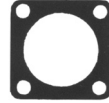
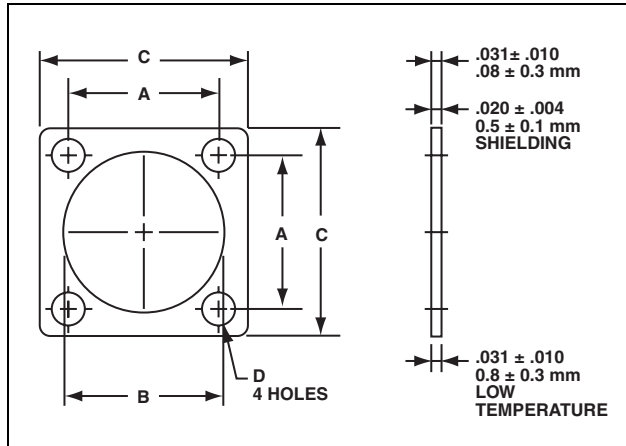


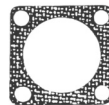
# GT Connectors – accessories

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



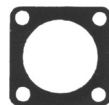
### PLAIN FLAT GASKET

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



### SHIELDING GASKET

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



### LOW TEMPERATURE GASKET

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

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

| Installation Dimensions |             |                                               |                                             |                       |             |
|-------------------------|-------------|-----------------------------------------------|---------------------------------------------|-----------------------|-------------|
| MS Shell Size           | A<br>± .010 | Front Panel Versions<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 for Front Panel Mount Gaskets |                               |                                     |                                  |
|------------------------------------------|-------------------------------|-------------------------------------|----------------------------------|
| Front Panel Plain Version                | Front Panel Shielding Version | Front Panel Low Temperature Version | Front Panel Low Smoke ZH Version |
| 10-40450-10                              | 10-40450-10S                  | 10-36675-10                         | LS-40450-10                      |
| 10-40450-14                              | 10-40450-14S                  | 10-36675-14                         | LS-40450-14                      |
| 10-40450-16                              | 10-40450-16S                  | 10-36675-16                         | LS-40450-16                      |
| 10-40450-18                              | 10-40450-18S                  | 10-36675-18                         | LS-40450-18                      |
| 10-40450-20                              | 10-40450-20S                  | 10-36675-20                         | LS-40450-20                      |
| 10-40450-22                              | 10-40450-22S                  | 10-36675-22                         | LS-40450-22                      |
| 10-40450-24                              | 10-40450-24S                  | 10-36675-24                         | LS-40450-24                      |
| 10-40450-28                              | 10-40450-28S                  | 10-36675-28                         | LS-40450-26                      |
| 10-40450-32                              | 10-40450-32S                  | 10-36675-32                         | LS-40450-32                      |
| 10-40450-36                              | 10-40450-36S                  | 10-36675-36                         | LS-40450-36                      |
| 10-40450-40                              | 10-40450-40S                  | 10-36675-40                         | LS-40450-40                      |

| Installation Dimensions |            |                                             |                                           |                     |            |
|-------------------------|------------|---------------------------------------------|-------------------------------------------|---------------------|------------|
| MS Shell Size           | A<br>± 0.2 | Front Panel Versions<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       |

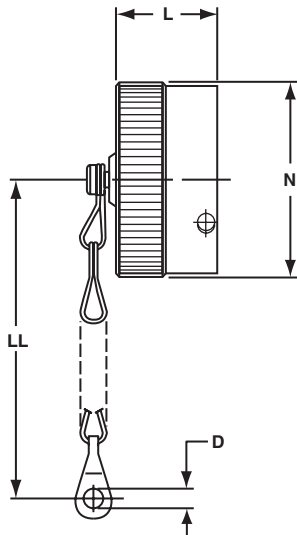
| Order Data for Rear Panel Mount Gaskets |                                 |
|-----------------------------------------|---------------------------------|
| Rear Panel Plain Version                | Rear Panel Low Smoke ZH Version |
| 10-580649-11                            | LS-580649-11                    |
| 10-580649-14                            | LS-580649-14                    |
| 10-580649-16                            | LS-580649-16                    |
| 10-580649-18                            | LS-580649-18                    |
| 10-580649-20                            | LS-580649-20                    |
| 10-580649-22                            | LS-580649-22                    |
| 10-580649-24                            | LS-580649-24                    |
| 10-580649-26                            | LS-580649-26                    |
| 10-580649-32                            | LS-580649-32                    |
| 10-580649-36                            | LS-580649-36                    |
| 10-580649-40                            | LS-580649-40                    |

