Amphenol®

# ACA-B and GT Series

Reverse Bayonet Coupling Connectors

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Amphenol Industrial is a Certified ISO 9001 Manufacturer

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# Amphenol® ACA-B Connectors
## with reverse bayonet coupling

**Features of the Amphenol® ACA-B Reverse Bayonet Coupling Connectors with SAE AS50151 insert patterns:**

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

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

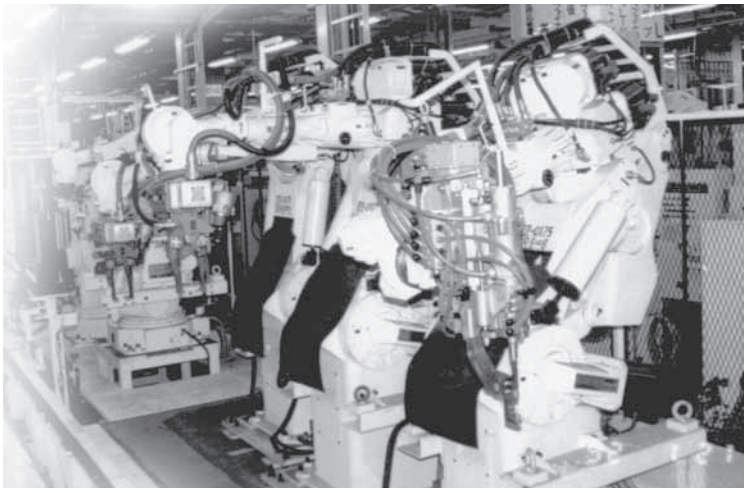
RoHS 2011/65/EU

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

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

ACA-B is manufactured in accordance with SAE AS50151 and VG95234. The insulators are made of high quality polychloroprene material and can withstand temperatures of -55 to +125 degrees C. The rugged shell is made from aluminum alloy and plated with a variety of finishes to meet any application. Contacts are machined from copper alloy or brass and can be plated with gold or silver.

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

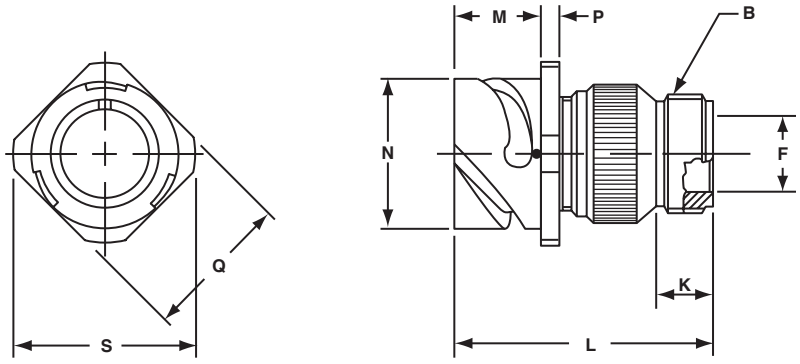


# ACA-B Connector Classes

# ACA 3101F-B

## inline receptacle

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




**Inches**

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

**Millimeters**

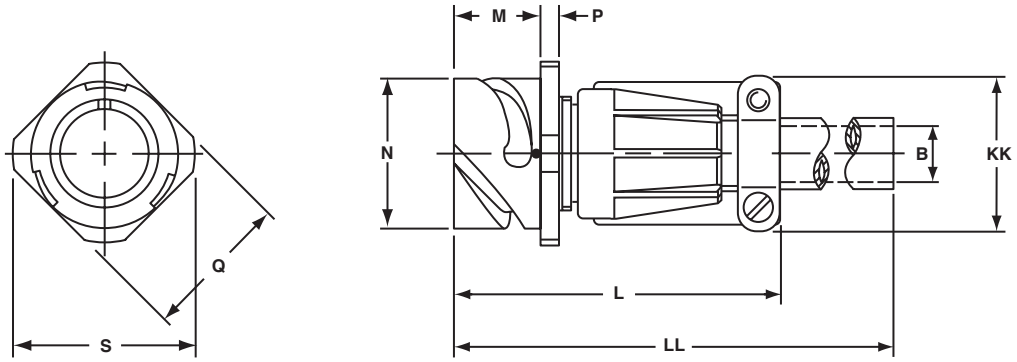
| Shell Size | F Min. | K Min. | L Max. | M +0.4 −0.0 | N +0.00 −0.15 | P ± 0.2 | Q ± 0.2 | S Max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 |
| 14S | 13.2 | 9.5 | 50 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 |
| 16S | 16.2 | 9.5 | 50 | 18.2 | 27.4 | 3.2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

All dimensions for reference only.

# ACA 3101E-B

## inline receptacle

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




**Inches**

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

**Millimeters**

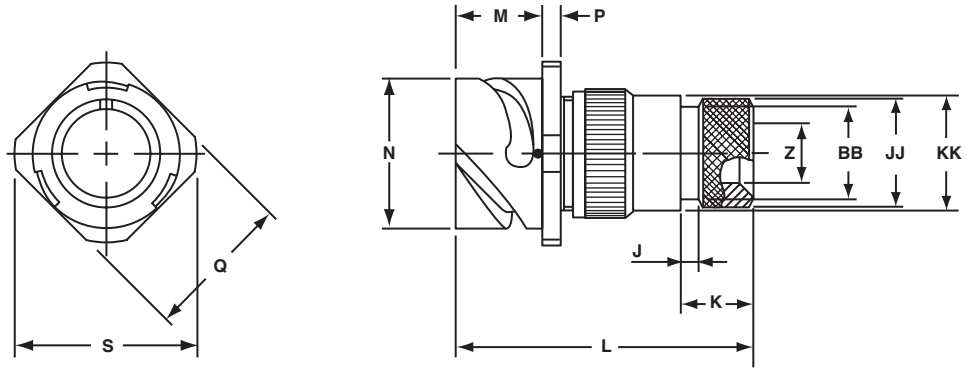
| Shell Size | B Max. | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | Q Max. | S Max. | KK Max. | LL Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 6.5 | 60 | 18.2 | 18.2 | 2.8 | 22.5 | 25.2 | 22.7 | 120 |
| 14S | 9.0 | 62 | 18.2 | 24.6 | 3.2 | 29.5 | 29.8 | 27.5 | 120 |
| 16S | 11.0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

All dimensions for reference only.

# ACA 3101G-B

## inline receptacle

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




**Inches**

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

**Millimeters**

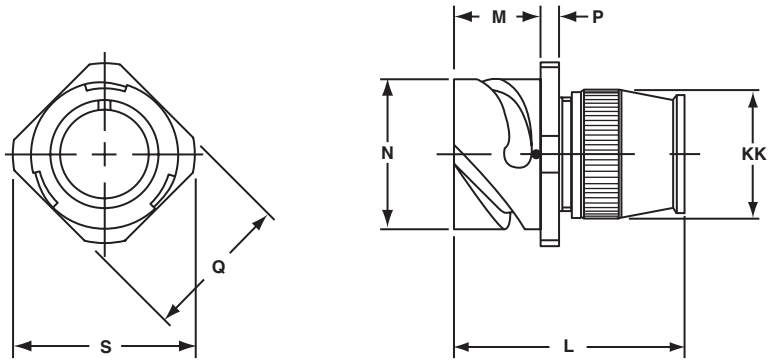
| Shell Size | J ± 0.2 | K ± 0.5 | L Max. | M + 0.4 − 0.0 | N + 0.00 − 0.15 | P ± 0.2 | Q Max. | S Max. | Z Min. | BB Max. | JJ ± 0.2 | KK ± 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 3.5 | 11.7 | 50 | 18.2 | 18.2 | 2.8 | 22.5 | 25.2 | 7.7 | 13.3 | 15.5 | 17.0 |
| 14S | 3.5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

All dimensions for reference only.

# ACA 3101R-B

## inline receptacle

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




**Inches**

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

**Millimeters**

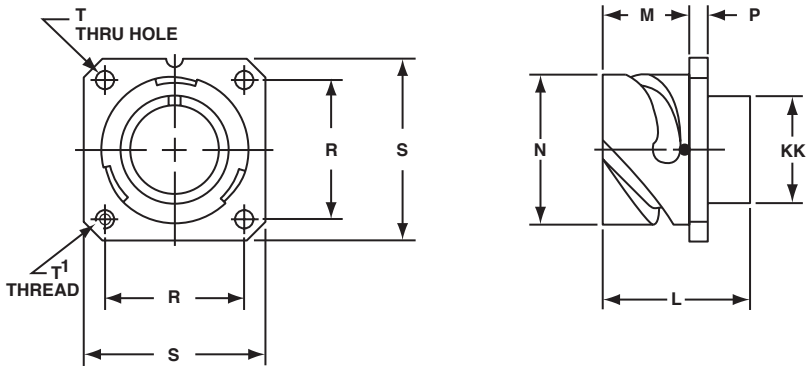
| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | Q Max. | S Max. | KK Max. |
|---|---|---|---|---|---|---|---|
| 10SL | 48.0 | 18.2 | 18.2 | 2.8 | 22.5 | 25.2 | 20.0 |
| 14S | 48.0 | 18.2 | 24.6 | 3.2 | 29.5 | 29.8 | 24.0 |
| 16S | 48.0 | 18.2 | 27.4 | 3.2 | 31.5 | 32.3 | 26.0 |
|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

All dimensions for reference only.

# ACA 3102E-B

## box mount receptacle for front panel mounting

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




**Inches**

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

**Millimeters**

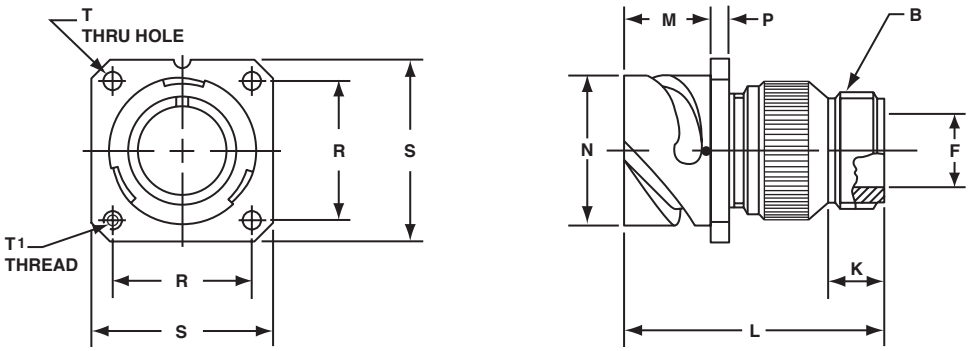
| Shell Size | L ± 0.3 | M + 0.4 − 0.0 | N + 0.00 − 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 − 0.0 | $T^1$ Metric Thread | KK Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 27.6 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | M4 | 15.9 |
| 14S | 27.6 | 18.2 | 24.6 | 3.2 | 23.0 | 30.0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

All dimensions for reference only.

# ACA 3103F-B

## wall mounting receptacle for rear panel mounting

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




**Inches**

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

**Millimeters**

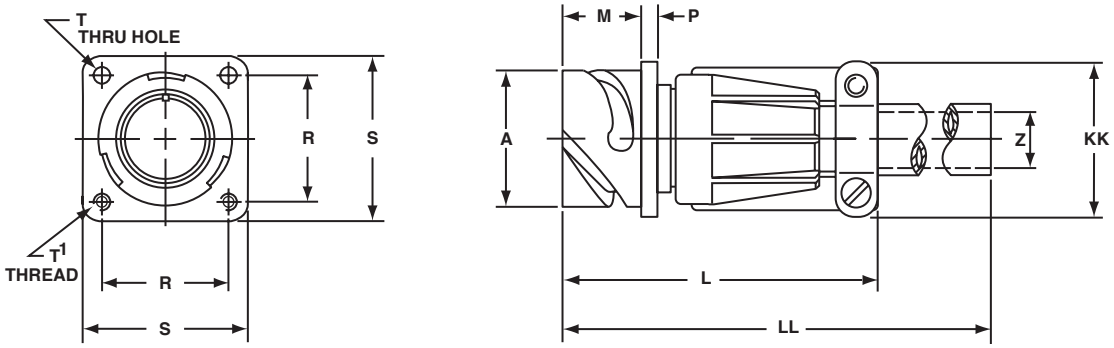
| Shell Size | F Min. | K Min. | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 – 0.0 | T[1] Metric Thread |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | M4 |
| 14S | 13.2 | 9.5 | 50 | 18.2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

All dimensions for reference only.

# ACA 3103E-B

## wall mount receptacle for rear panel mounting

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




**Inches**

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

**Millimeters**

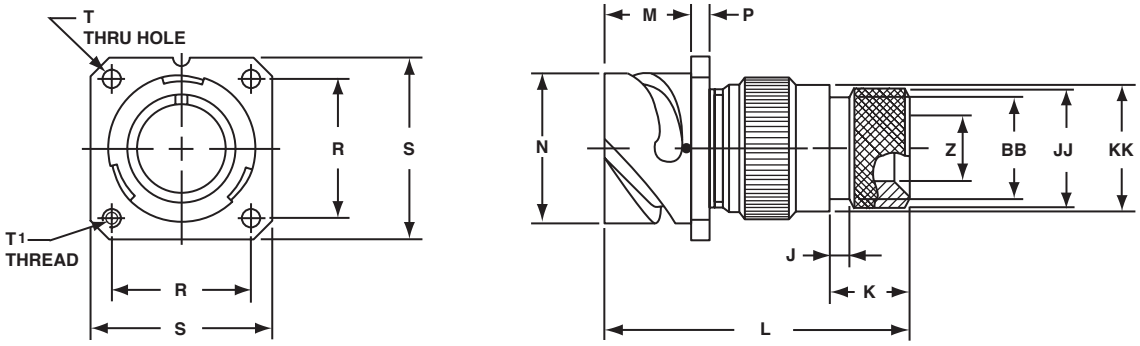
| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 – 0.0 | $T^1$ Metric Thread | Z Max. | KK Max. | LL Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 60 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | M4 | 6.5 | 22.7 | 120 |
| 14S |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

All dimensions for reference only.

# ACA 3103G-B

## wall mount receptacle for rear panel mounting

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




**Inches**

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

**Millimeters**

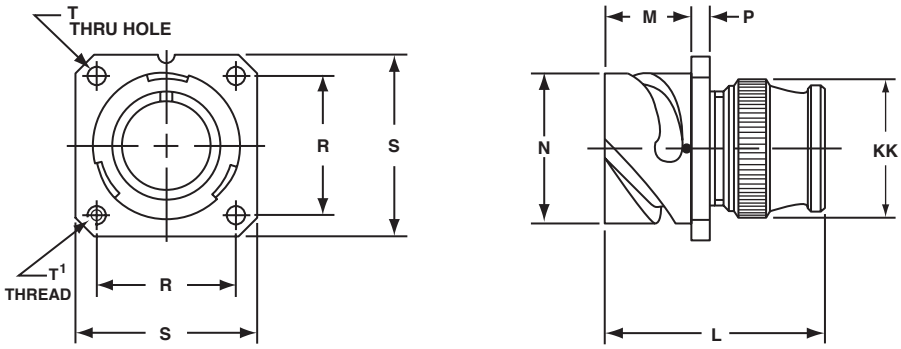
| Shell Size | J ± 0.2 | K ± 0.5 | L Max. | M + 0.4 − 0.0 | N + 0.00 − 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 − 0.0 | T[1] Metric Thread | Z Min. | BB Max. | JJ ± 0.2 | KK ± 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 3.5 | 11.7 | 50 | 18.2 | 18.2 | 2.8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

All dimensions for reference only.

# ACA 3103R-B

## wall mount receptacle for rear panel mounting

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




**Inches**

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

**Millimeters**

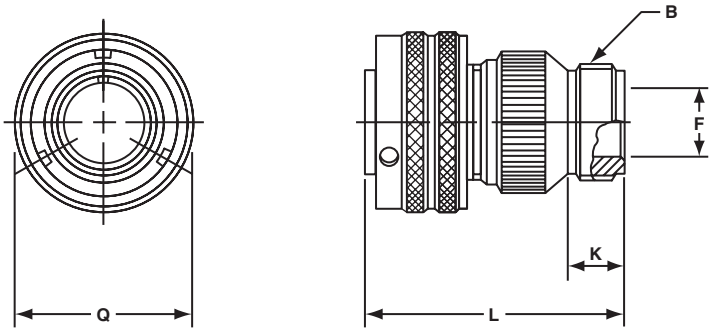
| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T Thru Hole + 0.1 – 0.0 | $T^1$ Metric Thread | KK Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 48.0 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | M4 | 20.0 |
| 14S | 48.0 | 18.2 | 24.6 | 3.2 | 23.0 | 30.0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

All dimensions for reference only.

# ACA 3106F-B

## straight plug

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




**Inches**

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

**Millimeters**

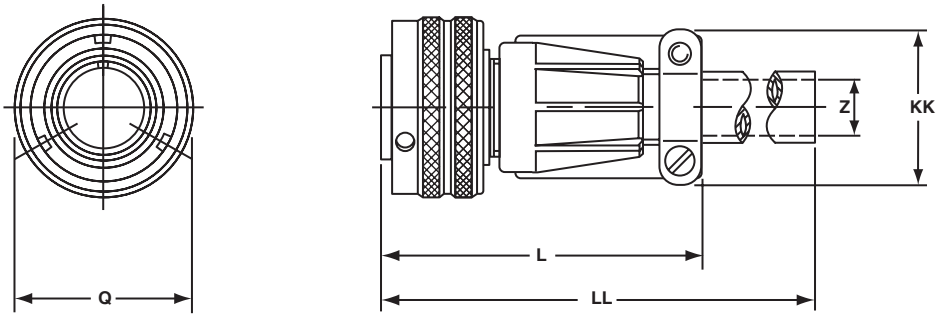
| Shell Size | F Min. | K Min. | L Max. | Q Max. |
|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 22.8 |
| 14S | 13.2 | 9.5 | 50 | 29.2 |
| 16S | 16.2 | 9.5 | 50 | 32.0 |
| 16 | 16.2 | 9.5 | 60 | 32.0 |
| 18 | 19.2 | 9.5 | 60 | 36.5 |
| 20 | 22.0 | 9.5 | 60 | 39.9 |
| 22 | 24.5 | 9.5 | 60 | 43.1 |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

All dimensions for reference only.

# ACA 3106E-B

## straight plug

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




**Inches**

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

**Millimeters**

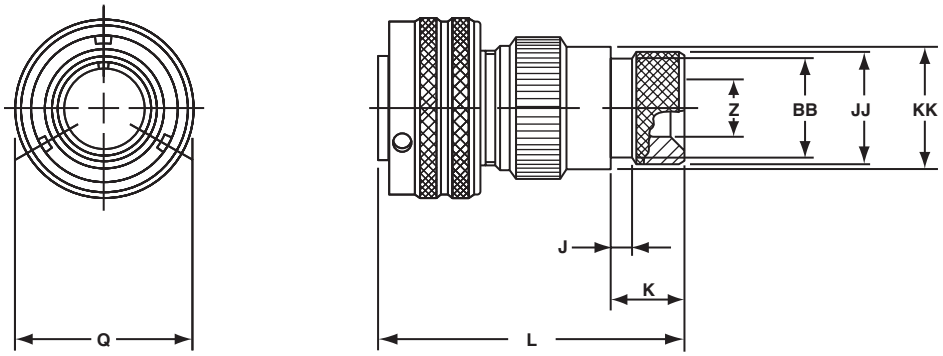
| Shell Size | L Max. | Q Max. | Z Max. | KK Max. | LL Max. |
|---|---|---|---|---|---|
| 10SL | 55 | 22.8 | 6.5 | 22.7 | 115 |
| 14S | 60 | 29.2 | 9.0 | 27.5 | 115 |
| 16S | 60 | 32.0 | 11.0 | 30.0 | 115 |
| 16 | 70 | 32.0 | 11.0 | 30.0 | 120 |
| 18 | 70 | 36.5 | 14.2 | 32.2 | 120 |
| 20 | 75 | 39.9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

All dimensions for reference only.

# ACA 3106G-B

## straight plug

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




**Inches**

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

**Millimeters**

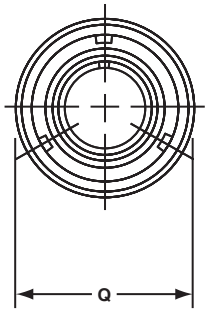
| Shell Size | J ± 0.2 | K ± 0.5 | L Max. | Q Max. | Z Min. | BB Max. | JJ ± 0.2 | KK ± 0.2 |
|---|---|---|---|---|---|---|---|---|
| 10SL | 3.5 | 11.7 | 50 | 22.8 | 7.7 | 13.3 | 15.5 | 17.0 |
| 14S | 3.5 | 11.7 | 50 | 29.2 | 10.6 | 17.0 | 19.1 | 20.1 |
| 16S | 3.5 | 11.7 | 50 | 32.0 | 13.5 | 21.9 |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

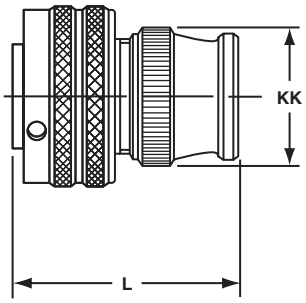
All dimensions for reference only.

# ACA 3106R-B

## straight plug

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




**Inches**

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

**Millimeters**

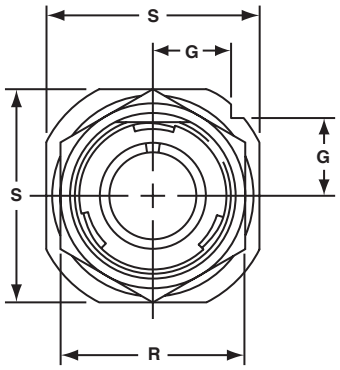
| Shell Size | L Max. | Q Max. | KK Max. |
|---|---|---|---|
| 10SL | 36.0 | 22.8 | 20.0 |
| 14S | 36.5 | 29.2 | 24.0 |
| 16S | 36.5 | 32.0 | 26.0 |
| 16 | 49.0 | 32.0 | 26.0 |
| 18 | 49.0 | 36.5 | 29.5 |
| 20 | 50.0 | 39.9 | 33.0 |
| 22 | 50.0 | 43.1 | 36.0 |
| 24 | 51.0 | 46.6 | 40.0 |
| 28 | 51.0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

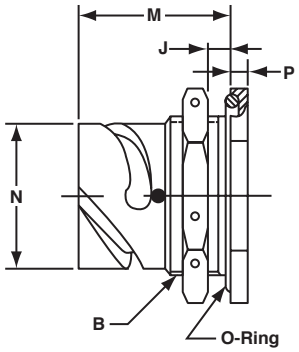
All dimensions for reference only.

