

# Amphenol® GT Series Reversed Bayonet Coupling Connectors

12-024-4



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**Amphenol**

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# Amphenol® GT Connectors



**wall mount receptacle**



**inline receptacle**



**straight plug**



**plug with rubber covered  
coupling nut**



**jam nut receptacle**

## **Amphenol® GT reverse bayonet coupling connectors with MIL-C-5015 insert patterns features:**

- Quick positive coupling
- Audible, tactile and visual indication of full coupling
- Waterproof
- No lockwiring required
- High shock and vibration capabilities
- Inserts available in Neoprene and Viton\* materials
- Low smoke/flame retardant inserts also available
- Operating temperature range:  
With Neoprene inserts:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$   
With Viton\*\* inserts:  $-50^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$   
With low smoke/flame retardant inserts:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Thermocouple contacts available
- Numerous military and commercial finishes available
- Zinc alloy plating (cadmium free) available
- Rugged construction; aluminum or stainless steel components
- Available with resilient cover coupling for added damage protection and increased gripping surface
- Intermateable with existing VG95234 connectors
- 2000 couplings minimum

Amphenol® GT Connectors feature a quick mating bayonet coupling with an audible, tactile and visual full mating feature. Designed originally for use by the military, the heavy duty GT connector has become widely used in commercial, geophysical, aerospace, ground support and ship-board applications.

See page 84 for Amphenol's newest offerings of GT Series connectors - the GT-PC for high voltage power applications and GT connectors with color-coded receptacles and backshells for the HMI lighting industry.

For further information on your individual application requirements, contact:

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Amphenol Aerospace  
40-60 Delaware Avenue  
Sidney, New York 13838-1395  
Phone: 607-563-5011 Fax: 607-563-5351

### **NOTE:**

The connector products in this brochure were formerly known as Bendix® products. These products are now manufactured and sold under the Amphenol® brand name. The name "Amphenol" will replace the name "Bendix" on products and literature in the future.

# MS/Standard

## insert availability

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |   |   |    |    |
|--------------------|----------------|----------------|--------------|---|---|----|----|
|                    |                |                | 0            | 4 | 8 | 12 | 16 |
| 8S-1               | A              | 1              |              |   |   |    | 1  |
| 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-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 |    |    |
| 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  |
| 18-6               | 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  |

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

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

# MS/Standard

## insert availability, cont.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |   |   |    |    |
|--------------------|----------------|----------------|--------------|---|---|----|----|
|                    |                |                | 0            | 4 | 8 | 12 | 16 |
| 22-33              | D/A            | 7              |              |   |   |    | 7  |
| 22-34              | D              | 5              |              |   |   | 3  | 2  |
| 24-2               | D              | 7              |              |   |   | 7  |    |
| 24-3               | D              | 7              |              |   |   | 2  | 5  |
| 24-5               | A              | 16             |              |   |   |    | 16 |
| 24-6               | D/A            | 8              |              |   |   | 8  |    |
| 24-7               | A              | 16             |              |   |   | 2  | 14 |
| 24-9               | A              | 2              |              | 2 |   |    |    |
| 24-10              | A              | 7              |              |   | 7 |    |    |
| 24-11              | A              | 9              |              |   | 3 | 6  |    |
| 24-12              | A              | 5              |              | 2 |   | 3  |    |
| 24-16              | D/A            | 7              |              |   | 1 | 3  | 3  |
| 24-17              | D              | 5              |              |   |   | 2  | 3  |
| 24-20              | D              | 11             |              |   |   | 2  | 9  |
| 24-21              | D              | 10             |              |   | 1 |    | 9  |
| 24-22              | D              | 4              |              |   | 4 |    |    |
| 24-27              | E              | 7              |              |   |   |    | 7  |
| 24-28              | Inst.          | 24             |              |   |   |    | 24 |
| 28-1               | D/A            | 9              |              |   | 3 | 6  |    |
| 28-2               | D              | 14             |              |   |   | 2  | 12 |
| 28-3               | E              | 3              |              |   | 3 |    |    |
| 28-4               | E/D            | 9              |              |   |   | 2  | 7  |
| 28-5               | D              | 5              |              | 2 |   | 1  | 2  |
| 28-6               | D              | 3              |              | 3 |   |    |    |
| 28-7               | D              | 2              |              | 2 |   |    |    |
| 28-8               | E/D/A          | 12             |              |   |   | 2  | 10 |
| 28-9               | D              | 12             |              |   |   | 6  | 6  |
| 28-10              | D/A            | 7              |              | 2 | 2 | 3  |    |
| 28-11              | A              | 22             |              |   |   | 4  | 18 |
| 28-12              | A              | 26             |              |   |   |    | 26 |
| 28-13              | A              | 26             |              |   |   |    | 26 |
| 28-15              | A              | 35             |              |   |   |    | 35 |
| 28-16              | A              | 20             |              |   |   |    | 20 |
| 28-17              | B/D/A          | 15             |              |   |   |    | 15 |
| 28-18              | C/D/A/Inst.    | 12             |              |   |   |    | 12 |
| 28-19              | B/D/A          | 10             |              |   |   | 4  | 6  |
| 28-20              | A              | 14             |              |   |   | 10 | 4  |
| 28-21              | A              | 37             |              |   |   |    | 37 |
| 28-22              | D              | 6              |              | 3 |   |    | 3  |

| Insert Arrangement | Service Rating | Total Contacts | Contact Size |   |   |    |    |
|--------------------|----------------|----------------|--------------|---|---|----|----|
|                    |                |                | 0            | 4 | 8 | 12 | 16 |
| 32-1               | E/D            | 5              | 2            |   |   | 3  |    |
| 32-2               | E              | 5              |              | 3 |   |    | 2  |
| 32-3               | D              | 9              | 1            | 2 |   | 2  | 4  |
| 32-4               | A/D            | 14             |              |   |   | 2  | 12 |
| 32-5               | D              | 2              | 2            |   |   |    |    |
| 32-6               | A              | 23             |              | 2 | 3 | 2  | 16 |
| 32-7               | Inst./A        | 35             |              |   |   | 7  | 28 |
| 32-8               | A              | 30             |              |   |   | 6  | 24 |
| 32-9               | D              | 14             |              | 2 |   |    | 12 |
| 32-10              | E/B/D/A        | 7              |              | 2 | 2 |    | 3  |
| 32-12              | A/D            | 15             |              |   |   | 5  | 10 |
| 32-13              | D              | 23             |              |   |   | 5  | 18 |
| 32-15              | D              | 8              | 2            |   |   | 6  |    |
| 32-16              | A              | 23             |              | 2 | 3 | 2  | 16 |
| 32-17              | D              | 4              |              | 4 |   |    |    |
| 32-22              | A              | 54             |              |   |   |    | 54 |
| 32-31              | A              | 31             |              |   |   |    | 31 |
| 36-1               | D              | 22             |              |   |   | 4  | 18 |
| 36-3               | D              | 6              | 3            |   |   | 3  |    |
| 36-4               | D/A            | 3              | 3            |   |   |    |    |
| 36-5               | A              | 4              | 4            |   |   |    |    |
| 36-6               | A              | 6              | 2            | 4 |   |    |    |
| 36-7               | A              | 47             |              |   |   | 7  | 40 |
| 36-8               | A              | 47             |              |   |   | 1  | 46 |
| 36-9               | A              | 31             |              | 1 | 2 | 14 | 14 |
| 36-10              | A              | 48             |              |   |   |    | 48 |
| 36-11              | A              | 48             |              |   |   |    | 48 |
| 36-12              | A              | 48             |              |   |   |    | 48 |
| 36-13              | E/A            | 17             |              |   |   | 2  | 15 |
| 36-14              | D              | 16             |              |   | 5 | 5  | 6  |
| 36-15              | D/A            | 35             |              |   |   |    | 35 |
| 36-16              | A              | 47             |              |   |   | 7  | 40 |
| 36-17              | A              | 47             |              |   |   | 7  | 40 |
| 36-18              | A              | 31             |              | 1 | 2 | 14 | 14 |
| 36-20              | A              | 34             |              |   | 2 | 2  | 30 |
| 36-52              | A              | 52             |              |   |   |    | 52 |
| 40-1               | D              | 30             |              |   |   | 6  | 24 |
| 40-9               | A              | 47             |              |   | 1 | 22 | 24 |
| 40-56              | A              | 85             |              |   |   |    | 85 |

# Special insert availability

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |   |    |    |    |        |   |   |    |    |
|----------------------------|-------------------|------------------------|--------------|---|----|----|----|--------|---|---|----|----|
|                            |                   |                        | 0            | 4 | 8  | 12 | 16 | Coax** |   |   |    |    |
|                            |                   |                        |              |   |    |    |    | 0      | 4 | 8 | 12 |    |
| 14-A7                      | A                 | 7                      |              |   |    |    | 7  |        |   |   |    |    |
| 16-59                      | A                 | 4                      |              |   |    | 4  |    |        |   |   |    |    |
| 20-51                      | A                 | 3                      |              |   | 3  |    |    |        |   |   |    |    |
| 20-57                      | A                 | 7                      |              |   |    | 7* |    |        |   |   |    |    |
| 20-58                      | A                 | 10                     |              |   |    | 5  | 5  |        |   |   |    |    |
| 20-59                      | A                 | 3                      |              |   | 3* |    |    |        |   |   |    |    |
| 20-66                      | A                 | 6                      |              |   |    | 5* | 1  |        |   |   |    |    |
| 20-79                      | A/D               | 8                      |              |   |    | 1  | 7  |        |   |   |    |    |
| 22-63                      | A                 | 12                     |              |   |    | 4  | 8  |        |   |   |    |    |
| 22-65                      | A/D               | 8                      |              |   |    | 8* |    |        |   |   |    |    |
| 22-70                      | A                 | 13                     |              |   |    | 8  | 5  |        |   |   |    |    |
| 22-80                      | A                 | 3                      |              |   | 3* |    |    |        |   |   |    |    |
| 24-51                      | A                 | 5                      |              |   | 5  |    |    |        |   |   |    |    |
| 24-52                      | Hi Volt.          | 1                      |              |   |    | 1  |    |        |   |   |    |    |
| 24-53                      | A                 | 5                      |              |   | 5  |    |    |        |   |   |    |    |
| 24-58                      | A                 | 13                     |              |   | 3  | 3  | 7  |        |   |   |    |    |
| 24-59                      | A                 | 14                     |              |   |    | 7  | 7  |        |   |   |    |    |
| 24-60                      | A                 | 7                      |              |   | 7* |    |    |        |   |   |    |    |
| 24-65                      | A                 | 15                     |              |   |    | 11 | 4  |        |   |   |    |    |
| 24-66                      | D                 | 7                      |              |   |    | 7  |    |        |   |   |    |    |
| 24-67                      | Inst.             | 19                     |              |   |    | 19 |    |        |   |   |    |    |
| 24-71                      | A                 | 7                      |              |   | 7* |    |    |        |   |   |    |    |
| 24-75                      | A                 | 7                      |              |   | 7* |    |    |        |   |   |    |    |
| 24-79                      | A                 | 5                      |              |   | 5  |    |    |        |   |   |    |    |
| 24-80                      | Inst.             | 23                     |              |   |    |    | 23 |        |   |   |    |    |
| 24-84                      | A                 | 19                     |              |   |    | 1  |    |        |   |   |    | 18 |
| 24-96                      | Inst.             | 28                     |              |   |    |    | 28 |        |   |   |    |    |
| 24-AJ                      | A                 | 25                     |              |   |    |    | 25 |        |   |   |    |    |
| 28-51                      | A                 | 12                     |              |   |    | 12 |    |        |   |   |    |    |
| 28-59                      | A                 | 17                     |              |   |    | 7  | 10 |        |   |   |    |    |
| 28-66                      | A                 | 16                     |              |   | 2  | 14 |    |        |   |   |    |    |
| 28-72                      | Coax              | 3                      |              |   |    |    |    |        | 3 |   |    |    |
| 28-74                      | A                 | 16                     |              |   | 7* |    | 9  |        |   |   |    |    |
| 28-75                      | A                 | 16                     |              |   | 7* |    | 9  |        |   |   |    |    |
| 28-79                      | A                 | 16                     |              |   | 7  |    | 9  |        |   |   |    |    |
| 28-82                      | D                 | 6                      |              |   | 2  | 4  |    |        |   |   |    |    |
| 28-84                      | A                 | 9                      |              |   | 9  |    |    |        |   |   |    |    |
| 28-AY                      | A                 | 9                      |              | 4 |    |    | 5  |        |   |   |    |    |
| 32-25                      | A                 | 25                     |              |   |    | 25 |    |        |   |   |    |    |
| 32-52                      | D                 | 8                      | 2            |   |    | 6  |    |        |   |   |    |    |
| 32-53                      | Inst./E           | 42                     |              |   |    | 5  | 37 |        |   |   |    |    |
| 32-56                      | A                 | 30                     |              |   |    | 6* | 24 |        |   |   |    |    |
| 32-57                      | Coax              | 8                      |              |   |    | 6  |    | 2      |   |   |    |    |
| 32-58                      | Coax              | 4                      |              |   |    |    |    |        | 4 |   |    |    |
| 32-60                      | A                 | 23                     |              |   |    |    | 15 |        |   |   | 8  |    |
| 32-62                      | Coax              | 23                     |              | 2 | 1  | 2  | 16 |        |   | 2 |    |    |
| 32-64                      | Inst.             | 54                     |              |   |    |    | 54 |        |   |   |    |    |
| 32-68                      | A                 | 16                     |              |   |    |    | 12 |        | 4 |   |    |    |

\* Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (\*) are exceptions. See insert arrangement drawings on pages 18-26 for application wire size.

| Insert<br>Arrange-<br>ment | Service<br>Rating | Total<br>Con-<br>tacts | Contact Size |    |    |     |     |        |    |    |    |  |
|----------------------------|-------------------|------------------------|--------------|----|----|-----|-----|--------|----|----|----|--|
|                            |                   |                        | 0            | 4  | 8  | 12  | 16  | Coax** |    |    |    |  |
|                            |                   |                        |              |    |    |     |     | 0      | 4  | 8  | 12 |  |
| 32-73                      | A                 | 46                     |              |    |    |     | 46  |        |    |    |    |  |
| 32-75                      | Coax              | 9                      |              |    |    | 2   |     |        |    | 7  |    |  |
| 32-76                      | A                 | 19                     |              |    |    | 19  |     |        |    |    |    |  |
| 32-79                      | D                 | 5                      |              | 4  | 1  |     |     |        |    |    |    |  |
| 32-82                      | A                 | 16                     |              | 4  |    |     | 12  |        |    |    |    |  |
| 32-AF                      | A                 | 55                     |              |    |    |     | 55  |        |    |    |    |  |
| 36-51                      | D                 | 4                      | 2            | 2  |    |     |     |        |    |    |    |  |
| 36-54                      | A                 | 39                     |              |    | 8  |     | 31  |        |    |    |    |  |
| 36-55                      | A                 | 39                     |              |    | 8* |     | 31  |        |    |    |    |  |
| 36-59                      | A                 | 53                     |              |    |    | 3*  | 50  |        |    |    |    |  |
| 36-60                      | A                 | 47                     |              |    |    | 7*  | 40  |        |    |    |    |  |
| 36-64                      | Coax              | 4                      |              |    |    |     |     | 4      |    |    |    |  |
| 36-65                      | Coax              | 4                      |              |    |    |     |     | 4      |    |    |    |  |
| 36-71                      | A                 | 53                     |              |    |    | 3   | 50  |        |    |    |    |  |
| 36-73                      | Coax              | 7                      |              |    |    |     |     |        | 7  |    |    |  |
| 36-74                      | A                 | 44                     |              |    |    |     | 43  |        |    |    | 1  |  |
| 36-75                      | A                 | 48                     |              |    |    |     | 48* |        |    |    |    |  |
| 36-76                      | A                 | 47                     |              |    |    |     | 47  |        |    |    |    |  |
| 36-77                      | D                 | 7                      |              | 7  |    |     |     |        |    |    |    |  |
| 36-78                      | A                 | 14                     |              |    | 12 |     | 2   |        |    |    |    |  |
| 36-79                      | A                 | 20                     |              |    |    | 20  |     |        |    |    |    |  |
| 36-80                      | A                 | 20                     |              |    |    | 20* |     |        |    |    |    |  |
| 36-83                      | Coax              | 7                      |              |    |    |     |     |        | 7  |    |    |  |
| 36-85                      | A/D               | 35                     |              |    |    |     | 35* |        |    |    |    |  |
| 36-AF                      | A                 | 48                     |              |    |    |     | 48  |        |    |    |    |  |
| 40-5                       | A                 | 5                      | 5            |    |    |     |     |        |    |    |    |  |
| 40-10                      | A                 | 29                     |              | 4  | 9  |     | 16  |        |    |    |    |  |
| 40-35                      | D                 | 35                     |              |    |    | 35  |     |        |    |    |    |  |
| 40-53                      | A                 | 60                     |              |    |    |     | 60  |        |    |    |    |  |
| 40-57                      | E                 | 4                      | 4            |    |    |     |     |        |    |    |    |  |
| 40-61                      | A                 | 59                     |              |    | 1  | 3   | 55  |        |    |    |    |  |
| 40-62                      | A                 | 60                     |              |    |    |     | 60  |        |    |    |    |  |
| 40-63                      | A                 | 61                     |              |    |    |     | 61* |        |    |    |    |  |
| 40-64                      | Coax              | 36                     |              |    |    | 3   | 20  |        |    | 13 |    |  |
| 40-66                      | Coax              | 4                      |              |    |    |     |     | 4      |    |    |    |  |
| 40-67                      | A                 | 11                     |              |    |    |     | 1   |        | 10 |    |    |  |
| 40-68                      | A                 | 21                     |              |    | 21 |     |     |        |    |    |    |  |
| 40-70                      | A                 | 61                     |              |    |    |     | 61  |        |    |    |    |  |
| 40-72                      | A                 | 11                     |              |    |    |     | 1   |        | 10 |    |    |  |
| 40-73                      | A                 | 61                     |              |    |    |     | 61  |        |    |    |    |  |
| 40-74                      | A                 | 6                      |              |    |    | 1   |     | 4      | 1  |    |    |  |
| 40-75                      | E                 | 5                      | 4            |    |    | 1   |     |        |    |    |    |  |
| 40-80                      | A                 | 11                     |              | 10 |    |     | 1   |        |    |    |    |  |
| 40-81                      | A                 | 62                     |              |    |    |     | 62* |        |    |    |    |  |
| 40-82                      | A                 | 62                     |              |    |    |     | 62  |        |    |    |    |  |
| 40-85                      | A                 | 60                     |              |    |    |     | 60* |        |    |    |    |  |
| 40-86                      | E                 | 4                      |              |    |    |     |     | 4      |    |    |    |  |
| 40-87                      | D                 | 7                      |              | 7  |    |     |     |        |    |    |    |  |
| 40-AG                      | A                 | 38                     |              |    |    | 38  |     |        |    |    |    |  |

\*\*Coaxial cable data can be found on insert arrangement drawings, pages 18-26. For further information on coaxial contacts and cable see catalog 12-130.

# MS/Standard

## insert

## alternate positioning

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

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



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

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

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

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

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 20-17              | 90      | 180 | 270 | —   |
| 20-18              | 35      | 110 | 250 | 325 |
| 20-19              | 90      | 180 | 270 | —   |
| 20-21              | 35      | 110 | 250 | 325 |
| 20-23              | 35      | 110 | 250 | 325 |
| 20-24              | 35      | 110 | 250 | 325 |
| 20-27              | 35      | 110 | 250 | 325 |
| 20-29              | 80      | —   | —   | 280 |
| 22-1               | 35      | 110 | 250 | 325 |
| 22-2               | 70      | 145 | 215 | 290 |
| 22-4               | 35      | 110 | 250 | 325 |
| 22-5               | 35      | 110 | 250 | 325 |
| 22-8               | 35      | 110 | 250 | 325 |
| 22-9               | 70      | 145 | 215 | 290 |
| 22-10              | 35      | 110 | 250 | 325 |
| 22-11              | 35      | 110 | 250 | 325 |
| 22-13              | 35      | 110 | 250 | 325 |
| 22-20              | 35      | 110 | 250 | 325 |
| 22-22              | —       | 110 | 250 | —   |
| 22-23              | 35      | —   | 250 | —   |
| 22-27              | 80      | —   | 250 | 280 |
| 22-28              | 80      | —   | —   | 280 |
| 24-2               | 80      | —   | —   | 280 |
| 24-9               | 35      | 110 | 250 | 325 |
| 24-10              | 80      | —   | —   | 280 |
| 24-11              | 35      | 110 | 250 | 325 |
| 24-22              | 45      | 110 | 250 | —   |
| 24-27              | 80      | —   | —   | 280 |
| 28-2               | 35      | 110 | 250 | 325 |
| 28-3               | 70      | 145 | 215 | 290 |
| 28-5               | 35      | 110 | 250 | 325 |

| Insert Arrangement | Degrees |     |     |     |
|--------------------|---------|-----|-----|-----|
|                    | W       | X   | Y   | Z   |
| 28-6               | 70      | 145 | 215 | 290 |
| 28-7               | 35      | 110 | 250 | 325 |
| 28-12              | 90      | 180 | 270 | —   |
| 28-18              | 70      | 145 | 215 | 290 |
| 28-22              | 70      | 145 | 215 | 290 |
| 28-AY              | 45      | 110 | 250 | —   |
| 32-2               | 70      | 145 | 215 | 290 |
| 32-5               | 35      | 110 | 250 | 325 |
| 32-7               | 80      | 125 | 235 | 280 |
| 32-8               | 80      | 125 | 235 | 280 |
| 32-15              | 35      | 110 | 250 | 280 |
| 32-17              | 45      | 110 | 250 | —   |
| 32-25              | 60      | 120 | —   | —   |
| 32-64*             | 80      | 100 | 110 | 250 |
| 32-68              | 30      | —   | —   | —   |
| 32-82              | 30      | —   | —   | —   |
| 36-3               | 70      | 145 | 215 | 290 |
| 36-4               | 70      | 145 | 215 | 290 |
| 36-5               | —       | 120 | 240 | —   |
| 36-6               | 35      | 110 | 250 | 325 |
| 36-9               | 80      | 125 | 235 | 280 |
| 36-10              | 80      | 125 | 235 | 280 |
| 36-14              | 90      | 180 | 270 | —   |
| 36-15              | 60      | 125 | 245 | 305 |
| 36-AF              | 65      | —   | —   | —   |
| 40-1               | 65      | 130 | 235 | 300 |
| 40-5               | 33      | —   | —   | 270 |
| 40-9               | 65      | 125 | 225 | 310 |
| 40-10              | 65      | 125 | 225 | 310 |
| 40-35              | 70      | 130 | 230 | 290 |
| 40-AG              | 37      | 74  | 285 | 322 |

\* Additional rotations available; consult Amphenol for information.