# 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                  | .700      | .905      | 5.000         |
| 14         | .173                  | .700      | 1.181     | 5.000         |
| 16         | .173                  | .700      | 1.280     | 5.000         |
| 17         | .173                  | .900      | 1.280     | 5.000         |
| 18         | .173                  | .900      | 1.457     | 5.000         |
| 20         | .173                  | .900      | 1.594     | 5.000         |
| 22         | .173                  | .900      | 1.713     | 5.000         |
| 24         | .173                  | .900      | 1.850     | 5.000         |
| 28         | .220                  | .900      | 2.126     | 7.480         |
| 32         | .261                  | .900      | 2.382     | 7.480         |
| 36         | .261                  | .900      | 2.638     | 7.480         |
| 40         | .261                  | .900      | 2.874     | 7.480         |

| Finish                         | Suffix |
|--------------------------------|--------|
| Black anodize                  | -XXZ   |
| Olive drab cadmium plate       | -XX3   |
| Olive drab cadmium nickel base | -XX9   |
| Electroless nickel             | -XXG   |
| Green zinc cobalt              | -XXU   |
| Black zinc cobalt              | -XXY   |

Millimeters

| Shell Size | D<br>+ 0.5<br>- 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 11         | 4.4                 | 17.8      | 23.0      | 127           |
| 14         | 4.4                 | 17.8      | 30.0      | 127           |
| 16         | 4.4                 | 17.8      | 32.5      | 127           |
| 17         | 4.4                 | 22.9      | 32.5      | 127           |
| 18         | 4.4                 | 22.9      | 37.0      | 127           |
| 20         | 4.4                 | 22.9      | 40.5      | 127           |
| 22         | 4.4                 | 22.9      | 43.5      | 127           |
| 24         | 4.4                 | 22.9      | 47.0      | 127           |
| 28         | 5.6                 | 22.9      | 54.0      | 190           |
| 32         | 5.6                 | 22.9      | 60.5      | 190           |
| 36         | 5.6                 | 22.9      | 67.0      | 175           |
| 40         | 5.6                 | 22.9      | 73.0      | 190           |

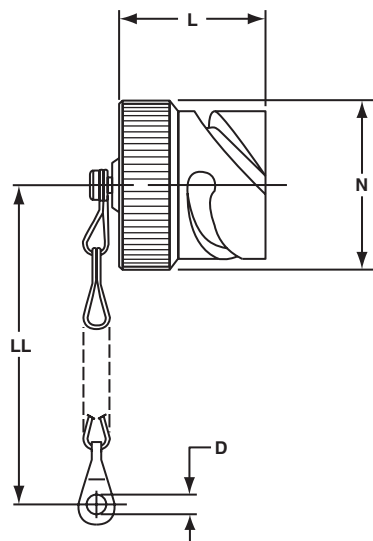
All dimensions for reference only.

# 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 plugs: 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         | .220                  | 1.260     | 1.929     | 7.480         |
| 32         | .261                  | 1.260     | 2.193     | 7.480         |
| 36         | .261                  | 1.260     | 2.437     | 7.480         |
| 40         | .261                  | 1.260     | 2.665     | 7.480         |

| Finish                         | Suffix |
|--------------------------------|--------|
| Black anodize                  | -XXZ   |
| Olive drab cadmium plate       | -XX3   |
| Olive drab cadmium nickel base | -XX9   |
| Electroless nickel             | -XXG   |
| Green zinc cobalt              | -XXU   |
| Black zinc cobalt              | -XXY   |