# ACA 3107A-B

## jam nut receptacle

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




**Inches**

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

**Millimeters**

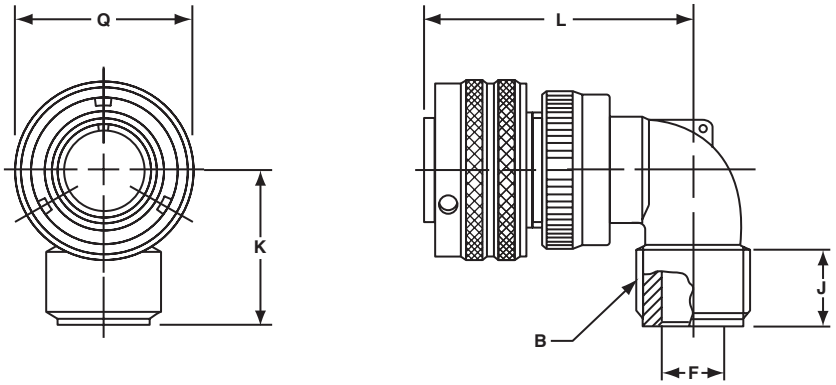
| Shell Size | G ± 0.3 | J Wall Thickness Min. | J Wall Thickness Max. | M ± 0.3 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.4 | S ± 0.3 |
|---|---|---|---|---|---|---|---|---|
| 10SL | 11.2 | 2.4 | 5.2 | 24.5 | 18.2 | 4.0 | 27 | 31.8 |
| 14S | 14.6 | 2.4 | 7.5 | 26.8 | 24.6 | 4.8 | 33 | 41.3 |
| 16S | 15.7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

All dimensions for reference only.

# ACA 3108F-B

## 90° angle plug

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




**Inches**

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

**Millimeters**

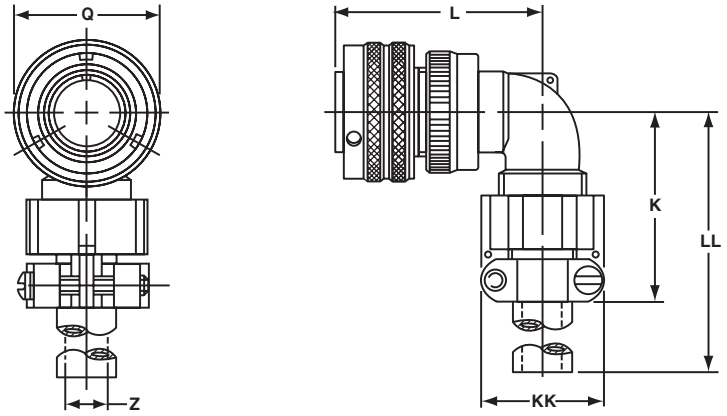
| Shell Size | F Max. | J Min. | K Max. | L Max. | Q Max. |
|---|---|---|---|---|---|
| 10SL | 8.5 | 9.4 | 30 | 45 | 22.8 |
| 14S | 11.7 | 9.4 | 30 | 47 | 29.2 |
| 16S | 14.9 | 9.4 | 30 | 48 | 33.0 |
| 16 | 14.9 | 9.4 | 30 | 57 | 33.0 |
| 18 | 17.4 | 9.4 | 35 | 58 | 36.5 |
| 20 | 20.5 | 9.4 | 35 | 61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

All dimensions for reference only.

# ACA 3108E-B

## 90° angle plug

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




**Inches**

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

**Millimeters**

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

All dimensions for reference only.

# Amphenol® GT Connectors
## with reverse bayonet coupling

Designed originally for use by the military, the heavy duty GT connector has become widely used in commercial, geophysical, aerospace, ground support and shipboard applications. It is the preferred connector for mass transit.

Variety of Shell Styles are Available

**Wall Mount Receptacle**

**Inline Receptacle**

**Straight Plug**

**Jam Nut Receptacle**

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.

**Amphenol® GT reverse bayonet coupling connectors with SAE AS50151 insert patterns features:**

- Quick positive coupling
- Audible, tactile and visual indication of full coupling
- Waterproof – IP67 rated
- 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°C to +125°C
  With Viton** inserts: –50°C to +200°C
  With low smoke/flame retardant inserts: –55°C to +125°C
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Numerous 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
- UL recognized
- Up to 50% more ampacity with the use of RADSOK® technology (see page 54)

Amphenol's special offerings of GT Series connectors (see end of catalog) include: GT Amphe-Power® Connectors with RADSOK® technology, the GTC-M Series with metal clip inserts and GT-PC Series for high voltage power applications. There is also information on other Amphenol Industrial Products for the Rail Industry at the end of this catalog.

For further information on your individual application requirements, contact:

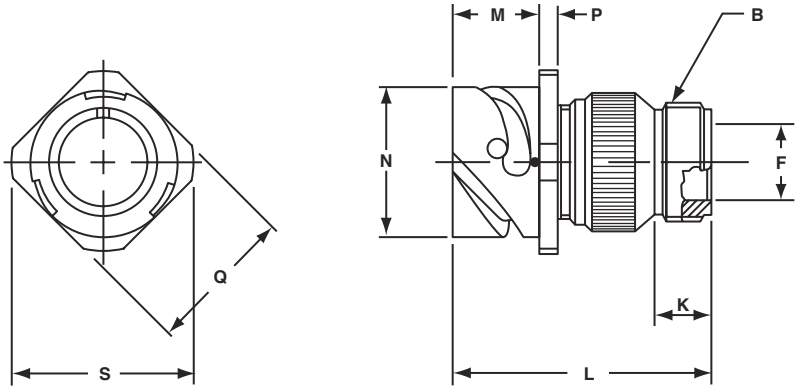
Amphenol Corporation
Amphenol Industrial Operations
191 Delaware Avenue
Sidney, New York 13838-1395
Phone: 888-364-9011 Fax: 520-397-7169
www.amphenol-industrial.com

**For availability of Viton inserts consult Amphenol, Sidney, NY.
Viton is a registered trademark of Dupont/Dow Corning.

# GT Connector Classes

# GT01A
# inline receptacle

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




**Inches**

| Shell Size | B Thread Class 2A | F Min. | K Min. | L Max. | M +.016 −.000 | N +.000 −.006 | P ±.008 | Q ±.008 | S Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | .6250-24 UNEF | .409 | .374 | 1.969 | .717 | .717 | .110 | .811 | .992 |
| 14S | .7500-20 UNEF | .520 | .374 | 1.969 | .717 | .969 | .126 | 1.000 | 1.173 |
| 16S | .8750-20 UNEF | .638 | .374 | 1.969 | .717 | 1.079 | .126 | 1.126 | 1.272 |
| 16 | .8750-20 UNEF | .638 | .374 | 2.362 | .846 | 1.079 | .126 | 1.126 | 1.272 |
| 18 | 1.0000-20 UNEF | .756 | .374 | 2.362 | .907 | 1.213 | .157 | 1.248 | 1.370 |
| 20 | 1.1875-18 UNEF | .867 | .374 | 2.362 | .907 | 1.346 | .157 | 1.374 | 1.488 |
| 22 | 1.1875-18 UNEF | .965 | .374 | 2.362 | .907 | 1.472 | .157 | 1.500 | 1.618 |
| 24 | 1.4375-18 UNEF | 1.094 | .374 | 2.560 | .907 | 1.610 | .157 | 1.626 | 1.756 |
| 28 | 1.4375-18 UNEF | 1.228 | .374 | 2.560 | .947 | 1.839 | .157 | 1.874 | 2.004 |
| 32 | 1.7500-18 UNS | 1.488 | .433 | 2.560 | .947 | 2.102 | .157 | 2.126 | 2.248 |
| 36 | 2.0000-18 UNS | 1.780 | .465 | 3.150 | .947 | 2.346 | .157 | 2.386 | 2.504 |
| 40 | 2.2500-16 UN | 2.016 | .465 | 3.150 | .947 | 2.579 | .157 | 2.618 | 2.756 |

**Millimeters**

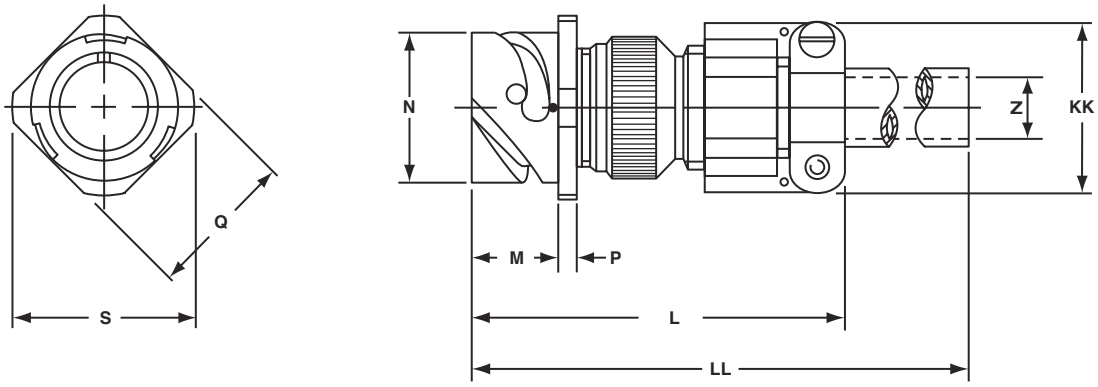
| Shell Size | F Min. | K Min. | L Max. | M +0.4 −0.0 | N +0.00 −0.15 | P ±0.2 | Q ±0.2 | S Max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 |
| 14S | 13.2 | 9.5 | 50 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 |
| 16S | 16.2 | 9.5 | 50 | 18.2 | 27.4 | 3.2 | 28.6 | 32.3 |
| 16 | 16.2 | 9.5 | 60 | 21.5 | 27.4 | 3.2 | 28.6 | 32.3 |
| 18 | 19.2 | 9.5 | 60 | 23.0 | 30.8 | 4.0 | 31.7 | 34.8 |
| 20 | 22.0 | 9.5 | 60 | 23.0 | 34.2 | 4.0 | 34.9 | 37.8 |
| 22 | 24.5 | 9.5 | 60 | 23.0 | 37.4 | 4.0 | 38.1 | 41.1 |
| 24 | 27.8 | 9.5 | 65 | 23.0 | 40.9 | 4.0 | 41.3 | 44.6 |
| 28 | 31.2 | 9.5 | 65 | 24.1 | 46.7 | 4.0 | 47.6 | 50.9 |
| 32 | 37.8 | 11.0 | 65 | 24.1 | 53.4 | 4.0 | 54.0 | 57.1 |
| 36 | 45.2 | 11.8 | 80 | 24.1 | 59.6 | 4.0 | 60.6 | 63.6 |
| 40 | 51.2 | 11.8 | 80 | 24.1 | 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 + .016 – .000 | N + .000 – .006 | P ± .008 | Q ± .008 | S Max. | Z Nominal | KK Max. | LL Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 2.362 | .717 | .717 | .110 | .811 | .992 | .220 | .894 | 4.720 |
| 14S | 2.440 | .717 | .969 | .126 | 1.000 | 1.173 | .312 | 1.083 | 4.720 |
| 16S | 2.756 | .717 | 1.079 | .126 | 1.126 | 1.272 | .437 | 1.181 | 4.720 |
| 16 | 2.756 | .846 | 1.079 | .126 | 1.126 | 1.272 | .437 | 1.181 | 4.921 |
| 18 | 3.031 | .907 | 1.213 | .157 | 1.248 | 1.370 | .562 | 1.300 | 4.921 |
| 20 | 3.031 | .907 | 1.346 | .157 | 1.374 | 1.488 | .625 | 1.476 | 4.921 |
| 22 | 3.031 | .907 | 1.472 | .157 | 1.500 | 1.618 | .625 | 1.476 | 4.921 |
| 24 | 3.346 | .907 | 1.610 | .157 | 1.626 | 1.756 | .750 | 1.705 | 4.921 |
| 28 | 3.346 | .947 | 1.839 | .157 | 1.874 | 2.004 | .750 | 1.705 | 4.921 |
| 32 | 3.346 | .947 | 2.102 | .157 | 2.126 | 2.248 | .937 | 2.035 | 4.921 |
| 36 | 4.134 | .947 | 2.346 | .157 | 2.386 | 2.504 | 1.250 | 2.283 | 5.315 |
| 40 | 5.118 | .947 | 2.579 | .157 | 2.618 | 2.756 | 1.375 | 2.579 | 5.709 |

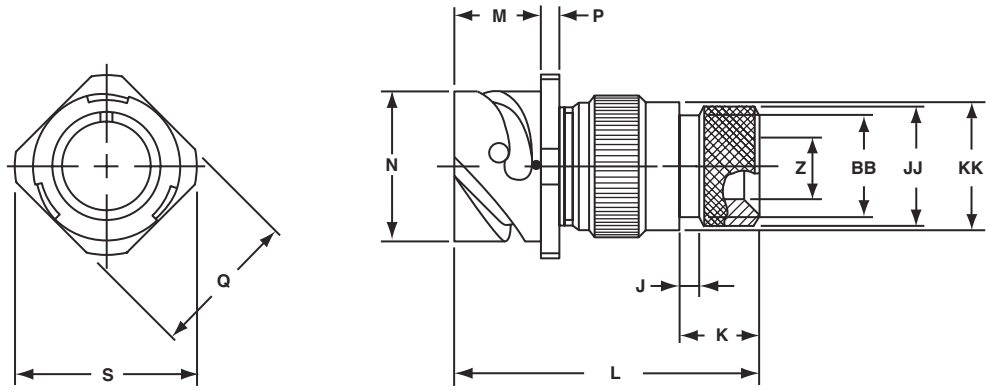
**Millimeters**

| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | Q ± 0.2 | S Max. | Z Nominal | KK Max. | LL Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 60 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 | 5.58 | 22.7 | 120 |
| 14S | 62 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 | 7.92 | 27.5 | 120 |
| 16S | 70 | 18.2 | 27.4 | 3.2 | 28.6 | 32.3 | 11.09 | 30.0 | 120 |
| 16 | 70 | 21.5 | 27.4 | 3.2 | 28.6 | 32.3 | 11.09 | 30.0 | 125 |
| 18 | 77 | 23.0 | 30.8 | 4.0 | 31.7 | 34.8 | 14.27 | 33.0 | 125 |
| 20 | 77 | 23.0 | 34.2 | 4.0 | 34.9 | 37.8 | 15.87 | 37.5 | 125 |
| 22 | 77 | 23.0 | 37.4 | 4.0 | 38.1 | 41.1 | 15.87 | 37.5 | 125 |
| 24 | 85 | 23.0 | 40.9 | 4.0 | 41.3 | 44.6 | 19.05 | 43.3 | 125 |
| 28 | 85 | 24.1 | 46.7 | 4.0 | 47.6 | 50.9 | 19.05 | 43.3 | 125 |
| 32 | 85 | 24.1 | 53.4 | 4.0 | 54.0 | 57.1 | 23.79 | 51.7 | 125 |
| 36 | 105 | 24.1 | 59.6 | 4.0 | 60.6 | 63.6 | 31.75 | 58.0 | 135 |
| 40 | 130 | 24.1 | 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 ± .008 | K ± .020 | L Max. | M + .016 – .000 | N + .000 – .006 | P ± .008 | Q ± .008 | S Max. | Z Min. | BB Max. | JJ ± .008 | KK ± .008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | .138 | .461 | 1.969 | .717 | .717 | .110 | .811 | .992 | .303 | .524 | .610 | .669 |
| 14S | .138 | .461 | 1.969 | .717 | .969 | .126 | 1.000 | 1.173 | .417 | .669 | .752 | .791 |
| 16S | .138 | .461 | 1.969 | .717 | 1.079 | .126 | 1.126 | 1.272 | .531 | .862 | .941 | .925 |
| 16 | .138 | .453 | 2.362 | .846 | 1.079 | .126 | 1.126 | 1.272 | .531 | .862 | .941 | .925 |
| 18 | .138 | .453 | 2.362 | .907 | 1.213 | .157 | 1.248 | 1.370 | .575 | .862 | .941 | 1.043 |
| 20 | .138 | .500 | 2.559 | .907 | 1.346 | .157 | 1.374 | 1.488 | .736 | 1.031 | 1.165 | 1.189 |
| 22 | .138 | .500 | 2.559 | .907 | 1.472 | .157 | 1.500 | 1.618 | .819 | 1.031 | 1.165 | 1.323 |
| 24 | .138 | .500 | 2.559 | .907 | 1.610 | .157 | 1.626 | 1.756 | .969 | 1.358 | 1.488 | 1.421 |
| 28 | .138 | .500 | 2.559 | .947 | 1.839 | .157 | 1.874 | 2.004 | 1.063 | 1.358 | 1.488 | 1.630 |
| 32 | .138 | .598 | 2.756 | .947 | 2.102 | .157 | 2.126 | 2.248 | 1.311 | 1.717 | 1.882 | 1.913 |
| 36 | .138 | .598 | 3.150 | .947 | 2.346 | .157 | 2.386 | 2.504 | 1.516 | 1.717 | 1.882 | 2.157 |
| 40 | .138 | .610 | 3.150 | .947 | 2.579 | 1.57 | 2.618 | 2.756 | 1.898 | 2.071 | 2.276 | 2.402 |

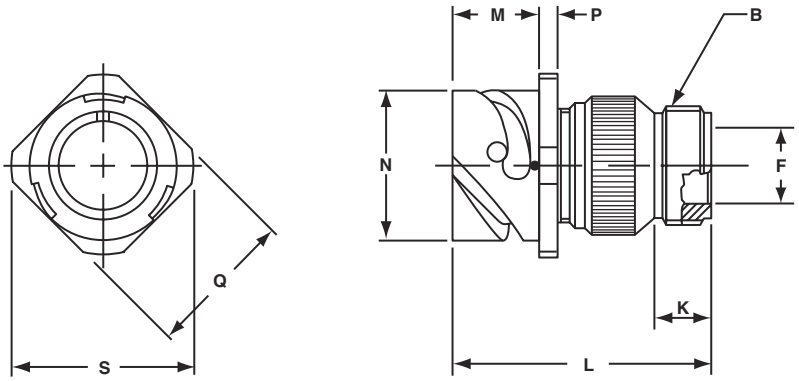
**Millimeters**

| Shell Size | J ± 0.2 | K ± 0.5 | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | Q ± 0.2 | S Max. | Z Min. | B Max. | JJ ± 0.2 | KK ± 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 3.5 | 11.7 | 50 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 | 7.7 | 13.3 | 15.5 | 17.0 |
| 14S | 3.5 | 11.7 | 50 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 | 10.6 | 17.0 | 19.1 | 20.1 |
| 16S | 3.5 | 11.7 | 50 | 18.2 | 27.4 | 3.2 | 28.6 | 32.3 | 13.5 | 21.9 | 23.9 | 23.5 |
| 16 | 3.5 | 11.5 | 60 | 21.5 | 27.4 | 3.2 | 28.6 | 32.3 | 13.5 | 21.9 | 23.9 | 23.5 |
| 18 | 3.5 | 11.5 | 60 | 23.0 | 30.8 | 4.0 | 31.7 | 34.8 | 14.6 | 21.9 | 23.9 | 26.5 |
| 20 | 3.5 | 12.7 | 65 | 23.0 | 34.2 | 4.0 | 34.9 | 37.8 | 18.7 | 26.2 | 29.6 | 30.2 |
| 22 | 3.5 | 12.7 | 65 | 23.0 | 37.4 | 4.0 | 38.1 | 41.1 | 20.8 | 26.2 | 29.6 | 33.6 |
| 24 | 3.5 | 12.7 | 65 | 23.0 | 40.9 | 4.0 | 41.3 | 44.6 | 24.6 | 34.5 | 37.8 | 36.1 |
| 28 | 3.5 | 12.7 | 65 | 24.1 | 46.7 | 4.0 | 47.6 | 50.9 | 27.0 | 34.5 | 37.8 | 41.4 |
| 32 | 3.5 | 15.2 | 70 | 24.1 | 53.4 | 4.0 | 54.0 | 57.1 | 33.3 | 43.6 | 47.8 | 48.6 |
| 36 | 3.5 | 15.2 | 80 | 24.1 | 59.6 | 4.0 | 60.6 | 63.6 | 38.5 | 43.6 | 47.8 | 54.8 |
| 40 | 3.5 | 15.5 | 80 | 24.1 | 65.5 | 4.0 | 66.5 | 70.0 | 48.2 | 52.6 | 57.8 | 61.0 |

All dimensions for reference only.