# MS/Standard

## contact arrangements

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

|                    |      |       |                           |                           |       |       |      |
|--------------------|------|-------|---------------------------|---------------------------|-------|-------|------|
|                    |      |       |                           |                           |       |       |      |
|                    |      |       | Front of<br>Socket Insert | Front of<br>Socket Insert |       |       |      |
| Insert Arrangement | 8S-1 | 10S-2 | 10SL-3                    | 10SL-4                    | 12S-3 | 12S-4 | 12-5 |
| Service Rating     | A    | A     | A                         | A                         | A     | D     | D    |
| Number of Contacts | 1    | 1     | 3                         | 2                         | 2     | 1     | 1    |
| Contact Size       | 16   | 16    | 16                        | 16                        | 16    | 16    | 12   |

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 14S-2 | 14S-4 | 14S-5 | 14S-6 | 14S-7 | 14S-9 |
| Service Rating     | Inst. | D     | Inst. | Inst. | A     | A     |
| Number of Contacts | 4     | 1     | 5     | 6     | 3     | 2     |
| Contact Size       | 16    | 16    | 16    | 16    | 16    | 16    |

|                    |                           |                           |      |       |       |       |
|--------------------|---------------------------|---------------------------|------|-------|-------|-------|
|                    |                           |                           |      |       |       |       |
|                    | 100° Rotation<br>of 14S-2 | 100° Rotation<br>of 14S-7 |      |       |       |       |
| Insert Arrangement | 14S-10                    | 14S-12                    | 14-3 | 16S-1 | 16S-3 | 16S-4 |
| Service Rating     | Inst.                     | A                         | A    | A     | B     | D     |
| Number of Contacts | 4                         | 3                         | 1    | 7     | 1     | 2     |
| Contact Size       | 16                        | 16                        | 8    | 16    | 16    | 16    |

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

CONTACT LEGEND

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# MS/Standard contact arrangements

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

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

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

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 18-10 | 18-11 | 18-12 | 18-13 | 18-14 | 18-15 |
| Service Rating     | A     | A     | A     | A     | A     | A     |
| Number of Contacts | 4     | 5     | 6     | 1 3   | 1 1   | 4**   |
| Contact Size       | 12    | 12    | 16    | 8 12  | 4 16  | 12    |

|                    |       |       |       |       |       |                              |
|--------------------|-------|-------|-------|-------|-------|------------------------------|
|                    |       |       |       |       |       |                              |
| Insert Arrangement | 18-16 | 18-17 | 18-19 | 18-20 | 18-22 | 18-24                        |
| Service Rating     | C     | Inst. | A     | A     | D     | B, C, F, G = A; Bal. = Inst. |
| Number of Contacts | 1     | 2 5   | 10    | 5     | 3     | 10                           |
| Contact Size       | 12    | 12 16 | 16    | 16    | 16    | 16                           |

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CONTACT LEGEND

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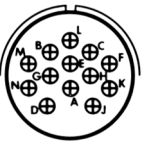
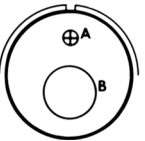
0

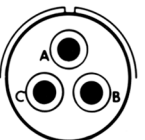
\* A = Iron; B = Constantan  
 \*\* A, C = Iron; B, D = Constantan

# MS/Standard contact arrangements

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

|                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |
| Insert Arrangement | 18-29                                                                             | 18-30                                                                             | 18-31                                                                             | 20-2                                                                               | 20-3                                                                                | 20-4                                                                                |
| Service Rating     | A                                                                                 | A                                                                                 | A                                                                                 | D                                                                                  | D                                                                                   | D                                                                                   |
| Number of Contacts | 5                                                                                 | 5                                                                                 | 5                                                                                 | 1                                                                                  | 3                                                                                   | 4                                                                                   |
| Contact Size       | 16                                                                                | 16                                                                                | 16                                                                                | 0                                                                                  | 12                                                                                  | 12                                                                                  |

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

|                    |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |
| Insert Arrangement | 20-14                                                                               | 20-15                                                                               | 20-16                                                                               | 20-17                                                                                | 20-18                                                                                 | 20-19                                                                                 |
| Service Rating     | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                    | A                                                                                     | A                                                                                     |
| Number of Contacts | 2 3                                                                                 | 7                                                                                   | 2 7                                                                                 | 5 1                                                                                  | 3 6                                                                                   | 3                                                                                     |
| Contact Size       | 8 12                                                                                | 12                                                                                  | 12 16                                                                               | 12 16                                                                                | 12 16                                                                                 | 8                                                                                     |

CONTACT LEGEND

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# MS/Standard

## contact arrangements

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

|                    |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |       |
| Insert Arrangement | 20-20 | 20-21 | 20-22 | 20-23 | 20-24 | 20-25 |
| Service Rating     | A     | A     | A     | A     | A     | Inst. |
| Number of Contacts | 1 3   | 1 8   | 3 3   | 2     | 2 2   | 13    |
| Contact Size       | 4 12  | 12 16 | 8 16  | 8     | 8 16  | 16    |

|                    |       |       |       |       |      |      |
|--------------------|-------|-------|-------|-------|------|------|
|                    |       |       |       |       |      |      |
| Insert Arrangement | 20-27 | 20-29 | 20-30 | 20-33 | 22-1 | 22-2 |
| Service Rating     | A     | A     | Inst. | A     | D    | D    |
| Number of Contacts | 14    | 17    | 13    | 11    | 2    | 3    |
| Contact Size       | 16    | 16    | 16    | 16    | 8    | 8    |

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

CONTACT LEGEND

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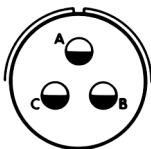
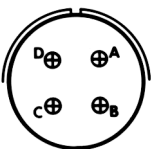
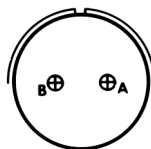
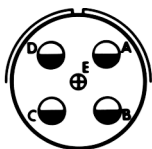
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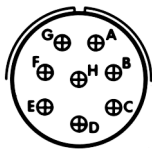
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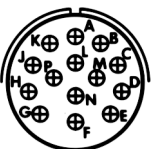
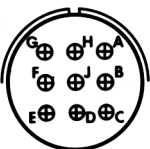
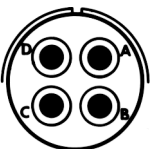
# MS/Standard

## contact arrangements

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

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

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

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



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CONTACT LEGEND

# MS/Standard

## contact arrangements

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

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

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

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

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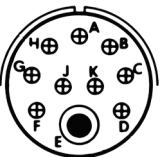
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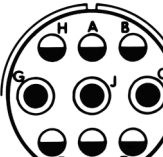
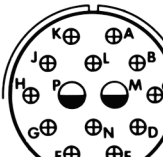
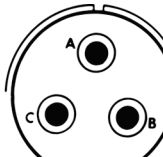
CONTACT LEGEND

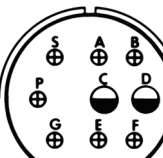
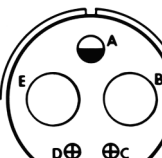
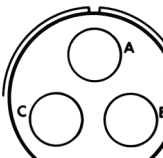
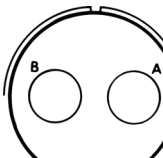
# MS/Standard

## contact arrangements

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

|                    |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |
| Insert Arrangement | 24-17                                                                             | 24-20                                                                             | 24-21                                                                              | 24-22                                                                               | 24-27                                                                               |
| Service Rating     | D                                                                                 | D                                                                                 | D                                                                                  | D                                                                                   | E                                                                                   |
| Number of Contacts | 2 3                                                                               | 2 9                                                                               | 1 9                                                                                | 4                                                                                   | 7                                                                                   |
| Contact Size       | 12 16                                                                             | 12 16                                                                             | 8 16                                                                               | 8                                                                                   | 16                                                                                  |

|                    |                                                                                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 24-28                                                                              | 28-1                                                                               | 28-2                                                                                | 28-3                                                                                 |
| Service Rating     | Inst.                                                                              | A, J, E = D; Bal. = A                                                              | D                                                                                   | E                                                                                    |
| Number of Contacts | 24                                                                                 | 3 6                                                                                | 2 12                                                                                | 3                                                                                    |
| Contact Size       | 16                                                                                 | 8 12                                                                               | 12 16                                                                               | 8                                                                                    |

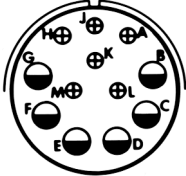
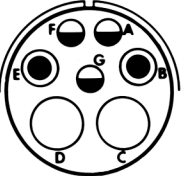
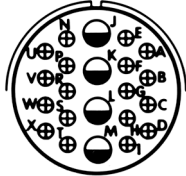
|                    |                                                                                     |                                                                                     |                                                                                      |                   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

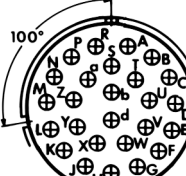
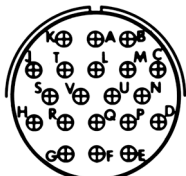


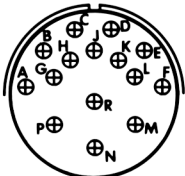
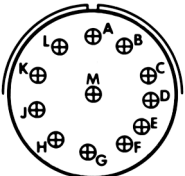
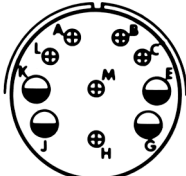
# MS/Standard

## contact arrangements

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

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

|                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |
|                    |                                                                                    | 100° Rotation<br>of 28-12                                                          |                                                                                      |                                                                                      |
| Insert Arrangement | 28-12                                                                              | 28-13                                                                              | 28-15                                                                                | 28-16                                                                                |
| Service Rating     | A                                                                                  | A                                                                                  | A                                                                                    | A                                                                                    |
| Number of Contacts | 26                                                                                 | 26                                                                                 | 35                                                                                   | 20                                                                                   |
| Contact Size       | 16                                                                                 | 16                                                                                 | 16                                                                                   | 16                                                                                   |

|                    |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 28-17                                                                               | 28-18                                                                                | 28-19                                                                                 |
| Service Rating     | R = B; M, N, P = D; A to L = A                                                      | M = C; G, H, J, K, L = D; A, B = A; Bal. = Inst.                                     | H, M = B; A, B = D; Bal. = A                                                          |
| Number of Contacts | 15                                                                                  | 12                                                                                   | 4 6                                                                                   |
| Contact Size       | 16                                                                                  | 16                                                                                   | 12 16                                                                                 |

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CONTACT LEGEND

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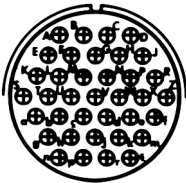
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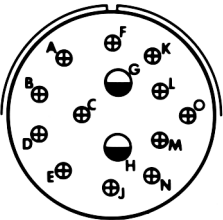
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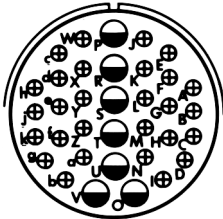
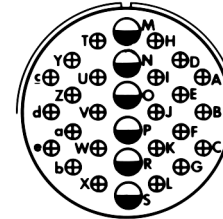
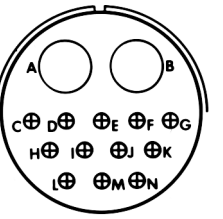
# MS/Standard

## contact arrangements

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

|                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 28-20                                                                             | 28-21                                                                             | 28-22                                                                               | 32-1                                                                                |
| Service Rating     | A                                                                                 | A                                                                                 | D                                                                                   | A = E; B, C, D, E = D                                                               |
| Number of Contacts | 10 4                                                                              | 37                                                                                | 3 3                                                                                 | 2 3                                                                                 |
| Contact Size       | 12 16                                                                             | 16                                                                                | 4 16                                                                                | 0 12                                                                                |

|                    |                                                                                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 32-2                                                                               | 32-3                                                                               | 32-4                                                                                | 32-5                                                                                 |
| Service Rating     | E                                                                                  | D                                                                                  | F, J, K, N = A; Bal. = D                                                            | D                                                                                    |
| Number of Contacts | 3 2                                                                                | 1 2 2 4                                                                            | 2 12                                                                                | 2                                                                                    |
| Contact Size       | 4 16                                                                               | 0 4 12 16                                                                          | 12 16                                                                               | 0                                                                                    |

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 32-6                                                                                | 32-7                                                                                | 32-8                                                                                 | 32-9                                                                                  |
| Service Rating     | A                                                                                   | A, B, h, j = Inst.; Bal. = A                                                        | A                                                                                    | D                                                                                     |
| Number of Contacts | 2 3 2 16                                                                            | 7 28                                                                                | 6 24                                                                                 | 2 12                                                                                  |
| Contact Size       | 4 8 12 16                                                                           | 12 16                                                                               | 12 16                                                                                | 4 16                                                                                  |



CONTACT LEGEND
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# MS/Standard

## contact arrangements

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

|                    |                                     |                             |       |       |
|--------------------|-------------------------------------|-----------------------------|-------|-------|
|                    |                                     |                             |       |       |
| Insert Arrangement | 32-10                               | 32-12                       | 32-13 | 32-15 |
| Service Rating     | A, F = E; G = B; B, E = D; C, D = A | C, D, E, F, G = A; Bal. = D | D     | D     |
| Number of Contacts | 2 2 3                               | 5 10                        | 5 18  | 2 6   |
| Contact Size       | 4 8 16                              | 12 16                       | 12 16 | 0 12  |

|                    |           |       |       |       |
|--------------------|-----------|-------|-------|-------|
|                    |           |       |       |       |
| Insert Arrangement | 32-16     | 32-17 | 32-22 | 32-31 |
| Service Rating     | A         | D     | A     | A     |
| Number of Contacts | 2 3 2 16  | 4     | 54    | 31    |
| Contact Size       | 4 8 12 16 | 4     | 16    | 16    |

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

CONTACT LEGEND

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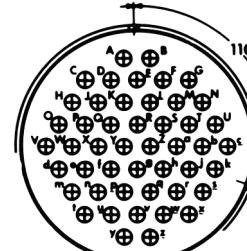
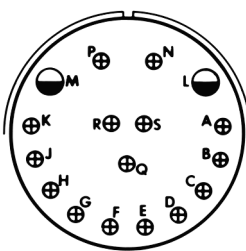
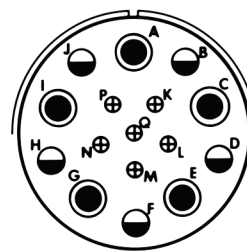
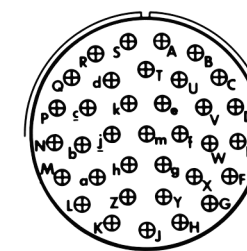
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# MS/Standard

## contact arrangements

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

|                    |                                                                                     |                                                                                      |                                                                                       |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |    |     |     |  |
| Insert Arrangement | 36-6                                                                                | 36-7                                                                                 | 36-8                                                                                  | 36-9                                                                                |
| Service Rating     | A                                                                                   | A                                                                                    | A                                                                                     | A                                                                                   |
| Number of Contacts | 2 4                                                                                 | 7 40                                                                                 | 1 46                                                                                  | 1 2 14 14                                                                           |
| Contact Size       | 0 4                                                                                 | 12 16                                                                                | 12 16                                                                                 | 4 8 12 16                                                                           |
|                    |   |   |   |                                                                                     |
| Insert Arrangement | 36-10                                                                               | 36-11                                                                                | 36-12                                                                                 |                                                                                     |
| Service Rating     | A                                                                                   | A                                                                                    | A                                                                                     |                                                                                     |
| Number of Contacts | 48                                                                                  | 48                                                                                   | 48                                                                                    |                                                                                     |
| Contact Size       | 16                                                                                  | 16                                                                                   | 16                                                                                    |                                                                                     |
|                    |  |  |  |                                                                                     |
| Insert Arrangement | 36-13                                                                               | 36-14                                                                                | 36-15                                                                                 |                                                                                     |
| Service Rating     | N, P, Q = E; Bal. = A                                                               | D                                                                                    | M = D; Bal. = A                                                                       |                                                                                     |
| Number of Contacts | 2 15                                                                                | 5 5 6                                                                                | 35                                                                                    |                                                                                     |
| Contact Size       | 12 16                                                                               | 8 12 16                                                                              | 16                                                                                    |                                                                                     |

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CONTACT LEGEND

# MS/Standard contact arrangements

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

100° Rotation  
of 36-7

**36-16**

A

|    |    |
|----|----|
| 7  | 40 |
| 12 | 16 |

110° Rotation  
of 36-7

**36-17**

A

|    |    |
|----|----|
| 7  | 40 |
| 12 | 16 |

100° Rotation  
of 36-9

**36-18**

A

|   |   |    |    |
|---|---|----|----|
| 1 | 2 | 14 | 14 |
| 4 | 8 | 12 | 16 |

**36-20**

A

|   |    |    |
|---|----|----|
| 2 | 2  | 30 |
| 8 | 12 | 16 |

**36-52**

A

|    |
|----|
| 52 |
| 16 |

**40-1**

D

|    |    |
|----|----|
| 6  | 24 |
| 12 | 16 |

**40-9**

A

|   |    |    |
|---|----|----|
| 1 | 22 | 24 |
| 8 | 12 | 16 |

**40-56**

A

|    |
|----|
| 85 |
| 16 |

CONTACT LEGEND

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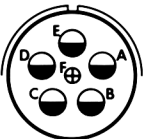
# Special contact arrangements

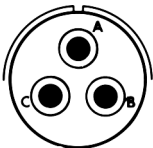
Requirements for more complex circuits prompted Amphenol to provide inserts not covered by the MS drawings. Illustrated here and on the following pages are insert layouts which have from one contact (high tension) to the 62 contact insert in shell size 40.

Many of these special inserts are also available in alternate keyway arrangements. Please contact Amphenol, Sidney, NY for additional information on special circuit application requirements.

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

|                    |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |
| Insert Arrangement | 14-A7                                                                             | 16-59                                                                             | 20-51                                                                             | 20-57                                                                              | 20-58                                                                               | 20-59                                                                               |
| Service Rating     | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                  | A                                                                                   | A                                                                                   |
| Number of Contacts | 7                                                                                 | 4                                                                                 | 3*                                                                                | 7*                                                                                 | 5 5                                                                                 | 3*                                                                                  |
| Contact Size       | 16                                                                                | 12                                                                                | 8                                                                                 | 12 for #14 or 16 wire                                                              | 12 16                                                                               | 8 for #10 or 12 wire                                                                |

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |
| Insert Arrangement | 20-66                                                                               | 20-79                                                                               | 22-63                                                                                | 22-65                                                                                 | 22-70                                                                                 |
| Service Rating     | A                                                                                   | H = D; Bal. = A                                                                     | A                                                                                    | H = D; Bal. = A                                                                       | A                                                                                     |
| Number of Contacts | 1 5                                                                                 | 7* 1*                                                                               | 4 8                                                                                  | 8*                                                                                    | 8 5                                                                                   |
| Contact Size       | 16 12 for #10 wire                                                                  | 16 12 for #16 wire                                                                  | 12 16                                                                                | 12 for #14 or 16 wire                                                                 | 12 16                                                                                 |

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |
| Insert Arrangement | 22-80                                                                               | 24-51                                                                               | 24-52                                                                                | 24-53                                                                                 | 24-58                                                                                 |
| Service Rating     | A                                                                                   | A                                                                                   | Hi-Volt                                                                              | A                                                                                     | A                                                                                     |
| Number of Contacts | 3*                                                                                  | 5*                                                                                  | 1                                                                                    | 5*                                                                                    | 3 3 7                                                                                 |
| Contact Size       | 8 for #10 or 12 wire                                                                | B, E for AN #10 or 12 wire<br>A, C, D for AN #8 wire                                | 12                                                                                   | 8                                                                                     | 8 12 16                                                                               |

\* Solderless

CONTACT LEGEND



16



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# Special contact arrangements

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

|                    |       |                      |       |       |       |
|--------------------|-------|----------------------|-------|-------|-------|
|                    |       |                      |       |       |       |
| Insert Arrangement | 24-59 | 24-60                | 24-65 | 24-66 | 24-67 |
| Service Rating     | A     | A                    | A     | D     | Inst. |
| Number of Contacts | 7 7   | 7*                   | 11 4  | 7     | 19    |
| Contact Size       | 12 16 | 8 for #10 or 12 wire | 12 16 | 12    | 12    |

|                    |                        |                  |       |       |                                   |
|--------------------|------------------------|------------------|-------|-------|-----------------------------------|
|                    |                        |                  |       |       |                                   |
| Insert Arrangement | 24-71                  | 24-75            | 24-79 | 24-80 | 24-84                             |
| Service Rating     | A                      | A                | A     | Inst. | A                                 |
| Number of Contacts | 2* 5*                  | 5 2              | 5     | 23    | 1 18                              |
| Contact Size       | 8 8 for #10 or 12 wire | 8 8 for #16 wire | 8     | 16    | 12 12 (Coax) RG-188/U or RG-174/U |

|                    |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|
|                    |       |       |       |       |       |
| Insert Arrangement | 24-96 | 24-AJ | 28-51 | 28-59 | 28-66 |
| Service Rating     | Inst. | A     | A     | A     | A     |
| Number of Contacts | 28    | 25    | 12    | 7 10  | 2 14  |
| Contact Size       | 16    | 16    | 12    | 12 16 | 8 12  |

\* Solderless

CONTACT LEGEND

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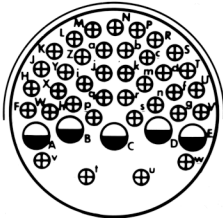
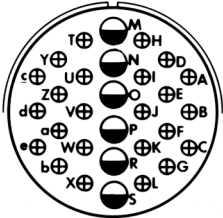
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# Special contact arrangements

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

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |    |    |    |    |
| Insert Arrangement | 28-72                                                                               | 28-74                                                                               | 28-75                                                                                | 28-79                                                                                 |
| Service Rating     | –                                                                                   | A                                                                                   | A                                                                                    | A                                                                                     |
| Number of Contacts | 3                                                                                   | 9* 4* 3*                                                                            | 9* 7*                                                                                | 7 9                                                                                   |
| Contact Size       | 4 (Coax) RG-59A/U or RG-62A/U                                                       | 16 8 8 for #10 wire (S, T, R)                                                       | 16 8 for #10 wire                                                                    | 8 16                                                                                  |
|                    |   |   |   |   |
| Insert Arrangement | 28-82                                                                               | 28-84                                                                               | 28-AY                                                                                | 32-25                                                                                 |
| Service Rating     | D                                                                                   | A                                                                                   | A                                                                                    | A                                                                                     |
| Number of Contacts | 2 4                                                                                 | 9                                                                                   | 4 5                                                                                  | 25                                                                                    |
| Contact Size       | 8 12                                                                                | 8                                                                                   | 4 16                                                                                 | 12                                                                                    |
|                    |  |  |  |  |
| Insert Arrangement | 32-52                                                                               | 32-53                                                                               | 32-56                                                                                | 32-57                                                                                 |
| Service Rating     | D                                                                                   | t, u = E; Bal. = Inst.                                                              | A                                                                                    | **                                                                                    |
| Number of Contacts | 6 2                                                                                 | 5 37                                                                                | 24 6                                                                                 | 6 2                                                                                   |
| Contact Size       | 12 0                                                                                | 12 16                                                                               | 16 12 for #10 wire                                                                   | 12 0 (Coax) RG-71/U                                                                   |

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

CONTACT LEGEND

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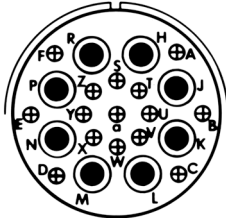
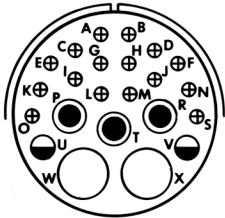
8

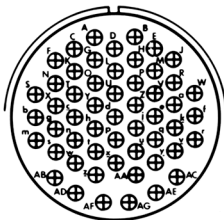
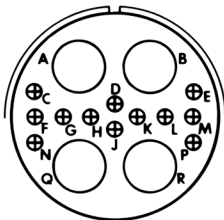
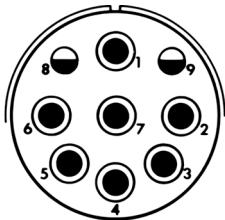
4

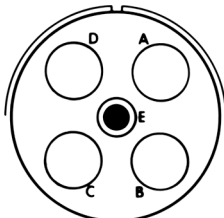
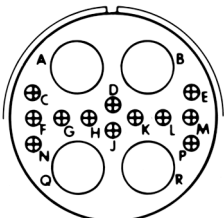
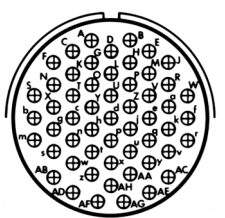
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# Special contact arrangements

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

|                    |                                                                                   |                                                                                    |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 32-58                                                                             | 32-60                                                                              | 32-62                                                                               |
| Service Rating     | —                                                                                 | A                                                                                  | **                                                                                  |
| Number of Contacts | 4                                                                                 | 15 8                                                                               | 2 1 2 16 2                                                                          |
| Contact Size       | 4 (Coax) RG-161/U<br>or RG-179/U                                                  | 16 8 (Coax) RG-124/U                                                               | 4 8 12 16 8 (Coax) RG-124/U                                                         |

|                    |                                                                                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 36-64                                                                              | 32-68                                                                              | 32-73                                                                               | 32-75                                                                                |
| Service Rating     | Inst.                                                                              | A                                                                                  | A                                                                                   | 8, 9 = D                                                                             |
| Number of Contacts | 54                                                                                 | 12 4                                                                               | 46                                                                                  | 2 7                                                                                  |
| Contact Size       | 16                                                                                 | 16 4 (Coax) RG-58C/U                                                               | 16                                                                                  | 12 8 (Coax) RG-180B/U                                                                |

|                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Insert Arrangement | 32-76                                                                               | 32-79                                                                               | 38-82                                                                                | 32-AF                                                                                 |
| Service Rating     | A                                                                                   | D                                                                                   | A                                                                                    | A                                                                                     |
| Number of Contacts | 19                                                                                  | 4 1                                                                                 | 4 12                                                                                 | 55                                                                                    |
| Contact Size       | 12                                                                                  | 4 8                                                                                 | 4 16                                                                                 | 16                                                                                    |

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

CONTACT LEGEND

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# Special contact arrangements

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

|                    |                                                                                   |                                                                                    |                                                                                     |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 36-51                                                                             | 36-54                                                                              | 36-55                                                                               |
| Service Rating     | D                                                                                 | A                                                                                  | A                                                                                   |
| Number of Contacts | 2 2                                                                               | 8 31                                                                               | 31 8                                                                                |
| Contact Size       | 0 4                                                                               | 8 16                                                                               | 16 8 for #6 wire                                                                    |

|                    |                                                                                    |                                                                                     |                                                                                      |
|--------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 36-59                                                                              | 36-60                                                                               | 36-64                                                                                |
| Service Rating     | A                                                                                  | **                                                                                  | —                                                                                    |
| Number of Contacts | 50 3                                                                               | 40 7                                                                                | 4                                                                                    |
| Contact Size       | 16 12 for #10 wire                                                                 | 16 12 for #10 wire                                                                  | 0 (Coax) RG-11/U,<br>RG-12/U or RG-13/U                                              |

|                    |                                                                                     |                                                                                      |                                                                                       |
|--------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |
| Insert Arrangement | 36-65                                                                               | 36-71                                                                                | 36-73                                                                                 |
| Service Rating     | —                                                                                   | A                                                                                    | —                                                                                     |
| Number of Contacts | 4                                                                                   | 3 50                                                                                 | 7                                                                                     |
| Contact Size       | 0 (Coax) RG-59/U, RG-62/U<br>or RG-71/U                                             | 12 16                                                                                | 4 (Coax) RG-62B/U                                                                     |

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

CONTACT LEGEND

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# Special contact arrangements

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

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



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



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



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



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



|                    |       |
|--------------------|-------|
| Insert Arrangement | 36-79 |
| Service Rating     | A     |
| Number of Contacts | 20    |
| Contact Size       | 12    |



|                    |                 |
|--------------------|-----------------|
| Insert Arrangement | 36-80           |
| Service Rating     | A               |
| Number of Contacts | 20              |
| Contact Size       | 12 for #10 wire |



|                    |                  |
|--------------------|------------------|
| Insert Arrangement | 36-83            |
| Service Rating     | -                |
| Number of Contacts | 7                |
| Contact Size       | 4 (Coax) RG-58/U |



|                    |                 |
|--------------------|-----------------|
| Insert Arrangement | 36-85           |
| Service Rating     | M = D; Bal. = A |
| Number of Contacts | 35              |
| Contact Size       | 16 for #12 wire |



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# Special contact arrangements

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

|                    |       |      |        |
|--------------------|-------|------|--------|
| Insert Arrangement | 36-AF | 40-5 | 40-10  |
| Service Rating     | A     | A    | A      |
| Number of Contacts | 48    | 5    | 4 9 16 |
| Contact Size       | 16    | 0    | 4 8 16 |



|                    |       |       |       |
|--------------------|-------|-------|-------|
| Insert Arrangement | 40-35 | 40-53 | 40-57 |
| Service Rating     | D     | A     | E     |
| Number of Contacts | 35    | 60    | 4     |
| Contact Size       | 12    | 16    | 0     |



|                    |         |       |                 |
|--------------------|---------|-------|-----------------|
| Insert Arrangement | 40-61   | 40-62 | 40-63           |
| Service Rating     | A       | A     | A               |
| Number of Contacts | 1 3 55  | 60    | 61              |
| Contact Size       | 8 12 16 | 16    | 16 for #14 wire |



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CONTACT LEGEND

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# Special contact arrangements

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

|                    |                         |                                                  |                            |
|--------------------|-------------------------|--------------------------------------------------|----------------------------|
|                    |                         |                                                  |                            |
| Insert Arrangement | 40-64                   | 40-66                                            | 40-67                      |
| Service Rating     | -                       | -                                                | A                          |
| Number of Contacts | 3 20 13                 | 4                                                | 1 10                       |
| Contact Size       | 12 16 8 (Coax) RG-124/U | 0 (Coax) RG-63 B/U                               | 16 4 (Coax) RG-59/U        |
|                    |                         |                                                  |                            |
| Insert Arrangement | 40-68                   | 40-70                                            | 40-72                      |
| Service Rating     | A                       | A                                                | A                          |
| Number of Contacts | 21                      | 61                                               | 1 10                       |
| Contact Size       | 8                       | 16                                               | 16 4 (Coax) RG-9B/U        |
|                    |                         |                                                  |                            |
| Insert Arrangement | 40-73                   | 40-74                                            | 40-75                      |
| Service Rating     | A                       | A                                                | E                          |
| Number of Contacts | 61                      | 1 1 4                                            | 1 4                        |
| Contact Size       | 16                      | 12 4 (Coax) RG-62/U 0 (Coax) RG-9B/U or RG-214/U | 12 0                       |
|                    |                         |                                                  |                            |
|                    |                         |                                                  | CONTACT LEGEND 16 12 8 4 0 |

# Special contact arrangements

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



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



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



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



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



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



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



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

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# Thermocouple

## contact availability

A complete line of cylindrical connectors containing thermocouple insert arrangements is available. The contact layout for a particular arrangement will be found in either the MS/Standard contact arrangement section, pages 26-37, or the Special contact arrangement section, pages 38-48. All thermocouple contact layouts may contain either iron, alumel, chromel, constantan, standard (copper) or brass (dummy) contacts. See the thermocouple tabulations on the following pages.

