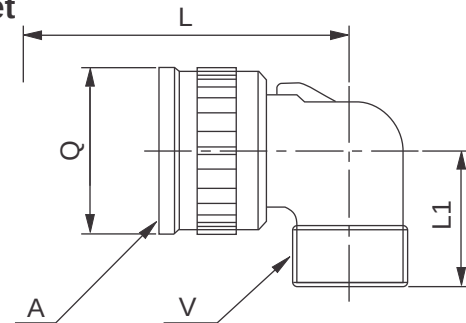
### Strain relief backshell with grommet and sleeve Class E and F



All dimensions are in mm

| Connector Size | A Thread class 2B in inches | L max for MS | L max for 97B | N max |
|----------------|-----------------------------|--------------|---------------|-------|
| 10SL           | 5/8-24 NEF                  | 54.07        | 59.10         | 21.97 |
| 12S            | 11/16-24 NEF                | 54.07        | ---           | 21.97 |
| 14S            | 3/4-20 UNEF                 | 55.90        | 61.34         | 25.15 |
| 16S            | 7/8-20 UNEF                 | 55.90        | 62.86         | 28.45 |
| 16             | 7/8-20 UNEF                 | 64.41        |               | 28.45 |
| 18             | 1-20 UNEF                   | 65.94        | 71.10         | 30.76 |
| 20             | 1 1/8-18 NS                 | 67.41        | 72.55         | 37.29 |
| 22             | 1 1/4-18 NEF                | 67.41        | 72.55         | 37.29 |
| 24             | 1 3/8-18 NEF                | 73.28        | 76.82         | 44.45 |
| 28             | 1 5/8-18 NEF                | 73.28        | 77.82         | 44.45 |
| 32             | 1 7/8-16UN                  | 74.75        |               | 52.22 |
| 36             | 2 1/16-16UN                 | 74.75        | 77.64         | 57.15 |
| 40             | 2 5/16-16 UN                | 86.0         | 125.0         | 67.10 |

### Right Angle Backshell With Or Without Grommet Class A, F & R

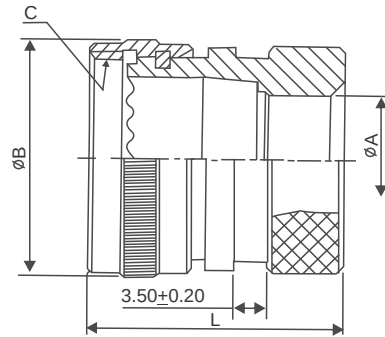


All dimensions are in mm

| Connector Size | A Thread class 2B in inches | L max for MS | L max for 97B | L1 max | Q max | V Thread in inches |
|----------------|-----------------------------|--------------|---------------|--------|-------|--------------------|
| 10SL           | 5/8-24 NEF                  | 37.60        | 45.00         | 25.00  | 22.22 | 5/8-24 UNEF        |
| 12S            | 11/16-24 NEF                | 37.80        | ---           | 25.00  | 25.40 | 5/8-24 UNEF        |
| 12             | 11/16-24 NEF                | 47.30        | ---           | 25.00  | 25.40 | 5/8-24 UNEF        |
| 14S            | 3/4-20 UNEF                 | 39.40        | 47.00         | 27.00  | 28.57 | 3/4-20 UNEF        |
| 14             | 3/4-20 UNEF                 | 48.90        | ---           | 27.00  | 28.57 | 3/4-20 UNEF        |
| 16S            | 7/8-20 UNEF                 | 42.60        | 48.00         | 28.00  | 31.75 | 7/8-20 UNEF        |
| 16             | 7/8-20 UNEF                 | 52.10        | 57.00         | 28.00  | 31.75 | 7/8-20 UNEF        |
| 18             | 1-20 UNEF                   | 53.70        | 58.00         | 31.00  | 34.13 | 1-20 UNEF          |
| 20             | 1 1/8-18 NS                 | 58.80        | 61.00         | 34.00  | 37.30 | 1 3/16-18 UNEF     |
| 22             | 1 1/4-18 NEF                | 58.80        | 61.00         | 34.00  | 40.48 | 1 3/16-18 UNEF     |
| 24             | 1 3/8-18 NEF                | 63.60        | 66.00         | 37.00  | 43.66 | 1 7/16-18 UNEF     |
| 28             | 1 5/8-18 NEF                | 63.60        | 66.00         | 39.00  | 50.00 | 1 7/16-18 UNEF     |
| 32             | 1 7/8-16UN                  | 69.60        | 72.00         | 45.00  | 56.50 | 1 3/4-18 UNS       |
| 36             | 2 1/16-16UN                 | 72.80        | 75.00         | 48.00  | 62.71 | 2-18 UNS           |
| 40             | 2 5/16-26 UN                | 76.00        | 78.00         | 55.00  | 62.71 | 2 1/4 -16 UN       |

Note - Both versions, straight and diamond knurling available on back accessories. For details, contact factory.