# GT01R
# inline receptacle

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




**Inches**

| Shell Size | B Thread Class 2A | F Min. | K Min. | L Max. | M +.016 −.000 | N +.000 −.006 | P ±.008 | Q ±.008 | S Max. |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | .6250-24 UNEF | .409 | .374 | 1.969 | .717 | .717 | .110 | .811 | .992 |
| 14S | .7500-20 UNEF | .520 | .374 | 1.969 | .717 | .969 | .126 | 1.000 | 1.173 |
| 16S | .8750-20 UNEF | .638 | .374 | 1.969 | .717 | 1.079 | .126 | 1.126 | 1.272 |
| 16 | .8750-20 UNEF | .638 | .374 | 2.362 | .846 | 1.079 | .126 | 1.126 | 1.272 |
| 18 | 1.0000-20 UNEF | .756 | .374 | 2.362 | .907 | 1.213 | .157 | 1.248 | 1.370 |
| 20 | 1.1875-18 UNEF | .867 | .374 | 2.362 | .907 | 1.346 | .157 | 1.374 | 1.488 |
| 22 | 1.1875-18 UNEF | .965 | .374 | 2.362 | .907 | 1.472 | .157 | 1.500 | 1.618 |
| 24 | 1.4375-18 UNEF | 1.094 | .374 | 2.560 | .907 | 1.610 | .157 | 1.626 | 1.756 |
| 28 | 1.4375-18 UNEF | 1.228 | .374 | 2.560 | .947 | 1.839 | .157 | 1.874 | 2.004 |
| 32 | 1.7500-18 UNS | 1.488 | .433 | 2.560 | .947 | 2.102 | .157 | 2.126 | 2.248 |
| 36 | 2.0000-18 UNS | 1.780 | .465 | 3.150 | .947 | 2.346 | .157 | 2.386 | 2.504 |
| 40 | 2.2500-16 UN | 2.016 | .465 | 3.150 | .947 | 2.579 | .157 | 2.618 | 2.756 |

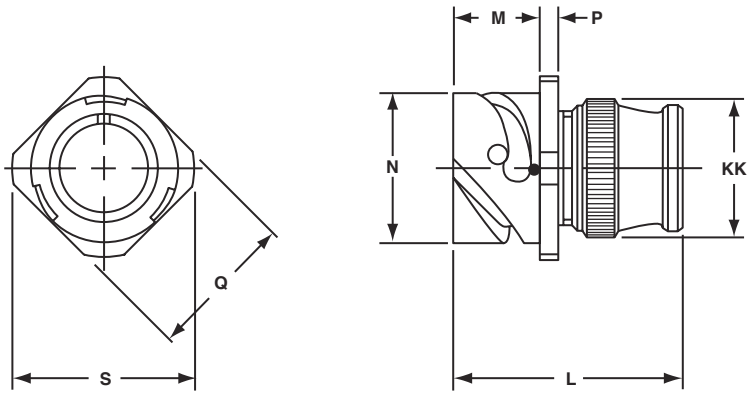
**Millimeters**

| Shell Size | F Min. | K Min. | L Max. | M +0.4 −0.0 | N +0.00 −0.15 | P ±0.2 | Q ±0.2 | S Max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 |
| 14S | 13.2 | 9.5 | 50 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 |
| 16S | 16.2 | 9.5 | 50 | 18.2 | 27.4 | 3.2 | 28.6 | 32.3 |
| 16 | 16.2 | 9.5 | 60 | 21.5 | 27.4 | 3.2 | 28.6 | 32.3 |
| 18 | 19.2 | 9.5 | 60 | 23.0 | 30.8 | 4.0 | 31.7 | 34.8 |
| 20 | 22.0 | 9.5 | 60 | 23.0 | 34.2 | 4.0 | 34.9 | 37.8 |
| 22 | 24.5 | 9.5 | 60 | 23.0 | 37.4 | 4.0 | 38.1 | 41.1 |
| 24 | 27.8 | 9.5 | 65 | 23.0 | 40.9 | 4.0 | 41.3 | 44.6 |
| 28 | 31.2 | 9.5 | 65 | 24.1 | 46.7 | 4.0 | 47.6 | 50.9 |
| 32 | 37.8 | 11.0 | 65 | 24.1 | 53.4 | 4.0 | 54.0 | 57.1 |
| 36 | 45.2 | 11.8 | 80 | 24.1 | 59.6 | 4.0 | 60.6 | 63.6 |
| 40 | 51.2 | 11.8 | 80 | 24.1 | 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 + .016 – .000 | N + .000 – .006 | P ± .008 | Q ± .008 | S Max. | KK Max. |
|---|---|---|---|---|---|---|---|
| 10SL | 1.890 | .717 | .717 | .110 | .811 | .992 | .787 |
| 14S | 1.890 | .717 | .969 | .126 | 1.000 | 1.173 | .945 |
| 16S | 1.890 | .717 | 1.079 | .126 | 1.126 | 1.272 | 1.024 |
| 16 | 2.205 | .846 | 1.079 | .126 | 1.126 | 1.272 | 1.024 |
| 18 | 2.244 | .907 | 1.213 | .157 | 1.248 | 1.370 | 1.161 |
| 20 | 2.244 | .907 | 1.346 | .157 | 1.374 | 1.488 | 1.299 |
| 22 | 2.244 | .907 | 1.472 | .157 | 1.500 | 1.618 | 1.417 |
| 24 | 2.244 | .907 | 1.610 | .157 | 1.626 | 1.756 | 1.575 |
| 28 | 2.244 | .947 | 1.839 | .157 | 1.874 | 2.004 | 1.811 |
| 32 | 2.362 | .947 | 2.102 | .157 | 2.126 | 2.248 | 2.028 |
| 36 | 2.362 | .947 | 2.346 | .157 | 2.386 | 2.504 | 2.283 |
| 40 | 2.362 | .947 | 2.579 | .157 | 2.618 | 2.756 | 2.539 |

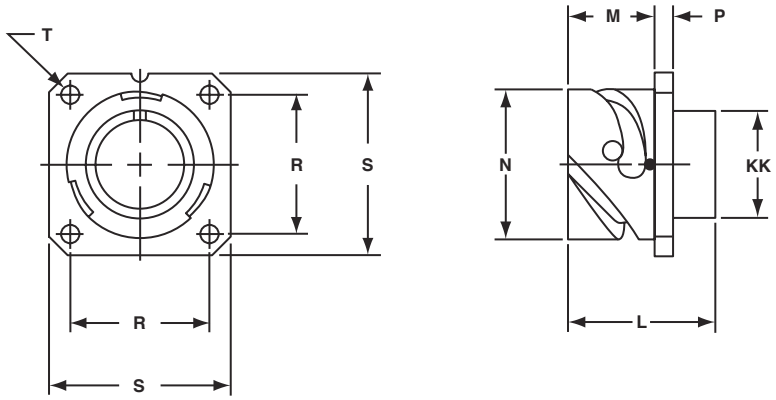
**Millimeters**

| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | Q ± 0.2 | S Max. | KK Max. |
|---|---|---|---|---|---|---|---|
| 10SL | 48.0 | 18.2 | 18.2 | 2.8 | 20.6 | 25.2 | 20.0 |
| 14S | 48.0 | 18.2 | 24.6 | 3.2 | 25.4 | 29.8 | 24.0 |
| 16S | 48.0 | 18.2 | 27.4 | 3.2 | 28.6 | 32.3 | 26.0 |
| 16 | 56.0 | 21.5 | 27.4 | 3.2 | 28.6 | 32.3 | 26.0 |
| 18 | 57.0 | 23.0 | 30.8 | 4.0 | 31.7 | 34.8 | 29.5 |
| 20 | 57.0 | 23.0 | 34.2 | 4.0 | 34.9 | 37.8 | 33.0 |
| 22 | 57.0 | 23.0 | 37.4 | 4.0 | 38.1 | 41.1 | 36.0 |
| 24 | 57.0 | 23.0 | 40.9 | 4.0 | 41.3 | 44.6 | 40.0 |
| 28 | 57.0 | 24.1 | 46.7 | 4.0 | 47.6 | 50.9 | 46.0 |
| 32 | 60.0 | 24.1 | 53.4 | 4.0 | 54.0 | 57.1 | 51.5 |
| 36 | 60.0 | 24.1 | 59.6 | 4.0 | 60.6 | 63.6 | 58.0 |
| 40 | 60.0 | 24.1 | 65.5 | 4.0 | 66.5 | 70.0 | 64.5 |

All dimensions for reference only.

# GT02R
## box mount receptacle for front panel mounting

**GT02R**
- **Environment proof when mounted with proper panel sealing gasket** **(see page 80)**
- **For rear mounting information see** **page 83**




**Inches**

| Shell Size | L ± .012 | M + .016 − .000 | N + .000 − .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 − .000 | KK Max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | 1.087 | .717 | .717 | .110 | .717 | 1.000 | .126 | .626 |
| 14S | 1.087 | .717 | .969 | .126 | .906 | 1.181 | .126 | .756 |
| 16S | 1.087 | .717 | 1.079 | .126 | .969 | 1.280 | .126 | .882 |
| 16 | 1.331 | .846 | 1.079 | .126 | .969 | 1.280 | .126 | .882 |
| 18 | 1.331 | .907 | 1.213 | .157 | 1.063 | 1.378 | .126 | 1.008 |
| 20 | 1.331 | .907 | 1.346 | .157 | 1.157 | 1.496 | .126 | 1.142 |
| 22 | 1.331 | .907 | 1.472 | .157 | 1.252 | 1.614 | .126 | 1.268 |
| 24 | 1.331 | .907 | 1.610 | .157 | 1.374 | 1.752 | .146 | 1.390 |
| 28 | 1.406 | .947 | 1.839 | .157 | 1.563 | 2.000 | .146 | 1.630 |
| 32 | 1.469 | .947 | 2.102 | .157 | 1.752 | 2.244 | .169 | 1.882 |
| 36 | 1.469 | .947 | 2.346 | .157 | 1.937 | 2.500 | .169 | 2.063 |
| 40 | 1.469 | .947 | 2.579 | .157 | 2.185 | 2.752 | .169 | 2.323 |

| Shell Size | L ± 0.3 | M + 0.4 − 0.0 | N + 0.00 − 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 − 0.0 | KK Max. |
|---|---|---|---|---|---|---|---|---|
| 10SL | 27.6 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | 15.9 |
| 14S | 27.6 | 18.2 | 24.6 | 3.2 | 23.0 | 30.0 | 3.2 | 19.2 |
| 16S | 27.6 | 18.2 | 27.4 | 3.2 | 24.6 | 32.5 | 3.2 | 22.4 |
| 16 | 33.8 | 21.5 | 27.4 | 3.2 | 24.6 | 32.5 | 3.2 | 22.4 |
| 18 | 33.8 | 23.0 | 30.8 | 4.0 | 27.0 | 35.0 | 3.2 | 25.6 |
| 20 | 33.8 | 23.0 | 34.2 | 4.0 | 29.4 | 38.0 | 3.2 | 29.0 |
| 22 | 33.8 | 23.0 | 37.4 | 4.0 | 31.8 | 41.0 | 3.2 | 32.2 |
| 24 | 33.8 | 23.0 | 40.9 | 4.0 | 34.9 | 44.5 | 3.7 | 35.3 |
| 28 | 35.7 | 24.1 | 46.7 | 4.0 | 39.7 | 50.8 | 3.7 | 41.4 |
| 32 | 37.3 | 24.1 | 53.4 | 4.0 | 44.5 | 57.0 | 4.3 | 47.8 |
| 36 | 37.3 | 24.1 | 59.6 | 4.0 | 49.2 | 63.5 | 4.3 | 52.4 |
| 40 | 37.3 | 24.1 | 65.5 | 4.0 | 55.5 | 69.9 | 4.3 | 59.0 |

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 80)**

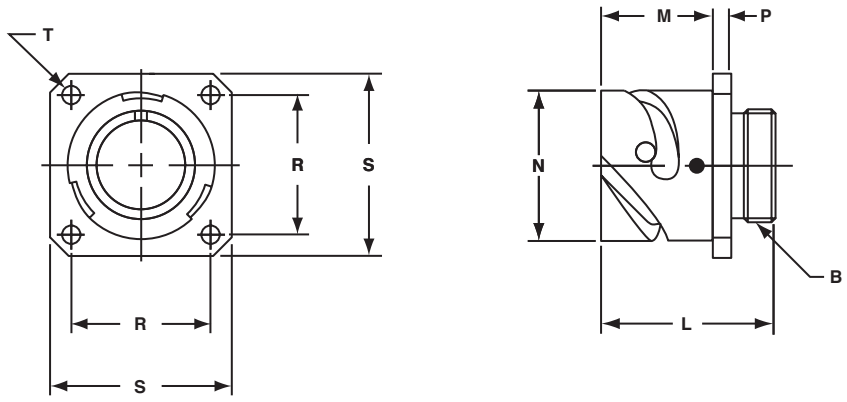



**Table 1: Inches**

| Shell Size | B Thread Class 2A | L ±.012 | M +.016 −.000 | N +.000 −.006 | P ±.008 | R ±.004 | S ±.012 | T +.004 −.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 | 1.406 | .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 |

**Table 2: Millimeters**

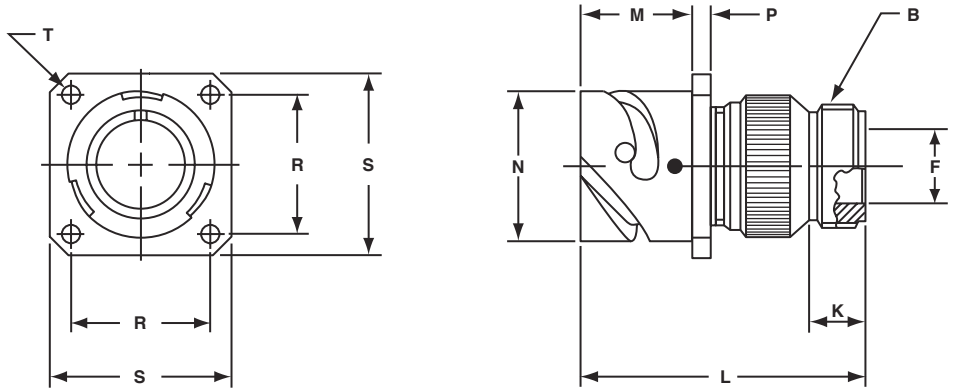
| Shell Size | L ±0.3 | M +0.4 −0.0 | N +0.00 −0.15 | P ±0.2 | R ±0.1 | S ±0.3 | T +0.1 −0.0 |
|---|---|---|---|---|---|---|---|
| 10SL | 27.6 | 18.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 |
| 14S | 27.6 | 18.2 | 24.6 | 3.2 | 23.0 | 30.0 | 3.2 |
| 16S | 27.6 | 18.2 | 27.4 | 3.2 | 24.6 | 32.5 | 3.2 |
| 16 | 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 Thread Class 2A | F Min. | K Min. | L Max. | M + .016 – .000 | N + .000 – .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 – .000 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | .6250-24 UNEF | .409 | .374 | 1.969 | .717 | .717 | .110 | .717 | 1.000 | .126 |
| 14S | .7500-20 UNEF | .520 | .374 | 1.969 | .717 | .969 | .126 | .906 | 1.181 | .126 |
| 16S | .8750-20 UNEF | .638 | .374 | 1.969 | .717 | 1.079 | .126 | .969 | 1.280 | .126 |
| 16 | .8750-20 UNEF | .638 | .374 | 2.362 | .846 | 1.079 | .126 | .969 | 1.280 | .126 |
| 18 | 1.0000-20 UNEF | .756 | .374 | 2.362 | .907 | 1.213 | .157 | 1.063 | 1.378 | .126 |
| 20 | 1.1875-18 UNEF | .867 | .374 | 2.362 | .907 | 1.346 | .157 | 1.157 | 1.496 | .126 |
| 22 | 1.1875-18 UNEF | .965 | .374 | 2.362 | .907 | 1.472 | .157 | 1.252 | 1.614 | .126 |
| 24 | 1.4375-18 UNEF | 1.094 | .374 | 2.560 | .907 | 1.610 | .157 | 1.374 | 1.752 | .146 |
| 28 | 1.4375-18 UNEF | 1.228 | .374 | 2.560 | .947 | 1.839 | .157 | 1.563 | 2.000 | .146 |
| 32 | 1.7500-18 UNS | 1.488 | .433 | 2.560 | .947 | 2.102 | .157 | 1.752 | 2.244 | .169 |
| 36 | 2.0000-18 UNS | 1.780 | .465 | 3.150 | .947 | 2.346 | .157 | 1.937 | 2.500 | .169 |
| 40 | 2.2500-16 UN | 2.016 | .465 | 3.150 | .947 | 2.579 | .157 | 2.185 | 2.752 | .169 |

**Millimeters**

| Shell Size | F Min. | K Min. | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 – 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 |

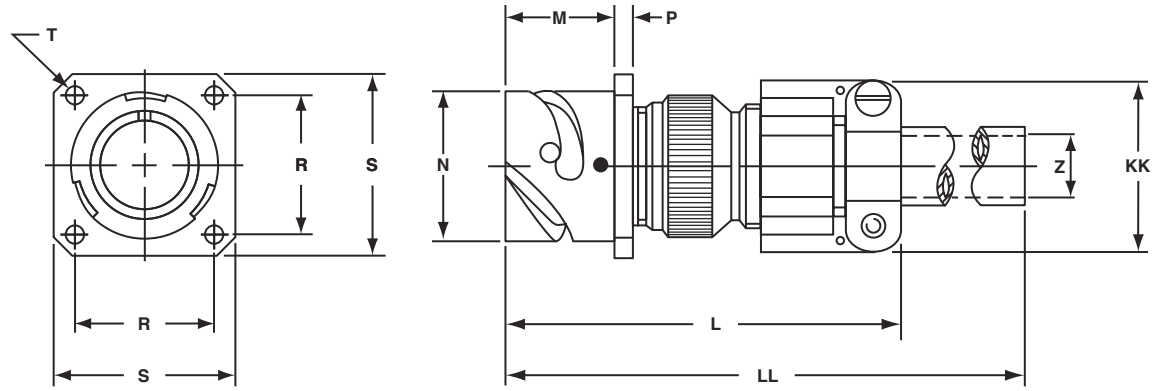
All dimensions for reference only.

# 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 + .016 – .000 | N + .000 – .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 – .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**

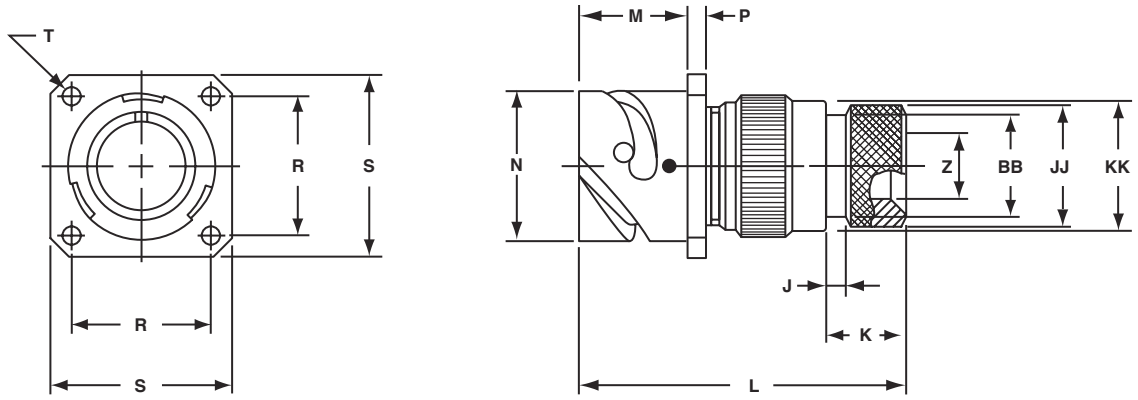
| Shell Size | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 – 0.0 | Z Nominal | KK Max. | LL Max. |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 60 | 18.20 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | 5.58 | 22.7 | 120 |
| 14S | 62 | 18.20 | 24.6 | 3.2 | 23.0 | 30.0 | 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 ± .008 | K ± .020 | L Max. | M + .016 – .000 | N + .000 – .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 – .000 | Z Min. | BB Max. | JJ ± .008 | KK ± .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**

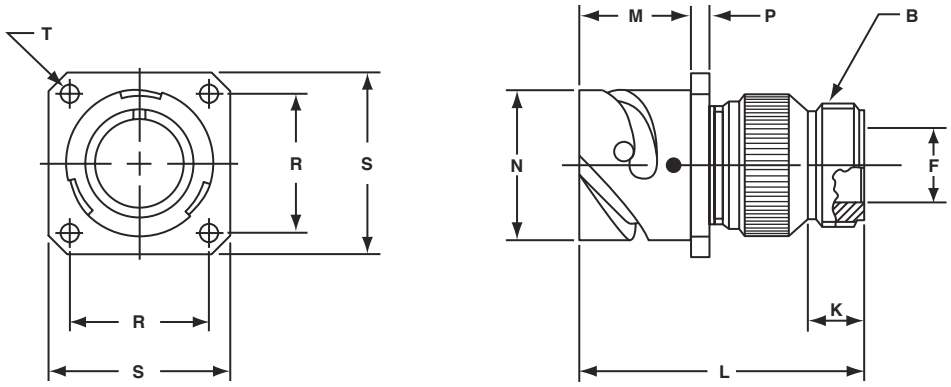
| Shell Size | J ± 0.2 | K ± 0.5 | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 – 0.0 | Z Min. | B Max. | JJ ± 0.2 | KK ± 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | 3.5 | 11.7 | 50 | 18.20 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 | 7.7 | 13.3 | 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 Thread Class 2A | F Min. | K Min. | L Max. | M + .016 – .000 | N + .000 – .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 – .000 |
|---|---|---|---|---|---|---|---|---|---|---|
| 10SL | .6250-24 UNEF | .409 | .374 | 1.969 | .717 | .717 | .110 | .717 | 1.000 | .126 |
| 14S | .7500-20 UNEF | .520 | .374 | 1.969 | .717 | .969 | .126 | .906 | 1.181 | .126 |
| 16S | .8750-20 UNEF | .638 | .374 | 1.969 | .717 | 1.079 | .126 | .969 | 1.280 | .126 |
| 16 | .8750-20 UNEF | .638 | .374 | 2.362 | .846 | 1.079 | .126 | .969 | 1.280 | .126 |
| 18 | 1.0000-20 UNEF | .756 | .374 | 2.362 | .907 | 1.213 | .157 | 1.063 | 1.378 | .126 |
| 20 | 1.1875-18 UNEF | .867 | .374 | 2.362 | .907 | 1.346 | .157 | 1.157 | 1.496 | .126 |
| 22 | 1.1875-18 UNEF | .965 | .374 | 2.362 | .907 | 1.472 | .157 | 1.252 | 1.614 | .126 |
| 24 | 1.4375-18 UNEF | 1.094 | .374 | 2.560 | .907 | 1.610 | .157 | 1.374 | 1.752 | .146 |
| 28 | 1.4375-18 UNEF | 1.228 | .374 | 2.560 | .947 | 1.839 | .157 | 1.563 | 2.000 | .146 |
| 32 | 1.7500-18 UNS | 1.488 | .433 | 2.560 | .947 | 2.102 | .157 | 1.752 | 2.244 | .169 |
| 36 | 2.0000-18 UNS | 1.780 | .465 | 3.150 | .947 | 2.346 | .157 | 1.937 | 2.500 | .169 |
| 40 | 2.2500-16 UN | 2.016 | .465 | 3.150 | .947 | 2.579 | .157 | 2.185 | 2.752 | .169 |