The following abbreviations are used in the contact material column in the charts that follow. Also, thermocouple contacts are color coded as shown. (This identification is made by means of small dots of stain on the solder well end of the contact).

| Abbreviation | Material     | Color Code |
|--------------|--------------|------------|
| Ir.          | Iron         | Black      |
| Con.         | Constantan   | Yellow     |
| Cu.          | Copper Alloy | N/A        |
| Ch.          | Chromel      | White      |
| Al.          | Alumel       | Green      |
| Dummy        | Brass        | N/A        |

### WIRE WELL DATA

| Contact Size | Well Inside Dia.<br>+.004<br>-.002 | Well Depth<br>+.031<br>-.000 | Solder Well Barrel<br>Outside Dia. |
|--------------|------------------------------------|------------------------------|------------------------------------|
| 12           | .125                               | .250                         | .166 ±.003                         |
| 16           | .094                               | .188                         | .125 +.002<br>-.004                |

### RECOMMENDED WIRE

|                      |                                        |
|----------------------|----------------------------------------|
| I Chromel - Alumel   | Use wire in accordance with MIL-W-5848 |
| II Iron - Constantan | Use wire in accordance with MIL-W-5845 |

# Thermocouple

## contact arrangements

| Shell Size and Arrg. | Similar to MS Arrg. | Total Contacts | Contact Size |    | Pin Insert Rotation C W | Contact Material                                |
|----------------------|---------------------|----------------|--------------|----|-------------------------|-------------------------------------------------|
|                      |                     |                | 12           | 16 |                         |                                                 |
| 10SL-51              | 10SL-4              | 2              |              | 2  | 45°                     | A = Ir.; B = Con.                               |
| 10SL-52              | 10SL-4              | 2              |              | 2  | 45°                     | A = Cu.; B = Con.                               |
| 10SL-53              | 10SL-4              | 2              |              | 2  | 45°                     | A = Al.; B = Ch.                                |
| 10SL-54              | 10SL-3              | 3              |              | 3  | None                    | A = Ir.; B = Con.; C = Cu.                      |
| 10SL-55              | 10SL-3              | 3              |              | 3  | None                    | A = Al.; B = Ch.; C = Cu.                       |
| 10SL-56              | 10SL-4              | 2              |              | 2  | None                    | A = Al.; B = Ch.                                |
| 10SL-57              | 10SL-4              | 2              |              | 2  | None                    | A = Ch.; B = Con.                               |
| 10SL-58              | 10SL-3              | 3              |              | 3  | None                    | A = Ch.; B = Al.; C = Cu.                       |
| 10SL-59              | 10SL-4              | 2              |              | 2  | None                    | A = Ch.; B = Al.                                |
| 10SL-60              | 10SL-4              | 2              |              | 2  | None                    | A = Ir.; B = Con.                               |
| 10SL-61              | 10SL-4              | 2              |              | 2  | None                    | A = Cu.; B = Con.                               |
| 10SL-62              | 10SL-3              | 3              |              | 3  | None                    | A = Cu.; B = Al.; C = Ir.                       |
| 10SL-63              | 10SL-3              | 3              |              | 3  | None                    | A, C = Con.; B = Ch.                            |
| 10SL-64              | 10SL-3              | 3              |              | 3  | None                    | A, C = Ch.; B = Al.                             |
|                      |                     |                |              |    |                         |                                                 |
| 12S-51               | 12S-3               | 2              |              | 2  | 315°                    | A = Ch.; B = Al.                                |
| 12S-54               | 12S-3               | 2              |              | 2  | 315°                    | A = Ir.; B = Con.                               |
| 12S-55               | 12S-3               | 2              |              | 2  | 45°                     | A = Cu.; B = Con.                               |
| 12S-56               | 12S-3               | 2              |              | 2  | None                    | A = Al.; B = Ch.                                |
| 12S-57               | 12S-3               | 2              |              | 2  | 60°                     | A = Ch.; B = Al.                                |
| 12S-58               | 12S-3               | 2              |              | 2  | 120°                    | A = Ir.; B = Con.                               |
| 12S-59               | 12S-3               | 2              |              | 2  | None                    | A = Ir.; B = Con.                               |
| 12S-60               | 12S-3               | 2              |              | 2  | None                    | A = Cu.; B = Con.                               |
| 12S-61               | 12S-3               | 2              |              | 2  | None                    | A = Ch.; B = Con.                               |
| 12S-62               | 12S-3               | 2              |              | 2  | None                    | A = Ch.; B = Al.                                |
|                      |                     |                |              |    |                         |                                                 |
| 14S-51               | 14S-9               | 2              |              | 2  | 90°                     | A = Al.; B = Ch.                                |
| 14S-52               | 14S-2               | 4              |              | 4  | 45°                     | A, B = Cu.; C = Al.; D = Ch.                    |
| 14S-53               | 14S-9               | 2              |              | 2  | 90°                     | A = Ir.; B = Con.                               |
| 14S-54               | 14S-6               | 6              |              | 6  | 45°                     | A, C, E = Ir.; B, D, F = Con.                   |
| 14S-55               | 14S-2               | 4              |              | 4  | 45°                     | A, C = Ir.; B, D = Con.                         |
| 14S-56               | 14S-2               | 4              |              | 4  | 45°                     | A = Ir.; B = Con.; C, D = Cu.                   |
| 14S-57               | 14S-2               | 4              |              | 4  | 45°                     | A, C = Al.; B, D = Ch.                          |
| 14S-58               | 14S-7               | 3              |              | 3  | 45°                     | A = Al.; B = Ch.; C = Cu.                       |
| 14S-59               | 14S-9               | 2              |              | 2  | 90°                     | A = Cu.; B = Con.                               |
| 14S-60               | 14S-9               | 2              |              | 2  | None                    | A = Al.; B = Ch.                                |
| 14S-61               | 14S-6               | 6              |              | 6  | 45°                     | A = Al.; B = Ch.; C = Ir.; D = Con.; E, F = Cu. |
| 14S-63               | 14S-6               | 6              |              | 6  | None                    | A, C = Al.; B, D = Ch.; E = Ir.; F = Con.       |
| 14S-64               | 14S-2               | 4              |              | 4  | None                    | A, C = Con.; B, D = Cu.                         |
| 14S-65               | 14S-6               | 6              |              | 6  | None                    | A, C, E = Cu.; B, D, F = Con.                   |
| 14S-67               | 14S-6               | 6              |              | 6  | None                    | A = Al.; B = Ch.; Balance = Cu.                 |
| 14S-68               | 14S-2               | 4              |              | 4  | 45°                     | A = Ch.; B = Con.; C, D = Cu.                   |
| 14S-69               | 14S-7               | 3              |              | 3  | None                    | A = Con.; B = Ch.; C = Cu.                      |
| 14S-70               | 14S-2               | 4              |              | 4  | None                    | A, D = Ch.; B, C = Al.                          |
| 14S-71               | 14S-2               | 4              |              | 4  | None                    | A, B, D = Cu.; C = Con.                         |
| 14S-72               | 14S-9               | 2              |              | 2  | None                    | A = Con.; B = Cu.                               |
| 14S-73               | 14S-2               | 4              |              | 4  | None                    | A, B = Cu.; C = Al.; D = Ch.                    |

# Thermocouple

## contact arrangements

| Shell Size and Arrg. | Similar to MS Arrg. | Total Contacts | Contact Size |    | Pin Insert Rotation C W | Contact Material                                |
|----------------------|---------------------|----------------|--------------|----|-------------------------|-------------------------------------------------|
|                      |                     |                | 12           | 16 |                         |                                                 |
| 14S-74               | 14S-2               | 4              |              | 4  | None                    | A, B = Ch.; C, D = Al.                          |
| 14S-75               | 14S-2               | 4              |              | 4  | None                    | A, B = Cu.; C, D = Con.                         |
| 14S-76               | 14S-2               | 4              |              | 4  | None                    | A, C = Al.; B, D = Ch.                          |
| 14S-77               | 14S-2               | 4              |              | 4  | None                    | A, D = Al.; B, C = Ch.                          |
| 14S-78               | 14S-9               | 2              |              | 2  | None                    | A = Ch.; B = Al.                                |
|                      |                     |                |              |    |                         |                                                 |
| 16S-52               | 16S-4               | 2              |              | 2  | None                    | A = Ch.; B = Al.                                |
| 16S-54               | 16S-1               | 7              |              | 7  | None                    | A = Al.; B = Ch.; Balance = Cu.                 |
| 16S-55               | 16S-1               | 7              |              | 7  | None                    | A = Con.; Balance = Cu.                         |
|                      |                     |                |              |    |                         |                                                 |
| 16-52                | 16-11               | 2              | 2            |    | 90°                     | A = Al.; B = Ch.                                |
| 16-53                | 16-9                | 4              | 2            | 2  | 70°                     | A = Al.; C = Ch.; B, D = Cu.                    |
| 16-55                | 16-10               | 3              | 3            |    | 45°                     | A = Al.; B = Ch.; C = Cu.                       |
| 16-56                | 16-13               | 2              | 2            |    | 90°                     | A = Con.; B = Cu.                               |
| 16-57                | 16-10               | 3              | 3            |    | None                    | A = Al.; B = Cu.; C = Ch.                       |
| 16-58                | 16-10               | 3              | 3            |    | None                    | A = Con.; B, C = Cu.                            |
| 16-60                | 16-13               | 2              | 2            |    | None                    | A = Al.; B = Ch.                                |
| 16-62                | 16-11               | 2              | 2            |    | None                    | A = Con.; B = Cu.                               |
|                      |                     |                |              |    |                         |                                                 |
| 18-51                | 18-12               | 6              |              | 6  | None                    | A = Ir.; B, E = Con.; D = Cu.; C, F = Dummy     |
| 18-52                | 18-11               | 5              | 5            |    | None                    | A = Ir.; B = Con.; C = Ch.; D = Al.; E = Dummy  |
| 18-53                | 18-12               | 6              |              | 6  | None                    | A, D = Ir.; B, E = Con.; C, F = Dummy           |
| 18-54                | 18-15               | 4              | 4            |    | None                    | A, C = Al.; B, D = Ch.                          |
| 18-56                | 18-1                | 10             |              | 10 | 45°                     | A, C, E, G, I = Ir.; B, D, F, H, J = Con.       |
| 18-57                | 18-12               | 6              |              | 6  | 45°                     | A, C, E = Al.; B, D, F = Ch.                    |
| 18-59                | 18-12               | 6              |              | 6  | 45°                     | A, C = Ir.; B, E, F = Con.; D = Cu.             |
| 18-60                | 18-11               | 5              | 5            |    | 45°                     | A, D = Al.; B, C, = Ch.; E = Cu.                |
| 18-61                | 18-12               | 6              |              | 6  | None                    | A, C = Ir.; B, D = Con.; E = Ch.; F = Al.       |
| 18-62                | 18-12               | 6              |              | 6  | None                    | A, B, C = Ir.; D, E, F = Con.                   |
| 18-63                | 18-15               | 4              | 4            |    | None                    | A, C = Con.; B, D = Cu.                         |
| 18-65                | 18-12               | 6              |              | 6  | None                    | A = Ir.; B = Con.; Balance = Cu.                |
| 18-66                | 18-1                | 10             |              | 10 | None                    | A, C, E, G, I = Cu.; B, D, F, H, J = Con.       |
| 18-67                | 18-12               | 6              |              | 6  | None                    | A, C, E = Cu.; B, D, F = Con.                   |
| 18-68                | 18-11               | 5              | 5            |    | None                    | A, D = Al.; B, C = Ch.; E = Cu.                 |
| 18-69                | 18-1                | 10             |              | 10 | None                    | A = Al.; B = Ch.; Balance = Cu.                 |
| 18-70                | 18-11               | 5              | 5            |    | None                    | A = Ir.; B = Con.; C = Ch.; D = Al.; E = Cu.    |
| 18-71                | 18-15               | 4              | 4            |    | None                    | A = Con.; Balance = Cu.                         |
| 18-72                | 18-15               | 4              | 4            |    | None                    | D = Con.; Balance = Cu.                         |
| 18-73                | 18-9                | 7              | 2            | 5  | None                    | A = Al.; D = Ch.; Balance = Cu.                 |
| 18-74                | 18-12               | 6              |              | 6  | None                    | A = Ch.; B = Al.; D = Ir.; E = Cu.; C, F = Con. |
|                      |                     |                |              |    |                         |                                                 |
| 20-52                | 20-4                | 4              | 4            |    | 315°                    | A = Ir.; B = Con.; C = Ch.; D = Al.             |
| 20-56                | 20-7                | 8              |              | 8  | 45°                     | A, B, G, H = Ir.; C, D, E, F = Con.             |
| 20-60                | 20-7                | 8              |              | 8  | 45°                     | D = Ch.; E = Al.; Balance = Cu.                 |
| 20-61                | 20-29               | 17             |              | 17 | 45°                     | A, B, M = Cu.; Balance = Con.                   |
| 20-62                | 20-15               | 7              | 7            |    | 80°                     | A, C, E = Al.; B, D, F = Ch.; G = Cu.           |
| 20-64                | 20-27               | 14             |              | 14 | None                    | A = Al.; C = Ch.; Balance = Cu.                 |

# Thermocouple

## contact arrangements

| Shell Size and Arrg. | Similar to MS Arrg. | Total Contacts | Contact Size |    | Pin Insert Rotation C W | Contact Material                                                                                            |
|----------------------|---------------------|----------------|--------------|----|-------------------------|-------------------------------------------------------------------------------------------------------------|
|                      |                     |                | 12           | 16 |                         |                                                                                                             |
| 20-65                | 20-27               | 14             |              | 14 | None                    | A, B, C, D, E, F, G = Ir.; H, I, J, K, L, M, N = Con.                                                       |
| 20-67                | 20-16               | 9              | 2            | 7  | None                    | H = Al.; I = Ch.; Balance = Cu.                                                                             |
| 20-68                | 20-7                | 8              |              | 8  | None                    | A, B, G, H = Con.; C, D, E, F = Cu.                                                                         |
| 20-69                | 20-27               | 14             |              | 14 | None                    | A, B, C, D, E, F, G = Cu.; H, I, J, K, L, M, N = Con.                                                       |
| 20-70                | 20-29               | 17             |              | 17 | None                    | A, C, E, G, J, L, N, R, T = Ir.; B, D, F, H, K, M, P, S = Con.                                              |
| 20-71                | 20-29               | 17             |              | 17 | None                    | S = Al.; R = Ch.; Balance = Cu.                                                                             |
| 20-74                | 20-29               | 17             |              | 17 | None                    | A, C, E, G, J, L, N, R = Ir.; B, D, F, H, K, M, P, S = Con.; T = Cu.                                        |
| 20-75                | 20-15               | 7              | 7            |    | None                    | G = Al.; Balance = Ch.                                                                                      |
| 20-77                | 20-16               | 9              | 2            | 7  | None                    | A = Con.; Balance = Std.                                                                                    |
| 20-80                | 20-27               | 14             |              | 14 | None                    | A, C, E, G, I, K, M = Cu.; B, D, F, H, J, L, N = Con.                                                       |
| 20-81                | 20-27               | 14             |              | 14 | None                    | A, C, E, G, I, K, M = Ch.; B, D, F, H, J, L, N = Al.                                                        |
| 20-82                | 20-29               | 17             |              | 17 | None                    | A, C, E, G, J, L, N, R = Al.; B, D, F, H, K, M, P, S = Ch.; T = Cu.                                         |
|                      |                     |                |              |    |                         |                                                                                                             |
| 22-57                | 22-14               | 19             |              | 19 | 45°                     | A, C, E, G, J, L, N, R = Ir.; B, D, F, H, K, M, P, S = Con.; T, U, V = Cu.                                  |
| 22-60                | 22-14               | 19             |              | 19 | 45°                     | U = Al.; N = Ch.; Balance = Cu.                                                                             |
| 22-62                | 22-23               | 8              | 8            |    | 60°                     | A, B, F, G = Al.; C, D, E, H = Ch.                                                                          |
| 22-68                | 22-19               | 14             |              | 14 | 45°                     | A, C, E, G, J, L, M = Ir.; B, D, F, H, K, P, N = Con.                                                       |
| 22-69                | 22-19               | 14             |              | 14 | 45°                     | A, C, E, G, J, L, M = Cu.; B, D, F, H, K, P, N = Con.                                                       |
| 22-71                | 22-14               | 19             |              | 19 | None                    | V = Al.; U = Ch.; Balance = Cu.                                                                             |
| 22-72                | 22-5                | 6              | 2            | 4  | None                    | B = Al.; E = Ch.; Balance = Cu.                                                                             |
| 22-73                | 22-5                | 6              | 2            | 4  | None                    | E = Al.; B = Ch.; Balance = Cu.                                                                             |
| 22-74                | 22-23               | 8              | 8            |    | None                    | A, C, E, G = Ir.; B, D, F, H = Con.                                                                         |
| 22-75                | 22-23               | 8              | 8            |    | None                    | A = Al.; B, D, G, H = Cu.; C = Ch.; E = Ir.; F = Con.                                                       |
| 22-76                |                     | 21             |              | 21 | None                    | W = Con.; Balance = Cu.                                                                                     |
| 22-77                | 22-19               | 14             |              | 14 | None                    | B, D, F, H, J, K, M, P = Cu.; A, E, L = Ir.; C, G, N = Con.                                                 |
| 22-78                | 22-14               | 19             |              | 19 | None                    | A, C, E, G, H, K, M, P, R, T = Con.; Balance = Cu.                                                          |
| 22-79                | 22-10               | 4              |              | 4  | None                    | A, C, = Con.; B, D = Cu.                                                                                    |
|                      |                     |                |              |    |                         |                                                                                                             |
| 24-56                | 24-20               | 11             | 2            | 9  | 45°                     | E = Al.; F = Ch.; Balance = Cu.                                                                             |
| 24-57                | 24-28               | 24             |              | 24 | 45°                     | A, C, J, V, Y, W, K, E, H, U, S, M = Ch.; Balance = Al.                                                     |
| 24-62                | 24-28               | 24             |              | 24 | None                    | A, C, E, G = Ir.; B, D, F, H = Con.; R, T = Ch.; S, U = Al.; Balance = Cu.                                  |
| 24-63                | 24-28               | 24             |              | 24 | None                    | A, C, E, G, J, L, K, N, S, U, W, Y = Cu.; B, D, F, H, Q, R, M, P, T, V, X, Z = Con.                         |
| 24-64                | 24-5                | 16             |              | 16 | None                    | A, B, C, D, E, F, G, H = Ir.; J, K, L, M, N, P, R, S = Con.                                                 |
| 24-68                | 24-28               | 24             |              | 24 | None                    | D = Con.; Balance = Cu.                                                                                     |
| 24-81                | 24-7                | 16             | 2            | 14 | None                    | A, C, E, G, I, K, M, N, P = Cu.; B, D, F, H, J, L, O = Con.                                                 |
|                      |                     |                |              |    |                         |                                                                                                             |
| 28-53                | 28-11               | 22             | 4            | 18 | 45°                     | J, L = Al.; K, M = Ch.; Balance = Cu.                                                                       |
| 28-58                | 28-20               | 14             | 10           | 4  | 45°                     | A, C, E, G, K, M = Al.; B, D, F, H, L, N = Ch.; J, P = Cu.                                                  |
| 28-61                | 28-21               | 37             |              | 37 | 45°                     | A, C, J, Z, m, r, n, a, K, F, H, X, k, h, T, M, N, d = Ir.; Balance = Con.                                  |
| 28-63                | 28-20               | 14             | 10           | 4  | 45°                     | A, C, E, G, J = Al.; B, D, F, H, P = Ch.; Balance = Cu.                                                     |
| 28-64                | 28-15               | 35             |              | 35 | None                    | A, d = Al.; B, j = Ch.; C, D, E, F, G, N, P, R, S, H, J, K, L, M, W, X, Y, Z = Con.; Balance = Cu.          |
| 28-65                | 28-12               | 26             |              | 26 | None                    | A, C, E, G, J, L, N, R, T, V = Ir.; X, Z = Al.; B, D, F, H, K, M, P, S, U, W = Con.; Y, a = Ch.; b, d = Cu. |
| 28-67                | 28-16               | 20             |              | 20 | None                    | U = Con.; Balance = Cu.                                                                                     |
| 28-68                | 28-15               | 35             |              | 35 | 45°                     | T = Al.; U = Ch.; Balance = Cu.                                                                             |
| 28-69                | 28-11               | 22             | 4            | 18 | None                    | G = Al.; R = Ch.; Balance = Cu.                                                                             |

# Thermocouple contact arrangements

[illegible]

\* Amphenol arrangement

# **GT Connector Classes**

# GT00A

## wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes backshell for accessory attachment
- Without grommet and cable clamp
- Non-environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .559                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .559                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 10.4      | 9.5       | 50        | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 13.2      | 9.5       | 50        | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 16.2      | 9.5       | 50        | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 16.2      | 9.5       | 60        | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 19.2      | 9.5       | 60        | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 22.0      | 9.5       | 60        | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 24.5      | 9.5       | 60        | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 27.8      | 9.5       | 65        | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 31.2      | 9.5       | 65        | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 37.8      | 11.0      | 65        | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 45.2      | 11.8      | 80        | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 51.2      | 11.8      | 80        | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GT00AF/00F

## wall mount receptacle for front panel mounting

### GT00AF

- Without grommet
- Cable clamp included
- Non-environment proof
- Four through mounting holes or optional threaded holes

### GT00F

- With wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof
- Four through mounting holes or optional threaded holes



Inches

| Shell Size | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z Max. | KK Max. | LL Max. |
|------------|--------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|--------|---------|---------|
| 10SL       | 2.362  | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .220   | .894    | 4.720   |
| 14S        | 2.440  | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .312   | 1.083   | 4.720   |
| 16S        | 2.756  | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .437   | 1.181   | 4.720   |
| 16         | 2.756  | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .437   | 1.181   | 4.921   |
| 18         | 3.031  | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .562   | 1.300   | 4.921   |
| 20         | 3.031  | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .625   | 1.476   | 4.921   |
| 22         | 3.031  | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .625   | 1.476   | 4.921   |
| 24         | 3.346  | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .750   | 1.705   | 4.921   |
| 28         | 3.346  | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | .750   | 1.705   | 4.921   |
| 32         | 3.346  | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | .937   | 2.035   | 4.921   |
| 36         | 4.133  | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.250  | 2.283   | 5.315   |
| 40         | 5.118  | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 1.375  | 2.579   | 5.709   |

Millimeters

| Shell Size | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z Max. | KK Max. | LL Max. |
|------------|--------|---------------------|-----------------------|------------|------------|------------|---------------------|--------|---------|---------|
| 10SL       | 60     | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 5.58   | 22.7    | 120     |
| 14S        | 62     | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 7.92   | 27.5    | 120     |
| 16S        | 70     | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 11.09  | 30.0    | 120     |
| 16         | 70     | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 11.09  | 30.0    | 125     |
| 18         | 77     | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 14.27  | 33.0    | 125     |
| 20         | 77     | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 15.87  | 37.5    | 125     |
| 22         | 77     | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 15.87  | 37.5    | 125     |
| 24         | 85     | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 19.05  | 43.3    | 125     |
| 28         | 85     | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 19.05  | 43.3    | 125     |
| 32         | 85     | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 23.79  | 51.7    | 125     |
| 36         | 105    | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 31.75  | 58.0    | 135     |
| 40         | 130    | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 34.92  | 65.5    | 145     |

All dimensions for reference only.