## Heat Shrink Boot adaptor (G)



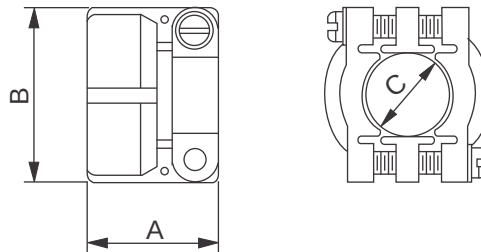
| Shell size | A Min. | B     | L Max. | C- THD        |
|------------|--------|-------|--------|---------------|
| 10SL       | 7.70   | 20.30 | 30.00  | 5/8-24 NEF    |
| 12S        | 8.20   |       |        |               |
| 14S        | 10.60  | 22.30 | 27.00  | 3/4-20 UNEF   |
| 16S        | 13.50  | 24.80 | 29.50  | 7/8-20 UNEF   |
| 16         |        |       |        |               |
| 18         | 14.60  | 28.50 | 33.50  | 1-20 UNEF     |
| 20         | 18.70  | 34.50 |        | 1 1/8-18 NEF  |
| 22         | 20.80  | 35.10 | 35.70  | 1 1/4-18 UNEF |
| 24         | 24.60  | 41.00 | 34.00  | 1 3/8-18 NEF  |
| 28         | 27.00  | 44.80 | 34.10  | 1 5/8-18 NEF  |
| 32         | 33.30  | 51.50 | 34.20  | 1 7/8-16 UN   |
| 36         | 38.50  | 56.00 | 34.20  | 2 1/16-16 UN  |
| 40         | 48.20  | 62.00 | 36.60  | 2 5/16-16 UN  |

## Back Accessories

### Cable clamp

#### MS-3057

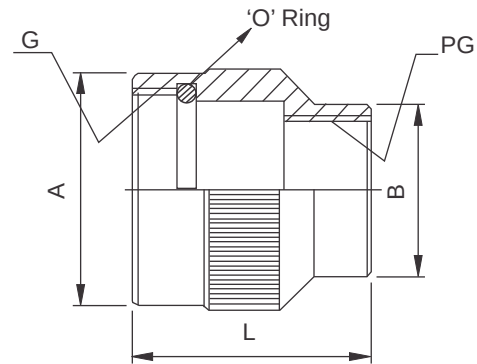
Use MS-3420 sleeves



All dimensions are in mm

| Part number | Shell size | Max OD of cable | A     | B     | C     | Thread in inches |
|-------------|------------|-----------------|-------|-------|-------|------------------|
| MS-3057-4A  | 10SL, 12S  | 5.59            | 20.90 | 21.39 | 7.94  | 5/8-24           |
| MS-3057-6A  | 14, 14S    | 7.92            | 21.59 | 25.27 | 11.11 | 3/4-20           |
| MS-3057-8A  | 16, 16S    | 11.10           | 23.37 | 28.45 | 14.29 | 7/8-20           |
| MS-3057-10A | 18         | 14.27           | 23.37 | 30.89 | 15.87 | 1-20             |
| MS-3057-12A | 20,22      | 15.87           | 23.07 | 35.03 | 19.50 | 1 3/16-18        |
| MS-3057-16A | 24,28      | 19.05           | 25.78 | 42.75 | 23.81 | 1 7/16-18        |
| MS-3057-20A | 32         | 23.80           | 28.00 | 51.00 | 31.70 | 1 3/4-18         |
| MS-3057-24A | 36         | 31.75           | 29.36 | 57.02 | 34.92 | 2-18             |