**Millimeters**

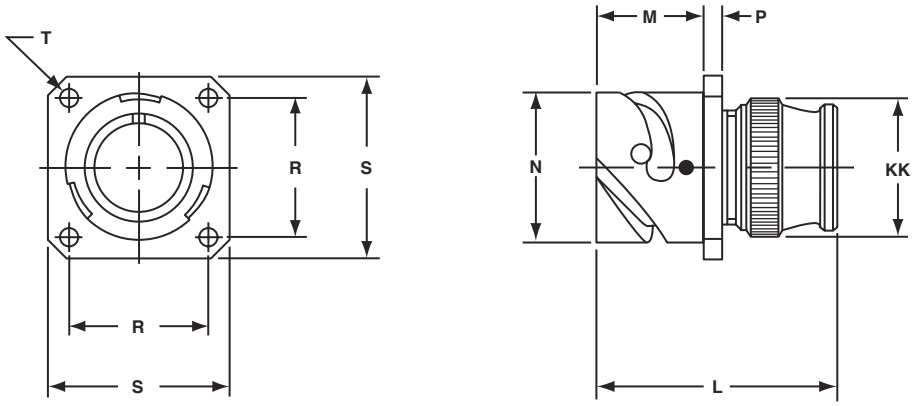
| Shell Size | F Min. | K Min. | L Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + 0.1 – 0.0 |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 18.20 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 |
| 14S | 13.2 | 9.5 | 50 | 18.20 | 24.6 | 3.2 | 23.0 | 30.0 | 3.2 |
| 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 Max. | M +.016 −.000 | N +.000 −.006 | P ±.008 | R ±.004 | S ±.012 | T +.004 −.000 | KK 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 |

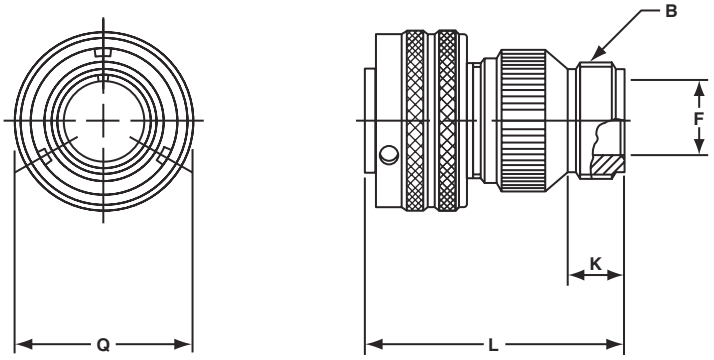
**Millimeters**

| Shell Size | L Max. | M +0.4 −0.0 | N +0.00 −0.15 | P ±0.2 | R ±0.1 | S ±0.3 | T +0.1 −0.0 | KK 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 84 and 86**
- **Non-environment**




**Inches**

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

**Millimeters**

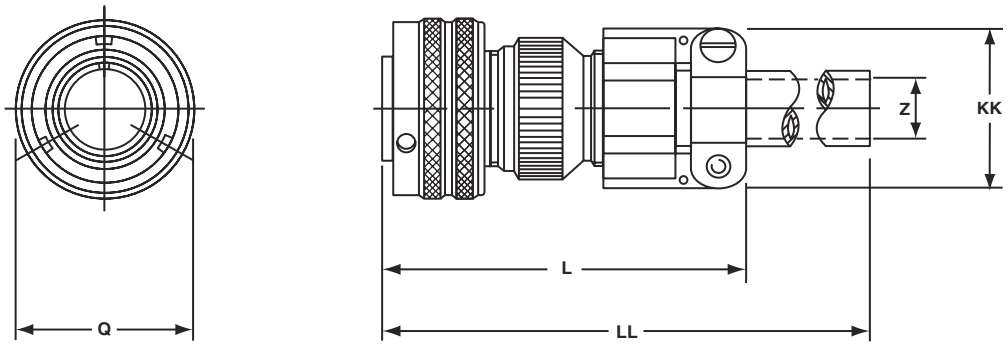
| Shell Size | F Min. | K Min. | L Max. | Q Max. |
|---|---|---|---|---|
| 10SL | 10.4 | 9.5 | 50 | 22.8 |
| 14S | 13.2 | 9.5 | 50 | 29.2 |
| 16S | 16.2 | 9.5 | 50 | 32.0 |
| 16 | 16.2 | 9.5 | 60 | 32.0 |
| 18 | 19.2 | 9.5 | 60 | 36.5 |
| 20 | 22.0 | 9.5 | 60 | 39.9 |
| 22 | 24.5 | 9.5 | 60 | 43.1 |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

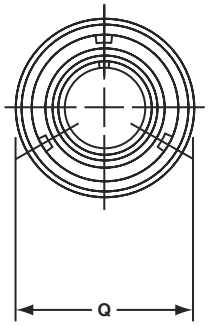
**Millimeters**

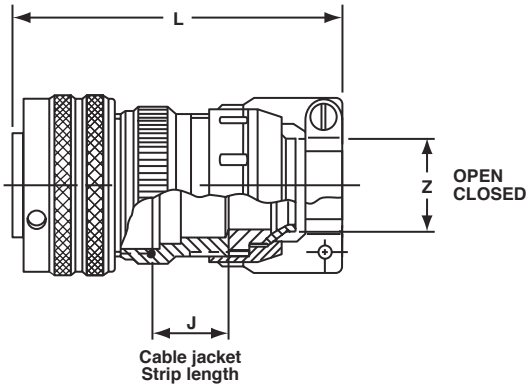
| Shell Size | L Max. | Q Max. | Z Nominal | KK Max. | LL Max. |
|---|---|---|---|---|---|
| 10SL | 55 | 22.8 | 5.58 | 22.7 | 120 |
| 14S | 60 | 29.2 | 7.92 | 27.5 | 120 |
| 16S | 70 | 32.0 | 11.09 | 30.0 | 120 |
| 16 | 70 | 32.0 | 11.09 | 30.0 | 125 |
| 18 | 75 | 36.5 | 14.27 | 33.0 | 125 |
| 20 | 75 | 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 |

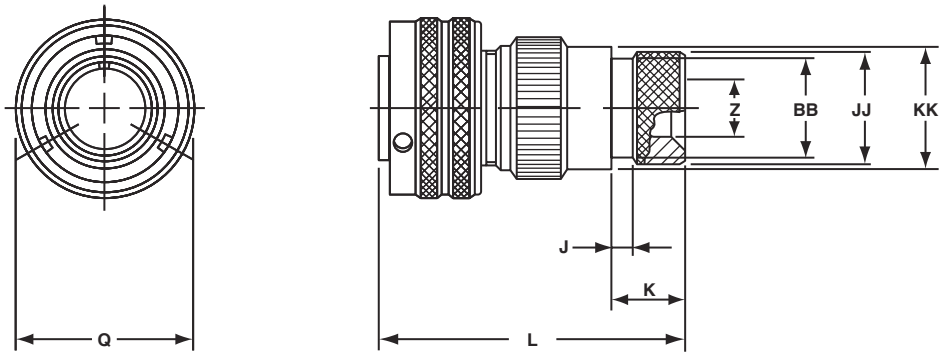
**Millimeters**

| 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.

# 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 ± .008 | K ± .020 | L Max. | Q Max. | Z Min. | BB Max. | JJ ± .008 | KK ± .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 ± 0.2 | K ± 0.5 | L Max. | Q Max. | Z Min. | BB Max. | JJ ± 0.2 | KK ± 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.

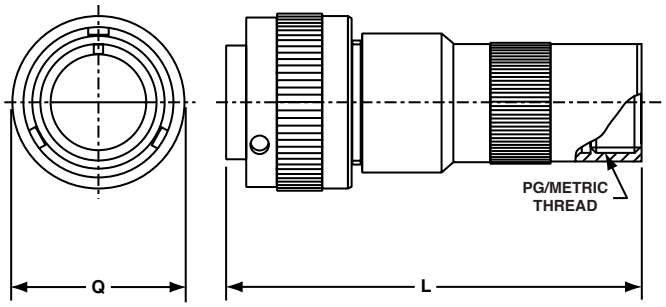
# GT06AMI/GT06RMI
## straight plug

**AMI**

- **Long adapter with internal PG/Metric thread***
- **Wire sealing grommet not supplied**
- **Non-environmental**

**RMI**

- **Long adapter with internal PG/Metric thread***
- **With wire sealing grommet**
- **Environment proof**




**Inches**

| Shell Size | L Ref. | Q Max. |
|---|---|---|
| 10SL | 2.873 | .898 |
| 14S | 2.904 | 1.150 |
| 16S | 2.904 | 1.299 |
| 16 | 3.291 | 1.299 |
| 18 | 3.406 | 1.437 |
| 20 | 3.391 | 1.571 |
| 22 | 3.395 | 1.697 |
| 24 | 3.470 | 1.835 |
| 28 | 3.604 | 2.102 |
| 32 | 3.751 | 2.366 |
| 36 | 3.795 | 2.610 |
| 40 | 3.795 | 2.850 |

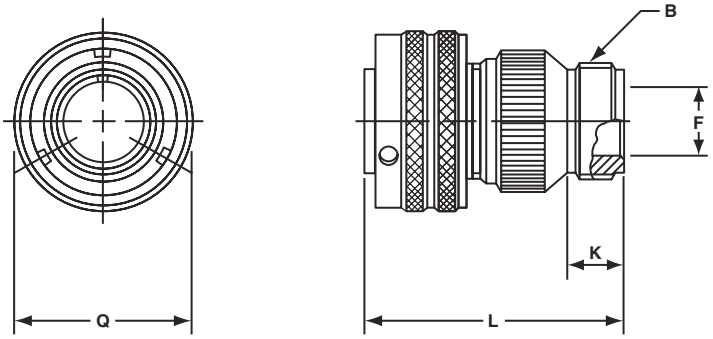
**Millimeters**

| Shell Size | L Ref. | Q Max. |
|---|---|---|
| 10SL | 73.0 | 22.8 |
| 14S | 73.8 | 29.2 |
| 16S | 73.8 | 32.0 |
| 16 | 83.6 | 32.0 |
| 18 | 86.5 | 36.5 |
| 20 | 86.1 | 39.9 |
| 22 | 86.2 | 43.1 |
| 24 | 88.1 | 46.6 |
| 28 | 91.5 | 53.4 |
| 32 | 95.3 | 60.1 |
| 36 | 96.4 | 66.3 |
| 40 | 96.4 | 72.5 |

All dimensions for reference only.
*Refer to page 87

# GT06R
## straight plug

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




**Inches**

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

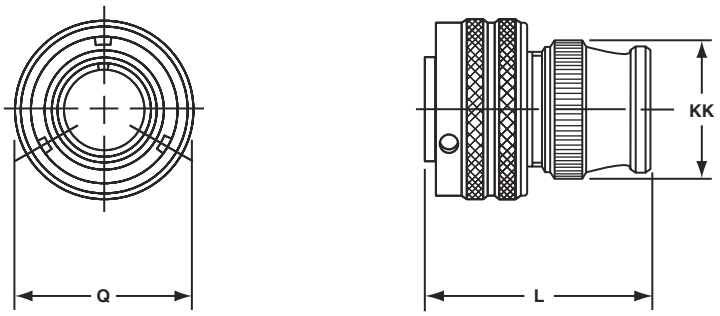
**Millimeters**

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

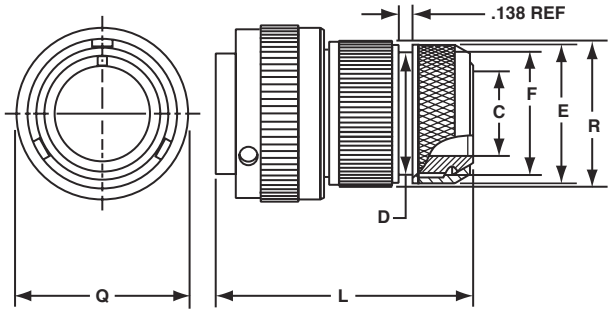
**Millimeters**

| 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.

# GT06SB
## straight plug

- **For termination of shielded braid and heatshrink tube or boot.**
- **With individual wire sealing grommet**
- **Environment proof**




**Inches**

| Shell Size | C Min. | D Max. | E Max. | F Ref. | L Ref. | Q Max. | R Max. |
|---|---|---|---|---|---|---|---|
| 10SL | .303 | .641 | .775 | .625 | 2.034 | .898 | .786 |
| 14S | .417 | .786 | .873 | .750 | 2.049 | 1.150 | .944 |
| 16S | .531 | .905 | 1.025 | .875 | 2.049 | 1.299 | 1.023 |
| 16 | .531 | .905 | 1.025 | .875 | 2.505 | 1.299 | 1.023 |
| 18 | .637 | .965 | 1.147 | 1.000 | 2.552 | 1.437 | 1.160 |
| 20 | .736 | 1.122 | 1.305 | 1.125 | 2.552 | 1.571 | 1.296 |
| 22 | .819 | 1.196 | 1.373 | 1.250 | 2.418 | 1.697 | 1.416 |
| 24 | .981 | 1.364 | 1.521 | 1.375 | 2.632 | 1.835 | 1.562 |
| 28 | 1.067 | 1.476 | 1.657 | 1.500 | 2.566 | 2.102 | 1.806 |
| 32 | 1.311 | 1.732 | 1.927 | 1.750 | 2.628 | 2.366 | 2.027 |
| 36 | 1.631 | 2.007 | 2.207 | 2.062 | 2.676 | 2.610 | 2.281 |
| 40 | 1.882 | 2.283 | 2.486 | 2.312 | 2.628 | 2.850 | 2.538 |

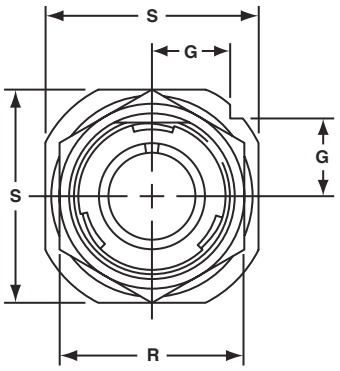
**Millimeters**

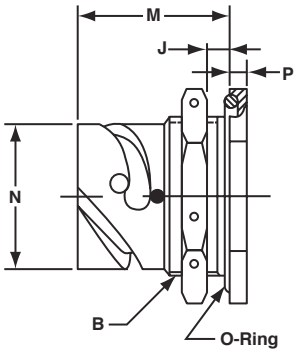
| Shell Size | C Min. | D Max. | E Max. | F Ref. | L Ref. | Q Max. | R Max. |
|---|---|---|---|---|---|---|---|
| 10SL | 7.7 | 16.3 | 19.7 | 15.9 | 51.7 | 22.8 | 20.0 |
| 14S | 10.6 | 20.0 | 22.2 | 19.1 | 52.0 | 29.2 | 24.0 |
| 16S | 13.5 | 23.0 | 26.0 | 22.2 | 52.0 | 32.0 | 26.0 |
| 16 | 13.5 | 23.0 | 26.0 | 22.2 | 63.6 | 32.0 | 26.0 |
| 18 | 16.2 | 24.5 | 29.1 | 25.4 | 64.8 | 36.5 | 29.5 |
| 20 | 18.7 | 28.5 | 33.1 | 28.6 | 64.8 | 39.9 | 32.9 |
| 22 | 20.8 | 30.4 | 34.9 | 31.8 | 61.4 | 43.1 | 36.0 |
| 24 | 24.9 | 34.6 | 38.6 | 34.9 | 66.8 | 46.6 | 39.7 |
| 28 | 27.1 | 37.5 | 42.5 | 38.1 | 65.2 | 53.4 | 45.9 |
| 32 | 33.3 | 44.0 | 48.9 | 44.5 | 66.8 | 60.1 | 51.5 |
| 36 | 41.4 | 51.0 | 56.1 | 52.4 | 68.0 | 66.3 | 57.9 |
| 40 | 47.8 | 58.0 | 63.1 | 58.7 | 66.8 | 72.5 | 64.5 |

All dimensions for reference only.

# GT07R
## jam nut receptacle

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




**Inches**

| Shell Size | B Thread Class 2A | G ± .012 | J Wall Thickness Min. | J Wall Thickness Max. | M ± .012 | N + .000 − .006 | P ± .007 | R ± .016 | S ± .012 |
|---|---|---|---|---|---|---|---|---|---|
| 10SL | .8750-20 UNEF | .441 | .094 | .205 | .965 | .717 | .157 | 1.062 | 1.252 |
| 14S | 1.1250-18 UNEF | .575 | .094 | .295 | 1.055 | .969 | .189 | 1.312 | 1.626 |
| 16S | 1.2500-18 UNEF | .618 | .094 | .295 | 1.055 | 1.079 | .189 | 1.500 | 1.748 |
| 16 | 1.2500-18 UNEF | .618 | .094 | .295 | 1.264 | 1.079 | .189 | 1.500 | 1.748 |
| 18 | 1.3750-18 UNEF | .661 | .094 | .354 | 1.327 | 1.213 | .189 | 1.562 | 1.875 |
| 20 | 1.5000-18 UNEF | .709 | .094 | .358 | 1.327 | 1.346 | .189 | 1.750 | 2.000 |
| 22 | 1.6250-18 UNEF | .795 | .094 | .358 | 1.327 | 1.472 | .189 | 2.000 | 2.134 |
| 24 | 1.7500-18 UNEF | .795 | .094 | .358 | 1.327 | 1.610 | .189 | 2.000 | 2.252 |
| 28 | 2.0000-18 UNS | .886 | .094 | .394 | 1.386 | 1.839 | .220 | 2.188 | 2.500 |
| 32 | 2.2500-16 UN | .972 | .094 | .394 | 1.386 | 2.102 | .220 | 2.438 | 2.748 |
| 36 | 2.5000-16 UN | 1.059 | .094 | .327 | 1.386 | 2.346 | .220 | 2.812 | 3.000 |
| 40 | 2.7500-16 UN | 1.165 | .094 | .327 | 1.386 | 2.579 | .220 | 2.953 | 3.248 |

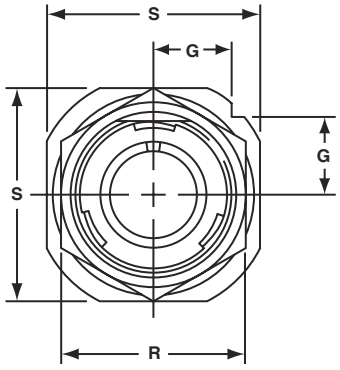
**Millimeters**

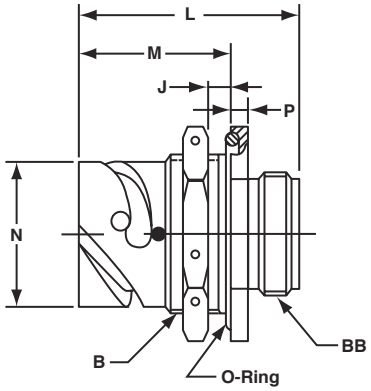
| Shell Size | G ± 0.3 | J Wall Thickness Min. | J Wall Thickness Max. | M ± 0.3 | N + 0.00 − 0.15 | P ± 0.2 | R ± 0.4 | S ± 0.3 |
|---|---|---|---|---|---|---|---|---|
| 10SL | 11.2 | 2.4 | 5.2 | 24.5 | 18.2 | 4.0 | 27 | 31.8 |
| 14S | 14.6 | 2.4 | 7.5 | 26.8 | 24.6 | 4.8 | 33 | 41.3 |
| 16S | 15.7 | 2.4 | 7.5 | 26.8 | 27.4 | 4.8 | 38 | 44.4 |
| 16 | 15.7 | 2.4 | 7.5 | 32.1 | 27.4 | 4.8 | 38 | 44.4 |
| 18 | 16.8 | 2.4 | 9.0 | 33.7 | 30.8 | 4.8 | 40 | 47.6 |
| 20 | 18.0 | 2.4 | 9.1 | 33.7 | 34.2 | 4.8 | 44 | 50.8 |
| 22 | 20.2 | 2.4 | 9.1 | 33.7 | 37.4 | 4.8 | 51 | 54.2 |
| 24 | 20.2 | 2.4 | 9.1 | 33.7 | 40.9 | 4.8 | 51 | 57.2 |
| 28 | 22.5 | 2.4 | 10.0 | 35.2 | 46.7 | 5.6 | 56 | 63.5 |
| 32 | 24.7 | 2.4 | 10.0 | 35.2 | 53.4 | 5.6 | 62 | 69.8 |
| 36 | 26.9 | 2.4 | 8.3 | 35.2 | 59.6 | 5.6 | 71 | 76.2 |
| 40 | 29.6 | 2.4 | 8.3 | 35.2 | 65.5 | 5.6 | 75 | 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 Thread Class 2A | G ± .012 | J Wall Thickness Min. | J Wall Thickness Max. | L ± .010 | M ± .012 | N + .000 − .006 | P ± .007 | R ± .016 | S ± .012 | BB Thread Class 2A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1.875 | 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 | 2.134 | 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 | 2.953 | 3.248 | 2.3125-16 UN |