Millimeters

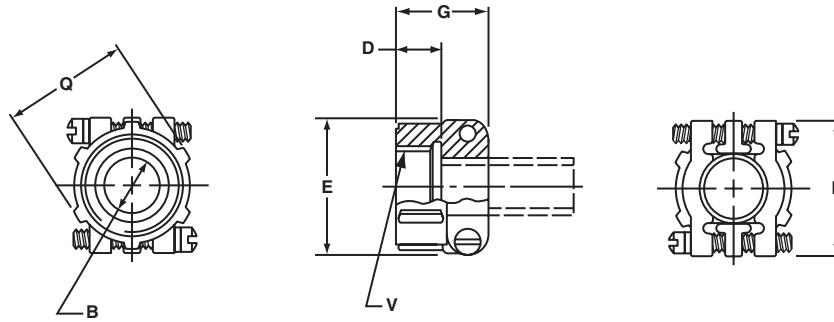
| Shell Size | D<br>+ 0.5<br>- 0.0 | L<br>Max. | N<br>Max. | LL<br>Approx. |
|------------|---------------------|-----------|-----------|---------------|
| 11         | 4.0                 | 24        | 20.5      | 127           |
| 14         | 4.0                 | 24        | 26.9      | 127           |
| 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

## MS3057-A style 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 |
|---------------|----------------------|-------------------|-------|------|-------|-------|-------------------|
| 97-3057-1004  | 10SL                 | MS3420-4          | .315  | .395 | .812  | .866  | .6250-24 UNEF     |
| 97-3057-1007  | 14S                  | MS3420-6          | .442  | .395 | .875  | 1.063 | .7500-20 UNEF     |
| 97-3057-1008  | 16 - 16S             | MS3420-8          | .568  | .395 | .945  | 1.145 | .8750-20 UNEF     |
| 97-3057-1010  | 18                   | MS3420-10         | .633  | .395 | .945  | 1.244 | 1.0000-20 UNEF    |
| 97-3057-1012  | 20 - 22              | MS3420-12         | .758  | .395 | .945  | 1.475 | 1.1875-18 UNEF    |
| 97-3057-1016  | 24 - 28              | MS3420-16         | .948  | .395 | 1.031 | 1.700 | 1.4375-18 UNEF    |
| 97-3057-1020  | 32                   | MS3420-20         | 1.256 | .460 | 1.094 | 2.055 | 1.7500-18 UNS     |
| 97-3057-1024  | 36                   | MS3420-24         | 1.380 | .520 | 1.157 | 2.265 | 2.0000-18 UNS     |
| 10-824810-028 | 40                   | MS3420-28         | 1.625 | .520 | 1.685 | 2.683 | 2.2500-16 UN      |

Millimeters

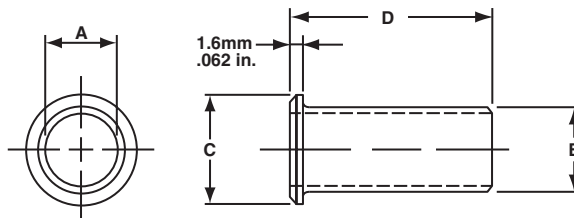
| Part Number   | Used with Shell Size | Used with Bushing | B    | D    | G    | F  |
|---------------|----------------------|-------------------|------|------|------|----|
| 97-3057-1004  | 10SL                 | MS3420-4          | 8.0  | 10.0 | 20.6 | 22 |
| 97-3057-1007  | 14S                  | MS3420-6          | 11.0 | 10.0 | 22.2 | 27 |
| 97-3057-1008  | 16 - 16S             | MS3420-8          | 14.4 | 10.0 | 24.0 | 29 |
| 97-3057-1010  | 18                   | MS3420-10         | 16.1 | 10.0 | 24.0 | 32 |
| 97-3057-1012  | 20 - 22              | MS3420-12         | 19.2 | 10.0 | 24.0 | 37 |
| 97-3057-1016  | 24 - 28              | MS3420-16         | 24.1 | 10.0 | 26.2 | 43 |
| 97-3057-1020  | 32                   | MS3420-20         | 31.9 | 11.7 | 27.8 | 52 |
| 97-3057-1024  | 36                   | MS3420-24         | 35.0 | 13.2 | 29.4 | 58 |
| 10-824810-028 | 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 |