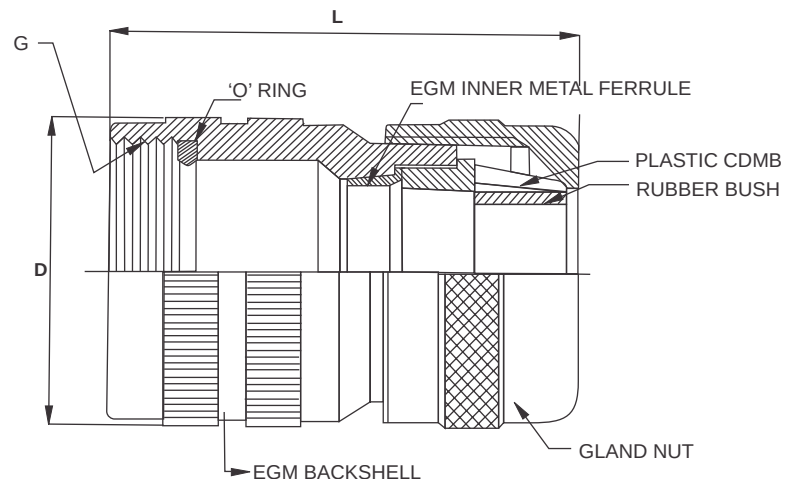
## PG Adaptor



| Shell size | G Thread in inches | PG 9 |    |    | PG 11 |    |    | PG 13 |    |    | PG 16 |    |    | PG 21 |    |    | PG 29 |    |    | PG 36 |    |    |
|------------|--------------------|------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|
|            |                    | A    | B  | L  | A     | B  | L  | A     | B  | L  | A     | B  | L  | A     | B  | L  | A     | B  | L  | A     | B  | L  |
| 10SL       | 5/8-24             |      |    |    |       |    |    |       |    |    |       |    |    |       |    |    |       |    |    |       |    |    |
| 12S        | 11/16-24           |      |    |    |       |    |    |       |    |    |       |    |    |       |    |    |       |    |    |       |    |    |
| 14         | 3/4-20             |      |    |    | 23    | 23 | 30 | 23    | 23 | 30 |       |    |    |       |    |    |       |    |    |       |    |    |
| 16         | 7/8-20             |      |    |    | 25    | 25 | 30 |       |    |    | 25    | 25 | 30 |       |    |    |       |    |    |       |    |    |
| 18         | 1-20               | 30   | 21 | 26 | 30    | 26 | 37 |       |    |    | 30    | 28 | 37 |       |    |    |       |    |    |       |    |    |
| 20         | 1 1/8-18           |      |    |    | 35    | 26 | 40 |       |    |    | 35    | 28 | 40 | 35    | 35 | 40 |       |    |    |       |    |    |
| 22         | 1 1/4-18           |      |    |    |       |    |    |       |    |    | 35    | 28 | 40 | 35    | 35 | 40 |       |    |    |       |    |    |
| 24         | 1 3/8-18           |      |    |    |       |    |    |       |    |    |       |    |    | 38    | 35 | 40 | 40    | 40 | 40 |       |    |    |
| 28         | 1 5/8-18           |      |    |    |       |    |    |       |    |    |       |    |    | 45    | 37 | 45 | 45    | 45 | 45 |       |    |    |
| 36         | 2 1/8-18           |      |    |    |       |    |    |       |    |    |       |    |    |       |    |    | 57    | 44 | 55 | 57    | 57 | 55 |

Ordering Information  
MS - XX-PGY  
Where XX- Shell Size  
YY-PG-Thread Size

## EGM/PHM Backshell Accessories



| Shell size | G Thread in inches | EGM/PHM 11 |       | EGM/PHM 21 |       |
|------------|--------------------|------------|-------|------------|-------|
|            |                    | D          | L     | D          | L     |
| 10SL       | 5/8"-24            | 25.00      | 37.00 | 27.00      | 41.00 |
| 12SL       | 11/16"-24          | 25.00      | 37.00 | 27.00      | 41.00 |
| 14         | 3/4"-20            | 25.00      | 37.00 | 27.00      | 41.00 |
| 16         | 7/8"-20            | 25.00      | 40.00 | 27.00      | 43.00 |
| 18         | 1"-20              | 29.00      | 40.00 | 31.00      | 43.00 |
| 20         | 1.1/8"-18          | 31.50      | 52.00 | 33.50      | 55.00 |
| 22         | 1.1/4"-18          | 35.00      | 60.00 | 35.00      | 60.00 |
| 24         | 1.3/8"-18          | 35.00      | 60.00 | 35.00      | 60.00 |
| 32         | 1.29/32"-18        | 52.00      | 70.00 | 52.00      | 70.00 |
| 36         | 2.1/6"-18          | 52.00      | 70.00 | 52.00      | 70.00 |

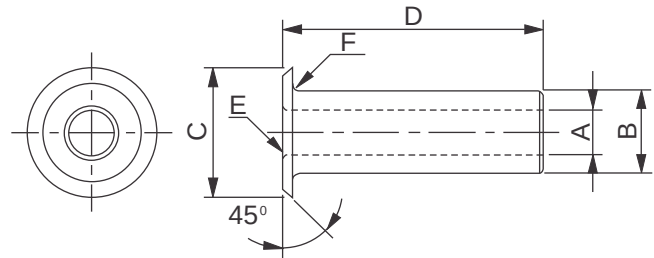
Note:- Rubber Bush supplied in Packing  
In case of PHM inner metal Furrele is not required/supplied

EGM/PHM11 Can accept cable Min. 5.70 mm & Max. 10.85 mm  
EGM/PHM21 Can accept cable Min. 12.70 mm & Max. 17.85 mm

## Neoprene Sleeve

### MS-3420

Rubber bushing. Protects wire bundles and unjacketed cables from possible damage by cable clamp.

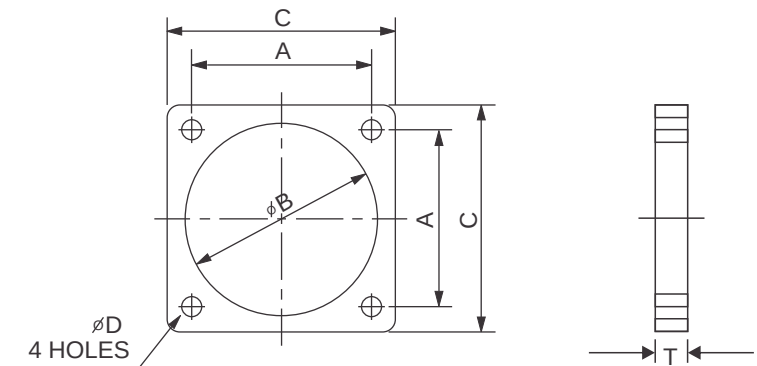


All dimensions are in mm

| Part number | A     | B     | C     | D     | E Rad<br>in inches | F Rad<br>in inches |
|-------------|-------|-------|-------|-------|--------------------|--------------------|
| MS-3420-3   | 3.30  | 5.33  | 9.50  | 73.02 | 0.79               | 0.79               |
| MS-3420-4   | 5.59  | 7.67  | 12.70 | 69.85 | 0.79               | 0.79               |
| MS-3420-6   | 7.92  | 10.84 | 15.59 | 66.67 | 0.79               | 1.59               |
| MS-3420-8   | 11.10 | 14.02 | 18.77 | 63.50 | 1.59               | 1.59               |
| MS-3420-10  | 14.27 | 15.62 | 21.94 | 60.32 | 1.59               | 1.59               |
| MS-3420-12  | 15.87 | 18.80 | 26.23 | 56.20 | 1.59               | 1.59               |
| MS-3420-16  | 19.05 | 23.54 | 26.39 | 53.97 | 1.59               | 1.59               |
| MS-3420-20  | 23.80 | 31.50 | 40.41 | 50.80 | 1.59               | 1.59               |
| MS-3420-24  | 31.75 | 34.67 | 46.79 | 47.62 | 1.59               | 1.59               |