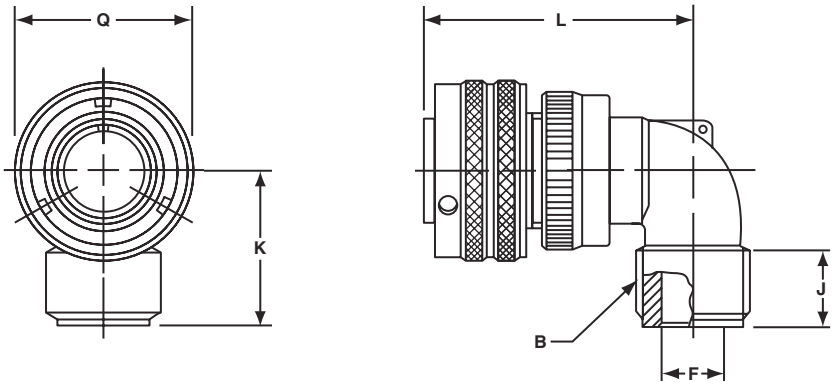
**Millimeters**

| Shell Size | G ± 0.3 | J Wall Thickness Min. | J Wall Thickness Max. | L ± 0.3 | M ± 0.3 | N + 0.00 − 0.15 | P ± 0.2 | R ± 0.4 | S ± 0.3 |
|---|---|---|---|---|---|---|---|---|---|
| 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 | 54.2 |
| 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 | 75 | 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 84 and 86**




**Inches**

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

**Millimeters**

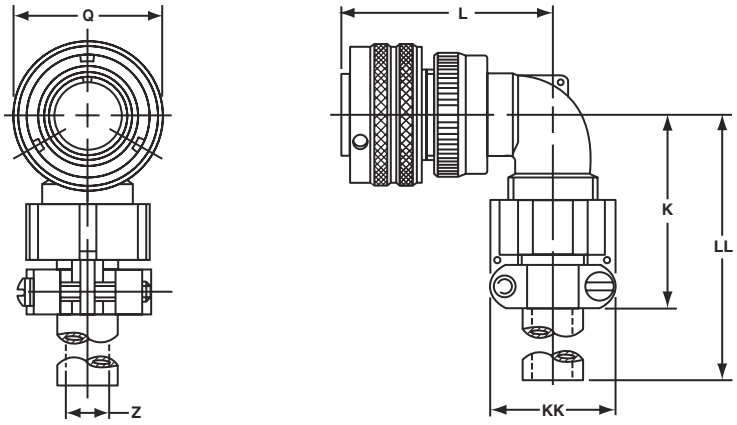
| Shell Size | F Max. | J Min. | K Max. | L Max. | Q Max. |
|---|---|---|---|---|---|
| 10SL | 8.5 | 9.4 | 30 | 45 | 22.8 |
| 14S | 11.7 | 9.4 | 30 | 47 | 29.2 |
| 16S | 14.9 | 9.4 | 30 | 48 | 33.0 |
| 16 | 14.9 | 9.4 | 30 | 57 | 33.0 |
| 18 | 17.4 | 9.4 | 35 | 58 | 36.5 |
| 20 | 20.5 | 9.4 | 35 | 61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

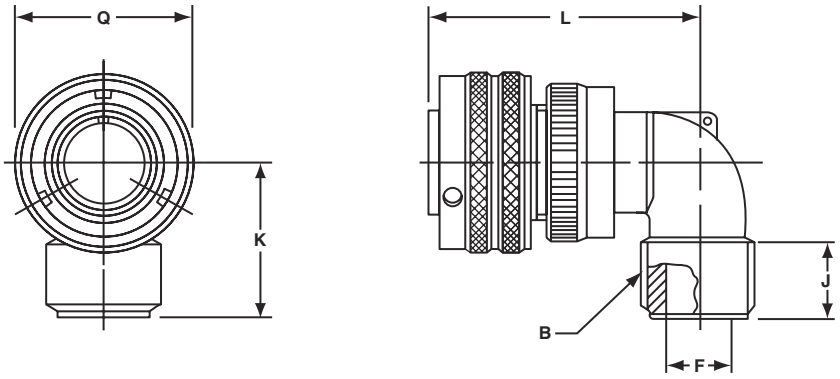
**Millimeters**

| 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.

# GT08R
## 90° angle plug

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




**Inches**

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

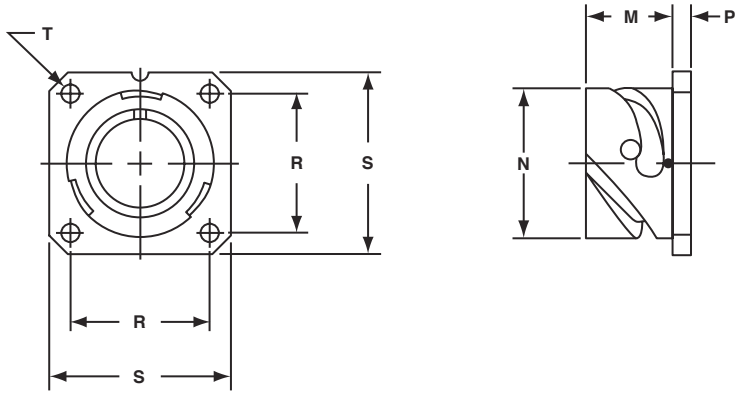
**Millimeters**

| Shell Size | F Max. | J Min. | K Max. | L Max. | Q Max. |
|---|---|---|---|---|---|
| 10SL | 8.5 | 9.4 | 30 | 45 | 22.8 |
| 14S | 11.7 | 9.4 | 30 | 47 | 29.2 |
| 16S | 14.9 | 9.4 | 30 | 48 | 33.0 |
| 16 | 14.9 | 9.4 | 30 | 57 | 33.0 |
| 18 | 17.4 | 9.4 | 35 | 58 | 36.5 |
| 20 | 20.5 | 9.4 | 35 | 61 | 39.9 |
| 22 | 23.2 | 9.4 | 35 | 61 | 43.1 |
| 24 | 26.0 | 9.4 | 40 | 66 | 46.6 |
| 28 | 28.9 | 9.4 | 40 | 66 | 53.4 |
| 32 | 36.7 | 11.0 | 45 | 72 | 60.1 |
| 36 | 42.8 | 12.6 | 50 | 75 | 66.3 |
| 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 +.016 −.000 | N +.000 −.006 | P ±.008 | R ±.004 | S ±.012 | T +.004 −.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 |

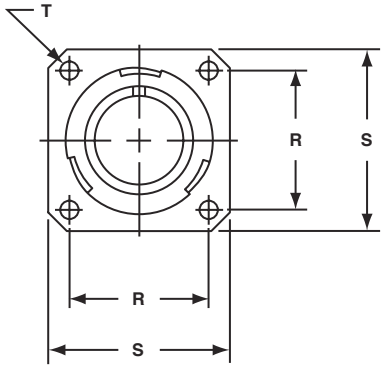
**Millimeters**

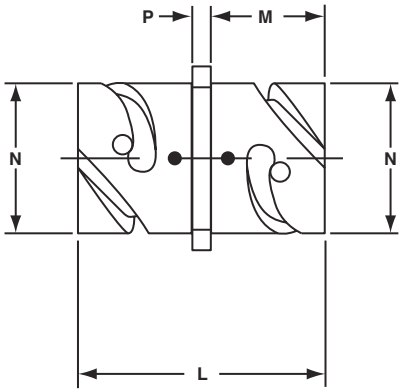
| Shell Size | M +0.4 −0.0 | N +0.00 −0.15 | P ±0.2 | R ±0.1 | S ±0.3 | T +0.1 −0.0 |
|---|---|---|---|---|---|---|
| 10SL | 14.2 | 18.2 | 2.8 | 18.2 | 25.4 | 3.2 |
| 14S | 14.2 | 24.6 | 3.2 | 23.0 | 30.0 | 3.2 |
| 16S | 14.2 | 27.4 | 3.2 | 24.6 | 32.5 | 3.2 |
| 16 | 19.0 | 27.4 | 3.2 | 24.6 | 32.5 | 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 Max. | M + .016 – .000 | N + .000 – .006 | P ± .008 | R ± .004 | S ± .012 | T + .004 – .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 Max. | M + 0.4 – 0.0 | N + 0.00 – 0.15 | P ± 0.2 | R ± 0.1 | S ± 0.3 | T + .004 – .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.

# ACA-B/GT Connectors
## insert availability

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 10SL-3 | A | 3 | | | | | 3 | | | | |
| 10SL-4† | A | 2 | | | | | 2 | | | | |
| 14S-2 | Inst. | 4 | | | | | 4 | | | | |
| 14S-4 | D | 1 | | | | | 1 | | | | |
| 14S-5 | Inst. | 5 | | | | | 5 | | | | |
| 14S-6 | Inst. | 6 | | | | | 6 | | | | |
| 14S-7 | A | 3 | | | | | 3 | | | | |
| 14S-9 | A | 2 | | | | | 2 | | | | |
| 14S-10 | Inst. | 4 | | | | | 4 | | | | |
| 14S-12 | A | 3 | | | | | 3 | | | | |
| 14S-A7 | A | 7 | | | | | 7 | | | | |
| 16S-1 | A | 7 | | | | | 7 | | | | |
| 16S-3 | B | 1 | | | | | 1 | | | | |
| 16S-4 | D | 2 | | | | | 2 | | | | |
| 16S-5 | A | 3 | | | | | 3 | | | | |
| 16S-6 | A | 3 | | | | | 3 | | | | |
| 16S-8 | A | 5 | | | | | 5 | | | | |
| 16-2 | E | 1 | | | | 1 | | | | | |
| 16-7 | A | 3 | | | 1 | | 2 | | | | |
| 16-9 | A | 4 | | | | 2 | 2 | | | | |
| 16-10 | A | 3 | | | | 3 | | | | | |
| 16-11 | A | 2 | | | | 2 | | | | | |
| 16-12 | A | 1 | | 1 | | | | | | | |
| 16-13 | A | 2 | | | | 2 | | | | | |
| 16-59 | A | 4 | | | | 4 | | | | | |
| 18-1 | A/Inst. | 10 | | | | | 10 | | | | |
| 18-3 | D | 2 | | | | 2 | | | | | |
| 18-4 | D | 4 | | | | | 4 | | | | |
| 18-5 | D | 3 | | | | 2 | 1 | | | | |
| 18-6 | D | 1 | | 1 | | | | | | | |
| 18-7 | B | 1 | | | 1 | | | | | | |
| 18-8 | A | 8 | | | | 1 | 7 | | | | |
| 18-9 | Inst. | 7 | | | | 2 | 5 | | | | |
| 18-10 | A | 4 | | | | 4 | | | | | |
| 18-11 | A | 5 | | | | 5 | | | | | |
| 18-12 | A | 6 | | | | | 6 | | | | |
| 18-13 | A | 4 | | | 1 | 3 | | | | | |
| 18-14 | A | 2 | | 1 | | | 1 | | | | |
| 18-15 | A | 4 | | | | 4 | | | | | |
| 18-16 | C | 1 | | | | 1 | | | | | |
| 18-17 | Inst. | 7 | | | | 2 | 5 | | | | |
| 18-19 | A | 10 | | | | | 10 | | | | |
| 18-20 | A | 5 | | | | | 5 | | | | |
| 18-22 | D | 3 | | | | | 3 | | | | |
| 18-24 | A/Inst. | 10 | | | | | 10 | | | | |
| 18-29 | A | 5 | | | | | 5 | | | | |
| 18-30 | A | 5 | | | | | 5 | | | | |
| 18-31 | A | 5 | | | | | 5 | | | | |

*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 55-77 for application wire size.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 20-2 | D | 1 | 1 | | | | | | | | |
| 20-3 | D | 3 | | | | 3 | | | | | |
| 20-4 | D | 4 | | | | 4 | | | | | |
| 20-6 | D | 3 | | | | | 3 | | | | |
| 20-7 | D/A | 8 | | | | | 8 | | | | |
| 20-8 | Inst. | 6 | | | 2 | | 4 | | | | |
| 20-9 | D/A | 8 | | | | 1 | 7 | | | | |
| 20-11 | Inst. | 13 | | | | | 13 | | | | |
| 20-12 | A | 2 | | 1 | | | 1 | | | | |
| 20-14 | A | 5 | | | 2 | 3 | | | | | |
| 20-15 | A | 7 | | | | 7 | | | | | |
| 20-16 | A | 9 | | | | 2 | 7 | | | | |
| 20-17 | A | 6 | | | | 5 | 1 | | | | |
| 20-18 | A | 9 | | | | 3 | 6 | | | | |
| 20-19 | A | 3 | | | 3 | | | | | | |
| 20-20 | A | 4 | | 1 | | 3 | | | | | |
| 20-21 | A | 9 | | | | 1 | 8 | | | | |
| 20-22 | A | 6 | | | 3 | | 3 | | | | |
| 20-23 | A | 2 | | | 2 | | | | | | |
| 20-24 | A | 4 | | | 2 | | 2 | | | | |
| 20-25 | Inst. | 13 | | | | | 13 | | | | |
| 20-26 | A | 19 | | | | | 19 | | | | |
| 20-27 | A | 14 | | | | | 14 | | | | |
| 20-29 | A | 17 | | | | | 17 | | | | |
| 20-30 | Inst. | 13 | | | | | 13 | | | | |
| 20-33 | A | 11 | | | | | 11 | | | | |
| 20-51 | A | 3 | | | 3 | | | | | | |
| 20-57 | A | 7 | | | | 7* | | | | | |
| 20-58 | A | 10 | | | | 5 | 5 | | | | |
| 20-59 | A | 3 | | | 3* | | | | | | |
| 20-66 | A | 6 | | | | 5* | 1 | | | | |
| 20-79 | A/D | 8 | | | | 1 | 7 | | | | |
| 22-1 | D | 2 | | | 2 | | | | | | |
| 22-2 | D | 3 | | | 3 | | | | | | |
| 22-4 | A | 4 | | | 2 | 2 | | | | | |
| 22-5 | D | 6 | | | | 2 | 4 | | | | |
| 22-6 | D | 3 | | | 2 | | 1 | | | | |
| 22-7 | E | 1 | 1 | | | | | | | | |
| 22-8 | E | 2 | | | | 2 | | | | | |
| 22-9 | E | 3 | | | | 3 | | | | | |
| 22-10 | E | 4 | | | | | 4 | | | | |
| 22-11 | B | 2 | | | | | 2 | | | | |
| 22-12 | D | 5 | | | 2 | | 3 | | | | |
| 22-13 | D/A | 5 | | | | 4 | 1 | | | | |
| 22-14 | A | 19 | | | | | 19 | | | | |
| 22-15 | E/A | 6 | | | | 5 | 1 | | | | |

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

** Coaxial cable data can be found on insert arrangement drawings, pages 55-77. For further information on coaxial contacts call Amphenol Industrial at 888-364-9011.

# ACA-B/GT Connectors
## insert availability, cont.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax** | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 22-16 | A | 9 | | | | 3 | 6 | | | | |
| 22-17 | D/A | 9 | | | | 1 | 8 | | | | |
| 22-18 | D/A | 8 | | | | | 8 | | | | |
| 22-19 | A | 14 | | | | | 14 | | | | |
| 22-20 | A | 9 | | | | | 9 | | | | |
| 22-21 | A | 3 | 1 | | | | 2 | | | | |
| 22-22 | A | 4 | | | 4 | | | | | | |
| 22-23 | D/A | 8 | | | | 8 | | | | | |
| 22-24 | D/A | 6 | | | | 2 | 4 | | | | |
| 22-27 | D/A | 9 | | | 1 | | 8 | | | | |
| 22-28 | A | 7 | | | | 7 | | | | | |
| 22-33 | D/A | 7 | | | | | 7 | | | | |
| 22-34 | D | 5 | | | | 3 | 2 | | | | |
| 22-63 | A | 12 | | | | 4 | 8 | | | | |
| 22-65 | D/A | 8 | | | | 8* | | | | | |
| 22-70 | A | 13 | | | | 8 | 5 | | | | |
| 22-80 | A | 3 | | | 3* | | | | | | |
| 24-2 | D | 7 | | | | 7 | | | | | |
| 24-3 | D | 7 | | | | 2 | 5 | | | | |
| 24-5 | A | 16 | | | | | 16 | | | | |
| 24-6 | D/A | 8 | | | | 8 | | | | | |
| 24-7 | A | 16 | | | | 2 | 14 | | | | |
| 24-9 | A | 2 | | 2 | | | | | | | |
| 24-10 | A | 7 | | | 7 | | | | | | |
| 24-11 | A | 9 | | | 3 | 6 | | | | | |
| 24-12 | A | 5 | | 2 | | 3 | | | | | |
| 24-16 | D/A | 7 | | | 1 | 3 | 3 | | | | |
| 24-17 | D | 5 | | | | 2 | 3 | | | | |
| 24-19 | A | 12 | | | | | 12 | | | | |
| 24-20 | D | 11 | | | | 2 | 9 | | | | |
| 24-21 | D | 10 | | | 1 | | 9 | | | | |
| 24-22 | D | 4 | | | 4 | | | | | | |
| 24-27 | E | 7 | | | | | 7 | | | | |
| 24-28 | Inst. | 24 | | | | | 24 | | | | |
| 24-51 | A | 5 | | | 5 | | | | | | |
| 24-52 | Hi Volt. | 1 | | | | 1 | | | | | |
| 24-53 | A | 5 | | | 5 | | | | | | |
| 24-58 | A | 13 | | | 3 | 3 | 7 | | | | |
| 24-59 | A | 14 | | | | 7 | 7 | | | | |
| 24-60 | A | 7 | | | 7* | | | | | | |
| 24-65 | A | 15 | | | | 11 | 4 | | | | |
| 24-66 | D | 7 | | | | 7 | | | | | |
| 24-67 | Inst. | 19 | | | | 19 | | | | | |
| 24-71 | A | 7 | | | 7* | | | | | | |
| 24-75 | A | 7 | | | 7* | | | | | | |
| 24-79 | A | 5 | | | 5 | | | | | | |
| 24-80 | Inst. | 23 | | | | | 23 | | | | |

*Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (*) are exceptions. See insert arrangement drawings on pages 55-77 for application wire size.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax** | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 24-84 | A | 19 | | | | 1 | | | | | 18 |
| 24-96 | Inst. | 28 | | | | | 28 | | | | |
| 24-AJ | A | 25 | | | | | 25 | | | | |
| 28-1 | D/A | 9 | | | 3 | 6 | | | | | |
| 28-2 | D | 14 | | | | 2 | 12 | | | | |
| 28-3 | E | 3 | | | 3 | | | | | | |
| 28-4 | E/D | 9 | | | | 2 | 7 | | | | |
| 28-5 | D | 5 | | 2 | | 1 | 2 | | | | |
| 28-6 | D | 3 | | 3 | | | | | | | |
| 28-7 | D | 2 | | 2 | | | | | | | |
| 28-8 | E/D/A | 12 | | | | 2 | 10 | | | | |
| 28-9 | D | 12 | | | | 6 | 6 | | | | |
| 28-10 | D/A | 7 | | 2 | 2 | 3 | | | | | |
| 28-11 | A | 22 | | | | 4 | 18 | | | | |
| 28-12 | A | 26 | | | | | 26 | | | | |
| 28-13 | A | 26 | | | | | 26 | | | | |
| 28-15 | A | 35 | | | | | 35 | | | | |
| 28-16 | A | 20 | | | | | 20 | | | | |
| 28-17 | B/D/A | 15 | | | | | 15 | | | | |
| 28-18 | C/D/A/Inst. | 12 | | | | | 12 | | | | |
| 28-19 | B/D/A | 10 | | | | 4 | 6 | | | | |
| 28-20 | A | 14 | | | | 10 | 4 | | | | |
| 28-21 | A | 37 | | | | | 37 | | | | |
| 28-22 | D | 6 | | 3 | | | 3 | | | | |
| 28-51 | A | 12 | | | | 12 | | | | | |
| 28-59 | A | 17 | | | | 7 | 10 | | | | |
| 28-66 | A | 16 | | | 2 | 14 | | | | | |
| 28-72 | Coax | 3 | | | | | | | 3 | | |
| 28-74 | A | 16 | | | 7* | | 9 | | | | |
| 28-75 | A | 16 | | | 7* | | 9 | | | | |
| 28-79 | A | 16 | | | 7 | | 9 | | | | |
| 28-82 | D | 6 | | | 2 | 4 | | | | | |
| 28-84 | A | 9 | | | 9 | | | | | | |
| 28-AY | A | 9 | | 4 | | | 5 | | | | |
| 32-1 | E/D | 5 | 2 | | | 3 | | | | | |
| 32-2 | E | 5 | | 3 | | | 2 | | | | |
| 32-3 | D | 9 | 1 | 2 | | 2 | 4 | | | | |
| 32-4 | A/D | 14 | | | | 2 | 12 | | | | |
| 32-5 | D | 2 | 2 | | | | | | | | |
| 32-6 | A | 23 | | 2 | 3 | 2 | 16 | | | | |
| 32-7 | Inst./A | 35 | | | | 7 | 28 | | | | |
| 32-8 | A | 30 | | | | 6 | 24 | | | | |
| 32-9 | D | 14 | | 2 | | | 12 | | | | |
| 32-10 | E/B/D/A | 7 | | 2 | 2 | | 3 | | | | |
| 32-12 | A/D | 15 | | | | 5 | 10 | | | | |
| 32-13 | D | 23 | | | | 5 | 18 | | | | |
| 32-15 | D | 8 | 2 | | | 6 | | | | | |
| 32-16 | A | 23 | | 2 | 3 | 2 | 16 | | | | |

** Coaxial cable data can be found on insert arrangement drawings, pages 55-77. For further information on coaxial contacts call Amphenol Industrial at 888-364-9011.