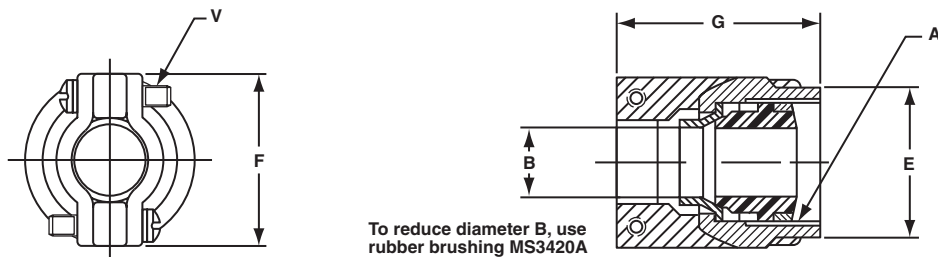
All dimensions for reference only.

# GT Connectors – accessories

## MS3057-C style (10-350349) 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 |                      | Bushing Opening Millimeters |                        |
|---------------|----------------------|-----------------------------|-----------------------------|----------------------------------------|------------------------|----------------------|-----------------------------|------------------------|
|               |                      |                             |                             |                                        | Open                   | Closed               | Open                        | Closed                 |
| 10-350349-123 | 10SL                 | .6250-24 UNEF               | 6-32 UNC                    | MS3420-4A                              | .219                   | .010                 | 5.56                        | 0.25                   |
| 10-350349-143 | 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           |
| 10-350349-163 | 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           |
| 10-350349-183 | 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           |
| 10-350349-203 | 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           |
| 10-350349-243 | 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  |
| 10-350349-323 | 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 |
| 10-350349-363 | 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 |
| 10-350349-403 | 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 |

| Part Number   | Used with Shell Size | B     |        | E<br>± .016 | F<br>± .008 | G<br>+ .020<br>- .000 |
|---------------|----------------------|-------|--------|-------------|-------------|-----------------------|
|               |                      | Open  | Closed |             |             |                       |
| 10-350349-123 | 10SL                 | .312  | .094   | .748        | .890        | 1.272                 |
| 10-350349-143 | 14S                  | .438  | .230   | .874        | 1.016       | 1.272                 |
| 10-350349-163 | 16 & 16S             | .531  | .315   | 1.000       | 1.106       | 1.272                 |
| 10-350349-183 | 18                   | .625  | .378   | 1.122       | 1.220       | 1.390                 |
| 10-350349-203 | 20 & 22              | .748  | .445   | 1.311       | 1.469       | 1.406                 |
| 10-350349-243 | 24 & 28              | .937  | .610   | 1.559       | 1.654       | 1.516                 |
| 10-350349-323 | 32                   | 1.250 | .921   | 1.874       | 2.126       | 1.764                 |
| 10-350349-363 | 36                   | 1.378 | .921   | 2.122       | 2.248       | 2.031                 |
| 10-350349-403 | 40                   | 1.624 | 1.177  | 2.374       | 2.500       | 2.031                 |

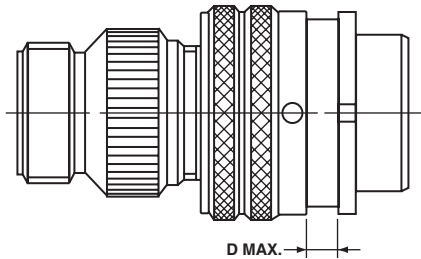
| Part Number   | Used with Shell Size | B     |        | E<br>± 0.4 | F<br>± 0.2 | G<br>+ 0.5<br>- 0.0 |
|---------------|----------------------|-------|--------|------------|------------|---------------------|
|               |                      | Open  | Closed |            |            |                     |
| 10-350349-123 | 10SL                 | 7.93  | 2.38   | 19.0       | 22.6       | 32.3                |
| 10-350349-143 | 14S                  | 11.12 | 5.84   | 22.2       | 25.8       | 32.3                |
| 10-350349-163 | 16 & 16S             | 13.48 | 8.00   | 25.4       | 28.1       | 32.3                |
| 10-350349-183 | 18                   | 15.87 | 9.60   | 28.5       | 31.0       | 35.3                |
| 10-350349-203 | 20 & 22              | 19.00 | 11.30  | 33.3       | 37.3       | 35.7                |
| 10-350349-243 | 24 & 28              | 23.80 | 15.50  | 39.6       | 42.0       | 38.5                |
| 10-350349-323 | 32                   | 31.75 | 23.40  | 47.6       | 54.0       | 44.8                |
| 10-350349-363 | 36                   | 35.00 | 23.40  | 53.9       | 57.1       | 51.6                |
| 10-350349-403 | 40                   | 41.25 | 29.90  | 60.3       | 63.5       | 51.6                |