## Plain Flat Gasket

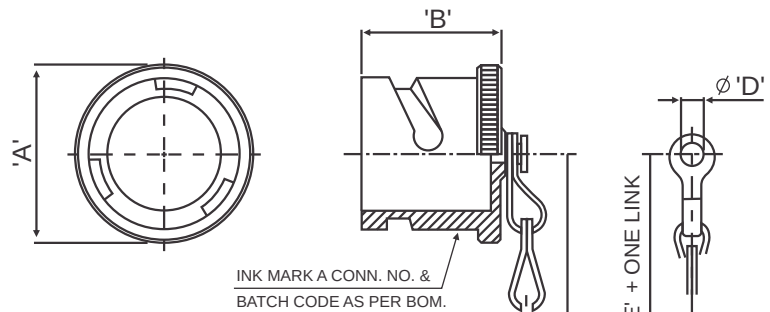
For MS and 97B flange mounted receptacles



All dimensions are in mm

| Part number | Shell size | A max | B     | C     | D    | T   |
|-------------|------------|-------|-------|-------|------|-----|
| MS-101000   | 10SL       | 18.26 | 15.90 | 25.40 | 4.35 | 1.5 |
| MS-108686   | 12S & 12   | 20.62 | 19.05 | 27.80 | 4.35 | 1.5 |
| MS-101001   | 14S & 14   | 23.01 | 22.20 | 30.15 | 4.35 | 1.5 |
| MS-101002   | 16S & 16   | 24.61 | 25.40 | 32.50 | 4.35 | 1.5 |
| MS-101003   | 18         | 27.00 | 28.57 | 34.90 | 5.15 | 1.5 |
| MS-101004   | 20         | 29.36 | 31.75 | 38.10 | 5.15 | 1.5 |
| MS-101005   | 22         | 31.75 | 34.90 | 41.20 | 5.15 | 1.5 |
| MS-108687   | 24         | 34.90 | 38.10 | 44.45 | 5.15 | 1.5 |
| MS-101006   | 28         | 39.70 | 44.45 | 50.80 | 5.15 | 1.5 |
| MS-108688   | 32         | 44.45 | 50.80 | 57.15 | 5.55 | 1.5 |
| MS-101007   | 36         | 49.22 | 55.57 | 63.50 | 5.55 | 1.5 |
| MS-110831   | 40         | 55.77 | 61.92 | 69.85 | 5.55 | 1.5 |

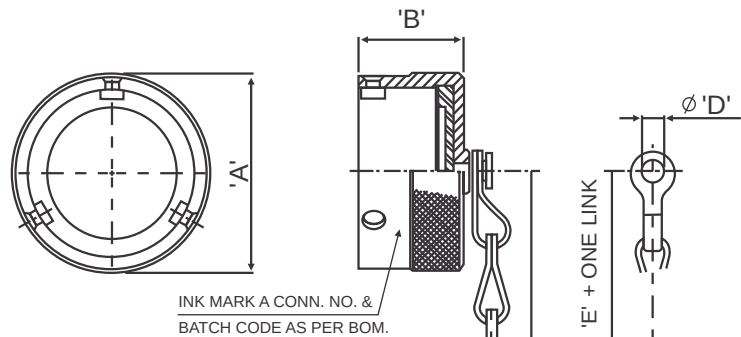
### 97B-25042 For Plugs



All dimensions are in mm

| SHELL SIZE | 'A' MAX. | 'B' MAX. | 'D' + 0.60/-0 | 'E' MIN. |
|------------|----------|----------|---------------|----------|
| 10 SL      | 21.0     | 23.50    | 4.30          | 90.0     |
| 14 S       | 27.50    |          |               | 100.0    |
| 16 S       | 30.0     |          |               | 115.0    |
| 16         | 30.0     | 31.50    | 4.70          | 130.0    |
| 18         | 33.50    |          |               | 130.0    |
| 20         | 37.0     |          |               | 130.0    |
| 22         | 40.0     |          |               | 130.0    |
| 24         | 43.0     |          | 5.50          | 190.0    |
| 28         | 49.50    |          |               | 190.0    |
| 32         | 56.0     |          |               | 190.0    |
| 36         | 62.50    |          |               | 190.0    |
| 40         | 73.0     |          |               | 190.0    |