# GT00CF/00CFZ

## wall mount receptacle for front panel mounting

### GT00CF

- Without individual wire sealing grommet
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable

### GT00CFZ

- Same as GT00CF except: individual wire sealing grommet included for added moisture protection
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable



Inches

| Shell Size | L Approx. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z     |        |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|-------|--------|
|            |           |                       |                       |             |             |             |                       | Open  | Closed |
| 10SL       | 2.740     | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .312  | .094   |
| 14S        | 2.898     | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .438  | .230   |
| 16S        | 2.898     | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531  | .315   |
| 16         | 3.217     | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531  | .315   |
| 18         | 3.307     | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .625  | .378   |
| 20         | 3.311     | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .748  | .445   |
| 22         | 3.350     | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .748  | .445   |
| 24         | 3.484     | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .937  | .610   |
| 28         | 3.736     | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | .937  | .610   |
| 32         | 4.142     | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 1.250 | .921   |
| 36         | 4.390     | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.378 | .921   |
| 40         | 4.988     | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 1.624 | 1.177  |

Millimeters

| Shell Size | L Approx. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z     |        |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|-------|--------|
|            |           |                     |                       |            |            |            |                     | Open  | Closed |
| 10SL       | 69.6      | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 7.93  | 2.38   |
| 14S        | 73.6      | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 11.12 | 5.84   |
| 16S        | 73.6      | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.48 | 8.00   |
| 16         | 81.7      | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.48 | 8.00   |
| 18         | 84.0      | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 15.87 | 9.60   |
| 20         | 84.1      | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 19.00 | 11.30  |
| 22         | 85.1      | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 19.00 | 11.30  |
| 24         | 88.5      | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 23.80 | 15.50  |
| 28         | 94.9      | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 23.80 | 15.50  |
| 32         | 105.9     | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 31.75 | 23.40  |
| 36         | 111.5     | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 35.00 | 23.40  |
| 40         | 126.7     | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 41.25 | 29.90  |

All dimensions for reference only.

# GT00G

## wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes backshell with individual wire sealing grommet
- For use with heat-shrink tubing
- Environment proof



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | 1.062     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.516     | 1.717      | 1.882        | 2.157        |
| 40         | .138        | .610        | 3.150     | .874                  | 2.579                 | 1.57        | 2.185       | 2.752       | .169                  | 1.898     | 2.071      | 2.276        | 2.402        |

Millimeters

| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z<br>Min. | B<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|-----------|-----------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 7.7       | 13.3      | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 10.6      | 17.0      | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.5      | 21.9      | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.5      | 21.9      | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 14.6      | 21.9      | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 18.7      | 26.2      | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 20.8      | 26.2      | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 24.6      | 34.5      | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 27.0      | 34.5      | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 33.3      | 43.6      | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 38.5      | 43.6      | 47.8        | 54.8        |
| 40         | 3.5        | 15.5       | 80        | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 48.2      | 52.6      | 57.8        | 61.0        |

All dimensions for reference only.

# GT00LCF/00LCFZ

## wall mount receptacle for front panel mounting

### GT00LCF

- Includes a backshell with extended length to provide more working room for stripped jacketed cable
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable

### GT00LCFZ

- Same as GT00LCF except: individual wire sealing grommet included for added moisture protection
- Environment proof
- Four through mounting holes or optional threaded holes
- Includes clamp to grip and seal jacketed cable



Inches

| Shell Size | L<br>Approx. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z     |        |
|------------|--------------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|-------|--------|
|            |              |                       |                       |             |             |             |                       | Open  | Closed |
| 10SL       | 3.811        | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .312  | .094   |
| 14S        | 3.843        | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .438  | .230   |
| 16S        | 3.843        | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531  | .315   |
| 16         | 4.217        | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531  | .315   |
| 18         | 4.409        | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .625  | .378   |
| 20         | 4.409        | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .748  | .445   |
| 22         | 4.413        | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .748  | .445   |
| 24         | 4.535        | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .937  | .610   |
| 28         | 4.744        | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | .937  | .610   |
| 32         | 5.079        | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 1.250 | .921   |
| 36         | 5.327        | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.378 | .921   |
| 40         | 5.327        | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 1.624 | 1.177  |

Millimeters

| Shell Size | L<br>Approx. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z     |        |
|------------|--------------|---------------------|-----------------------|------------|------------|------------|---------------------|-------|--------|
|            |              |                     |                       |            |            |            |                     | Open  | Closed |
| 10SL       | 96.8         | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 7.93  | 2.38   |
| 14S        | 97.6         | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 11.12 | 5.84   |
| 16S        | 97.6         | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.48 | 8.00   |
| 16         | 107.1        | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.48 | 8.00   |
| 18         | 112.0        | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 15.87 | 9.60   |
| 20         | 112.0        | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 19.00 | 11.30  |
| 22         | 112.1        | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 19.00 | 11.30  |
| 24         | 115.2        | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 23.80 | 15.50  |
| 28         | 120.5        | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 23.80 | 15.50  |
| 32         | 129.0        | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 31.75 | 23.40  |
| 36         | 135.3        | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 35.00 | 23.40  |
| 40         | 135.3        | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 41.25 | 29.90  |

All dimensions for reference only.

# GT00R

## wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- With individual wire sealing grommet
- Includes backshell for conduit termination
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .559                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .559                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 1.1875-18 UNEF          | .866      | .374      | 2.362     | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.559     | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.559     | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.559     | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 10.4      | 9.5       | 50        | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 13.2      | 9.5       | 50        | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 16.2      | 9.5       | 50        | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 16.2      | 9.5       | 60        | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 19.2      | 9.5       | 60        | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 22.0      | 9.5       | 60        | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 24.5      | 9.5       | 60        | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 27.8      | 9.5       | 65        | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 31.2      | 9.5       | 65        | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 37.8      | 11.0      | 65        | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 45.2      | 11.8      | 80        | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 51.2      | 11.8      | 80        | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GT00RV

## wall mount receptacle for front panel mounting

- Four through mounting holes or optional threaded holes
- Includes wire sealing grommet
- For use with individual wires
- Environment proof



Inches

| Shell Size | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | KK<br>Max. |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|------------|
| 10SL       | 1.890     | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .787       |
| 14S        | 1.890     | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .945       |
| 16S        | 1.890     | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | 1.024      |
| 16         | 2.205     | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | 1.024      |
| 18         | 2.244     | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | 1.161      |
| 20         | 2.244     | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | 1.299      |
| 22         | 2.244     | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | 1.417      |
| 24         | 2.244     | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | 1.575      |
| 28         | 2.244     | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | 1.811      |
| 32         | 2.362     | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 2.028      |
| 36         | 2.362     | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 2.283      |
| 40         | 2.362     | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 2.539      |

Millimeters

| Shell Size | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | KK<br>Max. |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|------------|
| 10SL       | 48.0      | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 20.0       |
| 14S        | 48.0      | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 24.0       |
| 16S        | 48.0      | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 26.0       |
| 16         | 56.0      | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 26.0       |
| 18         | 57.0      | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 29.5       |
| 20         | 57.0      | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 33.0       |
| 22         | 57.0      | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 36.0       |
| 24         | 57.0      | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 40.0       |
| 28         | 57.0      | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 46.0       |
| 32         | 60.0      | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 51.5       |
| 36         | 60.0      | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 58.0       |
| 40         | 60.0      | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 64.5       |

All dimensions for reference only.

# GT01A

## inline receptacle

- Includes backshell for accessory attachment
- Without wire sealing grommet and cable clamp
- Non-environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-----------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .559                  | .717                  | .110        | .811        | .992      |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .559                  | .969                  | .126        | 1.000       | 1.173     |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .559                  | 1.079                 | .126        | 1.126       | 1.272     |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .748                  | 1.079                 | .126        | 1.126       | 1.272     |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .748                  | 1.213                 | .157        | 1.248       | 1.370     |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .748                  | 1.346                 | .157        | 1.374       | 1.488     |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .748                  | 1.472                 | .157        | 1.500       | 1.618     |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .811                  | 1.610                 | .157        | 1.626       | 1.756     |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .811                  | 1.839                 | .157        | 1.874       | 2.004     |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .874                  | 2.102                 | .157        | 2.126       | 2.248     |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .874                  | 2.346                 | .157        | 2.386       | 2.504     |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .874                  | 2.579                 | .157        | 2.618       | 2.756     |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S<br>Max. |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|-----------|
| 10SL       | 10.4      | 9.5       | 50        | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2      |
| 14S        | 13.2      | 9.5       | 50        | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8      |
| 16S        | 16.2      | 9.5       | 50        | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3      |
| 16         | 16.2      | 9.5       | 60        | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3      |
| 18         | 19.2      | 9.5       | 60        | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8      |
| 20         | 22.0      | 9.5       | 60        | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8      |
| 22         | 24.5      | 9.5       | 60        | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1      |
| 24         | 27.8      | 9.5       | 65        | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6      |
| 28         | 31.2      | 9.5       | 65        | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9      |
| 32         | 37.8      | 11.0      | 65        | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1      |
| 36         | 45.2      | 11.8      | 80        | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6      |
| 40         | 51.2      | 11.8      | 80        | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0      |

All dimensions for reference only.

# GT01AF/01F

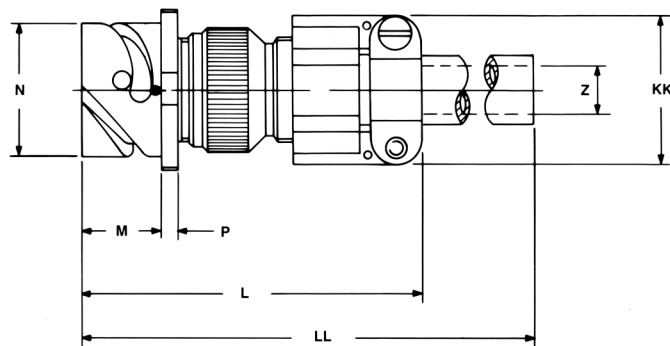
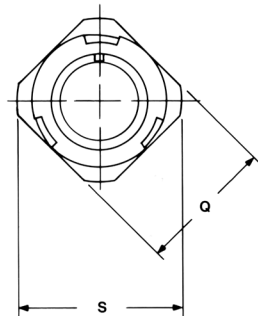
## inline receptacle

### GT01AF

- With cable clamp
- Wire sealing grommet not included
- Non-environment proof

### GT01F

- With wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

| Shell Size | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S Max. | Z Nominal | KK Max. | LL Max. |
|------------|--------|-----------------------|-----------------------|-------------|-------------|--------|-----------|---------|---------|
| 10SL       | 2.362  | .559                  | .717                  | .110        | .811        | .992   | .220      | .894    | 4.720   |
| 14S        | 2.441  | .559                  | .969                  | .126        | 1.000       | 1.173  | .312      | 1.083   | 4.720   |
| 16S        | 2.756  | .559                  | 1.079                 | .126        | 1.126       | 1.272  | .437      | 1.181   | 4.720   |
| 16         | 2.756  | .748                  | 1.079                 | .126        | 1.126       | 1.272  | .437      | 1.181   | 4.921   |
| 18         | 3.031  | .748                  | 1.213                 | .157        | 1.248       | 1.370  | .562      | 1.300   | 4.921   |
| 20         | 3.031  | .748                  | 1.346                 | .157        | 1.374       | 1.488  | .625      | 1.476   | 4.921   |
| 22         | 3.031  | .748                  | 1.472                 | .157        | 1.500       | 1.618  | .625      | 1.476   | 4.921   |
| 24         | 3.346  | .811                  | 1.610                 | .157        | 1.626       | 1.756  | .750      | 1.705   | 4.921   |
| 28         | 3.346  | .811                  | 1.839                 | .157        | 1.874       | 2.004  | .750      | 1.705   | 4.921   |
| 32         | 3.346  | .874                  | 2.102                 | .157        | 2.126       | 2.248  | .937      | 2.035   | 4.921   |
| 36         | 4.134  | .874                  | 2.346                 | .157        | 2.386       | 2.504  | 1.250     | 2.283   | 5.315   |
| 40         | 5.118  | .874                  | 2.579                 | .157        | 2.618       | 2.756  | 1.375     | 2.579   | 5.709   |

Millimeters

| Shell Size | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S Max. | Z Nominal | KK Max. | LL Max. |
|------------|--------|---------------------|-----------------------|------------|------------|--------|-----------|---------|---------|
| 10SL       | 60     | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2   | 5.58      | 22.7    | 120     |
| 14S        | 62     | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8   | 7.92      | 27.5    | 120     |
| 16S        | 70     | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3   | 11.09     | 30.0    | 120     |
| 16         | 70     | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3   | 11.09     | 30.0    | 125     |
| 18         | 77     | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8   | 14.27     | 33.0    | 125     |
| 20         | 77     | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8   | 15.87     | 37.5    | 125     |
| 22         | 77     | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1   | 15.87     | 37.5    | 125     |
| 24         | 85     | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6   | 19.05     | 43.3    | 125     |
| 28         | 85     | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9   | 19.05     | 43.3    | 125     |
| 32         | 85     | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1   | 23.79     | 51.7    | 125     |
| 36         | 105    | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6   | 31.75     | 58.0    | 135     |
| 40         | 130    | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0   | 34.92     | 65.5    | 145     |

All dimensions for reference only.

# GT01G

## inline receptacle

- Includes wire sealing grommet
- For use with heat-shrink tubing
- Environment proof



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .559                  | .717                  | .110        | .811        | .992      | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .559                  | .969                  | .126        | 1.000       | 1.173     | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .559                  | 1.079                 | .126        | 1.126       | 1.272     | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .748                  | 1.079                 | .126        | 1.126       | 1.272     | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .748                  | 1.213                 | .157        | 1.248       | 1.370     | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .748                  | 1.346                 | .157        | 1.374       | 1.488     | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .748                  | 1.472                 | .157        | 1.500       | 1.618     | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .811                  | 1.610                 | .157        | 1.626       | 1.756     | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .811                  | 1.839                 | .157        | 1.874       | 2.004     | 1.063     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .874                  | 2.102                 | .157        | 2.126       | 2.248     | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .874                  | 2.346                 | .157        | 2.386       | 2.504     | 1.516     | 1.717      | 1.882        | 2.157        |
| 40         | .138        | .610        | 3.150     | .874                  | 2.579                 | 1.57        | 2.618       | 2.756     | 1.898     | 2.071      | 2.276        | 2.402        |

Millimeters

| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S<br>Max. | Z<br>Min. | B<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|------------|-----------|-----------|-----------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2      | 7.7       | 13.3      | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8      | 10.6      | 17.0      | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3      | 13.5      | 21.9      | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3      | 13.5      | 21.9      | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8      | 14.6      | 21.9      | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8      | 18.7      | 26.2      | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1      | 20.8      | 26.2      | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6      | 24.6      | 34.5      | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9      | 27.0      | 34.5      | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1      | 33.3      | 43.6      | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6      | 38.5      | 43.6      | 47.8        | 54.8        |
| 40         | 3.5        | 15.5       | 80        | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0      | 48.2      | 52.6      | 57.8        | 61.0        |

All dimensions for reference only.

# GT01LCF/01LCFZ

## inline receptacle

### GT01LCF

- Long backshell provides more working room for stripped jacketed cable
- Includes cable clamp to grip and seal jacketed cable
- Environment proof

### GT01LCFZ

- Same as GT01LCF except: individual wire sealing grommet included for added moisture protection
- Environment proof



Inches

| Shell Size | L Approx. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S<br>Max. | Z     |        |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-----------|-------|--------|
|            |           |                       |                       |             |             |           | Open  | Closed |
| 10SL       | 3.811     | .559                  | .717                  | .110        | .811        | .992      | .312  | .094   |
| 14S        | 3.843     | .559                  | .969                  | .126        | 1.000       | 1.173     | .438  | .230   |
| 16S        | 3.843     | .559                  | 1.079                 | .126        | 1.126       | 1.272     | .531  | .315   |
| 16         | 4.217     | .748                  | 1.079                 | .126        | 1.126       | 1.272     | .531  | .315   |
| 18         | 4.409     | .748                  | 1.213                 | .157        | 1.248       | 1.370     | .625  | .378   |
| 20         | 4.409     | .748                  | 1.346                 | .157        | 1.374       | 1.488     | .748  | .445   |
| 22         | 4.413     | .748                  | 1.472                 | .157        | 1.500       | 1.618     | .748  | .445   |
| 24         | 4.535     | .811                  | 1.610                 | .157        | 1.626       | 1.756     | .937  | .610   |
| 28         | 4.744     | .811                  | 1.839                 | .157        | 1.874       | 2.004     | .937  | .610   |
| 32         | 5.079     | .874                  | 2.102                 | .157        | 2.126       | 2.248     | 1.250 | .921   |
| 36         | 5.327     | .874                  | 2.346                 | .157        | 2.386       | 2.504     | 1.378 | .921   |
| 40         | 5.327     | .874                  | 2.579                 | .157        | 2.618       | 2.756     | 1.624 | 1.177  |

Millimeters

| Shell Size | L Approx. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S<br>Max. | Z     |        |
|------------|-----------|---------------------|-----------------------|------------|------------|-----------|-------|--------|
|            |           |                     |                       |            |            |           | Open  | Closed |
| 10SL       | 96.8      | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2      | 7.93  | 2.38   |
| 14S        | 97.6      | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8      | 11.12 | 5.84   |
| 16S        | 97.6      | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3      | 13.48 | 8.00   |
| 16         | 107.1     | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3      | 13.48 | 8.00   |
| 18         | 112.0     | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8      | 15.87 | 9.60   |
| 20         | 112.0     | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8      | 19.00 | 11.30  |
| 22         | 112.1     | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1      | 19.00 | 11.30  |
| 24         | 115.2     | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6      | 23.80 | 15.50  |
| 28         | 120.5     | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9      | 23.80 | 15.50  |
| 32         | 129.0     | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1      | 31.75 | 23.40  |
| 36         | 135.3     | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6      | 35.00 | 23.40  |
| 40         | 135.3     | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0      | 41.25 | 29.90  |

All dimensions for reference only.

# GT01R

## inline receptacle

- With individual wire sealing grommet
- Includes backshell for conduit termination
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-----------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .559                  | .717                  | .110        | .811        | .992      |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .559                  | .969                  | .126        | 1.000       | 1.173     |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .559                  | 1.079                 | .126        | 1.126       | 1.272     |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .748                  | 1.079                 | .126        | 1.126       | 1.272     |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .748                  | 1.213                 | .157        | 1.248       | 1.370     |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .748                  | 1.346                 | .157        | 1.374       | 1.488     |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .748                  | 1.472                 | .157        | 1.500       | 1.618     |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .811                  | 1.610                 | .157        | 1.626       | 1.756     |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .811                  | 1.839                 | .157        | 1.874       | 2.004     |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .874                  | 2.102                 | .157        | 2.126       | 2.248     |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .874                  | 2.346                 | .157        | 2.386       | 2.504     |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .874                  | 2.579                 | .157        | 2.618       | 2.756     |

Millimeters

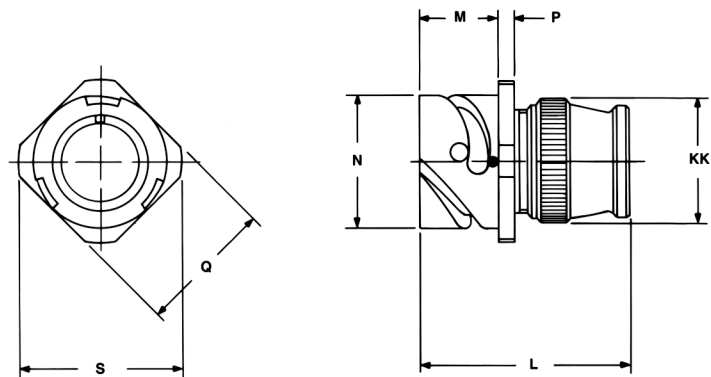
| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S<br>Max. |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|-----------|
| 10SL       | 10.4      | 9.5       | 50        | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2      |
| 14S        | 13.2      | 9.5       | 50        | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8      |
| 16S        | 16.2      | 9.5       | 50        | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3      |
| 16         | 16.2      | 9.5       | 60        | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3      |
| 18         | 19.2      | 9.5       | 60        | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8      |
| 20         | 22.0      | 9.5       | 60        | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8      |
| 22         | 24.5      | 9.5       | 60        | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1      |
| 24         | 27.8      | 9.5       | 65        | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6      |
| 28         | 31.2      | 9.5       | 65        | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9      |
| 32         | 37.8      | 11.0      | 65        | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1      |
| 36         | 45.2      | 11.8      | 80        | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6      |
| 40         | 51.2      | 11.8      | 80        | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0      |

All dimensions for reference only.

# GT01RV

## inline receptacle

- Includes wire sealing grommet
- For use with individual wires
- Environment proof



Inches

| Shell Size | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | Q<br>± .008 | S Max. | KK Max. |
|------------|--------|-----------------------|-----------------------|-------------|-------------|--------|---------|
| 10SL       | 1.890  | .559                  | .717                  | .110        | .811        | .992   | .787    |
| 14S        | 1.890  | .559                  | .969                  | .126        | 1.000       | 1.173  | .945    |
| 16S        | 1.890  | .559                  | 1.079                 | .126        | 1.126       | 1.272  | 1.024   |
| 16         | 2.205  | .748                  | 1.079                 | .126        | 1.126       | 1.272  | 1.024   |
| 18         | 2.244  | .748                  | 1.213                 | .157        | 1.248       | 1.370  | 1.161   |
| 20         | 2.244  | .748                  | 1.346                 | .157        | 1.374       | 1.488  | 1.299   |
| 22         | 2.244  | .748                  | 1.472                 | .157        | 1.500       | 1.618  | 1.417   |
| 24         | 2.244  | .811                  | 1.610                 | .157        | 1.626       | 1.756  | 1.575   |
| 28         | 2.244  | .811                  | 1.839                 | .157        | 1.874       | 2.004  | 1.811   |
| 32         | 2.362  | .874                  | 2.102                 | .157        | 2.126       | 2.248  | 2.028   |
| 36         | 2.362  | .874                  | 2.346                 | .157        | 2.386       | 2.504  | 2.283   |
| 40         | 2.362  | .874                  | 2.579                 | .157        | 2.618       | 2.756  | 2.539   |

Millimeters

| Shell Size | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | Q<br>± 0.2 | S Max. | KK Max. |
|------------|--------|---------------------|-----------------------|------------|------------|--------|---------|
| 10SL       | 48.0   | 14.2                | 18.2                  | 2.8        | 20.6       | 25.2   | 20.0    |
| 14S        | 48.0   | 14.2                | 24.6                  | 3.2        | 25.4       | 29.8   | 24.0    |
| 16S        | 48.0   | 14.2                | 27.4                  | 3.2        | 28.6       | 32.3   | 26.0    |
| 16         | 56.0   | 19.0                | 27.4                  | 3.2        | 28.6       | 32.3   | 26.0    |
| 18         | 57.0   | 19.0                | 30.8                  | 4.0        | 31.7       | 34.8   | 29.5    |
| 20         | 57.0   | 19.0                | 34.2                  | 4.0        | 34.9       | 37.8   | 33.0    |
| 22         | 57.0   | 19.0                | 37.4                  | 4.0        | 38.1       | 41.1   | 36.0    |
| 24         | 57.0   | 20.6                | 40.9                  | 4.0        | 41.3       | 44.6   | 40.0    |
| 28         | 57.0   | 20.6                | 46.7                  | 4.0        | 47.6       | 50.9   | 46.0    |
| 32         | 60.0   | 22.2                | 53.4                  | 4.0        | 54.0       | 57.1   | 51.5    |
| 36         | 60.0   | 22.2                | 59.6                  | 4.0        | 60.6       | 63.6   | 58.0    |
| 40         | 60.0   | 22.2                | 65.5                  | 4.0        | 66.5       | 70.0   | 64.5    |

All dimensions for reference only.