All dimensions for reference only.

# GT – accessories

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

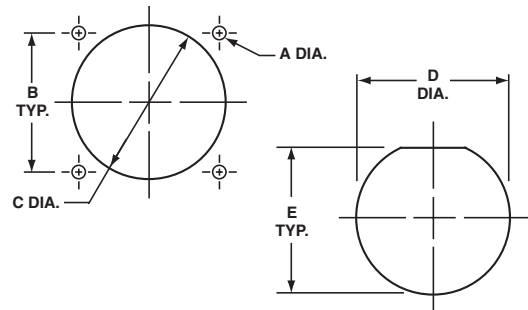
**REAR MOUNTING DATA  
MAXIMUM PANEL THICKNESS**



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

**GROMMET HOLE  
SEALING RANGES**

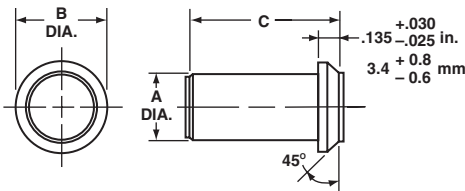
| Hole Size | Sealing Range |             |
|-----------|---------------|-------------|
|           | (mm)          | Inches      |
| 16        | 1.62 – 3.3    | .064 – .130 |
| 12        | 2.89 – 4.31   | .114 – .170 |
| 8         | 4.16 – 6.47   | .164 – .255 |
| 4         | 6.9 – 9.3     | .272 –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



**PANEL CUT-OUT DIMENSIONS**

## SEALING PLUG 10-405996-XX

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



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

| Shell Size | A Dia. Hole Size | Connector Styles |                         |                |             |             |
|------------|------------------|------------------|-------------------------|----------------|-------------|-------------|
|            |                  | 02, 020, 00, 030 | Front Mount 02, 00, 020 | Rear Mount 030 | Jam Nut 070 | Jam Nut 070 |
|            |                  | B ±.004          | C Dia.                  | C Dia.         | D Dia.      | E           |
| 10SL       | .126             | .717             | 11/16                   | 1 3/4          | 7/8         | .83         |
| 14S        | .126             | .906             | 13/16                   | 1              | 1 1/8       | 1.08        |
| 16S/16     | .126             | .969             | 15/16                   | 1 1/8          | 1 1/14      | 1.21        |
| 18         | .126             | 1.063            | 1 1/16                  | 1 1/4          | 1 3/8       | 1.32        |
| 20         | .126             | 1.157            | 1 3/16                  | 1 3/8          | 1 1/2       | 1.45        |
| 22         | .126             | 1.252            | 1 5/16                  | 1 1/2          | 1 5/8       | 1.57        |
| 24         | .146             | 1.374            | 1 7/16                  | 1 5/8          | 1 3/4       | 1.70        |
| 28         | .146             | 1.563            | 1 11/16                 | 1 7/8          | 2           | 1.95        |
| 32         | .169             | 1.752            | 1 15/16                 | 2 1/8          | 2 1/4       | 2.20        |
| 36         | .169             | 1.937            | 2 1/8                   | 2 3/8          | 2 1/2       | 2.45        |
| 40         | .169             | 2.185            | 2 3/8                   | 2 5/8          | 2 3/4       | 2.70        |

All dimensions for reference only.