### Protective cap For 97B series 97B-25043 For Receptacle

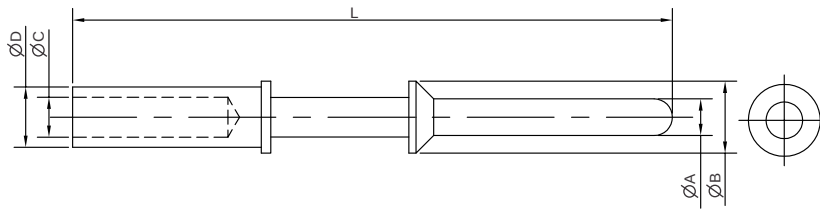


All dimensions are in mm

| SHELL SIZE | 'A' MAX. | 'B' ± 0.20 | 'D' + 0.60/-0 | 'E' MIN. |
|------------|----------|------------|---------------|----------|
| 10 SL      | 23.0     | 16.0       | 4.30          | 90.0     |
| 14 S       | 30.0     |            |               | 100.0    |
| 16 S       | 32.50    |            |               | 115.0    |
| 16         | 32.50    | 20.70      | 4.30          | 130.0    |
| 18         | 37.0     |            |               | 130.0    |
| 20         | 40.50    |            |               | 130.0    |
| 22         | 43.50    |            |               | 130.0    |
| 24         | 47.0     |            | 5.50          | 160.0    |
| 28         | 54.0     |            |               | 160.0    |
| 32         | 60.50    |            |               | 160.0    |
| 36         | 67.0     |            |               | 160.0    |
| 40         | 73.0     |            |               | 160.0    |

Note :- Please add 07 suffix for bigger end link. Applicable for Jam Nut

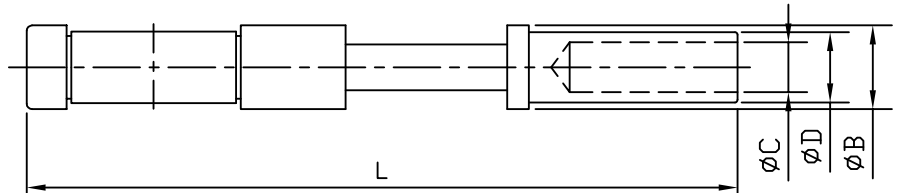
## Pin - Male Crimp Contact



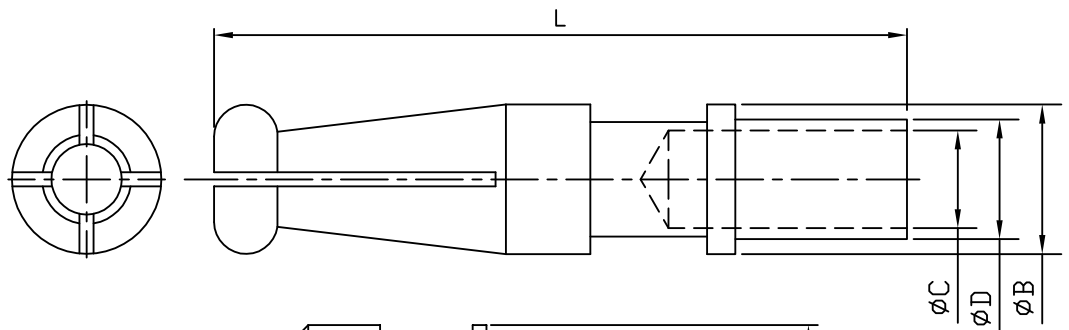
| CONTACT PART NO | CONTACT SIZE | 'A'  | 'B'   | 'C'   | 'D'   | 'L'   |
|-----------------|--------------|------|-------|-------|-------|-------|
| 97B - 106433    | 16S          | 1.59 | 3.10  | 1.72  | 2.60  | 26.00 |
| 97B - 108295    | 16           | 1.59 | 3.10  | 1.72  | 2.60  | 30.50 |
| 97B - 109388    | 12           | 2.39 | 4.78  | 2.51  | 3.96  | 36.60 |
| 97B - 108386    | 8            | 3.60 | 7.85  | 4.57  | 6.75  | 40.70 |
| 97B - 108384    | 4            | 5.70 | 11.10 | 7.15  | 9.50  | 40.70 |
| 97B - 112067    | 0            | 9.05 | 15.00 | 11.90 | 13.90 | 44.45 |