# GT02R/02RFS

## box mount receptacle for front panel mounting

### GT02R

- Environment proof when mounted with proper panel sealing gasket (see page 73)
- For rear mounting information see page 79

### GT02RFS

- Same as GT02R except mounting holes are countersunk to allow mating of plugs with rubber covered coupling nuts



**GT02RFS**  
Countersunk holes required  
when mating with GT06CFGG,  
page 57 and GT08CFGG,  
page 69

Inches

| Shell Size | L<br>± .012 | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | KK<br>Max. |
|------------|-------------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|------------|
| 10SL       | .972        | .559                  | .717                  | .110        | .717        | 1.000       | .126                  | .626       |
| 14S        | .972        | .559                  | .969                  | .126        | .906        | 1.181       | .126                  | .756       |
| 16S        | .972        | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .882       |
| 16         | 1.331       | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .882       |
| 18         | 1.331       | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | 1.008      |
| 20         | 1.331       | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | 1.142      |
| 22         | 1.331       | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | 1.268      |
| 24         | 1.406       | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | 1.390      |
| 28         | 1.406       | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | 1.630      |
| 32         | 1.469       | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 1.882      |
| 36         | 1.469       | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 2.063      |
| 40         | 1.469       | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 2.323      |

Millimeters

| Shell Size | L<br>± 0.3 | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | KK<br>Max. |
|------------|------------|---------------------|-----------------------|------------|------------|------------|---------------------|------------|
| 10SL       | 24.7       | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 15.9       |
| 14S        | 24.7       | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 19.2       |
| 16S        | 24.7       | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 22.4       |
| 16         | 33.8       | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 22.4       |
| 18         | 33.8       | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 25.6       |
| 20         | 33.8       | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 29.0       |
| 22         | 33.8       | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 32.2       |
| 24         | 35.7       | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 35.3       |
| 28         | 35.7       | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 41.4       |
| 32         | 37.3       | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 47.8       |
| 36         | 37.3       | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 52.4       |
| 40         | 37.3       | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 59.0       |

All dimensions for reference only.

# GT020R/020RFSM

## box mount receptacle for front panel mounting

### GT020R

- Threaded rear to accept accessory hardware
- Environment proof when mounted with proper panel sealing gasket (see page 73)
- For rear mounting information see page 79

### GT020RFSM

- Same as GT020R except mounting holes are countersunk to allow mating of plugs with rubber covered coupling nuts



GT020RFSM  
Countersunk holes required  
when mating with GT06CFGF,  
page 57 and GT08CFGF,  
page 69

Inches

| Shell Size | B<br>Thread<br>Class 2A | L<br>± .012 | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-------------------------|-------------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .6250-24UNEF            | .972        | .559                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .7500-20UNEF            | .972        | .559                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .8750-20UNEF            | .972        | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .8750-20UNEF            | 1.331       | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 1.0000-20UNEF           | 1.331       | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 1.1250-18UNEF           | 1.331       | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 1.2500-18UNEF           | 1.331       | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 1.3750-18UNEF           | 1.406       | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 1.6250-18UNEF           | 1.406       | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 1.8750-16UN             | 1.469       | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.0625-16UN             | 1.469       | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.3125-16UN             | 1.469       | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | L<br>± 0.3 | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|------------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 24.7       | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 24.7       | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 24.7       | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 33.8       | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 33.8       | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 33.8       | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 33.8       | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 35.7       | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 35.7       | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 37.3       | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 37.3       | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 37.3       | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GT030

## square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- Threaded rear to accept accessory attachment
- Environment proof when mounted with a proper sealing gasket (see page 73)



Inches

| Shell Size | B<br>Thread<br>Class 2A | L<br>$\pm .012$ | M<br>$+ .016$<br>$- .000$ | N<br>$+ .000$<br>$- .006$ | P<br>$\pm .008$ | R<br>$\pm .004$ | S<br>$\pm .012$ | T<br>$+ .004$<br>$- .000$ |
|------------|-------------------------|-----------------|---------------------------|---------------------------|-----------------|-----------------|-----------------|---------------------------|
| 10SL       | .6250-24UNEF            | 1.087           | .717                      | .717                      | .110            | .717            | 1.000           | .126                      |
| 14S        | .7500-20UNEF            | 1.087           | .717                      | .969                      | .126            | .906            | 1.181           | .126                      |
| 16S        | .8750-20UNEF            | 1.087           | .717                      | 1.079                     | .126            | .969            | 1.280           | .126                      |
| 16         | .8750-20UNEF            | 1.331           | .846                      | 1.079                     | .126            | .969            | 1.280           | .126                      |
| 18         | 1.0000-20UNEF           | 1.331           | .907                      | 1.213                     | .157            | 1.063           | 1.378           | .126                      |
| 20         | 1.1250-18UNEF           | 1.331           | .907                      | 1.346                     | .157            | 1.157           | 1.496           | .126                      |
| 22         | 1.2500-18UNEF           | 1.331           | .907                      | 1.472                     | .157            | 1.252           | 1.614           | .126                      |
| 24         | 1.3750-18UNEF           | 1.331           | .907                      | 1.610                     | .157            | 1.374           | 1.752           | .146                      |
| 28         | 1.6250-18UNEF           | 1.406           | .947                      | 1.839                     | .157            | 1.563           | 2.000           | .146                      |
| 32         | 1.8750-16UN             | 1.469           | .947                      | 2.102                     | .157            | 1.752           | 2.244           | .169                      |
| 36         | 2.0625-16UN             | 1.469           | .947                      | 2.346                     | .157            | 1.937           | 2.500           | .169                      |
| 40         | 2.3125-16UN             | 1.469           | .947                      | 2.579                     | .157            | 2.185           | 2.752           | .169                      |

Millimeters

| Shell Size | L<br>$\pm 0.3$ | M<br>$+ 0.4$<br>$- 0.0$ | N<br>$+ 0.00$<br>$- 0.15$ | P<br>$\pm 0.2$ | R<br>$\pm 0.1$ | S<br>$\pm 0.3$ | T<br>$+ 0.1$<br>$- 0.0$ |
|------------|----------------|-------------------------|---------------------------|----------------|----------------|----------------|-------------------------|
| 10SL       | 27.6           | 18.2                    | 18.2                      | 2.8            | 18.2           | 25.4           | 3.2                     |
| 14S        | 27.6           | 18.2                    | 24.6                      | 3.2            | 23.0           | 30.0           | 3.2                     |
| 16S        | 27.6           | 18.2                    | 27.4                      | 3.2            | 24.6           | 32.5           | 3.2                     |
| 16         | 33.8           | 21.5                    | 27.4                      | 3.2            | 24.6           | 32.5           | 3.2                     |
| 18         | 33.8           | 23.05                   | 30.8                      | 4.0            | 27.0           | 35.0           | 3.2                     |
| 20         | 33.8           | 23.05                   | 34.2                      | 4.0            | 29.4           | 38.0           | 3.2                     |
| 22         | 33.8           | 23.05                   | 37.4                      | 4.0            | 31.8           | 41.0           | 3.2                     |
| 24         | 33.8           | 23.05                   | 40.9                      | 4.0            | 34.9           | 44.5           | 3.7                     |
| 28         | 35.7           | 24.05                   | 46.7                      | 4.0            | 39.7           | 50.8           | 3.7                     |
| 32         | 37.3           | 24.05                   | 53.4                      | 4.0            | 44.5           | 57.0           | 4.3                     |
| 36         | 37.3           | 24.05                   | 59.6                      | 4.0            | 49.2           | 63.5           | 4.3                     |
| 40         | 37.3           | 24.05                   | 65.5                      | 4.0            | 55.5           | 69.9           | 4.3                     |

All dimensions for reference only.

# GT030A

## square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- Backshell included for accessory attachment
- Without a wire sealing grommet and cable clamp
- Non-environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .947                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 10.4      | 9.5       | 50        | 18.20               | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 13.2      | 9.5       | 50        | 18.20               | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 16.2      | 9.5       | 50        | 18.20               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 16.2      | 9.5       | 60        | 21.50               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 19.2      | 9.5       | 60        | 23.05               | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 22.0      | 9.5       | 60        | 23.05               | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 24.5      | 9.5       | 60        | 23.05               | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 27.8      | 9.5       | 65        | 23.05               | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 31.2      | 9.5       | 65        | 24.05               | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 37.8      | 11.0      | 65        | 24.05               | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 45.2      | 11.8      | 80        | 24.05               | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 51.2      | 11.8      | 80        | 24.05               | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GT030AF/030F

## square flange receptacle for rear panel mounting

### GT030AF

- Includes a cable clamp
- Wire sealing grommet not included
- Non-environment proof
- Four through mounting holes or optional threaded holes

### GT030F

- Includes a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof
- Four through mounting holes or optional threaded holes



Inches

| Shell Size | L Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z Nominal | KK Max. | LL Max. |
|------------|--------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|-----------|---------|---------|
| 10SL       | 2.362  | .717                  | .717                  | .110        | .717        | 1.000       | .126                  | .220      | .894    | 4.720   |
| 14S        | 2.440  | .717                  | .969                  | .126        | .906        | 1.181       | .126                  | .312      | 1.083   | 4.720   |
| 16S        | 2.756  | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .437      | 1.181   | 4.720   |
| 16         | 2.756  | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .437      | 1.181   | 4.921   |
| 18         | 3.031  | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .562      | 1.300   | 4.921   |
| 20         | 3.031  | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .625      | 1.476   | 4.921   |
| 22         | 3.031  | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .625      | 1.476   | 4.921   |
| 24         | 3.346  | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .750      | 1.705   | 4.921   |
| 28         | 3.346  | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | .750      | 1.705   | 4.921   |
| 32         | 3.346  | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | .937      | 2.035   | 4.921   |
| 36         | 4.134  | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.250     | 2.283   | 5.315   |
| 40         | 5.118  | .947                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 1.375     | 2.579   | 5.709   |

Millimeters

| Shell Size | L Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z Nominal | KK Max. | LL Max. |
|------------|--------|---------------------|-----------------------|------------|------------|------------|---------------------|-----------|---------|---------|
| 10SL       | 60     | 18.20               | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 5.58      | 22.7    | 120     |
| 14S        | 62     | 18.20               | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 7.92      | 27.5    | 120     |
| 16S        | 70     | 18.20               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 11.09     | 30.0    | 120     |
| 16         | 70     | 21.50               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 11.09     | 30.0    | 125     |
| 18         | 77     | 23.05               | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 14.27     | 33.0    | 125     |
| 20         | 77     | 23.05               | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 15.87     | 37.5    | 125     |
| 22         | 77     | 23.05               | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 15.87     | 37.5    | 125     |
| 24         | 85     | 23.05               | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 19.05     | 43.3    | 125     |
| 28         | 85     | 24.05               | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 19.05     | 43.3    | 125     |
| 32         | 85     | 24.05               | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 23.79     | 51.7    | 125     |
| 36         | 105    | 24.05               | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 31.75     | 58.0    | 135     |
| 40         | 130    | 24.05               | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 34.92     | 65.5    | 145     |

All dimensions for reference only.

# GT030G

## square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With wire sealing grommet for individual wires
- Includes backshell for use with heat-shrink tubing
- Environment proof



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                  | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                  | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | 1.063     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 1.516     | 1.717      | 1.882        | 2.157        |
| 40         | .138        | .610        | 3.150     | .947                  | 2.579                 | 1.57        | 2.185       | 2.752       | .169                  | 1.898     | 2.071      | 2.276        | 2.402        |

Millimeters

| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | Z<br>Min. | B<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|-----------|-----------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 18.20               | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 7.7       | 13.3      | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 18.20               | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 10.6      | 17.0      | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 18.20               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.5      | 21.9      | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 21.50               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 13.5      | 21.9      | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 23.05               | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 14.6      | 21.9      | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 23.05               | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 18.7      | 26.2      | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 23.05               | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 20.8      | 26.2      | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 23.05               | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 24.6      | 34.5      | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 24.05               | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 27.0      | 34.5      | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 24.05               | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 33.3      | 43.6      | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 24.05               | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 38.5      | 43.6      | 47.8        | 54.8        |
| 40         | 3.5        | 15.5       | 80        | 24.05               | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 48.2      | 52.6      | 57.8        | 61.0        |

All dimensions for reference only.

# GT030R

## square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With a wire sealing grommet for individual wires
- Includes backshell for conduit termination
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .6250-24 UNEF           | .409      | .374      | 1.969     | .717                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .7500-20 UNEF           | .520      | .374      | 1.969     | .717                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .8750-20 UNEF           | .638      | .374      | 1.969     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .8750-20 UNEF           | .638      | .374      | 2.362     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 1.0000-20 UNEF          | .756      | .374      | 2.362     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 1.1875-18 UNEF          | .867      | .374      | 2.362     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 1.1875-18 UNEF          | .965      | .374      | 2.362     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 1.4375-18 UNEF          | 1.094     | .374      | 2.560     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 1.4375-18 UNEF          | 1.228     | .374      | 2.560     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 1.7500-18 UNS           | 1.488     | .433      | 2.560     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.0000-18 UNS           | 1.780     | .465      | 3.150     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.2500-16 UN            | 2.016     | .465      | 3.150     | .947                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

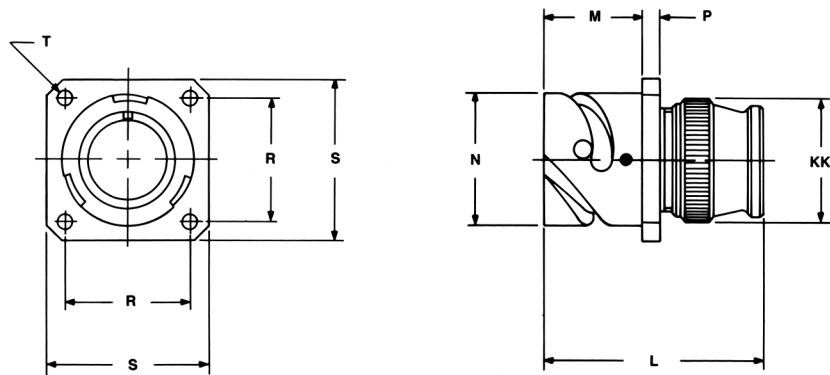
| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|-----------|-----------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 10.4      | 9.5       | 50        | 18.20               | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 13.2      | 9.5       | 50        | 18.20               | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 16.2      | 9.5       | 50        | 18.20               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 16.2      | 9.5       | 60        | 21.50               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 19.2      | 9.5       | 60        | 23.05               | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 22.0      | 9.5       | 60        | 23.05               | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 24.5      | 9.5       | 60        | 23.05               | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 27.8      | 9.5       | 65        | 23.05               | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 31.2      | 9.5       | 65        | 24.05               | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 37.8      | 11.0      | 65        | 24.05               | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 45.2      | 11.8      | 80        | 24.05               | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 51.2      | 11.8      | 80        | 24.05               | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GT030RV

## square flange receptacle for rear panel mounting

- Four through mounting holes or optional threaded holes
- With wire sealing grommet for individual wires
- Environment proof



Inches

| Shell Size | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 | KK<br>Max. |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|------------|
| 10SL       | 1.890     | .717                  | .717                  | .110        | .717        | 1.000       | .126                  | .787       |
| 14S        | 1.890     | .717                  | .969                  | .126        | .906        | 1.181       | .126                  | .945       |
| 16S        | 1.890     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  | 1.024      |
| 16         | 2.205     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  | 1.024      |
| 18         | 2.244     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  | 1.161      |
| 20         | 2.244     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  | 1.299      |
| 22         | 2.244     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  | 1.417      |
| 24         | 2.244     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  | 1.575      |
| 28         | 2.244     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  | 1.811      |
| 32         | 2.362     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  | 2.028      |
| 36         | 2.362     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  | 2.283      |
| 40         | 2.362     | .947                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  | 2.539      |

Millimeters

| Shell Size | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 | KK<br>Max. |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|---------------------|------------|
| 10SL       | 48.0      | 18.20               | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 | 20.0       |
| 14S        | 48.0      | 18.20               | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 | 24.0       |
| 16S        | 48.0      | 18.20               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 26.0       |
| 16         | 56.0      | 21.50               | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 | 26.0       |
| 18         | 57.0      | 23.05               | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 | 29.5       |
| 20         | 57.0      | 23.05               | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 | 33.0       |
| 22         | 57.0      | 23.05               | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 | 36.0       |
| 24         | 57.0      | 23.05               | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 | 40.0       |
| 28         | 57.0      | 24.05               | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 | 46.0       |
| 32         | 60.0      | 24.05               | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 | 51.5       |
| 36         | 60.0      | 24.05               | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 | 58.0       |
| 40         | 60.0      | 24.05               | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 | 64.5       |

All dimensions for reference only.

# GT06A

## straight plug

- Without grommet and cable clamp
- If a cable clamp is required, see pages 76 and 78
- Non-environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------|
| 10SL       | .6250-24UNEF            | .409      | .374      | 1.969     | .898      |
| 14S        | .7500-20UNEF            | .520      | .374      | 1.969     | 1.150     |
| 16S        | .8750-20UNEF            | .638      | .374      | 1.969     | 1.260     |
| 16         | .8750-20UNEF            | .638      | .374      | 2.362     | 1.260     |
| 18         | 1.0000-20UNEF           | .756      | .374      | 2.362     | 1.437     |
| 20         | 1.1875-18UNEF           | .867      | .374      | 2.362     | 1.571     |
| 22         | 1.1875-18UNEF           | .965      | .374      | 2.362     | 1.697     |
| 24         | 1.4375-18UNEF           | 1.094     | .374      | 2.560     | 1.835     |
| 28         | 1.4375-18UNEF           | 1.228     | .374      | 2.560     | 2.102     |
| 32         | 1.7500-18UNS            | 1.488     | .433      | 2.560     | 2.366     |
| 36         | 2.0000-18UNS            | 1.780     | .465      | 3.150     | 2.610     |
| 40         | 2.2500-16UN             | 2.016     | .465      | 3.150     | 2.850     |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. |
|------------|-----------|-----------|-----------|-----------|
| 10SL       | 10.4      | 9.5       | 50        | 22.8      |
| 14S        | 13.2      | 9.5       | 50        | 29.2      |
| 16S        | 16.2      | 9.5       | 50        | 32.0      |
| 16         | 16.2      | 9.5       | 60        | 32.0      |
| 18         | 19.2      | 9.5       | 60        | 36.5      |
| 20         | 22.0      | 9.5       | 60        | 39.9      |
| 22         | 24.5      | 9.5       | 60        | 43.1      |
| 24         | 27.8      | 9.5       | 65        | 46.6      |
| 28         | 31.2      | 9.5       | 65        | 53.4      |
| 32         | 37.8      | 11.0      | 65        | 60.1      |
| 36         | 45.2      | 11.8      | 80        | 66.3      |
| 40         | 51.2      | 11.8      | 80        | 72.4      |

All dimensions for reference only.

# GT06AF/06F

## straight plug

**GT06AF**

- With a cable clamp
- Wire sealing grommet not supplied
- Non-environment proof

**GT06F**

- With a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

| Shell Size | L Max. | Q Max. | Z Nominal | KK Max. | LL Max. |
|------------|--------|--------|-----------|---------|---------|
| 10SL       | 2.165  | .898   | .220      | .894    | 4.724   |
| 14S        | 2.362  | 1.150  | .312      | 1.083   | 4.724   |
| 16S        | 2.756  | 1.260  | .437      | 1.181   | 4.724   |
| 16         | 2.756  | 1.260  | .437      | 1.181   | 4.921   |
| 18         | 2.953  | 1.437  | .562      | 1.299   | 4.921   |
| 20         | 2.953  | 1.571  | .625      | 1.476   | 4.921   |
| 22         | 2.953  | 1.697  | .625      | 1.476   | 4.921   |
| 24         | 3.543  | 1.835  | .750      | 1.705   | 4.921   |
| 28         | 3.543  | 2.102  | .750      | 1.705   | 4.921   |
| 32         | 3.543  | 2.366  | .937      | 2.035   | 4.921   |
| 36         | 3.937  | 2.610  | 1.250     | 2.283   | 5.315   |
| 40         | 4.921  | 2.850  | 1.375     | 2.579   | 5.709   |

Millimeters

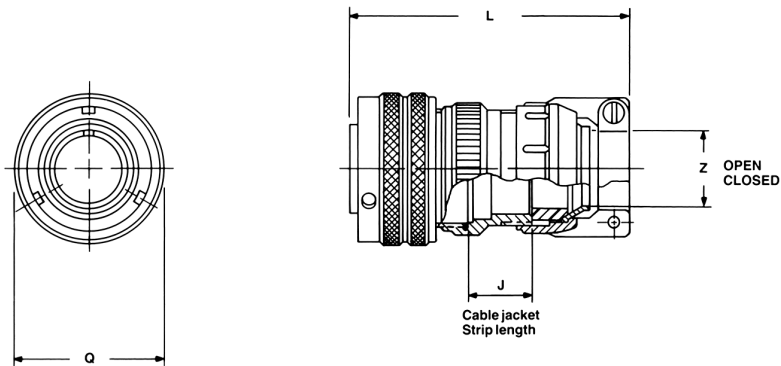
| Shell Size | L Max. | Q Max. | Z Nominal | KK Max. | LL Max. |
|------------|--------|--------|-----------|---------|---------|
| 10SL       | 55     | 22.8   | 5.58      | 22.7    | 120     |
| 14S        | 60     | 29.2   | 7.92      | 27.5    | 120     |
| 16S        | 70     | 32.0   | 11.09     | 30.0    | 120     |
| 16         | 70     | 32.0   | 11.09     | 30.0    | 125     |
| 18         | 75     | 36.5   | 14.27     | 33.0    | 125     |
| 20         | 75     | 39.9   | 15.87     | 37.5    | 125     |
| 22         | 75     | 43.1   | 15.87     | 37.5    | 125     |
| 24         | 90     | 46.6   | 19.05     | 43.3    | 125     |
| 28         | 90     | 53.4   | 19.05     | 43.3    | 125     |
| 32         | 90     | 60.1   | 23.79     | 51.7    | 125     |
| 36         | 100    | 66.3   | 31.75     | 58.0    | 135     |
| 40         | 125    | 72.4   | 34.92     | 65.5    | 145     |

All dimensions for reference only.

# GT06CF

## straight plug

- With a cable clamp and seal
- For use with jacketed cable
- Environment proof



Inches

| Shell Size | J Approx. | L Approx. | Q Max. | Z     |        |
|------------|-----------|-----------|--------|-------|--------|
|            |           |           |        | Open  | Closed |
| 10SL       | .551      | 2.752     | .898   | .312  | .094   |
| 14S        | .732      | 2.898     | 1.150  | .438  | .230   |
| 16S        | .732      | 2.898     | 1.260  | .531  | .315   |
| 16         | .653      | 3.216     | 1.260  | .531  | .315   |
| 18         | .705      | 3.307     | 1.437  | .625  | .378   |
| 20         | .705      | 3.311     | 1.571  | .748  | .445   |
| 22         | .744      | 3.350     | 1.697  | .748  | .445   |
| 24         | .689      | 3.484     | 1.835  | .937  | .610   |
| 28         | .921      | 3.736     | 2.102  | .937  | .610   |
| 32         | 1.016     | 4.142     | 2.366  | 1.250 | .921   |
| 36         | 1.031     | 4.390     | 2.610  | 1.378 | .921   |
| 40         | 1.614     | 4.640     | 2.854  | 1.624 | 1.177  |

Millimeters

| Shell Size | J Approx. | L Approx. | Q Max. | Z     |        |
|------------|-----------|-----------|--------|-------|--------|
|            |           |           |        | Open  | Closed |
| 10SL       | 14.0      | 69.6      | 22.8   | 7.93  | 2.38   |
| 14S        | 18.6      | 73.6      | 29.2   | 11.12 | 5.84   |
| 16S        | 18.6      | 73.6      | 32.0   | 13.48 | 8.00   |
| 16         | 16.6      | 81.7      | 32.0   | 13.48 | 8.00   |
| 18         | 17.9      | 84.0      | 36.5   | 15.87 | 9.60   |
| 20         | 17.9      | 84.1      | 39.9   | 19.00 | 11.30  |
| 22         | 18.9      | 85.1      | 43.1   | 19.00 | 11.30  |
| 24         | 17.5      | 88.5      | 46.6   | 23.80 | 15.50  |
| 28         | 23.4      | 94.9      | 53.4   | 23.80 | 15.50  |
| 32         | 25.8      | 105.2     | 60.1   | 31.75 | 23.40  |
| 36         | 26.2      | 111.5     | 66.3   | 35.00 | 23.40  |
| 40         | 41.0      | 111.5     | 72.5   | 41.25 | 29.90  |

All dimensions for reference only.