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

\*\* ± .020 (in.) \*\*\* ± 0.5 (mm)

# GT Connectors

## crimp contacts and application tools

Machined from copper alloys and silver or gold 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.

### CRIMP CONTACTS

| CRIMP CONTACT DATA |               |                |               |                |              | APPLICATION TOOLS            |                              |                              |                              |                                     |                                       |
|--------------------|---------------|----------------|---------------|----------------|--------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------------|---------------------------------------|
| PART NUMBER        |               |                |               | MATING<br>SIZE | WIRE<br>WELL | Crimp Tools                  | Positioner/<br>Die Set       | Locator/<br>Color            |                              |                                     |                                       |
| PIN CONTACT        |               | SOCKET CONTACT |               |                |              |                              |                              |                              |                              |                                     |                                       |
| SILVER             | GOLD(“D”)     | SILVER         | GOLD(“D”)     |                |              |                              |                              |                              |                              |                                     |                                       |
| 10-40553           | 10-597160-15D | 10-597109-161  | 10-597109-16D | 16S            | 16-18-20     | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent      | Red                          |                              |                                     |                                       |
| 10-606014-40       | 10-597160-40D | 10-597109-401  | 10-597109-40D |                | 12-14        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-221      | 10-597160-19D | 10-597109-191  | 10-597109-19D |                | 14-16        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-291      | 10-597160-34D | 10-597109-341  | 10-597109-34D |                | 20-22        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-46       | 10-597160-46D | 10-597109-461  | 10-597109-46D |                | 20-24        |                              |                              |                              |                              |                                     |                                       |
| 10-40557           | 10-597160-16D | 10-597109-171  | 10-597109-17D | 16             | 16-18-20     |                              | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent      | Pin - Blue<br>Socket - Green |                                     |                                       |
| 10-606014-022      | 10-597160-22D | 10-597109-221  | 10-597109-22D |                | 12-14        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-171      | 10-597160-17D | 10-597109-141  | 10-597109-14D |                | 14-16        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-311      | 10-597160-33D | 10-597109-331  | 10-597109-33D |                | 20-22        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-361      | 10-597160-36D | 10-597109-361  | 10-597109-36D |                | 20-24        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-121      | 10-597160-12D | 10-597109-131  | 10-597109-13D | 12             | 12-14        |                              |                              | Daniels AF8 or<br>Equivalent | TH29-1 or<br>Equivalent      | Green                               |                                       |
| 10-606014-231      | 10-597160-23D | 10-597109-231  | 10-597109-23D |                | 8-10         |                              |                              |                              |                              |                                     |                                       |
| 10-606014-251      | 10-597160-26D | 10-597109-261  | 10-597109-26D |                | 10-12        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-271      | 10-597160-27D | 10-597109-271  | 10-597109-27D |                | 14-16-18     |                              |                              |                              |                              |                                     |                                       |
| 10-606014-261      | 10-597160-24D | 10-597109-241  | 10-597109-24D |                | 18-20        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-201      | 10-597160-20D | 10-597109-201  | 10-597109-20D |                | 20-22        |                              |                              |                              |                              |                                     |                                       |
| 10-40792           | 10-597160-8D  | 10-40793       | 10-597109-8D  | 8              | 8            | Pico 400BHD                  |                              |                              | Pico 414DA-8N                | Pico<br>Pin - 4025<br>Socket - 4026 |                                       |
| 10-606014-41       | 10-597160-41D | 10-597109-411  | 10-597109-41D |                | 6            |                              |                              |                              |                              |                                     |                                       |
| 10-606014-321      | 10-597160-28D | 10-606015-321  | 10-597109-28D |                | 10-12        |                              |                              |                              |                              |                                     |                                       |
| 10-606014-381      | 10-597160-38D | 10-597109-381  | 10-597109-38D |                | 12-14        |                              |                              |                              |                              |                                     |                                       |
| 10-40564           | 10-597160-4D  | 10-40565       | 10-597109-4D  | 4              | 4            |                              |                              |                              | Pico 400BHD                  | Pico 414DA-4N                       | Pico 4043                             |
| 10-606014-58       | 10-597160-58D | 10-597109-581  | 10-597109-58D |                | 6            |                              |                              |                              |                              |                                     |                                       |
| 10-606014-331      | 10-597160-35D | 10-597109-351  | 10-597109-35D |                | 8            |                              |                              |                              |                              |                                     |                                       |
| 10-606014-44       | 10-597160-44D | 10-606015-441  | 10-597109-44D |                | 10           |                              |                              |                              |                              |                                     |                                       |
| 10-581806-000      | 10-597160-1D  | 10-581808-000  | 10-597159-1D  | 0              | 0            |                              | Pico 400BHD                  |                              |                              | Pico 414DA-0N                       | Pico<br>Pin - 4042-1<br>Socket - 4042 |
| 10-606014-341      | 10-597160-29D | 10-597109-291  | 10-597109-29D |                | 0-2          |                              |                              |                              |                              |                                     |                                       |
| 10-606014-351      | 10-597160-30D | 10-606015-351  | 10-597109-30D |                | 4            |                              |                              |                              |                              |                                     |                                       |
| 10-597276-48       | 10-597276-48D | 10-606015-48   | 10-597109-48D | 2/0            | 2/0          |                              |                              | Pico 500                     |                              | Pico 514DA2/0N                      | Pico<br>Pin - 6490                    |
| 10-597276-47       | 10-597276-47D | 10-606015-47   | 10-597109-47D | 4/0            | 4/0          |                              |                              |                              |                              | Pico 514DA4/0N                      | Socket - 6491                         |