## Socket - Female Crimp Contact

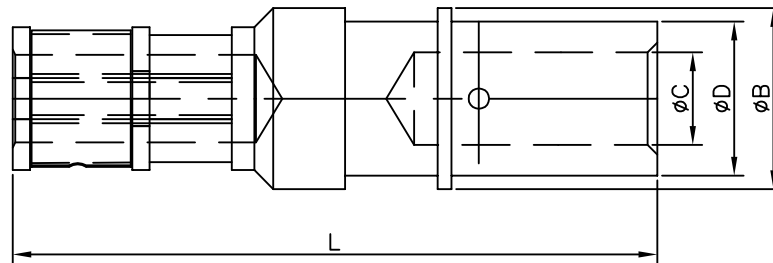
Contact Size 12, 16, 16S



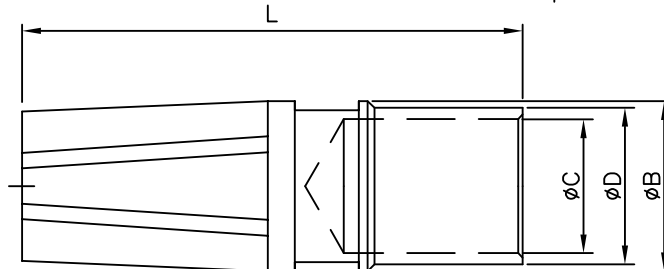
Contact Size 8



Contact Size 4

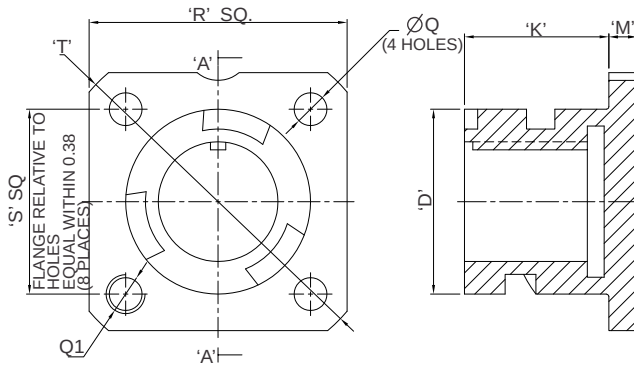


Contact Size 0



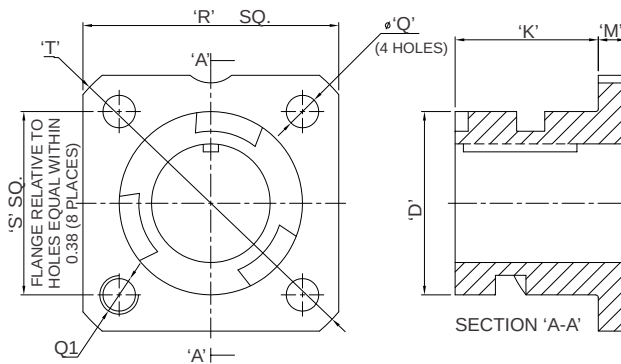
| CONTACT PART NO | CONTACT SIZE | 'B'   | 'C'   | 'D'   | 'L'   |
|-----------------|--------------|-------|-------|-------|-------|
| 97B - 108456    | 16S          | 3.10  | 1.72  | 2.60  | 26.30 |
| 97B - 108457    | 16           | 3.10  | 1.72  | 2.60  | 34.20 |
| 97B - 110262    | 12           | 4.78  | 2.51  | 3.96  | 37.00 |
| 97B - 108387    | 8            | 7.85  | 4.57  | 6.75  | 37.00 |
| 97B - 111878    | 4            | 11.10 | 7.15  | 9.50  | 40.00 |
| 97B - 112068    | 0            | 15.00 | 11.90 | 13.90 | 44.45 |

## Dummy Receptacle Rear Side Closed



| SHELL<br>SIZE | oD<br>+0.0<br>-0.13 | 'K'<br>+0.38<br>-0.0 | 'M'<br>+0.18 | Q<br>+0.10<br>-0.0 | Q1   | R<br>+0.18<br>0.20 | S<br>+0.13 | T<br>+0.23<br>-0.25 |
|---------------|---------------------|----------------------|--------------|--------------------|------|--------------------|------------|---------------------|
| 10SL          | 18.19               | 14.20                | 2.79         | 3.23               | M4   | 25.40              | 18.21      | 33.32               |
| 12S           | 21.30               |                      | 3.20         |                    |      | 28.05              | 20.60      | 36.20               |
| 14S           | 24.59               |                      |              |                    |      | 30.0               | 23.01      | 39.67               |
| 16S           | 27.38               |                      |              |                    |      | 32.51              | 24.61      | 42.87               |
| 16            | 27.38               | 19.0                 |              | 3.99               | 3.73 | M5                 | 35.05      | 27.0                |
| 18            | 30.78               |                      | 38.0         |                    |      |                    | 29.39      | 50.80               |
| 20            | 34.16               |                      | 40.99        |                    |      |                    | 31.80      | 53.98               |
| 22            | 37.36               |                      | 44.45        |                    |      |                    | 34.90      | 60.32               |
| 24            | 40.87               | 20.60                | 4.32         | 4.32               | M5   | 50.80              | 39.70      | 66.68               |
| 28            | 46.68               |                      |              |                    |      | 57.10              | 44.50      | 76.20               |
| 32            | 53.36               |                      |              |                    |      | 63.50              | 49.20      | 84.12               |
| 36            | 59.56               |                      |              |                    |      |                    |            |                     |