# ACA-B/GT Connectors
## insert availability, cont.

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax** | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 32-17 | D | 4 | | 4 | | | | | | | |
| 32-22 | A | 54 | | | | | 54 | | | | |
| 32-25 | A | 25 | | | | 25 | | | | | |
| 32-31 | A | 31 | | | | | 31 | | | | |
| 32-48 | Inst. | 48 | | | | | 48 | | | | |
| 32-52 | D | 8 | 2 | | | 6 | | | | | |
| 32-53 | E/Inst. | 42 | | | | 5 | 37 | | | | |
| 32-56 | A | 30 | | | | 6* | 24 | | | | |
| 32-57 | Coax | 8 | | | | 6 | | 2 | | | |
| 32-58 | Coax | 4 | | | | | | | 4 | | |
| 32-59 | A | 42 | | | | | 40 | | | 2 | |
| 32-60 | A | 23 | | | | | 15 | | | 8 | |
| 32-62 | Coax | 23 | | 2 | 1 | 2 | 16 | | | 2 | |
| 32-64 | Inst. | 54 | | | | | 54 | | | | |
| 32-68 | A | 16 | | | | | 12 | | 4 | | |
| 32-73 | A | 46 | | | | | 46 | | | | |
| 32-75 | Coax | 9 | | | | 2 | | | | 7 | |
| 32-76 | A | 19 | | | | 19 | | | | | |
| 32-79 | D | 5 | | 4 | 1 | | | | | | |
| 32-82 | A | 16 | | 4 | | | 12 | | | | |
| 32-AF | A | 55 | | | | | 55 | | | | |
| 32-AM | A | 1 | 1 size 4/0 | | | | | | | | |
| 36-1 | D | 22 | | | | 4 | 18 | | | | |
| 36-3 | D | 6 | 3 | | | 3 | | | | | |
| 36-4 | D/A | 3 | 3 | | | | | | | | |
| 36-5 | A | 4 | 4 | | | | | | | | |
| 36-6 | A | 6 | 2 | 4 | | | | | | | |
| 36-7 | A | 47 | | | | 7 | 40 | | | | |
| 36-8 | A | 47 | | | | 1 | 46 | | | | |
| 36-9 | A | 31 | | 1 | 2 | 14 | 14 | | | | |
| 36-10 | A | 48 | | | | | 48 | | | | |
| 36-11 | A | 48 | | | | | 48 | | | | |
| 36-12 | A | 48 | | | | | 48 | | | | |
| 36-13 | E/A | 17 | | | | 2 | 15 | | | | |
| 36-14 | D | 16 | | | 5 | 5 | 6 | | | | |
| 36-15 | D/A | 35 | | | | | 35 | | | | |
| 36-16 | A | 47 | | | | 7 | 40 | | | | |
| 36-17 | A | 47 | | | | 7 | 40 | | | | |
| 36-18 | A | 31 | | 1 | 2 | 14 | 14 | | | | |
| 36-20 | A | 34 | | | 2 | 2 | 30 | | | | |
| 36-22 | D | 22 | | | | 22 | | | | | |
| 36-51 | D | 4 | 2 | 2 | | | | | | | |
| 36-52 | A | 52 | | | | | 52 | | | | |
| 36-54 | A | 39 | | | 8 | | 31 | | | | |
| 36-55 | A | 39 | | | 8* | | 31 | | | | |
| 36-59 | A | 53 | | | | 3* | 50 | | | | |
| 36-60 | A | 47 | | | | 7* | 40 | | | | |
| 36-64 | Coax | 4 | | | | | | 4 | | | |
| 36-65 | Coax | 4 | | | | | | 4 | | | |

| Insert Arrangement | Service Rating | Total Contacts | Contact Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Coax** | | | |
| | | | 0 | 4 | 8 | 12 | 16 | 0 | 4 | 8 | 12 |
| 36-71 | A | 53 | | | | 3 | 50 | | | | |
| 36-73 | Coax | 7 | | | | | | | 7 | | |
| 36-74 | A | 44 | | | | | 43 | | | 1 | |
| 36-75 | A | 48 | | | | | 48* | | | | |
| 36-76 | A | 47 | | | | | 47 | | | | |
| 36-77 | D | 7 | | 7 | | | | | | | |
| 36-78 | A | 14 | | | 12 | | 2 | | | | |
| 36-79 | A | 20 | | | | 20 | | | | | |
| 36-80 | A | 20 | | | | 20* | | | | | |
| 36-83 | Coax | 7 | | | | | | | 7 | | |
| 36-85 | A/D | 35 | | | | | 35* | | | | |
| 36-97 | C | 1 | 1 size 4/0 | | | | | | | | |
| 36-99 | D | 12 | | 3 | 3 | 3 | 3 | | | | |
| 36-AF | A | 48 | | | | | 48 | | | | |
| 40-1 | D | 30 | | | | 6 | 24 | | | | |
| 40-5 | A | 5 | 5 | | | | | | | | |
| 40-9 | A | 47 | | | 1 | 22 | 24 | | | | |
| 40-10 | A | 29 | | 4 | 9 | | 16 | | | | |
| 40-30 | A | 30 | | 1 | | 29 | | | | | |
| 40-35 | D | 35 | | | | 35 | | | | | |
| 40-53 | A | 60 | | | | | 60 | | | | |
| 40-56 | A | 85 | | | | | 85 | | | | |
| 40-57 | E | 4 | 4 | | | | | | | | |
| 40-61 | A | 59 | | | 1 | 3 | 55 | | | | |
| 40-62 | A | 60 | | | | | 60 | | | | |
| 40-63 | A | 61 | | | | | 61* | | | | |
| 40-64 | Coax | 36 | | | | 3 | 20 | | | 13 | |
| 40-66 | Coax | 4 | | | | | | 4 | | | |
| 40-67 | A | 11 | | | | | 1 | | 10 | | |
| 40-68 | A | 21 | | | 21 | | | | | | |
| 40-70 | A | 61 | | | | | 61 | | | | |
| 40-72 | A | 11 | | | | | 1 | | 10 | | |
| 40-73 | A | 61 | | | | | 61 | | | | |
| 40-74 | A | 6 | | | | 1 | | 4 | 1 | | |
| 40-75 | E | 5 | 4 | | | 1 | | | | | |
| 40-80 | A | 11 | | 10 | | | 1 | | | | |
| 40-81 | A | 62 | | | | | 62* | | | | |
| 40-82 | A | 62 | | | | | 62 | | | | |
| 40-85 | A | 60 | | | | | 60* | | | | |
| 40-86 | Coax | 4 | | | | | | 4 | | | |
| 40-87 | D | 7 | | 7 | | | | | | | |
| 40-AD | A | 8 | 4 | | 4 | | | | | | |
| 40-AG | A | 38 | | | | 38 | | | | | |
| 40-AP | E | 2 | 2 size 4/0 | | | | | | | | |
| 40-AR | Inst. | 13 | 3 | 3 | | 7 | | | | | |
| 40-AS | A | 40 | | | | 25 | 15 | | | | |
| 40-AT | A | 43 | | | 1 | 24 | 18 | | | | |
| 40-AU | A | 14 | | 3 | 10 | | 1 | | | | |
| 40-AV | D | 3 | 3 size 2/0 | | | | | | | | |

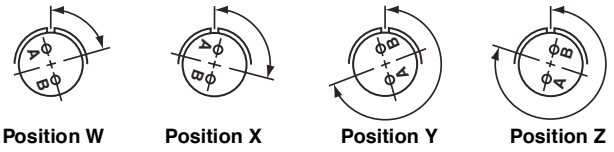
*Crimp contacts accommodate wire the same size as the contact as well as wire of the next smaller, even size. Arrangements identified with an asterisk (*) are exceptions. See insert arrangement drawings on pages 55-77 for application wire size.

**Coaxial cable data can be found on insert arrangement drawings, pages 55-77. For further information on coaxial contacts call Amphenol Industrial at 888-364-9011.

# ACA-B/GT Connectors
## 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.




**View looking into front face of pin insert or rear of socket insert.**

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

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

| | | | | | | |
|---|---|---|---|---|---|---|
| 16-7 | 20-16 | 22-18 | 24-4 | 24-28 | 28-16 | 32-10 |
| 18-5 | 20-20 | 22-19 | 24-5 | 24-AJ | 28-17 | 32-12 |
| 18-9 | 20-22 | 22-21 | 24-6 | 28-1 | 28-19 | 32-13 |
| 18-13 | 22-3 | 22-24 | 24-7 | 28-4 | 28-20 | 32-22 |
| 18-14 | 22-6 | 22-25 | 24-12 | 28-8 | 28-21 | 32-AF |
| 20-7 | 22-12 | 22-29 | 24-14 | 28-9 | 32-1 | 36-1 |
| 20-8 | 22-14 | 22-33 | 24-16 | 28-10 | 32-3 | 36-7 |
| 20-9 | 22-15 | 22-34 | 24-17 | 28-11 | 32-4 | 36-8 |
| 20-12 | 22-16 | 24-1 | 24-20 | 28-14 | 32-6 | 36-13 |
| 20-14 | 22-17 | 24-3 | 24-21 | 28-15 | 32-9 | 40-53 |

| Insert Arrangement | Degrees | | | |
|---|---|---|---|---|
| | W | X | Y | Z |
| 10SL-4 | 63 | – | – | – |
| 14S-2 | – | 120 | 240 | – |
| 14S-5 | – | 110 | – | – |
| 14S-7 | 90 | 180 | 270 | – |
| 14S-9 | 70 | 145 | 215 | 290 |
| 16-9 | 35 | 110 | 250 | 325 |
| 16-10 | 90 | 180 | 270 | – |
| 16-11 | 35 | 110 | 250 | 325 |
| 16-13 | 35 | 110 | 250 | 325 |
| 16S-1 | 80 | – | – | 280 |
| 16S-4 | 35 | 110 | 250 | 325 |
| 16S-5 | 70 | 145 | 215 | 290 |
| 16S-6 | 90 | 180 | 270 | – |
| 16S-8 | – | 170 | 265 | – |
| 18-1 | 70 | 145 | 215 | 290 |
| 18-3 | 35 | 110 | 250 | 325 |
| 18-4 | 35 | 110 | 250 | 325 |
| 18-8 | 70 | – | – | 290 |
| 18-10 | – | 120 | 240 | – |
| 18-11 | – | 170 | 265 | – |
| 18-12 | 80 | – | – | 280 |
| 18-15 | – | 120 | 240 | – |
| 18-20 | 90 | 180 | 270 | – |
| 18-22 | 70 | 145 | 215 | 290 |
| 18-29 | 90 | 180 | 270 | – |
| 20-3 | 70 | 145 | 215 | 290 |
| 20-4 | 45 | 110 | 250 | – |
| 20-5 | 35 | 110 | 250 | 325 |
| 20-6 | 70 | 145 | 215 | 290 |
| 20-15 | 80 | – | – | 280 |
| 20-17 | 90 | 180 | 270 | – |
| 20-18 | 35 | 110 | 250 | 325 |

| Insert Arrangement | Degrees | | | |
|---|---|---|---|---|
| | W | X | Y | Z |
| 20-19 | 90 | 180 | 270 | – |
| 20-21 | 35 | 110 | 250 | 325 |
| 20-23 | 35 | 110 | 250 | 325 |
| 20-24 | 35 | 110 | 250 | 325 |
| 20-27 | 35 | 110 | 250 | 325 |
| 20-29 | 80 | – | – | 280 |
| 20-33 | – | – | – | 280 |
| 22-1 | 35 | 110 | 250 | 325 |
| 22-2 | 70 | 145 | 215 | 290 |
| 22-4 | 35 | 110 | 250 | 325 |
| 22-5 | 35 | 110 | 250 | 325 |
| 22-8 | 35 | 110 | 250 | 325 |
| 22-9 | 70 | 145 | 215 | 290 |
| 22-10 | 35 | 110 | 250 | 325 |
| 22-11 | 35 | 110 | 250 | 325 |
| 22-13 | 35 | 110 | 250 | 325 |
| 22-20 | 35 | 110 | 250 | 325 |
| 22-22 | – | 110 | 250 | – |
| 22-23 | 35 | – | 250 | – |
| 22-27 | 80 | – | 250 | 280 |
| 22-28 | 80 | – | – | 280 |
| 24-2 | 80 | – | – | 280 |
| 24-9 | 35 | 110 | 250 | 325 |
| 24-10 | 80 | – | – | 280 |
| 24-11 | 35 | 110 | 250 | 325 |
| 24-22 | 45 | 110 | 250 | – |
| 24-27 | 80 | – | – | 280 |
| 24-96 | 65 | – | – | – |
| 28-2 | 35 | 110 | 250 | 325 |
| 28-3 | 70 | 145 | 215 | 290 |
| 28-5 | 35 | 110 | 250 | 325 |
| 28-6 | 70 | 145 | 215 | 290 |

| Insert Arrangement | Degrees | | | |
|---|---|---|---|---|
| | W | X | Y | Z |
| 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 |
| 40-56 | 72 | 144 | 216 | 288 |
| 40-AG | 37 | 74 | 285 | 322 |

*Additional rotations available; consult Amphenol for information.

# ACA-B/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 solder contacts for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop. Gold plated contacts are also available. (See how to order, page 78 for ACA-B and page 79 for GT.)

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

** Contact ratings as stated are test ratings only. The connector may not withstand full rated current through all contacts continuously.

Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

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

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

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

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

### Table II
### ALTITUDE VOLTAGE DERATING** CHART

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

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

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

# ACA-B/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 insert arrangements and are identified based on part number call out. (See how to order, page 78 for ACA-B and page 79 for GT.)

**CRIMP CONTACTS**

| CRIMP CONTACT DATA | | | | | | APPLICATION TOOLS | | |
|---|---|---|---|---|---|---|---|---|
| PART NUMBER | | | | MATING SIZE | WIRE WELL | Crimp Tools | Positioner/ Die Set | Locator/ Color |
| PIN CONTACT | | SOCKET CONTACT | | | | | | |
| SILVER | GOLD | SILVER | GOLD | | | | | |
| 10-40553 | 10-597160-1531 | 10-597109-161 | 10-597109-1631 | 16S | 16-18-20 | Daniels AF8 or Equivalent | TH29-1 or Equivalent | Red |
| 10-606014-40 | 10-597160-4031 | 10-597109-401 | 10-597109-4031 | | 12-14 | | | |
| 10-606014-221 | 10-597160-1931 | 10-597109-191 | 10-597109-1931 | | 14-16 | | | |
| 10-606014-291 | 10-597160-3431 | 10-597109-341 | 10-597109-3431 | | 20-22 | | | |
| 10-606014-46 | 10-597160-4631 | 10-597109-461 | 10-597109-4631 | | 20-24 | | | |
| 10-40557 | 10-597160-1631 | 10-597109-171 | 10-597109-1731 | 16 | 16-18-20 | | | Pin - Blue Socket - Green |
| 10-606014-022 | 10-597160-2231 | 10-597109-221 | 10-597109-2231 | | 12-14 | | | |
| 10-606014-171 | 10-597160-1731 | 10-597109-141 | 10-597109-1431 | | 14-16 | | | |
| 10-606014-311 | 10-597160-3331 | 10-597109-331 | 10-597109-3331 | | 20-22 | | | |
| 10-606014-361 | 10-597160-3631 | 10-597109-361 | 10-597109-3631 | | 20-24 | | | |
| 10-606014-121 | 10-597160-1231 | 10-597109-131 | 10-597109-1331 | 12 | 12-14 | | | Green |
| 10-606014-231 | 10-597160-2331 | 10-597109-231 | 10-597109-2331 | | 8-10 | | | |
| 10-606014-251 | 10-597160-2631 | 10-597109-261 | 10-597109-2631 | | 10-12 | | | |
| 10-606014-271 | 10-597160-2731 | 10-597109-271 | 10-597109-2731 | | 14-16-18 | | | |
| 10-606014-261 | 10-597160-2431 | 10-597109-241 | 10-597109-2431 | | 18-20 | | | |
| 10-606014-201 | 10-597160-2031 | 10-597109-201 | 10-597109-2031 | | 20-22 | | | |
| 10-40792 | 10-597160-831 | 10-40793 | 10-597109-831 | 8 | 8 | Pico 400BH31 | Pico 41431A-8N | Pico Pin - 4025 Socket - 4026 |
| 10-606014-41 | 10-597160-4131 | 10-597109-411 | 10-597109-4131 | | 6 | | | |
| 10-606014-321 | 10-597160-2831 | 10-606015-321 | 10-597109-2831 | | 10-12 | | | |
| 10-606014-381 | 10-597160-3831 | 10-597109-381 | 10-597109-3831 | | 12-14 | | | |
| 10-40564 | 10-597160-431 | 10-40565 | 10-597109-431 | 4 | 4 | | Pico 41431A-4N | Pico 4043 |
| 10-606014-58 | 10-597160-5831 | 10-597109-581 | 10-597109-5831 | | 6 | | | |
| 10-606014-331 | 10-597160-3531 | 10-597109-351 | 10-597109-3531 | | 8 | | | |
| 10-606014-44 | 10-597160-4431 | 10-606015-44 | 10-597109-4431 | | 10 | | | |
| 10-581806-000 | 10-597160-131 | 10-581808-000 | 10-597159-131 | 0 | 0 | | Pico 41431A-0N | Pico Pin - 4042-1 Socket - 4042 |
| 10-606014-341 | 10-597160-2931 | 10-597109-291 | 10-597109-2931 | | 0-2 | | | |
| 10-606014-351 | 10-597160-3031 | 10-606015-351 | 10-597109-3031 | | 4 | | | |
| 10-597276-48 | 10-597276-4831 | 10-606015-48 | 10-597109-4831 | 2/0 | 2/0 | Pico 500 | Pico 51431A2/0N | Pico Pin - 6490 |
| 10-597276-47 | 10-597276-4731 | 10-606015-47 | 10-597109-4731 | 4/0 | 4/0 | | Pico 51431A4/0N | Socket - 6491 |

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

# RADSOK® Technology

### RADSOK® Technology Advantages

RADSOK'S twisted grid configuration allows for 50% more current to pass through the same size pin, while providing increased reliability, ampacity and cycle durability as well as lower insertion force, T-rise and voltage drop.

**• HIGH RELIABILITY**

Unique RADSOK® design and construction technology create an electrical contact interface that exceeds typical interconnect requirements. Applications in aerospace, medical, industrial, automotive, mining, offshore, and other harsh environments depend on the high reliability of Amphenol's RADSOK® technology.

**• LOW CONTACT ENGAGEMENT/SEPARATION FORCES**

The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating pin surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

**• LOW CONTACT RESISTANCE**

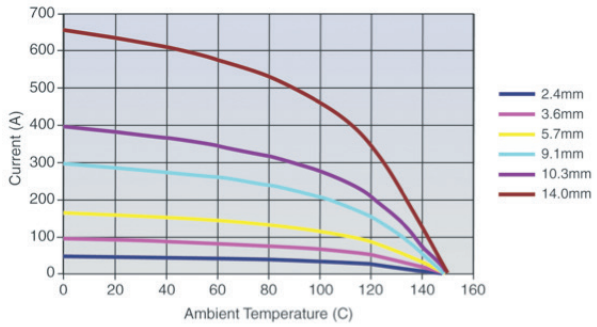
The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts' high current ratings compared to traditional power contact designs.

**• HIGH MATING CYCLE DURABILITY**

RADSOK® contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 matings or higher. Even with continuous exposure to harsh environmental abuse (salt, sand, and high humidity), RADSOK® contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.

**RADSOK® Derating Chart – Temperature vs. Current**

Based on single conductors in free air. Wire cross-section same size as pin contact cross-sectional area.



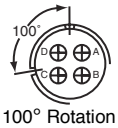
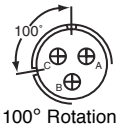

### RADSOK® Socket Table

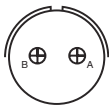
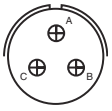
| CRIMP CONTACT DATA | | | | APPLICATION TOOLS | | |
|---|---|---|---|---|---|---|
| RADSOK® Part Number | | Mating Size | Wire Well | Crimp Tools | Positioner/Die Set | Locator/Color |
| Socket Contact | | | | | | |
| Silver | Gold | | | | | |
| 10-639140-121 | 10-639140-1231 | 12 | 12-14 | Daniels AF8 or Equivalent | TH29-1 or Equivalent | Green |
| 10-639140-081 | 10-639140-0831 | 8 | 8 | Pico 400BH31 | Pico 41431A-8N | Socket - 4026 |
| 10-639140-041 | 10-639140-0431 | 4 | 4 | Pico 400BH31 | Pico 41431A-4N | Pico 4043 |
| 10-639140-001 | 10-639140-0031 | 0 | 0 | Pico 400BH31 | Pico 41431A-0N | Socket - 4042 |

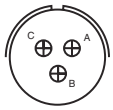
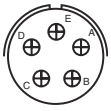
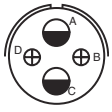
# ACA-B/GT Connectors
## contact arrangements

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

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

| | | | | | |
|---|---|---|---|---|---|
| | | | |  100° Rotation of 14S-2 |  100° Rotation of 14S-7 |
| **Insert Arrangement** | **14S-6** | **14S-7** | **14S-9** | **14S-10** | **14S-12** |
| **Service Rating** | **Inst.** | **A** | **A** | **Inst.** | **A** |
| **Number of Contacts** | **6** | **3** | **2** | **4** | **3** |
| **Contact Size** | **16** | **16** | **16** | **16** | **16** |

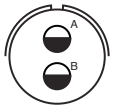
| | | | | | |
|---|---|---|---|---|---|
| | | | |  |  |
| **Insert Arrangement** | **14S-A7** | **16S-1** | **16S-3** | **16S-4** | **16S-5** |
| **Service Rating** | **A** | **A** | **B** | **D** | **A** |
| **Number of Contacts** | **7** | **7** | **1** | **2** | **3** |
| **Contact Size** | **16** | **16** | **16** | **16** | **16** |

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

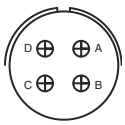
**CONTACT LEGEND** **16 12 8 4 0**

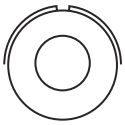
# ACA-B/GT Connectors
## contact arrangements

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

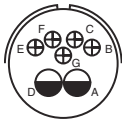
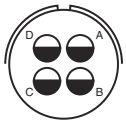


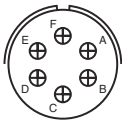
| Insert Arrangement | 16-10 | 16-11 | 16-12 | 16-13 | 16-59 |
|---|---|---|---|---|---|
| Service Rating | A | A | A | A | A |
| Number of Contacts | 3 | 2 | 1 | 2* | 4 |
| Contact Size | 12 | 12 | 4 | 12 | 12 |



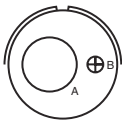
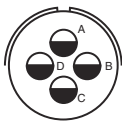


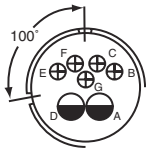
| Insert Arrangement | 18-1 | 18-3 | 18-4 | 18-5 | 18-6 | 18-7 |
|---|---|---|---|---|---|---|
| Service Rating | B, C, F, G = A; Bal. = Inst. | D | D | D | D | B |
| Number of Contacts | 10 | 2 | 4 | 2 1 | 1 | 1 |
| Contact Size | 16 | 12 | 16 | 12 16 | 4 | 8 |