See page 87 for further contact information applicable to both crimp and solder contacts.  
Additional contact variations including thermocouple and RADSOK power contacts are available; consult Amphenol, Sidney, NY for information.



# 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. 88).

| Pin/<br>Socket | Mating End<br>Size | Wire Barrel<br>Size | Allowable<br>Wire Size | Test Current**<br>Amps |
|----------------|--------------------|---------------------|------------------------|------------------------|
| Pin            | 16 Short†          | 16                  | 16                     | 13                     |
| Socket         |                    |                     | 18                     | 10                     |
|                |                    |                     | 20                     | 7.5                    |
|                |                    |                     | 22                     | 5                      |
| Pin            | 16 Long            | 16                  | 16                     | 13                     |
| Socket         |                    |                     | 18                     | 10                     |
|                |                    |                     | 20                     | 7.5                    |
|                |                    |                     | 22                     | 5                      |
| Pin            | 12                 | 12                  | 12                     | 23                     |
| Socket         |                    |                     | 14                     | 17                     |
| Pin            | 8                  | 8                   | 8                      | 46                     |
| Socket         |                    |                     | 10                     | 33                     |
| Pin            | 4                  | 4                   | 4                      | 80                     |
| Socket         |                    |                     | 6                      | 60                     |
| Pin            | 0                  | 0                   | 0                      | 150                    |
|                |                    |                     | 1                      | 125                    |
| Socket         |                    |                     | 2                      | 100                    |

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

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

**Table I**  
**MIL-SPEC CONTACT ARRANGEMENT**  
**SERVICE RATING**

| MS<br>Service<br>Rating | Recommended<br>Operating Voltage*<br>at Sea Level |          | Effective<br>Creepage<br>Distance<br>Nom. | Mechanical<br>Spacing<br>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<br>Service<br>Rating | Nominal<br>Distance |          | Standard Sea<br>Level Conditions            |                             | Pressure Altitude †<br>50,000 Feet          |                             | Pressure Altitude †<br>70,000 Feet          |                             |
|-------------------------|---------------------|----------|---------------------------------------------|-----------------------------|---------------------------------------------|-----------------------------|---------------------------------------------|-----------------------------|
|                         | Airspace            | Creepage | Minimum<br>Flashover<br>Voltage<br>AC (RMS) | Test<br>Voltage<br>AC (RMS) | Minimum<br>Flashover<br>Voltage<br>AC (RMS) | Test<br>Voltage<br>AC (RMS) | Minimum<br>Flashover<br>Voltage<br>AC (RMS) | Test<br>Voltage<br>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.