## Dummy Receptacle Rear Side Open (Hollow)



| SHELL<br>SIZE | oD<br>+0.0<br>-0.13 | 'K'<br>+0.38<br>-0.0 | 'M'<br>+0.18 | Q<br>+0.10<br>-0.0 | Q1   | R<br>+0.18<br>0.20 | S<br>+0.13 | T<br>+0.23<br>-0.25 |       |       |       |
|---------------|---------------------|----------------------|--------------|--------------------|------|--------------------|------------|---------------------|-------|-------|-------|
| 10SL          | 18.19               | 14.20                | 2.79         | 3.23               | M4   | 25.40              | 18.21      | 33.32               |       |       |       |
| 12S           | 21.30               |                      | 3.20         |                    |      | 28.05              | 20.60      | 36.20               |       |       |       |
| 14S           | 24.59               |                      |              |                    |      | 30.0               | 23.01      | 39.67               |       |       |       |
| 16S           | 27.38               |                      |              |                    |      | 32.51              | 24.61      | 42.87               |       |       |       |
| 16            | 27.38               | 19.0                 |              | 3.99               | 3.73 | M5                 | 35.05      | 27.0                | 46.02 |       |       |
| 18            | 30.78               |                      | 38.0         |                    |      |                    | 29.39      | 50.80               |       |       |       |
| 20            | 34.16               |                      | 40.99        |                    |      |                    | 31.80      | 53.98               |       |       |       |
| 22            | 37.36               |                      | 44.45        |                    |      |                    | 34.90      | 60.32               |       |       |       |
| 24            | 40.87               | 20.60                | 4.32         | 4.32               | M5   | 50.80              | 39.70      | 66.68               |       |       |       |
| 28            | 46.68               |                      |              |                    |      | 57.10              | 44.50      | 76.20               |       |       |       |
| 32            | 53.36               | 22.20                |              |                    |      | 4.32               | 4.32       | M5                  | 63.50 | 49.20 | 84.12 |
| 36            | 59.56               |                      |              |                    |      |                    |            |                     |       |       |       |

## ORDERING INFO

**97B-3105-XX-CF**

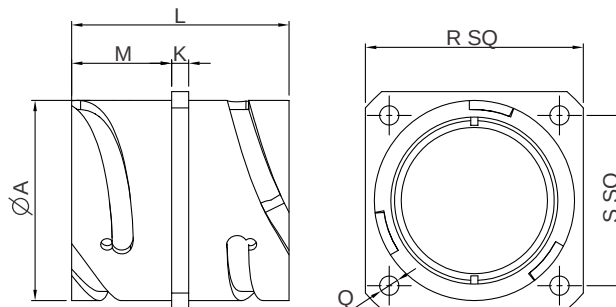
SERIES DESIGNATION

CF-CLOSED FLANGE  
HF-HOLLOW FLANGE

DESIGNATION FOR  
DUMMY RECEPTACLE

SHELL SIZE

## Thru Bulkhead Receptacle



| SHELL SIZE | 'A'<br>+0.0<br>-0.15 | 'K'<br>+0.20 | 'M'<br>+0.41<br>-0.0 | 'R'<br>+0.10 | 'S'<br>+0.20 | 'L'<br>MAX. |
|------------|----------------------|--------------|----------------------|--------------|--------------|-------------|
| 10SL       | 18.21                | 2.79         | 14.20                | 18.20        | 25.40        | 37.75       |
| 12S        | 21.40                | 3.20         | 14.20                | 20.60        | 28.00        | 37.75       |
| 14S        | 24.61                | 3.20         | 14.20                | 23.00        | 30.00        | 37.75       |
| 16S        | 27.41                | 3.20         | 14.20                | 24.60        | 32.50        | 37.75       |
| 16         | 27.41                | 3.20         | 19.00                | 24.60        | 32.50        | 51.40       |
| 18         | 30.81                | 3.99         | 19.00                | 27.00        | 35.00        | 51.40       |
| 20         | 34.19                | 3.99         | 19.00                | 29.40        | 38.00        | 51.40       |
| 22         | 37.39                | 3.99         | 19.00                | 31.80        | 41.00        | 51.40       |
| 24         | 40.89                | 3.99         | 20.60                | 34.90        | 44.50        | 51.40       |
| 28         | 46.71                | 3.99         | 20.60                | 39.70        | 50.80        | 51.40       |
| 32         | 53.39                | 3.99         | 22.20                | 44.50        | 57.00        | 51.40       |
| 36         | 59.59                | 3.99         | 22.20                | 49.20        | 63.50        | 51.40       |

**ORDERING INFO**  
**TBH-97BS-XX-YY PS**

THRU BULKHEAD SERIES

SERIES DESIGNATION

PIN & SOCKET CONTACT

INSERT ARRANGEMENT

## MS/97B Connector- Accessories

### Crimp contact

Contacts for MS/97B 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. Gold plated contacts are also available.

| Part Number<br>For Crimp Contacts<br>only* | Pin/<br>Socket | Mating End<br>Size | Wire Barrel<br>Size | Allowable<br>Wire size | Test Current***<br>Amps | Insertion/Removal<br>Tool |
|--------------------------------------------|----------------|--------------------|---------------------|------------------------|-------------------------|---------------------------|
| MS-106433<br>MS-108456                     | Pin<br>Socket  | 16 Short†          | 16                  | 16<br>18<br>60<br>22** | 13<br>10<br>7.5<br>5    | 97B-IR-16                 |
| MS-108295<br>MS-108457                     | Pin<br>Socket  | 16 Long            | 16                  | 16<br>18<br>20<br>22** | 13<br>10<br>7.5<br>5    | 97B-IR-16                 |
| MS-108388<br>MS-110262                     | Pin<br>Socket  | 12                 | 12                  | 12<br>14               | 23<br>17                | 97B-IR-12                 |
| MS-108386<br>MS-108387                     | Pin<br>Socket  | 8                  | 8                   | 8<br>10**              | 46<br>33                | 97B-IR-8                  |
| MS-108384<br>MS-111878                     | Pin<br>Socket  | 4                  | 4                   | 4<br>6**               | 80<br>60                | 97B-IR-4                  |
| MS-112067<br>MS-112068                     | Pin<br>Socket  | 0                  | 0                   | 0<br>1<br>2**          | 150<br>125              | 97B-IR-0                  |

\* Solder contacts are not sold as separate items. Part numbers shown here are for crimp contacts only.