# GT06CFGG

## straight plug

- With rubber covered coupling nut for extreme shock applications
  - The shrouded coupling nut protects the plug from damage
  - Provides a superior gripping surface
  - Seals the bayonet ramps
- Includes a backshell
  - Mates with GT020RFSM (see page 47)
  - Environment proof



Inches

| Shell Size | J Approx. | L Approx. | Q Max. | S Dia. | Z     |        |
|------------|-----------|-----------|--------|--------|-------|--------|
|            |           |           |        |        | Open  | Closed |
| 10SL       | .551      | 3.150     | 1.319  | 1.122  | .312  | .094   |
| 18         | .701      | 3.346     | 1.929  | 1.713  | .625  | .378   |
| 20         | .705      | 3.937     | 2.028  | 1.811  | .748  | .445   |
| 22         | .705      | 3.937     | 2.224  | 1.988  | .748  | .445   |
| 24         | .689      | 4.016     | 2.362  | 2.126  | .937  | .610   |
| 28         | .921      | 4.291     | 2.638  | 2.402  | .937  | .610   |
| 32         | 1.016     | 5.315     | 2.992  | 2.661  | 1.250 | .921   |
| 36         | 1.031     | 5.039     | 3.240  | 2.925  | 1.378 | .921   |
| 40         | 1.614     | 5.315     | 3.465  | 3.150  | 1.624 | 1.177  |

Millimeters

| Shell Size | J Approx. | L Approx. | Q Max. | S Dia. | Z     |        |
|------------|-----------|-----------|--------|--------|-------|--------|
|            |           |           |        |        | Open  | Closed |
| 10SL       | 14.0      | 80        | 33.5   | 28.5   | 7.93  | 2.38   |
| 18         | 17.8      | 85        | 49.0   | 43.5   | 15.87 | 9.60   |
| 20         | 17.9      | 100       | 51.5   | 46.0   | 19.00 | 11.30  |
| 22         | 17.9      | 100       | 56.5   | 50.5   | 19.00 | 11.30  |
| 24         | 17.5      | 102       | 60.0   | 54.0   | 23.80 | 15.50  |
| 28         | 23.4      | 109       | 67.0   | 61.0   | 23.80 | 15.50  |
| 32         | 25.6      | 135       | 76.0   | 67.6   | 31.75 | 23.40  |
| 36         | 26.2      | 128       | 82.3   | 74.3   | 35.00 | 23.40  |
| 40         | 41.0      | 135       | 88.0   | 80.0   | 41.25 | 29.90  |

All dimensions for reference only.

# GT06G

## straight plug

- With a wire sealing grommet
- For use with individual wires
- Includes a backshell for use with heat-shrink tubing
- Environment proof



Inches

| Shell Size | J<br>± .008 | K<br>± .020 | L<br>Max. | Q<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± .008 | KK<br>± .008 |
|------------|-------------|-------------|-----------|-----------|-----------|------------|--------------|--------------|
| 10SL       | .138        | .461        | 1.969     | .898      | .303      | .524       | .610         | .669         |
| 14S        | .138        | .461        | 1.969     | 1.150     | .417      | .669       | .752         | .791         |
| 16S        | .138        | .461        | 1.969     | 1.260     | .531      | .862       | .941         | .925         |
| 16         | .138        | .453        | 2.362     | 1.260     | .531      | .862       | .941         | .925         |
| 18         | .138        | .453        | 2.362     | 1.437     | .575      | .862       | .941         | 1.043        |
| 20         | .138        | .500        | 2.559     | 1.571     | .736      | 1.031      | 1.165        | 1.189        |
| 22         | .138        | .500        | 2.559     | 1.697     | .819      | 1.031      | 1.165        | 1.323        |
| 24         | .138        | .500        | 2.559     | 1.835     | .969      | 1.358      | 1.488        | 1.421        |
| 28         | .138        | .500        | 2.559     | 2.102     | 1.063     | 1.358      | 1.488        | 1.630        |
| 32         | .138        | .598        | 2.756     | 2.366     | 1.311     | 1.717      | 1.882        | 1.913        |
| 36         | .138        | .598        | 3.150     | 2.610     | 1.516     | 1.717      | 1.882        | 2.157        |
| 40         | .138        | .610        | 3.150     | 2.854     | 1.898     | 2.071      | 2.276        | 2.402        |

Millimeters

| Shell Size | J<br>± 0.2 | K<br>± 0.5 | L<br>Max. | Q<br>Max. | Z<br>Min. | BB<br>Max. | JJ<br>± 0.2 | KK<br>± 0.2 |
|------------|------------|------------|-----------|-----------|-----------|------------|-------------|-------------|
| 10SL       | 3.5        | 11.7       | 50        | 22.8      | 7.7       | 13.3       | 15.5        | 17.0        |
| 14S        | 3.5        | 11.7       | 50        | 29.2      | 10.6      | 17.0       | 19.1        | 20.1        |
| 16S        | 3.5        | 11.7       | 50        | 32.0      | 13.5      | 21.9       | 23.9        | 23.5        |
| 16         | 3.5        | 11.5       | 60        | 32.0      | 13.5      | 21.9       | 23.9        | 23.5        |
| 18         | 3.5        | 11.5       | 60        | 36.5      | 14.6      | 21.9       | 23.9        | 26.5        |
| 20         | 3.5        | 12.7       | 65        | 39.9      | 18.7      | 26.2       | 29.6        | 30.2        |
| 22         | 3.5        | 12.7       | 65        | 43.1      | 20.8      | 26.2       | 29.6        | 33.6        |
| 24         | 3.5        | 12.7       | 65        | 46.6      | 24.6      | 34.5       | 37.8        | 36.1        |
| 28         | 3.5        | 12.7       | 65        | 53.4      | 27.0      | 34.5       | 37.8        | 41.4        |
| 32         | 3.5        | 15.2       | 70        | 60.1      | 33.3      | 43.6       | 47.8        | 48.6        |
| 36         | 3.5        | 15.2       | 80        | 66.3      | 38.5      | 43.6       | 47.8        | 54.8        |
| 40         | 3.5        | 15.2       | 80        | 72.5      | 48.2      | 52.6       | 57.8        | 61.0        |

All dimensions for reference only.

# GT06LC

## straight plug

- Includes a backshell with a basket weave strain relief cord grip
- With a wire sealing grommet
- Environment proof



Inches

| Shell Size | L Ref. | Q Max. |
|------------|--------|--------|
| 10SL       | 3.000  | .898   |
| 14S        | 3.000  | 1.150  |
| 16S        | 3.000  | 1.260  |
| 16         | 3.250  | 1.260  |
| 18         | 3.250  | 1.437  |
| 20         | 3.250  | 1.571  |
| 22         | 3.250  | 1.697  |
| 24         | 3.250  | 1.835  |
| 28         | 3.600  | 2.102  |
| 32         | 3.600  | 2.366  |
| 36         | 3.600  | 2.610  |
| 40         | 3.600  | 2.854  |

| Cable Range          |       |       |
|----------------------|-------|-------|
| AXX Part No. Suffix* | Min.  | Max.  |
| A16                  | .250  | .375  |
| A54                  | .375  | .500  |
| A10                  | .500  | .625  |
| A12                  | .625  | .750  |
| A42                  | .750  | .875  |
| A11                  | .875  | 1.000 |
| A55                  | 1.000 | 1.125 |
| A14                  | 1.125 | 1.250 |
| A56                  | 1.250 | 1.375 |
| A74                  | 1.375 | 1.500 |
| A57                  | 1.500 | 1.625 |
| A58                  | 1.625 | 1.750 |

Millimeters

| Shell Size | L Ref. | Q Max. |
|------------|--------|--------|
| 10SL       | 76.2   | 22.8   |
| 14S        | 76.2   | 29.2   |
| 16S        | 76.2   | 32.0   |
| 16         | 82.5   | 32.0   |
| 18         | 82.5   | 36.4   |
| 20         | 82.5   | 39.9   |
| 22         | 82.5   | 43.1   |
| 24         | 82.5   | 46.6   |
| 28         | 91.4   | 53.3   |
| 32         | 91.4   | 60.0   |
| 36         | 91.4   | 66.2   |
| 40         | 91.4   | 72.4   |

| Cable Range          |      |      |
|----------------------|------|------|
| AXX Part No. Suffix* | Min. | Max. |
| A16                  | 6.3  | 9.5  |
| A54                  | 9.5  | 12.7 |
| A10                  | 12.7 | 15.8 |
| A12                  | 15.8 | 19.0 |
| A42                  | 19.0 | 22.2 |
| A11                  | 22.2 | 25.4 |
| A55                  | 25.4 | 28.5 |
| A14                  | 28.5 | 31.7 |
| A56                  | 31.7 | 34.9 |
| A74                  | 34.9 | 38.1 |
| A57                  | 38.1 | 41.2 |
| A58                  | 41.2 | 44.4 |

All dimensions for reference only.

\* For example, typical part number would be:  
GTC06LC28-8PA59

# GT06LCF/06LCFZ

## straight plug

### GT06LCF

- With cable clamp and seal
- Long backshell provides more working room for jacketed cable
- Environment proof

### GT06LCFZ

- Same as GT06LCF except: Individual wire sealing grommet for added moisture
- Environment proof



Inches

| Shell Size | J Approx. | L Approx. | Q Max. | Z     |        |
|------------|-----------|-----------|--------|-------|--------|
|            |           |           |        | Open  | Closed |
| 10SL       | 1.654     | 3.811     | .898   | .312  | .094   |
| 14S        | 1.677     | 3.843     | 1.150  | .438  | .230   |
| 16S        | 1.677     | 3.843     | 1.260  | .531  | .315   |
| 16         | 1.677     | 4.217     | 1.260  | .531  | .315   |
| 18         | 1.803     | 4.409     | 1.437  | .625  | .378   |
| 20         | 1.807     | 4.409     | 1.571  | .748  | .445   |
| 22         | 1.807     | 4.413     | 1.697  | .748  | .445   |
| 24         | 1.752     | 4.535     | 1.835  | .937  | .610   |
| 28         | 1.949     | 4.756     | 2.102  | .937  | .610   |
| 32         | 1.953     | 5.079     | 2.366  | 1.250 | .921   |
| 36         | 1.969     | 5.327     | 2.610  | 1.378 | .921   |
| 40         | 1.969     | 5.327     | 2.854  | 1.624 | 1.177  |

Millimeters

| Shell Size | J Approx. | L Approx. | Q Max. | Z     |        |
|------------|-----------|-----------|--------|-------|--------|
|            |           |           |        | Open  | Closed |
| 10SL       | 42.0      | 96.8      | 22.8   | 7.93  | 2.38   |
| 14S        | 42.6      | 97.6      | 29.2   | 11.12 | 5.84   |
| 16S        | 42.6      | 97.6      | 32.0   | 13.48 | 8.00   |
| 16         | 42.6      | 107.1     | 32.0   | 13.48 | 8.00   |
| 18         | 45.8      | 112.0     | 36.5   | 15.87 | 9.60   |
| 20         | 45.9      | 112.0     | 39.9   | 19.00 | 11.30  |
| 22         | 45.9      | 112.1     | 43.1   | 19.00 | 11.30  |
| 24         | 44.5      | 115.2     | 46.6   | 23.80 | 15.50  |
| 28         | 49.5      | 120.8     | 53.4   | 23.80 | 15.50  |
| 32         | 49.6      | 129.0     | 60.1   | 31.75 | 23.40  |
| 36         | 50.0      | 135.3     | 66.3   | 35.00 | 23.40  |
| 40         | 50.0      | 135.3     | 72.5   | 41.25 | 29.90  |

All dimensions for reference only.

# GT06PP/064PP

## panel plug

### GT06PP

- Square flange mounting with four through holes
- Environment proof with proper panel sealing gasket (see page 73)

### GT064PP

- Square flange mounting with four through holes
- Environment proof with proper panel sealing gasket (see page 73)
- Includes a heavy duty coupling nut



Inches

| Shell Size | L Approx. | Q Max. | Q <sup>1</sup> Max. | P ± .008 | R ± .004 | S ± .012 | T + .004 - .000 |
|------------|-----------|--------|---------------------|----------|----------|----------|-----------------|
| 10SL       | 1.087     | .898   | .953                | .110     | .717     | 1.000    | .126            |
| 14S        | 1.091     | 1.150  | 1.208               | .126     | .906     | 1.181    | .126            |
| 16S        | 1.091     | 1.260  | 1.319               | .126     | .969     | 1.280    | .126            |
| 16         | 1.469     | 1.260  | 1.319               | .126     | .969     | 1.280    | .126            |
| 18         | 1.500     | 1.437  | 1.510               | .157     | 1.063    | 1.378    | .126            |
| 20         | 1.500     | 1.571  | 1.660               | .157     | 1.157    | 1.496    | .126            |
| 22         | 1.500     | 1.697  | 1.770               | .157     | 1.252    | 1.614    | .126            |
| 24         | 1.598     | 1.835  | 1.910               | .157     | 1.374    | 1.752    | .146            |
| 28         | 1.626     | 2.102  | 2.085               | .157     | 1.563    | 2.000    | .146            |
| 32         | 1.764     | 2.366  | 2.440               | .157     | 1.752    | 2.244    | .169            |
| 36         | 1.764     | 2.610  | 2.660               | .157     | 1.937    | 2.500    | .169            |
| 40         | 1.764     | 2.850  | 2.910               | .157     | 2.185    | 2.752    | .169            |

Millimeters

| Shell Size | L Approx. | Q Max. | Q <sup>1</sup> Max. | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 - 0.0 |
|------------|-----------|--------|---------------------|---------|---------|---------|---------------|
| 10SL       | 27.6      | 22.8   | 24.2                | 2.8     | 18.2    | 25.4    | 3.2           |
| 14S        | 27.7      | 29.2   | 30.6                | 3.2     | 23.0    | 30.0    | 3.2           |
| 16S        | 27.7      | 32.0   | 33.5                | 3.2     | 24.6    | 32.5    | 3.2           |
| 16         | 37.3      | 32.0   | 33.5                | 3.2     | 24.6    | 32.5    | 3.2           |
| 18         | 38.1      | 36.5   | 38.3                | 4.0     | 27.0    | 35.0    | 3.2           |
| 20         | 38.1      | 39.9   | 42.1                | 4.0     | 29.4    | 38.0    | 3.2           |
| 22         | 38.1      | 43.1   | 44.9                | 4.0     | 31.8    | 41.0    | 3.2           |
| 24         | 40.6      | 46.6   | 48.5                | 4.0     | 34.9    | 44.5    | 3.7           |
| 28         | 41.3      | 53.4   | 52.9                | 4.0     | 39.7    | 50.8    | 3.7           |
| 32         | 44.8      | 60.1   | 61.9                | 4.0     | 44.5    | 57.0    | 4.3           |
| 36         | 44.8      | 66.3   | 67.5                | 4.0     | 49.2    | 63.5    | 4.3           |
| 40         | 44.8      | 72.4   | 73.9                | 4.0     | 55.5    | 69.9    | 4.3           |

All dimensions for reference only.

# GT06R

## straight plug

- With a wire sealing grommet
- Includes a backshell for conduit termination
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------|
| 10SL       | .6250-24UNEF            | .409      | .374      | 1.969     | .898      |
| 14S        | .7500-20UNEF            | .520      | .374      | 1.969     | 1.150     |
| 16S        | .8750-20UNEF            | .638      | .374      | 1.969     | 1.260     |
| 16         | .8750-20UNEF            | .638      | .374      | 2.362     | 1.260     |
| 18         | 1.0000-20UNEF           | .756      | .374      | 2.362     | 1.437     |
| 20         | 1.1875-18UNEF           | .867      | .374      | 2.362     | 1.571     |
| 22         | 1.1875-18UNEF           | .965      | .374      | 2.362     | 1.697     |
| 24         | 1.4375-18UNEF           | 1.094     | .374      | 2.560     | 1.835     |
| 28         | 1.4375-18UNEF           | 1.228     | .374      | 2.560     | 2.102     |
| 32         | 1.7500-18UNS            | 1.488     | .433      | 2.560     | 2.366     |
| 36         | 2.0000-18UNS            | 1.780     | .465      | 3.150     | 2.610     |
| 40         | 2.2500-16UN             | 2.016     | .465      | 3.150     | 2.850     |

Millimeters

| Shell Size | F<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. |
|------------|-----------|-----------|-----------|-----------|
| 10SL       | 10.4      | 9.5       | 50        | 22.8      |
| 14S        | 13.2      | 9.5       | 50        | 29.2      |
| 16S        | 16.2      | 9.5       | 50        | 32.0      |
| 16         | 16.2      | 9.5       | 60        | 32.0      |
| 18         | 19.2      | 9.5       | 60        | 36.5      |
| 20         | 22.0      | 9.5       | 60        | 39.9      |
| 22         | 24.5      | 9.5       | 60        | 43.1      |
| 24         | 27.8      | 9.5       | 65        | 46.6      |
| 28         | 31.2      | 9.5       | 65        | 53.4      |
| 32         | 37.8      | 11.0      | 65        | 60.1      |
| 36         | 45.2      | 11.8      | 80        | 66.3      |
| 40         | 51.2      | 11.8      | 80        | 72.4      |

All dimensions for reference only.

# GT06RV

## straight plug

- With a wire sealing grommet
- For use with individual wires
- Environment proof



Inches

| Shell Size | L Max. | Q Max. | KK Max. |
|------------|--------|--------|---------|
| 10SL       | 1.417  | .898   | .787    |
| 14S        | 1.437  | 1.150  | .945    |
| 16S        | 1.437  | 1.260  | 1.024   |
| 16         | 1.929  | 1.260  | 1.024   |
| 18         | 1.929  | 1.437  | 1.161   |
| 20         | 1.969  | 1.571  | 1.299   |
| 22         | 1.969  | 1.697  | 1.417   |
| 24         | 2.008  | 1.835  | 1.543   |
| 28         | 2.008  | 2.102  | 1.811   |
| 32         | 2.087  | 2.366  | 2.028   |
| 36         | 2.106  | 2.610  | 2.283   |
| 40         | 2.126  | 2.850  | 2.539   |

Millimeters

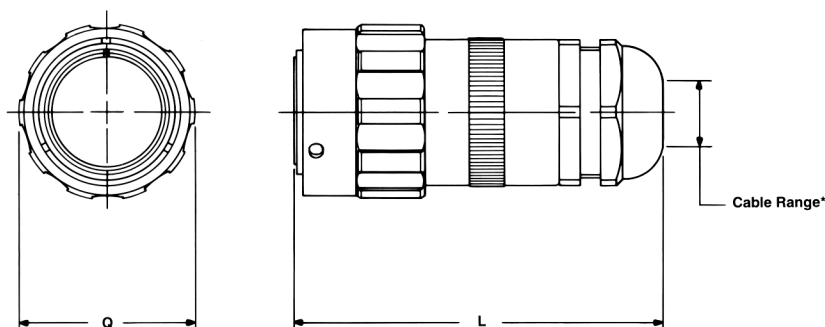
| Shell Size | L Max. | Q Max. | KK Max. |
|------------|--------|--------|---------|
| 10SL       | 36.0   | 22.8   | 20.0    |
| 14S        | 36.5   | 29.2   | 24.0    |
| 16S        | 36.5   | 32.0   | 26.0    |
| 16         | 49.0   | 32.0   | 26.0    |
| 18         | 49.0   | 36.5   | 29.5    |
| 20         | 50.0   | 39.9   | 33.0    |
| 22         | 50.0   | 43.1   | 36.0    |
| 24         | 51.0   | 46.6   | 40.0    |
| 28         | 51.0   | 53.4   | 46.0    |
| 32         | 53.0   | 60.1   | 51.5    |
| 36         | 53.5   | 66.3   | 58.0    |
| 40         | 54.0   | 72.4   | 64.5    |

All dimensions for reference only.

# GT065SL(\*)

## straight plug

- Includes a long heavy duty coupling nut
- Includes a liquid tight strain relief to grip and seal jacketed cable
- Environment proof



Inches

| Shell Size | L Ref. | Q Max. | Cable Range |           |
|------------|--------|--------|-------------|-----------|
|            |        |        | (1)*        | (2)*      |
| 10SL       | 3.516  | 1.007  | .11-.26     | .07-.12   |
| 14S        | 3.628  | 1.259  | .15-.32     | .07-.24   |
| 16S        | 3.808  | 1.410  | .19-.39     | .11-.28   |
| 16         | 4.355  | 1.410  | .19-.39     | .11-.28   |
| 18         | 4.249  | 1.547  | .23-.47     | .19-.35   |
| 20         | 4.255  | 1.681  | .39-.56     | .27-.47   |
| 22         | 4.329  | 1.847  | .51-.71     | .35-.63   |
| 24         | 4.816  | 1.965  | .51-.71     | .35-.63   |
| 28         | 4.817  | 2.222  | .70-.98     | .51-.79   |
| 32         | 4.817  | 2.482  | .86-1.26    | .78-1.02  |
| 36         | 5.048  | 2.721  | 1.26-1.50   | .98-1.22  |
| 40         | 4.978  | 2.953  | 1.45-1.75   | 1.14-1.38 |

Millimeters

| Shell Size | L Ref. | Q Max. | Cable Range |            |
|------------|--------|--------|-------------|------------|
|            |        |        | (1)*        | (2)*       |
| 10SL       | 89.3   | 25.5   | 2.7-6.6     | 1.7-3.0    |
| 14S        | 92.1   | 31.9   | 3.8-8.1     | 1.7-6.0    |
| 16S        | 96.7   | 35.8   | 4.8-9.9     | 2.7-7.1    |
| 16         | 110.6  | 35.8   | 4.8-9.9     | 2.7-7.1    |
| 18         | 107.9  | 39.2   | 5.8-11.9    | 4.8-8.8    |
| 20         | 108.0  | 42.6   | 9.9-14.2    | 6.8-11.9   |
| 22         | 109.9  | 46.9   | 12.9-18.0   | 8.8-16.0   |
| 24         | 122.3  | 49.9   | 12.9-18.0   | 8.8-16.0   |
| 28         | 122.3  | 56.4   | 17.7-24.8   | 12.9-20.0  |
| 32         | 122.3  | 63.0   | 21.8-32.0   | 19.8-25.9  |
| 36         | 128.2  | 69.1   | 32.0-38.1   | 24.8-30.9  |
| 40         | 126.4  | 75.0   | 36.8-44.4   | 28.9-35.05 |

All dimensions for reference only.

\* Add suffix 1 or 2 for desired cable range.

# GT07R

## jam nut receptacle

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



Inches

| Shell Size | B<br>Thread<br>Class 2A | G<br>± .012 | J<br>Wall Thickness |      | M<br>± .012 | N<br>+ .000<br>- .006 | P<br>± .007 | R<br>± .016 | S<br>± .012 |
|------------|-------------------------|-------------|---------------------|------|-------------|-----------------------|-------------|-------------|-------------|
|            |                         |             | Min.                | Max. |             |                       |             |             |             |
| 10SL       | .8750-20 UNEF           | .441        | .094                | .205 | .965        | .717                  | .157        | 1.062       | 1.252       |
| 14S        | 1.1250-18 UNEF          | .575        | .094                | .295 | 1.055       | .969                  | .189        | 1.312       | 1.626       |
| 16S        | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.055       | 1.079                 | .189        | 1.500       | 1.748       |
| 16         | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.264       | 1.079                 | .189        | 1.500       | 1.748       |
| 18         | 1.3750-18 UNEF          | .661        | .094                | .354 | 1.327       | 1.213                 | .189        | 1.562       | 1.874       |
| 20         | 1.5000-18 UNEF          | .709        | .094                | .358 | 1.327       | 1.346                 | .189        | 1.750       | 2.000       |
| 22         | 1.6250-18 UNEF          | .795        | .094                | .358 | 1.327       | 1.472                 | .189        | 2.000       | 2.252       |
| 24         | 1.7500-18 UNEF          | .795        | .094                | .358 | 1.327       | 1.610                 | .189        | 2.000       | 2.252       |
| 28         | 2.0000-18 UNS           | .886        | .094                | .394 | 1.386       | 1.839                 | .220        | 2.188       | 2.500       |
| 32         | 2.2500-16 UN            | .972        | .094                | .394 | 1.386       | 2.102                 | .220        | 2.438       | 2.748       |
| 36         | 2.5000-16 UN            | 1.059       | .094                | .327 | 1.386       | 2.346                 | .220        | 2.812       | 3.000       |
| 40         | 2.7500-16 UN            | 1.165       | .094                | .327 | 1.386       | 2.579                 | .220        | 3.000       | 3.248       |

Millimeters

| Shell Size | G<br>± 0.3 | J<br>Wall Thickness |      | M<br>± 0.3 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.4 | S<br>± 0.3 |
|------------|------------|---------------------|------|------------|-----------------------|------------|------------|------------|
|            |            | Min.                | Max. |            |                       |            |            |            |
| 10SL       | 11.2       | 2.4                 | 5.2  | 24.5       | 18.2                  | 4.0        | 27         | 31.8       |
| 14S        | 14.6       | 2.4                 | 7.5  | 26.8       | 24.6                  | 4.8        | 33         | 41.3       |
| 16S        | 15.7       | 2.4                 | 7.5  | 26.8       | 27.4                  | 4.8        | 38         | 44.4       |
| 16         | 15.7       | 2.4                 | 7.5  | 32.1       | 27.4                  | 4.8        | 38         | 44.4       |
| 18         | 16.8       | 2.4                 | 9.0  | 33.7       | 30.8                  | 4.8        | 40         | 47.6       |
| 20         | 18.0       | 2.4                 | 9.1  | 33.7       | 34.2                  | 4.8        | 44         | 50.8       |
| 22         | 20.2       | 2.4                 | 9.1  | 33.7       | 37.4                  | 4.8        | 51         | 57.2       |
| 24         | 20.2       | 2.4                 | 9.1  | 33.7       | 40.9                  | 4.8        | 51         | 57.2       |
| 28         | 22.5       | 2.4                 | 10.0 | 35.2       | 46.7                  | 5.6        | 56         | 63.5       |
| 32         | 24.7       | 2.4                 | 10.0 | 35.2       | 53.4                  | 5.6        | 62         | 69.8       |
| 36         | 26.9       | 2.4                 | 8.3  | 35.2       | 59.6                  | 5.6        | 71         | 76.2       |
| 40         | 29.6       | 2.4                 | 8.3  | 35.2       | 65.5                  | 5.6        | 76         | 82.5       |

All dimensions for reference only.