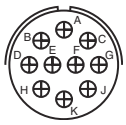
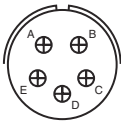





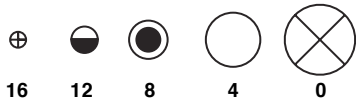
| Insert Arrangement | 18-8 | 18-9 | 18-10 | 18-11 | 18-12 | 18-13 |
|---|---|---|---|---|---|---|
| Service Rating | A | Inst. | A | A | A | A |
| Number of Contacts | 1 7 | 2 5 | 4 | 5 | 6 | 1 3 |
| Contact Size | 12 16 | 12 16 | 12 | 12 | 16 | 8 12 |



100° Rotation of 18-9



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

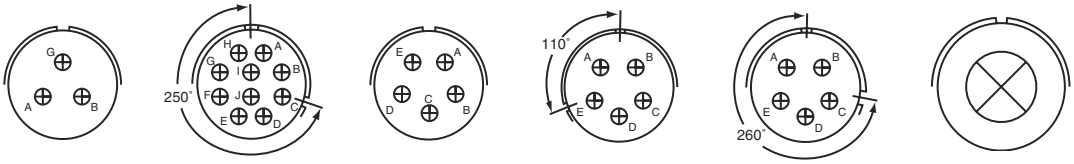


**CONTACT LEGEND** 16 12 8 4 0

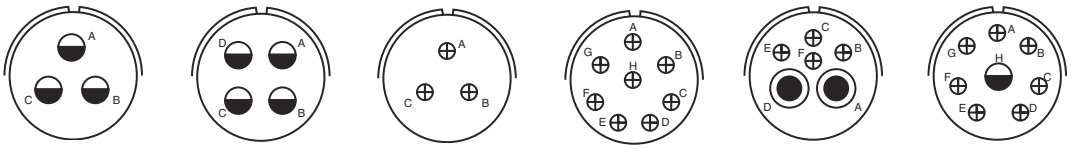
* A = Iron; B = Constantan
**A, C = Iron; B, D = Constantan

# ACA-B/GT Connectors
## contact arrangements

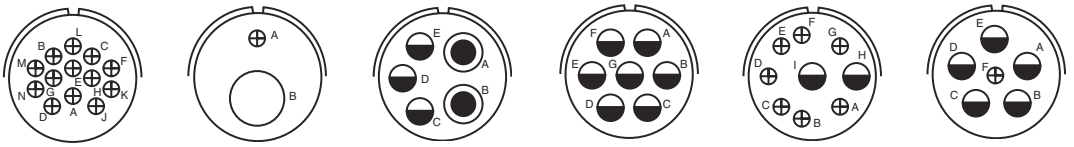
**front face of pin insert or rear face of socket insert illustrated**




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



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



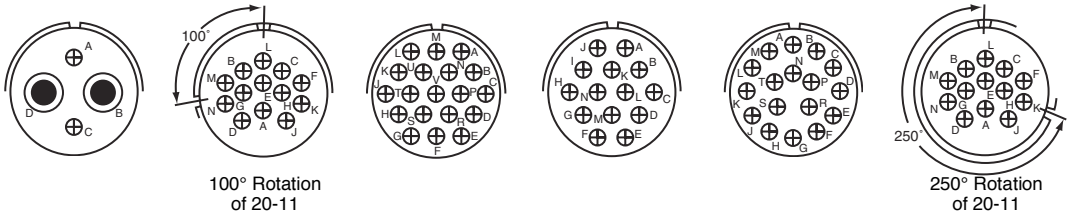
| | | | | | | |
|---|---|---|---|---|---|---|
| **Insert Arrangement** | **20-11** | **20-12** | **20-14** | **20-15** | **20-16** | **20-17** |
| **Service Rating** | **Inst.** | **A** | **A** | **A** | **A** | **A** |
| **Number of Contacts** | **13** | **1 1** | **2 3** | **7** | **2 7** | **5 1**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

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

# ACA-B/GT Connectors
## contact arrangements

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

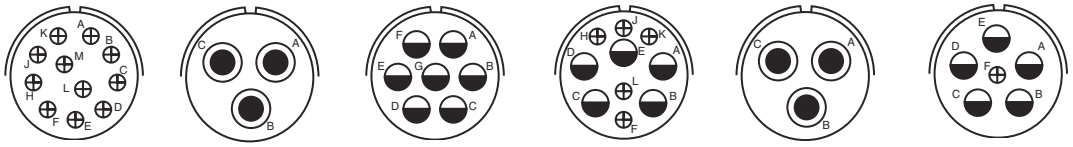
| | | | | | | |
|---|---|---|---|---|---|---|
| **Insert Arrangement** | **20-18** | **20-19** | **20-20** | **20-21** | **20-22** | **20-23** |
| **Service Rating** | **A** | **A** | **A** | **A** | **A** | **A** |
| **Number of Contacts** | **3 6** | **3** | **1 3** | **1 8** | **3 3** | **2** |
|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




100° Rotation of 20-11

250° Rotation of 20-11

| | | | | | | |
|---|---|---|---|---|---|---|
| **Insert Arrangement** | **20-24** | **20-25** | **20-26** | **20-27** | **20-29** | **20-30** |
| **Service Rating** | **A** | **Inst.** | **A** | **A** | **A** | **Inst.** |
| **Number of Contacts** | **2 2** | **13** | **19** | **14** | **17** | **13** |
| **Contact Size** | **8 16** | **16** | **16** | **16** | **16** | **16** |



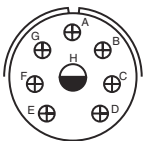
| | | | | | | |
|---|---|---|---|---|---|---|
| **Insert Arrangement** | **20-33** | **20-51** | **20-57** | **20-58** | **20-59** | **20-66** |
| **Service Rating** | **A** | **A** | **A** | **A** | **A** | **A** |
| **Number of Contacts** | **11** | **3*** | **7*** | **5 5** | **3*** | **1 5** |
|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

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

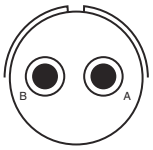
* Solderless

# ACA-B/GT Connectors
## contact arrangements

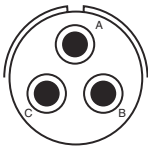
**front face of pin insert or rear face of socket insert illustrated**



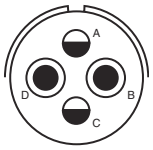

| | |
|---|---|
| **Insert Arrangement** | **20-79** |
| **Service Rating** | **H=D; Bal. = A** |
| **Number of Contacts** | **7*  1*** |
| **Contact Size** | **16  12 for #16 wire** |



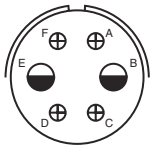

| | |
|---|---|
| **Insert Arrangement** | **22-1** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2** |
| **Contact Size** | **8** |



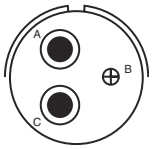

| | |
|---|---|
| **Insert Arrangement** | **22-2** |
| **Service Rating** | **D** |
| **Number of Contacts** | **3** |
| **Contact Size** | **8** |




| | |
|---|---|
| **Insert Arrangement** | **22-4** |
| **Service Rating** | **A** |
| **Number of Contacts** | **2  2** |
| **Contact Size** | **8  12** |



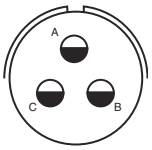

| | |
|---|---|
| **Insert Arrangement** | **22-5** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2  4** |
| **Contact Size** | **12  16** |



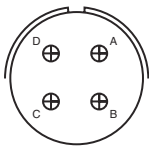

| | |
|---|---|
| **Insert Arrangement** | **22-6** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2  1** |
| **Contact Size** | **8  16** |

| | |
|---|---|
| **Insert Arrangement** | **22-7** |
| **Service Rating** | **E** |
| **Number of Contacts** | **1** |
| **Contact Size** | **0** |

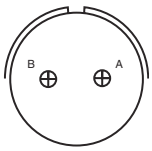
| | |
|---|---|
| **Insert Arrangement** | **22-8** |
| **Service Rating** | **E** |
| **Number of Contacts** | **2** |
| **Contact Size** | **12** |



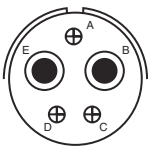

| | |
|---|---|
| **Insert Arrangement** | **22-9** |
| **Service Rating** | **E** |
| **Number of Contacts** | **3** |
| **Contact Size** | **12** |



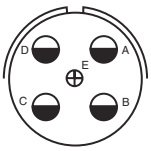

| | |
|---|---|
| **Insert Arrangement** | **22-10** |
| **Service Rating** | **E** |
| **Number of Contacts** | **4** |
| **Contact Size** | **16** |




| | |
|---|---|
| **Insert Arrangement** | **22-11** |
| **Service Rating** | **B** |
| **Number of Contacts** | **2** |
| **Contact Size** | **16** |

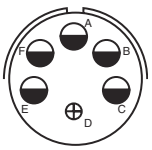



| | |
|---|---|
| **Insert Arrangement** | **22-12** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2  3** |
| **Contact Size** | **8  16** |




| | |
|---|---|
| **Insert Arrangement** | **22-13** |
| **Service Rating** | **E = D; A, B, C, D = A** |
| **Number of Contacts** | **4  1** |
| **Contact Size** | **12  16** |

| | |
|---|---|
| **Insert Arrangement** | **22-14** |
| **Service Rating** | **A** |
| **Number of Contacts** | **19** |
| **Contact Size** | **16** |



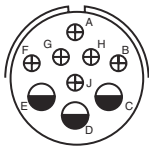

| | |
|---|---|
| **Insert Arrangement** | **22-15** |
| **Service Rating** | **D = E; A, B, C, E, F = A** |
| **Number of Contacts** | **5  1** |
| **Contact Size** | **12  16** |

* Solderless

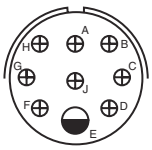
**CONTACT LEGEND** **16  12  8  4  0**

# ACA-B/GT Connectors
## contact arrangements

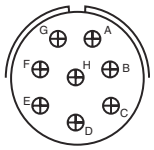
**front face of pin insert or rear face of socket insert illustrated**



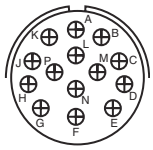

| | |
|---|---|
| **Insert Arrangement** | **22-16** |
| **Service Rating** | **A** |
| **Number of Contacts** | **3 6** |
| **Contact Size** | **12 16** |



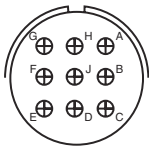

| | |
|---|---|
| **Insert Arrangement** | **22-17** |
| **Service Rating** | **A = D; Bal. = A** |
| **Number of Contacts** | **1 8** |
| **Contact Size** | **12 16** |



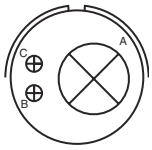

| | |
|---|---|
| **Insert Arrangement** | **22-18** |
| **Service Rating** | **A, B, F, G, H = D; C, D, E = A** |
| **Number of Contacts** | **8** |
| **Contact Size** | **16** |



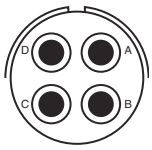

| | |
|---|---|
| **Insert Arrangement** | **22-19** |
| **Service Rating** | **A** |
| **Number of Contacts** | **14** |
| **Contact Size** | **16** |



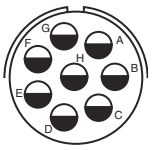

| | |
|---|---|
| **Insert Arrangement** | **22-20** |
| **Service Rating** | **A** |
| **Number of Contacts** | **9** |
| **Contact Size** | **16** |



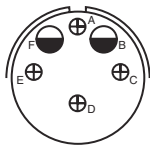

| | |
|---|---|
| **Insert Arrangement** | **22-21** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1 2** |
| **Contact Size** | **0 16** |



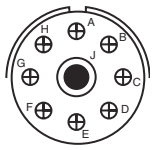

| | |
|---|---|
| **Insert Arrangement** | **22-22** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4** |
| **Contact Size** | **8** |



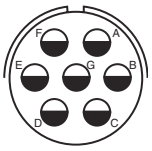

| | |
|---|---|
| **Insert Arrangement** | **22-23** |
| **Service Rating** | **H = D; Bal. = A** |
| **Number of Contacts** | **8** |
| **Contact Size** | **12** |



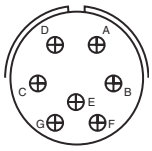

| | |
|---|---|
| **Insert Arrangement** | **22-24** |
| **Service Rating** | **C, D, E = D; A, B, F = A** |
| **Number of Contacts** | **2 4** |
| **Contact Size** | **12 16** |



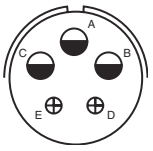

| | |
|---|---|
| **Insert Arrangement** | **22-27** |
| **Service Rating** | **J = D; Bal. = A** |
| **Number of Contacts** | **1 8** |
| **Contact Size** | **8 16** |



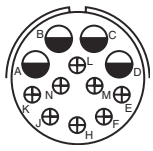

| | |
|---|---|
| **Insert Arrangement** | **22-28** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7** |
| **Contact Size** | **12** |



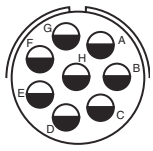

| | |
|---|---|
| **Insert Arrangement** | **22-33** |
| **Service Rating** | **A, B, C, D = D; E. F. G = A** |
| **Number of Contacts** | **7** |
| **Contact Size** | **16** |




| | |
|---|---|
| **Insert Arrangement** | **22-34** |
| **Service Rating** | **D** |
| **Number of Contacts** | **3 2** |
| **Contact Size** | **12 16** |




| | |
|---|---|
| **Insert Arrangement** | **22-63** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4 8** |
| **Contact Size** | **12 16** |



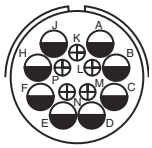
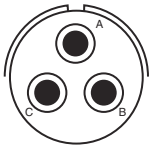
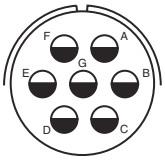
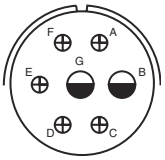
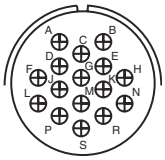

| | |
|---|---|
| **Insert Arrangement** | **22-65** |
| **Service Rating** | **H = D; Bal. = A** |
| **Number of Contacts** | **8*** |
| **Contact Size** | **12 for #14 or 16 wire** |

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

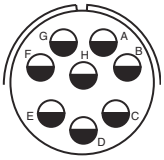
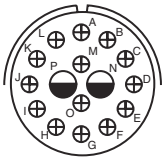
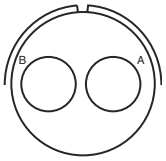
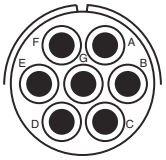
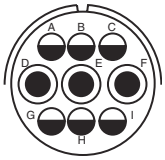
* Solderless

# ACA-B/GT Connectors
## contact arrangements

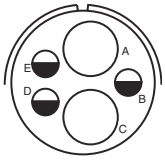
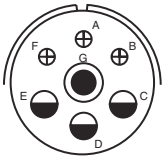
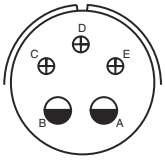
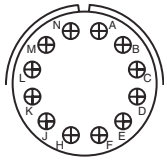
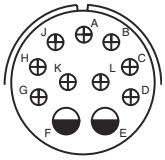
**front face of pin insert or rear face of socket insert illustrated**

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

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

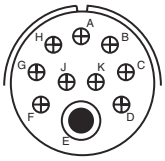
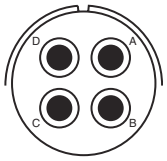
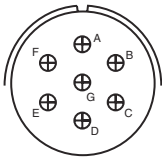
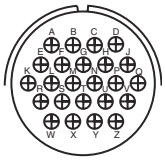
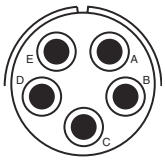
| Insert Arrangement | 24-12 | 24-16 | 24-17 | 24-19 | 24-20 |
|---|---|---|---|---|---|
| Service Rating | A | A, B, F, G = D; C, D, E = A | D | A | D |
| Number of Contacts | 2 3 | 1 3 3 | 2 3 | 12 | 2 9 |
| Contact Size | 4 12 | 8 12 16 | 12 16 | 16 | 12 16 |

**CONTACT LEGEND** 16 12 8 4 0

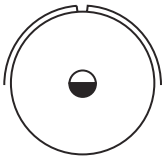
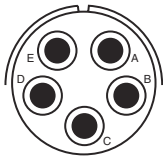
* Solderless

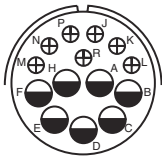
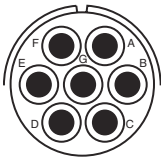
# ACA-B/GT Connectors
## contact arrangements

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

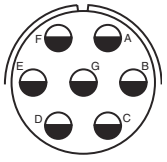
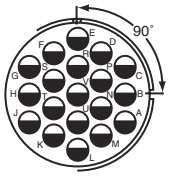
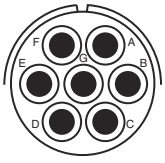
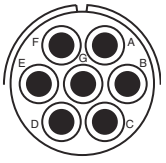






| Insert Arrangement | 24-21 | 24-22 | 24-27 | 24-28 | 24-51 |
|---|---|---|---|---|---|
| Service Rating | D | D | E | Inst. | A |
| Number of Contacts | 1 9 | 4 | 7 | 24 | 5* |
| Contact Size | 8 16 | 8 | 16 | 16 | B, E for AN #10 or 12 wire<br>A, C, D for AN #8 wire |

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

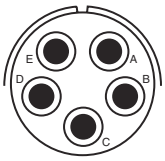
| Insert Arrangement | 24-65 | 24-66 | 24-67 | 24-71 | 24-75 |
|---|---|---|---|---|---|
| Service Rating | A | D | Inst. | A | A |
| Number of Contacts | 11 4 | 7 | 19 | 2* 5* | 5 2 |
| Contact Size | 12 16 | 12 | 12 | 8 8 for #10 or 12 wire | 8 8 for #16 wire |

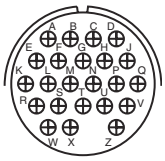
| CONTACT LEGEND | 16 | 12 | 8 | 4 | 0 |
|---|---|---|---|---|---|

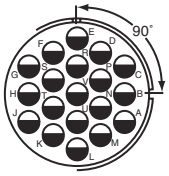
* Solderless

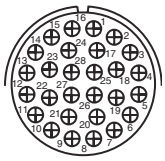
# ACA-B/GT Connectors
## contact arrangements

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

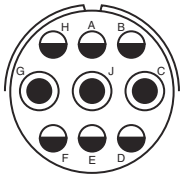


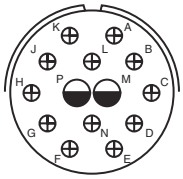



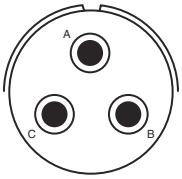



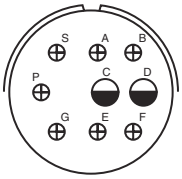



| Insert Arrangement | 24-79 | 24-80 | 24-84 | 24-96 | 24-AJ |
|---|---|---|---|---|---|
| Service Rating | A | Inst. | A | Inst. | A |
| Number of Contacts | 5 | 23 | 1 18 | 28 | 25 |
| Contact Size | 8 | 16 | 12 12 (Coax) RG-188/U or RG-174/U | 16 | 16 |

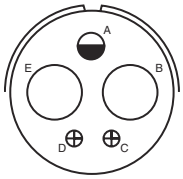


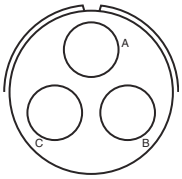



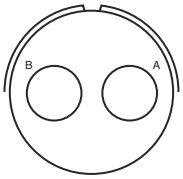



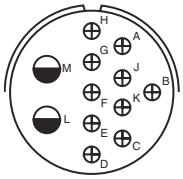




| Insert Arrangement | 28-1 | 28-2 | 28-3 | 28-4 |
|---|---|---|---|---|
| Service Rating | A, J, E = D; Bal. = A | D | E | G, P, S = E; Bal. = D |
| Number of Contacts | 3 6 | 2 12 | 3 | 2 7 |
| Contact Size | 8 12 | 12 16 | 8 | 12 16 |



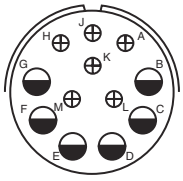




| Insert Arrangement | 28-5 | 28-6 | 28-7 | 28-8 |
|---|---|---|---|---|
| Service Rating | D | D | D | L, M = E; B = D; Bal. = A |
| Number of Contacts | 2 1 2 | 3 | 2 | 2 10 |
| Contact Size | 4 12 16 | 4 | 4 | 12 16 |

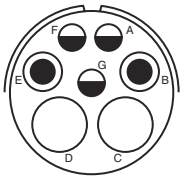
CONTACT LEGEND 16 12 8 4 0

# ACA-B/GT Connectors
## contact arrangements

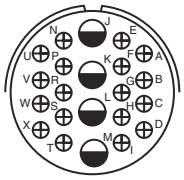
**front face of pin insert or rear face of socket insert illustrated**



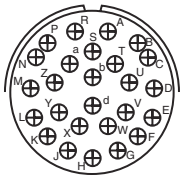
| | |
|---|---|
| **Insert Arrangement** | **28-9** |
| **Service Rating** | **D** |
| **Number of Contacts** | **6 6** |
| **Contact Size** | **12 16** |



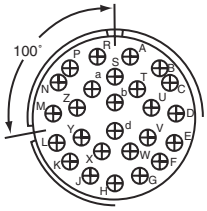
| | |
|---|---|
| **Insert Arrangement** | **28-10** |
| **Service Rating** | **G = D; Bal. = A** |
| **Number of Contacts** | **2 2 3** |
| **Contact Size** | **4 8 12** |



| | |
|---|---|
| **Insert Arrangement** | **28-11** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4 18** |
| **Contact Size** | **12 16** |