\*\* When using wire adapter sleeve shown.

\*\*\* Contact rating 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.

## MS/97B Connectors

### 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.

TOOLING CHART

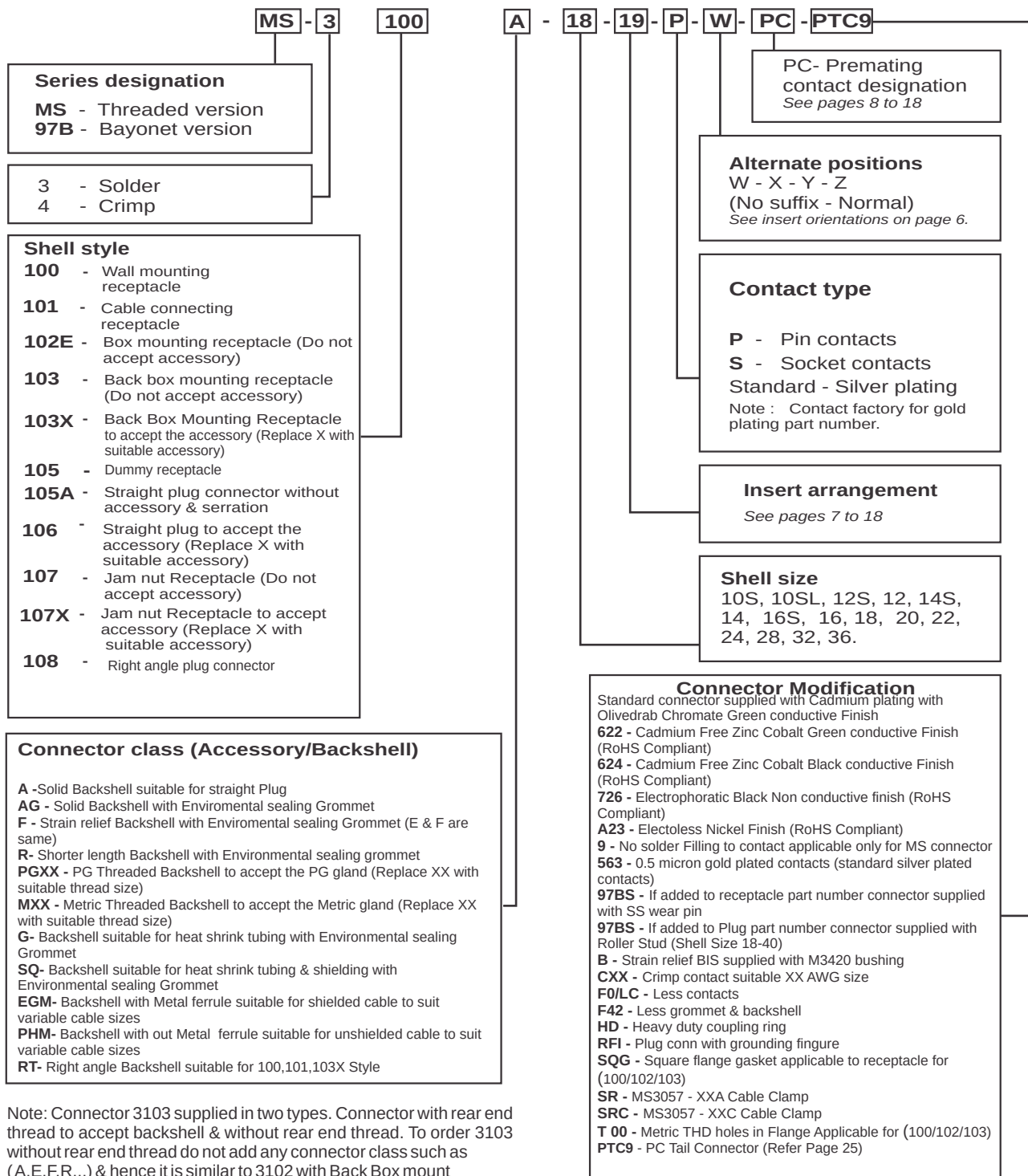
| Crimping<br>Tool | Positioner/<br>Turret |
|------------------|-----------------------|
| M22520/1-01      | *                     |
| M22520/1-01      | *                     |
| **               | **                    |
| **               | **                    |
| **               | **                    |

\* 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

To obtain the specific connector required, write down the connector number from the typical example below. Only inserts shown in the availability chart shown on page 7 can be specified. Connectors are delivered with protective plastic dust covers. Include premating contact designation only if premating contact is required. The second letter in the premating contact designation stands for the actual contact position. **B** at the end of the connector number indicates telescopic bushing provided.



Notice : All information, including illustrations given herein is believed to be accurate at the time of printing. In lieu of design advances, Amphenol reserves the right to change specifications without notice. This publication ACRMS02 03/13 MS AND 97B Series Connectors supercedes all existing Amphenol literature on MS AND 97 B Series Connectors.

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