# GT070

## jam nut receptacle

- For rear panel single hole mounting
- Threaded rear for accessories
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | G<br>± .012 | J<br>Wall Thickness |      | L<br>± .010 | M<br>± .012 | N<br>+ .000<br>- .006 | P<br>± .007 | R<br>± .016 | S<br>± .012 | BB<br>Thread<br>Class 2A |
|------------|-------------------------|-------------|---------------------|------|-------------|-------------|-----------------------|-------------|-------------|-------------|--------------------------|
|            |                         |             | Min.                | Max. |             |             |                       |             |             |             |                          |
| 10SL       | .8750-20 UNEF           | .441        | .094                | .205 | 1.425       | .965        | .717                  | .157        | 1.062       | 1.252       | .6250-24 UNEF            |
| 14S        | 1.1250-18 UNEF          | .575        | .094                | .295 | 1.531       | 1.055       | .969                  | .189        | 1.312       | 1.626       | .7500-20 UNEF            |
| 16S        | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.531       | 1.055       | 1.079                 | .189        | 1.500       | 1.748       | .8750-20 UNEF            |
| 16         | 1.2500-18 UNEF          | .618        | .094                | .295 | 1.909       | 1.264       | 1.079                 | .189        | 1.500       | 1.748       | .8750-20 UNEF            |
| 18         | 1.3750-18 UNEF          | .661        | .094                | .354 | 1.941       | 1.327       | 1.213                 | .189        | 1.562       | 1.874       | 1.0000-20 UNEF           |
| 20         | 1.5000-18 UNEF          | .709        | .094                | .358 | 1.941       | 1.327       | 1.346                 | .189        | 1.750       | 2.000       | 1.1250-18 UNEF           |
| 22         | 1.6250-18 UNEF          | .795        | .094                | .358 | 1.941       | 1.327       | 1.472                 | .189        | 2.000       | 2.252       | 1.2500-18 UNEF           |
| 24         | 1.7500-18 UNEF          | .795        | .094                | .358 | 1.953       | 1.327       | 1.610                 | .189        | 2.000       | 2.252       | 1.3750-18 UNEF           |
| 28         | 2.0000-18 UNS           | .886        | .094                | .394 | 2.043       | 1.386       | 1.839                 | .220        | 2.188       | 2.500       | 1.6250-18 UNEF           |
| 32         | 2.2500-16 UN            | .972        | .094                | .394 | 2.043       | 1.386       | 2.102                 | .220        | 2.438       | 2.748       | 1.8750-16 UN             |
| 36         | 2.5000-16 UN            | 1.059       | .094                | .327 | 2.043       | 1.386       | 2.346                 | .220        | 2.812       | 3.000       | 2.0625-16 UN             |
| 40         | 2.7500-16 UN            | 1.165       | .094                | .327 | 2.043       | 1.386       | 2.579                 | .220        | 3.000       | 3.248       | 2.3125-16 UN             |

Millimeters

| Shell Size | G<br>± 0.3 | J<br>Wall Thickness |      | I<br>± 0.3 | M<br>± 0.3 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.4 | S<br>± 0.3 |
|------------|------------|---------------------|------|------------|------------|-----------------------|------------|------------|------------|
|            |            | Min.                | Max. |            |            |                       |            |            |            |
| 10SL       | 11.2       | 2.4                 | 5.2  | 36.2       | 24.5       | 18.2                  | 4.0        | 27         | 31.8       |
| 14S        | 14.6       | 2.4                 | 7.5  | 38.9       | 26.8       | 24.6                  | 4.8        | 33         | 41.3       |
| 16S        | 15.7       | 2.4                 | 7.5  | 38.9       | 26.8       | 27.4                  | 4.8        | 38         | 44.4       |
| 16         | 15.7       | 2.4                 | 7.5  | 48.5       | 32.1       | 27.4                  | 4.8        | 38         | 44.4       |
| 18         | 16.8       | 2.4                 | 9.0  | 49.3       | 33.7       | 30.8                  | 4.8        | 40         | 47.6       |
| 20         | 18.0       | 2.4                 | 9.1  | 49.3       | 33.7       | 34.2                  | 4.8        | 44         | 50.8       |
| 22         | 20.2       | 2.4                 | 9.1  | 49.3       | 33.7       | 37.4                  | 4.8        | 51         | 57.2       |
| 24         | 20.2       | 2.4                 | 9.1  | 49.6       | 33.7       | 40.9                  | 4.8        | 51         | 57.2       |
| 28         | 22.5       | 2.4                 | 10.0 | 51.9       | 35.2       | 46.7                  | 5.6        | 56         | 63.5       |
| 32         | 24.7       | 2.4                 | 10.0 | 51.9       | 35.2       | 53.4                  | 5.6        | 62         | 69.8       |
| 36         | 26.9       | 2.4                 | 8.3  | 51.9       | 35.2       | 59.6                  | 5.6        | 71         | 76.2       |
| 40         | 29.6       | 2.4                 | 8.3  | 51.9       | 35.2       | 65.5                  | 5.6        | 76         | 82.5       |

All dimensions for reference only.

# GT08A

## 90° angle plug

- Without a wire sealing grommet or clamp
- Non-environment proof
- If a cable clamp is required, see pages 76 and 78



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Max. | J<br>Min. | K<br>Max. | L<br>Max. | Q<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| 10SL       | .6250-24UNEF            | .337      | .370      | 1.181     | 1.772     | .898      |
| 14S        | .7500-20UNEF            | .462      | .370      | 1.181     | 1.850     | 1.150     |
| 16S        | .8750-20UNEF            | .587      | .370      | 1.181     | 1.890     | 1.299     |
| 16         | .8750-20UNEF            | .587      | .370      | 1.181     | 2.244     | 1.299     |
| 18         | 1.0000-20UNEF           | .685      | .370      | 1.378     | 2.283     | 1.437     |
| 20         | 1.1875-18UNEF           | .810      | .370      | 1.378     | 2.402     | 1.571     |
| 22         | 1.1875-18UNEF           | .915      | .370      | 1.378     | 2.402     | 1.697     |
| 24         | 1.4375-18UNEF           | 1.025     | .370      | 1.575     | 2.598     | 1.835     |
| 28         | 1.4375-18UNEF           | 1.139     | .370      | 1.575     | 2.598     | 2.102     |
| 32         | 1.7500-18UNS            | 1.447     | .433      | 1.772     | 2.835     | 2.366     |
| 36         | 2.0000-18UNS            | 1.687     | .496      | 1.969     | 2.953     | 2.610     |
| 40         | 2.2500-16UN             | 1.923     | .496      | 2.165     | 3.071     | 2.850     |

Millimeters

| Shell Size | F<br>Max. | J<br>Min. | K<br>Max. | L<br>Max. | Q<br>Max. |
|------------|-----------|-----------|-----------|-----------|-----------|
| 10SL       | 8.5       | 9.4       | 30        | 45        | 22.8      |
| 14S        | 11.7      | 9.4       | 30        | 47        | 29.2      |
| 16S        | 14.9      | 9.4       | 30        | 48        | 33.0      |
| 16         | 14.9      | 9.4       | 30        | 57        | 33.0      |
| 18         | 17.4      | 9.4       | 35        | 58        | 36.5      |
| 20         | 20.5      | 9.4       | 35        | 61        | 39.9      |
| 22         | 23.2      | 9.4       | 35        | 61        | 43.1      |
| 24         | 26.0      | 9.4       | 40        | 66        | 46.6      |
| 28         | 28.9      | 9.4       | 40        | 66        | 53.4      |
| 32         | 36.7      | 11.0      | 45        | 72        | 60.1      |
| 36         | 42.8      | 12.6      | 50        | 75        | 66.3      |
| 40         | 48.8      | 12.6      | 55        | 78        | 72.4      |

All dimensions for reference only.

# GT08AF/08F

## 90° angle plug

### GT08AF

- With a cable clamp
- Wire sealing grommet not included
- Non-environment proof

### GT08F

- With a wire sealing grommet and cable clamp
- For use with individual wires
- Environment proof



Inches

| Shell Size | K Max. | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|--------|---------|---------|
| 10SL       | 1.654  | 1.772  | .898   | .220   | .894    | 3.937   |
| 14S        | 1.654  | 1.850  | 1.150  | .312   | 1.083   | 3.937   |
| 16S        | 1.772  | 1.890  | 1.299  | .437   | 1.181   | 3.937   |
| 16         | 1.772  | 2.244  | 1.299  | .437   | 1.181   | 3.937   |
| 18         | 2.087  | 2.283  | 1.437  | .562   | 1.299   | 3.937   |
| 20         | 2.087  | 2.402  | 1.571  | .625   | 1.476   | 3.937   |
| 22         | 2.087  | 2.402  | 1.697  | .625   | 1.476   | 3.937   |
| 24         | 2.283  | 2.598  | 1.835  | .750   | 1.705   | 3.937   |
| 28         | 2.283  | 2.598  | 2.102  | .750   | 1.705   | 3.937   |
| 32         | 2.598  | 2.835  | 2.366  | .937   | 2.061   | 4.331   |
| 36         | 2.717  | 2.953  | 2.610  | 1.250  | 2.283   | 4.331   |
| 40         | 3.740  | 3.071  | 2.850  | 1.375  | 2.579   | 5.512   |

Millimeters

| Shell Size | K Max. | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|------------|--------|--------|--------|--------|---------|---------|
| 10SL       | 42     | 45     | 22.8   | 5.58   | 22.7    | 100     |
| 14S        | 42     | 47     | 29.2   | 7.92   | 27.5    | 100     |
| 16S        | 45     | 48     | 33.0   | 11.09  | 30.0    | 100     |
| 16         | 45     | 57     | 33.0   | 11.09  | 30.0    | 100     |
| 18         | 53     | 58     | 36.5   | 14.27  | 33.0    | 100     |
| 20         | 53     | 61     | 39.9   | 15.87  | 37.5    | 100     |
| 22         | 53     | 61     | 43.1   | 15.87  | 37.5    | 100     |
| 24         | 58     | 66     | 46.6   | 19.05  | 43.3    | 100     |
| 28         | 58     | 66     | 53.4   | 19.05  | 43.3    | 100     |
| 32         | 66     | 72     | 60.1   | 23.79  | 51.7    | 110     |
| 36         | 69     | 75     | 66.3   | 31.75  | 58.0    | 110     |
| 40         | 95     | 78     | 72.4   | 34.92  | 65.5    | 140     |

All dimensions for reference only.

# GT08CFGG

## 90° angle plug

- Rubber covered coupling nut provides superior gripping surface and seals beyond ramps
- Includes clamp to grip and seal jacketed cable
- Mates with GT020RFSM (see page 47)
- Environment proof



Inches

| Shell Size | K Max. | L Max. | Q Dia. | S Dia. | Z     |        | KK ± .008 |
|------------|--------|--------|--------|--------|-------|--------|-----------|
|            |        |        |        |        | Open  | Closed |           |
| 10SL       | 2.402  | 1.929  | 1.319  | 1.122  | .312  | .094   | .890      |
| 18         | 2.677  | 2.520  | 1.929  | 1.713  | .625  | .378   | 1.220     |
| 20         | 2.677  | 2.638  | 2.028  | 1.811  | .748  | .445   | 1.469     |
| 22         | 2.677  | 2.638  | 2.205  | 1.988  | .748  | .445   | 1.469     |
| 24         | 2.992  | 2.874  | 2.362  | 2.126  | .937  | .610   | 1.654     |
| 28         | 2.992  | 2.874  | 2.638  | 2.402  | .937  | .610   | 1.654     |
| 32         | 3.425  | 3.071  | 2.992  | 2.661  | 1.250 | .921   | 2.126     |
| 36         | 3.858  | 3.189  | 3.240  | 2.925  | 1.378 | .921   | 2.248     |
| 40         | 4.055  | 3.307  | 3.465  | 3.150  | 1.624 | 1.177  | 2.500     |

Millimeters

| Shell Size | K Max. | L Max. | Q Dia. | S Dia. | Z     |        | KK ± 0.2 |
|------------|--------|--------|--------|--------|-------|--------|----------|
|            |        |        |        |        | Open  | Closed |          |
| 10SL       | 61     | 49     | 33.5   | 28.5   | 7.93  | 2.38   | 22.6     |
| 18         | 68     | 64     | 49.0   | 43.5   | 15.87 | 9.60   | 31.0     |
| 20         | 68     | 67     | 51.5   | 46.0   | 19.00 | 11.30  | 37.3     |
| 22         | 68     | 67     | 56.0   | 50.5   | 19.00 | 11.30  | 37.3     |
| 24         | 76     | 73     | 60.0   | 54.0   | 23.80 | 15.50  | 42.0     |
| 28         | 76     | 73     | 67.0   | 61.0   | 23.80 | 15.50  | 42.0     |
| 32         | 87     | 78     | 76.0   | 67.6   | 31.75 | 23.40  | 54.0     |
| 36         | 98     | 81     | 82.3   | 74.3   | 35.00 | 23.40  | 57.1     |
| 40         | 103    | 84     | 88.0   | 80.0   | 41.25 | 29.90  | 63.5     |

All dimensions for reference only.

# GT08R

## 90° angle plug

- With a wire sealing grommet for conduit termination
- For use with individual wires
- Environment proof



Inches

| Shell Size | B<br>Thread<br>Class 2A | F<br>Max. | J<br>Min. | K<br>Max. | L<br>Max. | Q<br>Max. |
|------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| 10SL       | .6250-24UNEF            | .337      | .370      | 1.181     | 1.772     | .898      |
| 14S        | .7500-20UNEF            | .462      | .370      | 1.181     | 1.850     | 1.150     |
| 16S        | .8750-20UNEF            | .587      | .370      | 1.181     | 1.890     | 1.299     |
| 16         | .8750-20UNEF            | .587      | .370      | 1.181     | 2.244     | 1.299     |
| 18         | 1.0000-20UNEF           | .685      | .370      | 1.378     | 2.283     | 1.437     |
| 20         | 1.1875-18UNEF           | .810      | .370      | 1.378     | 2.402     | 1.571     |
| 22         | 1.1875-18UNEF           | .915      | .370      | 1.378     | 2.402     | 1.697     |
| 24         | 1.4375-18UNEF           | 1.025     | .370      | 1.575     | 2.598     | 1.835     |
| 28         | 1.4375-18UNEF           | 1.139     | .370      | 1.575     | 2.598     | 2.102     |
| 32         | 1.7500-18UNS            | 1.447     | .433      | 1.772     | 2.835     | 2.366     |
| 36         | 2.0000-18UNS            | 1.687     | .496      | 1.969     | 2.953     | 2.610     |
| 40         | 2.2500-16UN             | 1.923     | .496      | 2.165     | 3.071     | 2.850     |

Millimeters

| Shell Size | F<br>Max. | J<br>Min. | K<br>Max. | L<br>Max. | Q<br>Max. |
|------------|-----------|-----------|-----------|-----------|-----------|
| 10SL       | 8.5       | 9.4       | 30        | 45        | 22.8      |
| 14S        | 11.7      | 9.4       | 30        | 47        | 29.2      |
| 16S        | 14.9      | 9.4       | 30        | 48        | 33.0      |
| 16         | 14.9      | 9.4       | 30        | 57        | 33.0      |
| 18         | 17.4      | 9.4       | 35        | 58        | 36.5      |
| 20         | 20.5      | 9.4       | 35        | 61        | 39.9      |
| 22         | 23.2      | 9.4       | 35        | 61        | 43.1      |
| 24         | 26.0      | 9.4       | 40        | 66        | 46.6      |
| 28         | 28.9      | 9.4       | 40        | 66        | 53.4      |
| 32         | 36.7      | 11.0      | 45        | 72        | 60.1      |
| 36         | 42.8      | 12.6      | 50        | 75        | 66.3      |
| 40         | 48.8      | 12.6      | 55        | 78        | 72.4      |

All dimensions for reference only.

# GT05

## dummy receptacle

- Square flange
- Four through mounting holes
- Stows cable plugs when not in use



Inches

| Shell Size | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | .559                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | .559                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | .559                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | .748                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | .748                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | .748                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | .748                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | .811                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | .811                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | .874                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | .874                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | .874                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ 0.1<br>- 0.0 |
|------------|---------------------|-----------------------|------------|------------|------------|---------------------|
| 10SL       | 14.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                 |
| 14S        | 14.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                 |
| 16S        | 14.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 16         | 19.0                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                 |
| 18         | 19.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                 |
| 20         | 19.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                 |
| 22         | 19.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                 |
| 24         | 20.6                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                 |
| 28         | 20.6                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                 |
| 32         | 22.2                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                 |
| 36         | 22.2                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                 |
| 40         | 22.2                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                 |

All dimensions for reference only.

# GTTB

## thru-bulkhead receptacles

- Accepts mating plug on both sides
- Four through mounting holes



Inches

| Shell Size | L<br>Max. | M<br>+ .016<br>- .000 | N<br>+ .000<br>- .006 | P<br>± .008 | R<br>± .004 | S<br>± .012 | T<br>+ .004<br>- .000 |
|------------|-----------|-----------------------|-----------------------|-------------|-------------|-------------|-----------------------|
| 10SL       | 1.488     | .717                  | .717                  | .110        | .717        | 1.000       | .126                  |
| 14S        | 1.488     | .717                  | .969                  | .126        | .906        | 1.181       | .126                  |
| 16S        | 1.488     | .717                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 16         | 2.049     | .846                  | 1.079                 | .126        | .969        | 1.280       | .126                  |
| 18         | 2.049     | .907                  | 1.213                 | .157        | 1.063       | 1.378       | .126                  |
| 20         | 2.049     | .907                  | 1.346                 | .157        | 1.157       | 1.496       | .126                  |
| 22         | 2.049     | .907                  | 1.472                 | .157        | 1.252       | 1.614       | .126                  |
| 24         | 2.049     | .907                  | 1.610                 | .157        | 1.374       | 1.752       | .146                  |
| 28         | 2.049     | .947                  | 1.839                 | .157        | 1.563       | 2.000       | .146                  |
| 32         | 2.049     | .947                  | 2.102                 | .157        | 1.752       | 2.244       | .169                  |
| 36         | 2.049     | .947                  | 2.346                 | .157        | 1.937       | 2.500       | .169                  |
| 40         | 2.049     | .947                  | 2.579                 | .157        | 2.185       | 2.752       | .169                  |

Millimeters

| Shell Size | L<br>Max. | M<br>+ 0.4<br>- 0.0 | N<br>+ 0.00<br>- 0.15 | P<br>± 0.2 | R<br>± 0.1 | S<br>± 0.3 | T<br>+ .004<br>- .000 |
|------------|-----------|---------------------|-----------------------|------------|------------|------------|-----------------------|
| 10SL       | 37.7      | 18.2                | 18.2                  | 2.8        | 18.2       | 25.4       | 3.2                   |
| 14S        | 37.7      | 18.2                | 24.6                  | 3.2        | 23.0       | 30.0       | 3.2                   |
| 16S        | 37.7      | 18.2                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                   |
| 16         | 52.0      | 21.5                | 27.4                  | 3.2        | 24.6       | 32.5       | 3.2                   |
| 18         | 52.0      | 23.0                | 30.8                  | 4.0        | 27.0       | 35.0       | 3.2                   |
| 20         | 52.0      | 23.0                | 34.2                  | 4.0        | 29.4       | 38.0       | 3.2                   |
| 22         | 52.0      | 23.0                | 37.4                  | 4.0        | 31.8       | 41.0       | 3.2                   |
| 24         | 52.0      | 23.0                | 40.9                  | 4.0        | 34.9       | 44.5       | 3.7                   |
| 28         | 52.0      | 24.0                | 46.7                  | 4.0        | 39.7       | 50.8       | 3.7                   |
| 32         | 52.0      | 24.0                | 53.4                  | 4.0        | 44.5       | 57.0       | 4.3                   |
| 36         | 52.0      | 24.0                | 59.6                  | 4.0        | 49.2       | 63.5       | 4.3                   |
| 40         | 52.0      | 24.0                | 65.5                  | 4.0        | 55.5       | 69.9       | 4.3                   |

All dimensions for reference only.

# GT Connectors – accessories

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



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



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



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

The rear panel gasket is equivalent to the plain flat gasket made of synthetic rubber material, and is used for back panel mounting.

Inches

| Installation Dimensions |             |                                               |                                             |                       |             |
|-------------------------|-------------|-----------------------------------------------|---------------------------------------------|-----------------------|-------------|
| MS Shell Size           | A<br>± .010 | Front Panel Versions<br>B<br>+ .016<br>- .000 | Rear Panel Version<br>B<br>+ .016<br>- .000 | C<br>+ .016<br>- .000 | D<br>± .010 |
| 10SL                    | .719        | .625                                          | .724                                        | 1.000                 | .172        |
| 14S                     | .906        | .875                                          | .976                                        | 1.188                 | .172        |
| 16S                     | .969        | 1.000                                         | 1.087                                       | 1.281                 | .172        |
| 16                      | .969        | 1.000                                         | 1.087                                       | 1.281                 | .172        |
| 18                      | 1.063       | 1.125                                         | 1.220                                       | 1.375                 | .203        |
| 20                      | 1.156       | 1.250                                         | 1.354                                       | 1.500                 | .203        |
| 22                      | 1.250       | 1.375                                         | 1.480                                       | 1.625                 | .203        |
| 24                      | 1.375       | 1.500                                         | 1.618                                       | 1.750                 | .203        |
| 28                      | 1.563       | 1.750                                         | 1.846                                       | 2.000                 | .203        |
| 32                      | 1.750       | 2.000                                         | 2.110                                       | 2.250                 | .219        |
| 36                      | 1.938       | 2.188                                         | 2.354                                       | 2.500                 | .219        |
| 40                      | 2.188       | 2.438                                         | 2.587                                       | 2.750                 | .219        |

| Order Data                |                               |                                     |                    |
|---------------------------|-------------------------------|-------------------------------------|--------------------|
| Front Panel Plain Version | Front Panel Shielding Version | Front Panel Low Temperature Version | Rear Panel Version |
| 10-40450-10               | 10-40450-10S                  | 10-36675-10                         | 10-580649-10       |
| 10-40450-14               | 10-40450-14S                  | 10-36675-14                         | 10-580649-14       |
| 10-40450-16               | 10-40450-16S                  | 10-36675-16                         | 10-580649-16       |
| 10-40450-16               | 10-40450-16S                  | 10-36675-16                         | 10-580649-16       |
| 10-40450-18               | 10-40450-18S                  | 10-36675-18                         | 10-580649-18       |
| 10-40450-20               | 10-40450-20S                  | 10-36675-20                         | 10-580649-20       |
| 10-40450-22               | 10-40450-22S                  | 10-36675-22                         | 10-580649-22       |
| 10-40450-24               | 10-40450-24S                  | 10-36675-24                         | 10-580649-24       |
| 10-40450-28               | 10-40450-28S                  | 10-36675-28                         | 10-580649-26       |
| 10-40450-32               | 10-40450-32S                  | 10-36675-32                         | 10-580649-32       |
| 10-40450-36               | 10-40450-36S                  | 10-36675-36                         | 10-580649-36       |
| 10-40450-40               | 10-40450-40S                  | 10-36675-40                         | 10-580649-40       |

Millimeters

| Installation Dimensions |            |                                             |                                           |                     |            |
|-------------------------|------------|---------------------------------------------|-------------------------------------------|---------------------|------------|
| MS Shell Size           | A<br>± 0.2 | Front Panel Versions<br>B<br>+ 0.4<br>- 0.0 | Rear Panel Version<br>B<br>+ 0.4<br>- 0.0 | C<br>+ 0.4<br>- 0.0 | D<br>± 0.2 |
| 10SL                    | 18.2       | 15.9                                        | 18.4                                      | 25.4                | 4.36       |
| 14S                     | 23.0       | 22.2                                        | 24.8                                      | 30.2                | 4.36       |
| 16S                     | 24.6       | 25.4                                        | 27.6                                      | 32.5                | 4.36       |
| 16                      | 24.6       | 25.4                                        | 27.6                                      | 32.5                | 4.36       |
| 18                      | 27.0       | 28.57                                       | 31.0                                      | 35.0                | 5.15       |
| 20                      | 29.4       | 31.75                                       | 34.4                                      | 38.1                | 5.15       |
| 22                      | 31.8       | 34.9                                        | 37.6                                      | 41.2                | 5.15       |
| 24                      | 34.9       | 38.1                                        | 41.1                                      | 44.5                | 5.15       |
| 28                      | 39.7       | 44.45                                       | 46.9                                      | 50.8                | 5.15       |
| 32                      | 44.5       | 50.8                                        | 53.6                                      | 57.2                | 5.56       |
| 36                      | 49.2       | 55.57                                       | 59.8                                      | 63.5                | 5.56       |
| 40                      | 55.6       | 61.92                                       | 65.7                                      | 69.9                | 5.56       |

# GT Connectors – accessories

## receptacle protection caps

- Protective metal caps which seal the front of receptacles
- Includes a chain for retention of the cap at the required location
- For receptacles: GT00, 01, 02, 020, 030, 070

\* 10-580902-XXX



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

Inches

| Shell Size | D<br>+ .020<br>- .000 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|-----------------------|-----------|-----------|---------------|
| 11         | .173                  | .650      | .905      | 5.000         |
| 14         | .173                  | .650      | 1.181     | 5.000         |
| 16         | .173                  | .827      | 1.280     | 5.000         |
| 17         | .173                  | .650      | 1.280     | 5.000         |
| 18         | .173                  | .827      | 1.457     | 5.000         |
| 20         | .173                  | .827      | 1.594     | 5.000         |
| 22         | .173                  | .827      | 1.713     | 5.000         |
| 24         | .173                  | .827      | 1.850     | 5.000         |
| 28         | .220                  | .827      | 2.126     | 7.480         |
| 32         | .220                  | .827      | 2.382     | 7.480         |
| 36         | .220                  | .827      | 2.638     | 6.890         |
| 40         | .220                  | .827      | 2.874     | 7.480         |

| Finish                         | Suffix |
|--------------------------------|--------|
| Black anodize                  | -XX2   |
| Olive drab cadmium plate       | -XX3   |
| Olive drab cadmium nickel base | -XX9   |

Millimeters

| Shell Size | D<br>+ 0.5<br>- 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 11         | 4.4                 | 16.5      | 23.0      | 127           |
| 14         | 4.4                 | 16.5      | 30.0      | 127           |
| 16         | 4.4                 | 21.0      | 32.5      | 127           |
| 17         | 4.4                 | 16.5      | 32.5      | 127           |
| 18         | 4.4                 | 21.0      | 37.0      | 127           |
| 20         | 4.4                 | 21.0      | 40.5      | 127           |
| 22         | 4.4                 | 21.0      | 43.5      | 127           |
| 24         | 4.4                 | 21.0      | 47.0      | 127           |
| 28         | 5.6                 | 21.0      | 54.0      | 190           |
| 32         | 5.6                 | 21.0      | 60.5      | 190           |
| 36         | 5.6                 | 21.0      | 67.0      | 175           |
| 40         | 5.6                 | 21.0      | 73.0      | 190           |

All dimensions for reference only.

# GT Connectors – accessories

## plug protection caps

- Protective metal caps which seal the front of plugs
- Includes a chain for retention of the cap at the required location
- For receptacles: GT06, 08

\* 10-580903-XXX



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

Inches

| Shell Size | D<br>+ .020<br>- .000 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|-----------------------|-----------|-----------|---------------|
| 11         | .157                  | .945      | .807      | 5.000         |
| 14         | .157                  | .945      | 1.059     | 5.000         |
| 16         | .157                  | .945      | 1.169     | 5.000         |
| 17         | .157                  | .945      | 1.169     | 5.000         |
| 18         | .157                  | .945      | 1.303     | 5.000         |
| 20         | .189                  | 1.260     | 1.437     | 5.520         |
| 22         | .189                  | 1.260     | 1.563     | 5.520         |
| 24         | .189                  | 1.260     | 1.701     | 5.520         |
| 28         | .189                  | 1.260     | 1.929     | 7.480         |
| 32         | .220                  | 1.260     | 2.193     | 7.480         |
| 36         | .220                  | 1.260     | 2.437     | 7.480         |
| 40         | .220                  | 1.260     | 2.665     | 7.480         |

| Finish                         | Suffix |
|--------------------------------|--------|
| Black anodize                  | -XX2   |
| Olive drab cadmium plate       | -XX3   |
| Olive drab cadmium nickel base | -XX9   |

Millimeters

| Shell Size | D<br>+ 0.5<br>- 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 11         | 4.0                 | 24        | 20.5      | 127           |
| 14         | 4.0                 | 24        | 26.9      | 127           |
| 16         | 4.0                 | 24        | 29.7      | 127           |
| 17         | 4.0                 | 24        | 29.7      | 127           |
| 18         | 4.0                 | 24        | 33.1      | 127           |
| 20         | 4.8                 | 32        | 36.5      | 140           |
| 22         | 4.8                 | 32        | 39.7      | 140           |
| 24         | 4.8                 | 32        | 43.2      | 140           |
| 28         | 4.8                 | 32        | 49.0      | 190           |
| 32         | 5.6                 | 32        | 55.7      | 190           |
| 36         | 5.6                 | 32        | 61.9      | 190           |
| 40         | 5.6                 | 32        | 67.7      | 190           |

All dimensions for reference only.

# GT Connectors – accessories

## M85049/41 (MS3057-A) cable clamp

- Concentric cable clamps, insure strain relief and central location of the cable
- Can be used with bushing MS3420



Inches

| Part Number   | Used with Shell Size | Used with Bushing | B     | D    | G     | F     | V Thread Class 2B |
|---------------|----------------------|-------------------|-------|------|-------|-------|-------------------|
| M85049/41-4A  | 10SL                 | MS3420-4          | .315  | .395 | .812  | .866  | .6250-24 UNEF     |
| M85049/41-6A  | 14S                  | MS3420-6          | .442  | .395 | .875  | 1.063 | .7500-20 UNEF     |
| M85049/41-8A  | 16 - 16S             | MS3420-8          | .568  | .395 | .945  | 1.145 | .8750-20 UNEF     |
| M85049/41-10A | 18                   | MS3420-10         | .633  | .395 | .945  | 1.244 | 1.0000-20 UNEF    |
| M85049/41-12A | 20 - 22              | MS3420-12         | .758  | .395 | .945  | 1.475 | 1.1875-18 UNEF    |
| M85049/41-16A | 24 - 28              | MS3420-16         | .948  | .395 | 1.031 | 1.700 | 1.4375-18 UNEF    |
| M85049/41-20A | 32                   | MS3420-20         | 1.256 | .460 | 1.094 | 2.055 | 1.7500-18 UNS     |
| M85049/41-24A | 36                   | MS3420-24         | 1.380 | .520 | 1.157 | 2.265 | 2.0000-18 UNS     |
| M85049/41-28A | 40                   | MS3420-28         | 1.625 | .520 | 1.685 | 2.683 | 2.2500-16 UN      |

Millimeters

| Part Number   | Used with Shell Size | Used with Bushing | B    | D    | G    | F  |
|---------------|----------------------|-------------------|------|------|------|----|
| M85049/41-4A  | 10SL                 | MS3420-4          | 8.0  | 10.0 | 20.6 | 22 |
| M85049/41-6A  | 14S                  | MS3420-6          | 11.0 | 10.0 | 22.2 | 27 |
| M85049/41-8A  | 16 - 16S             | MS3420-8          | 14.4 | 10.0 | 24.0 | 29 |
| M85049/41-10A | 18                   | MS3420-10         | 16.1 | 10.0 | 24.0 | 32 |
| M85049/41-12A | 20 - 22              | MS3420-12         | 19.2 | 10.0 | 24.0 | 37 |
| M85049/41-16A | 24 - 28              | MS3420-16         | 24.1 | 10.0 | 26.2 | 43 |
| M85049/41-20A | 32                   | MS3420-20         | 31.9 | 11.7 | 27.8 | 52 |
| M85049/41-24A | 36                   | MS3420-24         | 35.0 | 13.2 | 29.4 | 58 |
| M85049/41-28A | 40                   | MS3420-28         | 41.3 | 13.2 | 42.8 | 68 |

All dimensions for reference only.

# GT Connectors – accessories

## MS3420 bushing

- Bushing of synthetic rubber to be used with cable clamps for protection of the cable or wires
- Can be telescoped for smaller cable diameters



Inches

| Part Number | Used with Cable Clamp | A     | B     | C     | D     |
|-------------|-----------------------|-------|-------|-------|-------|
| MS3420-3    | M85049/41-3A          | .130  | .210  | .379  | 2.875 |
| MS3420-4    | M85049/41-4A          | .220  | .302  | .505  | 2.750 |
| MS3420-6    | M85049/41-6A          | .312  | .427  | .619  | 2.625 |
| MS3420-8    | M85049/41-8A          | .437  | .552  | .744  | 2.500 |
| MS3420-10   | M85049/41-10A         | .562  | .615  | .889  | 2.375 |
| MS3420-12   | M85049/41-12A         | .625  | .740  | 1.084 | 2.250 |
| MS3420-16   | M85049/41-16A         | .750  | .927  | 1.314 | 2.125 |
| MS3420-20   | M85049/41-20A         | .937  | 1.240 | 1.598 | 2.000 |
| MS3420-24   | M85049/41-24A         | 1.250 | 1.365 | 1.847 | 1.875 |
| MS3420-28   | M85049/41-28A         | 1.375 | 1.614 | 2.085 | 1.750 |

Millimeters

| Part Number | Used with Cable Clamp | A     | B    | C     | D    |
|-------------|-----------------------|-------|------|-------|------|
| MS3420-3    | M85049/41-3A          | 3.30  | 5.3  | 9.60  | 73.0 |
| MS3420-4    | M85049/41-4A          | 5.58  | 7.7  | 12.80 | 69.8 |
| MS3420-6    | M85049/41-6A          | 7.92  | 10.8 | 15.70 | 66.8 |
| MS3420-8    | M85049/41-8A          | 11.09 | 14.0 | 18.90 | 63.5 |
| MS3420-10   | M85049/41-10A         | 14.27 | 15.6 | 22.58 | 60.3 |
| MS3420-12   | M85049/41-12A         | 15.87 | 18.8 | 27.50 | 57.1 |
| MS3420-16   | M85049/41-16A         | 19.05 | 23.5 | 33.40 | 53.9 |
| MS3420-20   | M85049/41-20A         | 23.79 | 31.5 | 40.60 | 50.8 |
| MS3420-24   | M85049/41-24A         | 31.75 | 34.7 | 46.90 | 47.6 |
| MS3420-28   | M85049/41-28A         | 34.92 | 41.0 | 52.90 | 44.4 |

All dimensions for reference only.

# GT Connectors – accessories

## M85049/2 (MS3057-C) cable clamp

- Waterproof clamp for jacketed cables
- Provides mechanical strain relief plus concentric clamping over a wide range of cable sizes
- A neoprene\* gland seal ensures a waterproof seal on the cable jacket

\* Other materials available



| Part Number  | Used with Shell Size | A Thread Class 2B in inches | V Thread Class 2A in inches | Used with Bushing                      | Bushing Opening Inches |                      | Busing Opening Millimeters |                        |
|--------------|----------------------|-----------------------------|-----------------------------|----------------------------------------|------------------------|----------------------|----------------------------|------------------------|
|              |                      |                             |                             |                                        | Open                   | Closed               | Open                       | Closed                 |
| M85049/2-4C  | 10SL                 | .6250-24 UNEF               | 6-32 UNC                    | MS3420-4A                              | .219                   | .010                 | 5.56                       | 0.25                   |
| M85049/2-6C  | 14S                  | .7500-20 UNEF               | 6-32 UNC                    | MS3420-6A<br>MS3420-4A                 | .312<br>.219           | .114<br>.020         | 7.93<br>5.56               | 2.89<br>0.50           |
| M85049/2-8C  | 16 & 16S             | .8750-20 UNEF               | 6-32 UNC                    | MS3420-8A<br>MS3420-6A                 | .437<br>.312           | .220<br>.085         | 11.10<br>7.93              | 5.60<br>2.15           |
| M85049/2-10C | 18                   | 1.0000-20 UNEF              | 6-32 UNC                    | MS3420-10A<br>MS3420-6A                | .437<br>.312           | .197<br>.085         | 11.10<br>7.93              | 5.00<br>2.15           |
| M85049/2-12C | 20 & 22              | 1.1875-18 UNEF              | 8-32 UNC                    | MS3420-12A<br>MS3420-8A                | .541<br>.437           | .270<br>.177         | 13.74<br>11.10             | 6.85<br>4.50           |
| M85049/2-16C | 24 & 28              | 1.4375-18 UNEF              | 8-32 UNC                    | MS3420-16A<br>MS3420-12A<br>MS3420-8A  | .748<br>.541<br>.437   | .429<br>.260<br>.186 | 19.00<br>13.74<br>11.10    | 10.90<br>6.60<br>4.72  |
| M85049/2-20C | 32                   | 1.7500-18 UNS               | .250-20 UNC                 | MS3420-20A<br>MS3420-16A<br>MS3420-12A | .937<br>.748<br>.541   | .620<br>.441<br>.273 | 23.80<br>19.00<br>13.74    | 15.74<br>11.20<br>6.93 |
| M85049/2-24C | 36                   | 2.0000-18 UNS               | .250-20 UNC                 | MS3420-24A<br>MS3420-20A<br>MS3420-16A | 1.122<br>.937<br>.748  | .681<br>.504<br>.358 | 28.50<br>23.80<br>19.00    | 17.30<br>12.80<br>9.10 |
| M85049/2-28C | 40                   | 2.2500-16 UN                | .250-20 UNC                 | MS3420-28A<br>MS3420-20A<br>MS3420-16A | 1.250<br>.937<br>.748  | .815<br>.512<br>.368 | 31.75<br>23.80<br>19.00    | 20.70<br>13.00<br>9.34 |
| M85049/2-32C | 44                   | 2.5000-16 UN                | .250-20 UNC                 | MS3420-32A<br>MS3420-28A               | 1.874<br>1.250         | 1.378<br>.815        | 47.60<br>31.75             | 35.00<br>20.70         |

| Inches       |                      |       |        |             |             |                       | Millimeters |        |            |            |                     |
|--------------|----------------------|-------|--------|-------------|-------------|-----------------------|-------------|--------|------------|------------|---------------------|
| Part Number  | Used with Shell Size | B     |        | E<br>± .016 | F<br>± .008 | G<br>+ .020<br>− .000 | B           |        | E<br>± 0.4 | F<br>± 0.2 | G<br>+ 0.5<br>− 0.0 |
|              |                      | Open  | Closed |             |             |                       | Open        | Closed |            |            |                     |
| M85049/2-4C  | 10SL                 | .312  | .094   | .748        | .890        | 1.272                 | 7.93        | 2.38   | 19.0       | 22.6       | 32.3                |
| M85049/2-6C  | 14S                  | .438  | .230   | .874        | 1.016       | 1.272                 | 11.12       | 5.84   | 22.2       | 25.8       | 32.3                |
| M85049/2-8C  | 16 & 16S             | .531  | .315   | 1.000       | 1.106       | 1.272                 | 13.48       | 8.00   | 25.4       | 28.1       | 32.3                |
| M85049/2-10C | 18                   | .625  | .378   | 1.122       | 1.220       | 1.390                 | 15.87       | 9.60   | 28.5       | 31.0       | 35.3                |
| M85049/2-12C | 20 & 22              | .748  | .445   | 1.311       | 1.469       | 1.406                 | 19.00       | 11.30  | 33.3       | 37.3       | 35.7                |
| M85049/2-16C | 24 &28               | .937  | .610   | 1.559       | 1.654       | 1.516                 | 23.80       | 15.50  | 39.6       | 42.0       | 38.5                |
| M85049/2-20C | 32                   | 1.250 | .921   | 1.874       | 2.126       | 1.764                 | 31.75       | 23.40  | 47.6       | 54.0       | 44.8                |
| M85049/2-24C | 36                   | 1.378 | .921   | 2.122       | 2.248       | 2.031                 | 35.00       | 23.40  | 53.9       | 57.1       | 51.6                |
| M85049/2-28C | 40                   | 1.624 | 1.177  | 2.374       | 2.500       | 2.031                 | 41.25       | 29.90  | 60.3       | 63.5       | 51.6                |
| M85049/2-32C | 44                   | 1.866 | 1.421  | 2.622       | 2.811       | 2.189                 | 47.40       | 36.10  | 66.6       | 71.4       | 55.6                |

All dimensions for reference only.

# GT – accessories

rear mounting data – receptacles, 10-405996  
sealing plugs, sealing ranges, backshell torque forces

REAR MOUNTING DATA  
MAXIMUM PANEL THICKNESS



| Size | Dimension D |      |        |      |
|------|-------------|------|--------|------|
|      | GT00/020    |      | GT030  |      |
|      | Inches      | (mm) | Inches | (mm) |
| 10SL | .146        | 3.70 | .303   | 7.70 |
| 14S  | .146        | 3.70 | .303   | 7.70 |
| 16S  | .146        | 3.70 | .303   | 7.70 |
| 16   | .145        | 3.70 | .242   | 6.15 |
| 18   | .145        | 3.70 | .303   | 7.70 |
| 20   | .145        | 3.70 | .303   | 7.70 |
| 22   | .145        | 3.70 | .303   | 7.70 |
| 24   | .207        | 5.25 | .303   | 7.70 |
| 28   | .207        | 5.25 | .343   | 8.70 |
| 32   | .241        | 6.10 | .309   | 7.85 |
| 36   | .241        | 6.10 | .309   | 7.85 |
| 40   | .237        | 6.02 | .309   | 7.85 |

GROMMET HOLE  
SEALING RANGES

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

RECOMMENDED TORQUE FORCES  
CONNECTOR BACKSHELLS

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

## SEALING PLUG 10-405996-XX

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



All dimensions for reference only.

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

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

\*\* ± .020 (in.) \*\*\* ± 0.5 (mm)

# GT Connectors

## solder contacts

Machined copper alloy contacts in a full range of sizes, with closed entry socket design in the size 12 and 16 contacts. A heavy silver-plated finish is deposited on all MS style solder contacts for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop. Gold plated contacts are also available. (See how to order, pg. 83).

### SOLDER CONTACTS\*

| Part Number                 | Pin/Socket | Mating End Size | Wire Barrel Size | Allowable Wire Size | Test Current** Amps |  |  |
|-----------------------------|------------|-----------------|------------------|---------------------|---------------------|--|--|
| 10-40569                    | Pin        | 16 Short        | 16               | 16                  | 13                  |  |  |
| 10-597107-16( ) or 10-40568 | Socket     |                 |                  | 18                  | 10                  |  |  |
|                             |            |                 |                  | 20                  | 7.5                 |  |  |
|                             |            |                 |                  | 22                  | 5                   |  |  |
| 10-40599                    | Pin        | 16 Long         | 16               | 16                  | 13                  |  |  |
| 10-597107-17( ) or 10-40598 | Socket     |                 |                  | 18                  | 10                  |  |  |
|                             |            |                 |                  | 20                  | 7.5                 |  |  |
|                             |            |                 |                  | 22                  | 5                   |  |  |
| 10-33646                    | Pin        | 12              | 12               | 12                  | 23                  |  |  |
| 10-597107-13( ) or 10-33644 | Socket     |                 |                  | 14                  | 17                  |  |  |
| 10-35531                    | Pin        | 8               | 8                | 8                   | 46                  |  |  |
| 10-35532                    | Socket     |                 |                  | 10                  | 33                  |  |  |
| 10-35529                    | Pin        | 4               | 4                | 4                   | 80                  |  |  |
| 10-35530                    | Socket     |                 |                  | 6                   | 60                  |  |  |
| 10-35527                    | Pin        | 0               | 0                | 0                   | 150                 |  |  |
| 10-35528                    | Socket     |                 |                  | 1                   | 125                 |  |  |
|                             |            |                 |                  | 2                   | 100                 |  |  |

\* Solder Wells Filled

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

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

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

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

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

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

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

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

# GT Connectors

## crimp contacts

Machined from copper alloys and silver-plated for maximum corrosion resistance, with a minimum millivolt drop and a maximum current carrying capacity, the size 16 and 12 socket contacts are of the closed entry design. Crimp contacts are available for all MS insert arrangements and are identified with an Amphenol® proprietary number. Gold plated contacts are also available. (See how to order, pg. 83).

### CRIMP CONTACTS\*

| Part Number               | Pin/Socket | Mating End Size | Wire Barrel Size | Allowable Wire Size | Required Wire Adapter Sleeve | Test Current** Amps |
|---------------------------|------------|-----------------|------------------|---------------------|------------------------------|---------------------|
| 10-40553                  | Pin        | 16 Short        | 16               | 16                  | —                            | 13                  |
| 10-597109-161 or 10-40552 | Socket     |                 |                  | 18                  | —                            | 10                  |
|                           |            |                 |                  | 20                  | —                            | 7.5                 |
|                           |            |                 |                  | 22*                 | 10-74696-6                   | 5                   |
| 10-40557                  | Pin        | 16 Long         | 16               | 16                  | —                            | 13                  |
| 10-597109-171 or 10-40556 | Socket     |                 |                  | 18                  | —                            | 10                  |
|                           |            |                 |                  | 20                  | —                            | 7.5                 |
|                           |            |                 |                  | 22*                 | 10-74696-6                   | 5                   |
| 10-40561                  | Pin        | 12              | 12               | 12                  | —                            | 23                  |
| 10-597109-131 or 10-40560 | Socket     |                 |                  | 14                  | —                            | 17                  |
| 10-40792                  | Pin        | 8               | 8                | 8                   | —                            | 46                  |
| 10-40793                  | Socket     |                 |                  | 10*                 | 10-74696-1                   | 33                  |
| 10-40564                  | Pin        | 4               | 4                | 4                   | —                            | 80                  |
| 10-40565                  | Socket     |                 |                  | 6*                  | 10-74696-2                   | 60                  |
| 10-581806                 | Pin        | 0               | 0                | 0                   | —                            | 150                 |
| 10-581808                 | Socket     |                 |                  | 2*                  | 10-74696-7                   | 125                 |

\* When using wire adapter sleeve shown

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

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

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

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

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

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

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

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

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

# MS Standard application tools

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

Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary crimp contacts in GT Series connectors are available in publication L-1295.

**TOOLING CHART**

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

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

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

† Tools used with Arbor Press 11-7364

# Amphenol® GT Connectors

## how to order, connector intermateability

### Part Number System

GT    C    00    A    36-5    P    W    (002)  
          1       2       3       4       5       6       7

#### 1. Contact Style and Insert Material

C = Crimp  
 S = Solder  
 CY = Crimp with Viton  
 SY = Solder with Viton  
 CL = Crimp with low smoke/flame retardant inserts  
 SL = Solder with low smoke/flame retardant inserts  
 No designation required for Neoprene components

#### 2. Shell Style

00 - Wall mount receptacle  
 01 - Inline receptacle  
 02 - Box mount receptacle  
 020 - Box mount receptacle with accessory threads  
 030 - Square flange receptacle - rear panel mount  
 05 - Dummy receptacle  
 06 - Straight plug  
 062 - Straight plug with deep serrated coupling nut\*  
 064 - Panel mounted plug with heavy duty coupling nut  
 065 - Straight plug with long heavy duty coupling nut  
 07 - Jam nut receptacle - rear panel mount  
 070 - Jam nut receptacle with accessory threads  
 08 - 90° angle plug  
 TB - Thru-bulkhead

#### 3. Connector Class

See pages 32–72

#### 4. Shell Size and Arrangement

See pages 2–4  
 For thermocouple arrangements, see pages 27–31

#### 5. Contact Style

P designates pin contacts  
 S designates socket contacts

#### 6. Alternate Position

W, X, Y and Z - See page 5.  
 No suffix required for normal position.

#### 7. Connector Modification\*

Omit for standard olive drab with silver plated contacts

i.e.: (G96) Black anodize  
 (014) Olive drab cadmium plate, nickel base  
 (A24) gold/nickel plated contacts  
 (025) Black zinc cobalt  
 (027) Conductive black zinc cobalt  
 (024) Green zinc cobalt

### MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS

| Connector Style        | Mateable with Style                             |
|------------------------|-------------------------------------------------|
| GT00                   | GT06 / 062 / 064 / 065 / 08                     |
| GT01                   | GT06 / 062 / 064 / 065 / 08                     |
| GT02                   | GT06 / 062 / 064 / 065 / 08                     |
| GT020                  | GT06 / 062 / 064 / 065 / 08                     |
| GT030                  | GT06 / 062 / 064 / 065 / 08                     |
| GT06 / 062 / 064 / 065 | GT00 / 01 / 02 / 020 / 03 / 030 / 05 / 070 / TB |
| GT07 / 070             | GT06 / 062 / 064 / 065 / 08                     |
| GT08                   | GT00 / 01 / 02 / 020 / 03 / 030 / 05 / 070 / TB |
| GTTB                   | GT06 / 062 / 064 / 065 / 08                     |

\* Consult Amphenol, Sidney, NY

# Special Application GT Connectors

## GT-PC Connectors for High Voltage Power Applications

The Amphenol® GT-PC connectors were developed for use in the High Voltage Power Distribution industry. Incorporating all the standard features of the popular GT series, these connectors will prevent accidental electrical shocks to the technicians. "Dead Front" pin contacts in size 0 are recessed into a socket insert, preventing inadvertent contact with a live circuit. The GT-PC series has been UL approved.

"First Mate - Last Break" features on one or more of the pins provide an additional measure of operator safety.

Termination to the conductors is accomplished with an Allen wrench or the traditional crimp or solder method. If Allen wrench is used, torque allen screws 40-50 in. lbs.

Other features of the GT-PC connector include:

- Quick positive coupling; audible, tactile and visual mating indicators
- Full range of shell styles available
- Waterproof
- No lockwiring required
- Wide selection of backshells and adapters available
- Numerous conductive and non-conductive plating options
- Heavy duty, rubber over-molded coupling nut increases gripping surface and prevents damage to the connector in severe environments
- Up to 100 amps per contact, continuous current carrying capability
- Available in insert patterns:  
22-7, 36-4, 36-5, 40-5, 40-57  
Consult Amphenol Aerospace for availability of other patterns.

For further information on Amphenol® GT-PC connectors, request Product Data Sheet #173 from your local Amphenol sales office or Amphenol, Sidney, NY.



*Amphenol® GT-PC Connectors with Features  
that Provide Increased Operator Safety*

## GT Connectors for the HMI Lighting Industry

Amphenol provides the GT connector for the HMI lighting industry. These connectors are designed for the rugged use experienced during stage shows and other entertainment events, even outside in the elements. The same GT feature of a three point bayonet coupling system which gives visual and tactile indication of full mating, and the same ruggedness to survive 2000 mating cycles are provided.

Unique features of this connector series include color-coded receptacle shells with matching backshells on the cable plugs. The colors can be matched to specific wattage cables and/or light systems. A wide selection of environment adapters designed to seal on the outside diameter of specific cable diameters can be fitted to the backshells.

Applications for these connectors include power and control of lighting trusses, and portable power and dimmer racks.

For more information on Amphenol® GT connectors for the HMI lighting industry request Product Data Sheet #174 from your local sales office or Amphenol, Sidney, NY