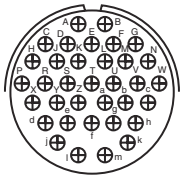


| | |
|---|---|
| **Insert Arrangement** | **28-12** |
| **Service Rating** | **A** |
| **Number of Contacts** | **26** |
| **Contact Size** | **16** |

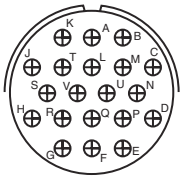



100° Rotation of 28-12

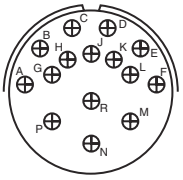
| | |
|---|---|
| **Insert Arrangement** | **28-13** |
| **Service Rating** | **A** |
| **Number of Contacts** | **26** |
| **Contact Size** | **16** |



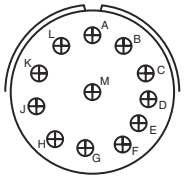
| | |
|---|---|
| **Insert Arrangement** | **28-15** |
| **Service Rating** | **A** |
| **Number of Contacts** | **35** |
| **Contact Size** | **16** |



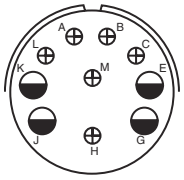
| | |
|---|---|
| **Insert Arrangement** | **28-16** |
| **Service Rating** | **A** |
| **Number of Contacts** | **20** |
| **Contact Size** | **16** |



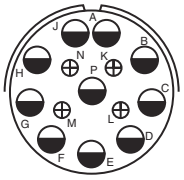
| | |
|---|---|
| **Insert Arrangement** | **28-17** |
| **Service Rating** | **R = B; M, N, P = D; A to L = A** |
| **Number of Contacts** | **15** |
| **Contact Size** | **16** |



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



| | |
|---|---|
| **Insert Arrangement** | **28-19** |
| **Service Rating** | **H, M = B; A, B, = D; Bal. = A** |
| **Number of Contacts** | **4 6** |
| **Contact Size** | **12 16** |



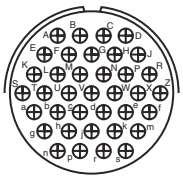
| | |
|---|---|
| **Insert Arrangement** | **28-20** |
| **Service Rating** | **A** |
| **Number of Contacts** | **10 4** |
| **Contact Size** | **12 16** |

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

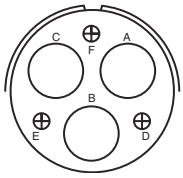
* Solderless

# ACA-B/GT Connectors
## contact arrangements

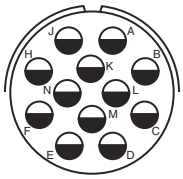
**front face of pin insert or rear face of socket insert illustrated**



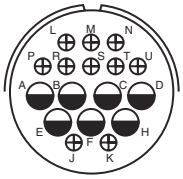
| | |
|---|---|
| **Insert Arrangement** | **28-21** |
| **Service Rating** | **A** |
| **Number of Contacts** | **37** |
| **Contact Size** | **16** |



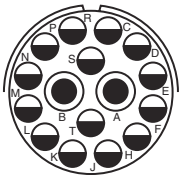
| | |
|---|---|
| **Insert Arrangement** | **28-22** |
| **Service Rating** | **D** |
| **Number of Contacts** | **3 3** |
| **Contact Size** | **4 16** |



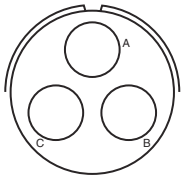
| | |
|---|---|
| **Insert Arrangement** | **28-51** |
| **Service Rating** | **A** |
| **Number of Contacts** | **12** |
| **Contact Size** | **12** |



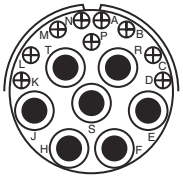
| | |
|---|---|
| **Insert Arrangement** | **28-59** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7 10** |
| **Contact Size** | **12 16** |



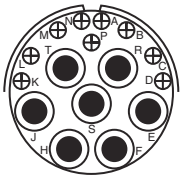
| | |
|---|---|
| **Insert Arrangement** | **28-66** |
| **Service Rating** | **A** |
| **Number of Contacts** | **2 14** |
| **Contact Size** | **8 12** |



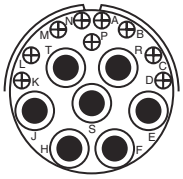
| | |
|---|---|
| **Insert Arrangement** | **28-72** |
| **Service Rating** | **–** |
| **Number of Contacts** | **3** |
| **Contact Size** | **4 (Coax) RG-59A/U or RG-62A/U** |



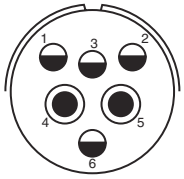
| | |
|---|---|
| **Insert Arrangement** | **28-74** |
| **Service Rating** | **A** |
| **Number of Contacts** | **9* 4* 3*** |
| **Contact Size** | **16 8 8 for #10 wire (S, T, R)** |



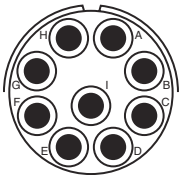
| | |
|---|---|
| **Insert Arrangement** | **28-75** |
| **Service Rating** | **A** |
| **Number of Contacts** | **9* 7*** |
| **Contact Size** | **16 8 for #10 wire** |



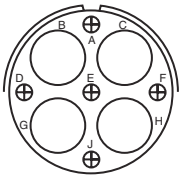
| | |
|---|---|
| **Insert Arrangement** | **28-79** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7 9** |
| **Contact Size** | **8 16** |



| | |
|---|---|
| **Insert Arrangement** | **28-82** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2 4** |
| **Contact Size** | **8 12** |



| | |
|---|---|
| **Insert Arrangement** | **28-84** |
| **Service Rating** | **A** |
| **Number of Contacts** | **9** |
| **Contact Size** | **8** |



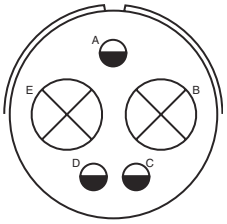
| | |
|---|---|
| **Insert Arrangement** | **28-AY** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4 5** |
| **Contact Size** | **4 16** |

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

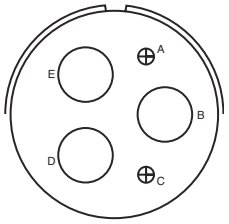
* Solderless

# ACA-B/GT Connectors
## contact arrangements

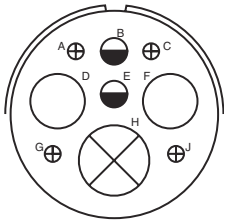
**front face of pin insert or rear face of socket insert illustrated**



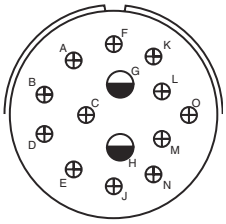

| | |
|---|---|
| **Insert Arrangement** | **32-1** |
| **Service Rating** | **A = E; B, C, D, E = D** |
| **Number of Contacts** | **2 3** |
| **Contact Size** | **0 12** |



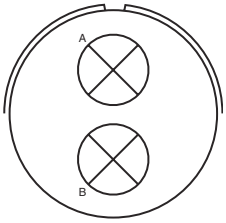

| | |
|---|---|
| **Insert Arrangement** | **32-2** |
| **Service Rating** | **E** |
| **Number of Contacts** | **3 2** |
| **Contact Size** | **4 16** |



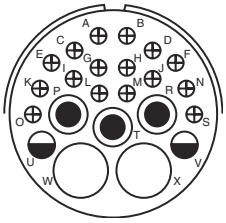

| | |
|---|---|
| **Insert Arrangement** | **32-3** |
| **Service Rating** | **D** |
| **Number of Contacts** | **1 2 2 4** |
| **Contact Size** | **0 4 12 16** |



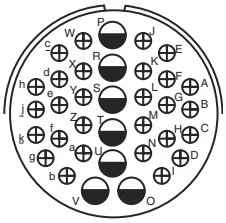

| | |
|---|---|
| **Insert Arrangement** | **32-4** |
| **Service Rating** | **F, J, K, N = A:, Bal. = D** |
| **Number of Contacts** | **2 12** |
| **Contact Size** | **12 16** |



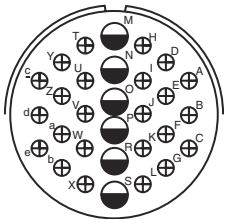

| | |
|---|---|
| **Insert Arrangement** | **32-5** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2** |
| **Contact Size** | **0** |



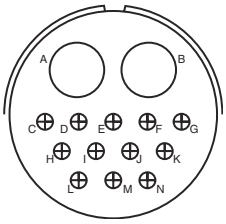

| | |
|---|---|
| **Insert Arrangement** | **32-6** |
| **Service Rating** | **A** |
| **Number of Contacts** | **2 3 2 16** |
| **Contact Size** | **4 8 12 16** |



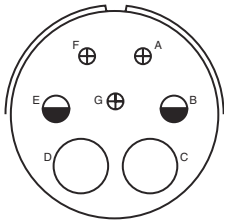

| | |
|---|---|
| **Insert Arrangement** | **32-7** |
| **Service Rating** | **A, B, h, j = Inst.; Bal. = A** |
| **Number of Contacts** | **7 28** |
| **Contact Size** | **12 16** |



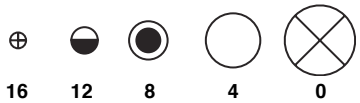

| | |
|---|---|
| **Insert Arrangement** | **32-8** |
| **Service Rating** | **A** |
| **Number of Contacts** | **6 24** |
| **Contact Size** | **12 16** |




| | |
|---|---|
| **Insert Arrangement** | **32-9** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2 12** |
| **Contact Size** | **4 16** |



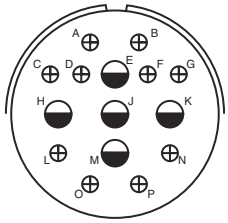

| | |
|---|---|
| **Insert Arrangement** | **32-10** |
| **Service Rating** | **A, F = E; G = B; B, E = D; C, D = A** |
| **Number of Contacts** | **2 2 3** |
| **Contact Size** | **4 8 16** |



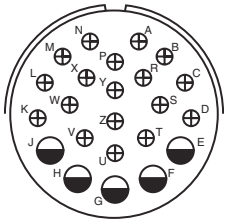
| | | | | | |
|---|---|---|---|---|---|
| **CONTACT LEGEND** | **16** | **12** | **8** | **4** | **0** |

# ACA-B/GT Connectors
## contact arrangements

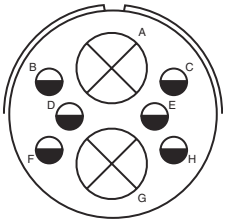
**front face of pin insert or rear face of socket insert illustrated**



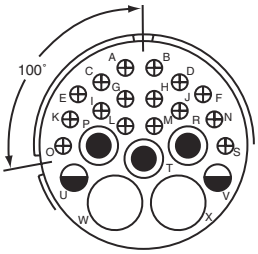
| | |
|---|---|
| **Insert Arrangement** | **32-12** |
| **Service Rating** | **C, D, E, F, G = A; Bal. = D** |
| **Number of Contacts** | **5 10** |
| **Contact Size** | **12 16** |



| | |
|---|---|
| **Insert Arrangement** | **32-13** |
| **Service Rating** | **D** |
| **Number of Contacts** | **5 18** |
| **Contact Size** | **12 16** |

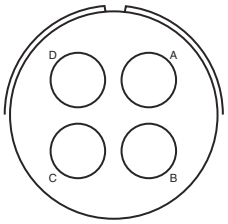


| | |
|---|---|
| **Insert Arrangement** | **32-15** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2 6** |
| **Contact Size** | **0 12** |

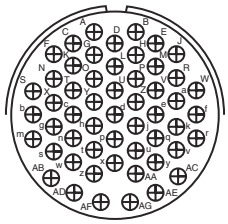



100° Rotation of 32-6

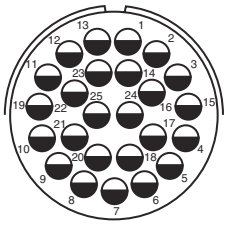
| | |
|---|---|
| **Insert Arrangement** | **32-16** |
| **Service Rating** | **A** |
| **Number of Contacts** | **2 3 2 16** |
| **Contact Size** | **4 8 12 16** |



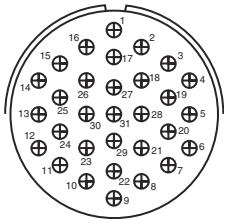
| | |
|---|---|
| **Insert Arrangement** | **32-17** |
| **Service Rating** | **D** |
| **Number of Contacts** | **4** |
| **Contact Size** | **4** |



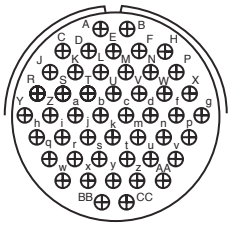
| | |
|---|---|
| **Insert Arrangement** | **32-22** |
| **Service Rating** | **A** |
| **Number of Contacts** | **54** |
| **Contact Size** | **16** |



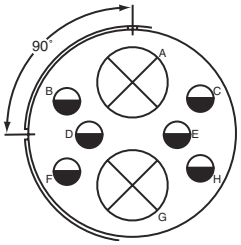
| | |
|---|---|
| **Insert Arrangement** | **32-25** |
| **Service Rating** | **A** |
| **Number of Contacts** | **25** |
| **Contact Size** | **12** |



| | |
|---|---|
| **Insert Arrangement** | **32-31** |
| **Service Rating** | **A** |
| **Number of Contacts** | **31** |
| **Contact Size** | **16** |

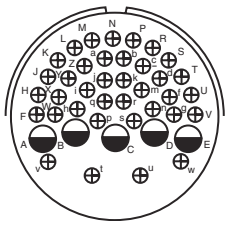


| | |
|---|---|
| **Insert Arrangement** | **32-48** |
| **Service Rating** | **Inst.** |
| **Number of Contacts** | **48** |
| **Contact Size** | **16** |

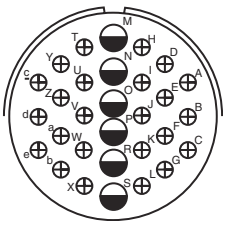



90° CW Rotation of 32-15

| | |
|---|---|
| **Insert Arrangement** | **32-52** |
| **Service Rating** | **D** |
| **Number of Contacts** | **2 6** |
| **Contact Size** | **0 12** |



| | |
|---|---|
| **Insert Arrangement** | **32-53** |
| **Service Rating** | **t, u = E; Bal. = Inst.** |
| **Number of Contacts** | **5 37** |
| **Contact Size** | **12 16** |

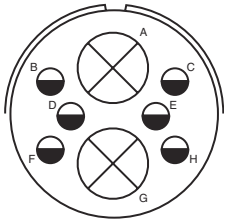


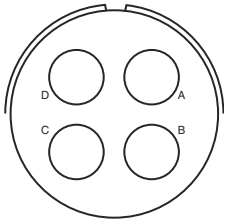
| | |
|---|---|
| **Insert Arrangement** | **32-56** |
| **Service Rating** | **A** |
| **Number of Contacts** | **24 6** |
| **Contact Size** | **16 12 for #10 wire** |

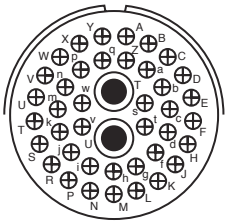
**CONTACT LEGEND** **16 12 8 4 0**

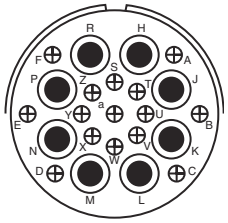
# ACA-B/GT Connectors
## contact arrangements

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

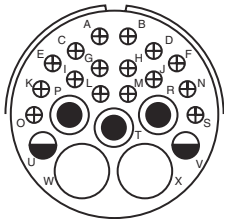


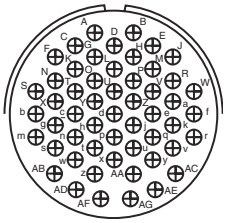



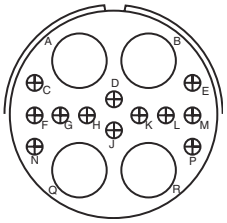





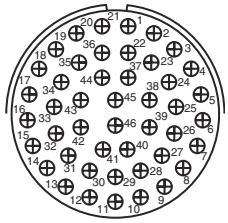
| Insert Arrangement | 32-57 | | 32-58 | 32-59 | | 32-60 | |
|---|---|---|---|---|---|---|---|
| Service Rating | ** | | – | A | | A | |
| Number of Contacts | 6 | 2 | 4 | 40 | 2 | 15 | 8 |
| Contact Size | 12 | 0 (Coax) RG-71/U | 4 (Coax) RG-161/U or RG-179/U | 16 | 8 (Coax) RG-161/U | 16 | 8 (Coax)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

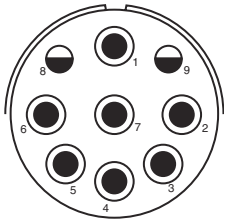


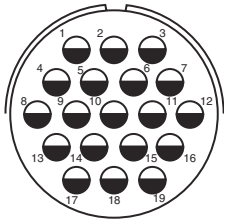


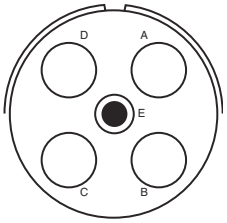


| Insert Arrangement | 32-62 | | | | | 32-64 | 32-68 | |
|---|---|---|---|---|---|---|---|---|
| Service Rating | ** | | | | | Inst. | A | |
| Number of Contacts | 2 | 1 | 2 | 16 | 2 | 54 | 12 | 4 |
| Contact Size | 4 | 8 | 12 | 16 | 8 (Coax) RG-124/U | 16 | 16 | 4 (Coax) RG-58C/U |

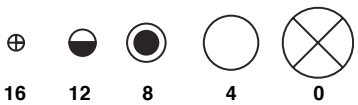








| Insert Arrangement | 32-73 | 32-75 | | 32-76 | 32-79 | |
|---|---|---|---|---|---|---|
| Service Rating | A | 8, 9 = D | | A | D | |
| Number of Contacts | 46 | 2 | 7 | 19 | 4 | 1 |
| Contact Size | 16 | 12 | 8 (Coax) RG-180B/U | 12 | 4 | 8 |

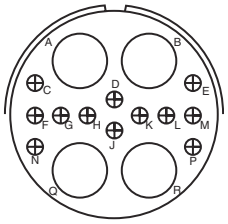


| CONTACT LEGEND | 16 | 12 | 8 | 4 | 0 |
|---|---|---|---|---|---|

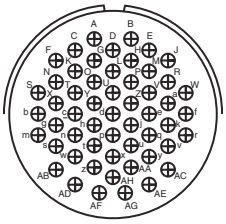
** Consult Amphenol, Sidney, NY for service rating of power contacts.

# ACA-B/GT Connectors
## contact arrangements

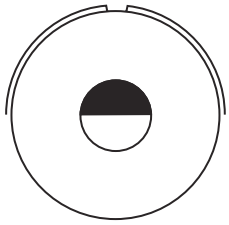
**front face of pin insert or rear face of socket insert illustrated**



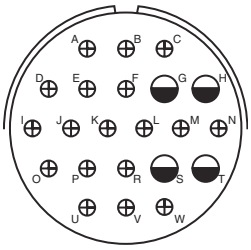

| | |
|---|---|
| **Insert Arrangement** | **32-82** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4 12** |
| **Contact Size** | **4 16** |



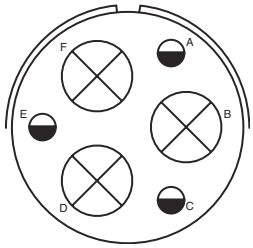

| | |
|---|---|
| **Insert Arrangement** | **32-AF** |
| **Service Rating** | **A** |
| **Number of Contacts** | **55** |
| **Contact Size** | **16** |



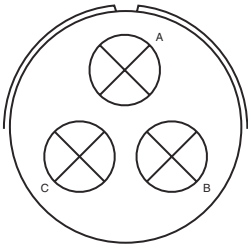
| | |
|---|---|
| **Insert Arrangement** | **32-AM** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1** |
| **Contact Size** | **4/0** |



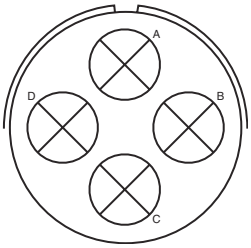

| | |
|---|---|
| **Insert Arrangement** | **36-1** |
| **Service Rating** | **D** |
| **Number of Contacts** | **4 18** |
| **Contact Size** | **12 16** |



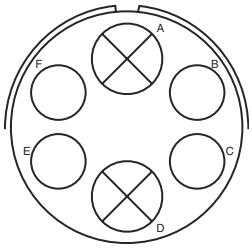

| | |
|---|---|
| **Insert Arrangement** | **36-3** |
| **Service Rating** | **D** |
| **Number of Contacts** | **3 3** |
| **Contact Size** | **0 12** |



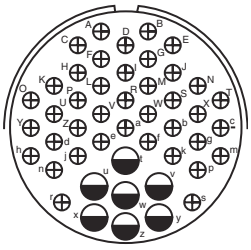

| | |
|---|---|
| **Insert Arrangement** | **36-4** |
| **Service Rating** | **A = D; B, C = A** |
| **Number of Contacts** | **3** |
| **Contact Size** | **0** |



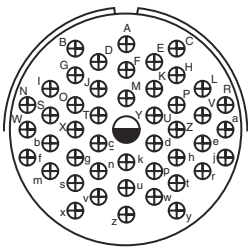

| | |
|---|---|
| **Insert Arrangement** | **36-5** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4** |
| **Contact Size** | **0** |



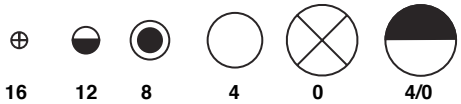

| | |
|---|---|
| **Insert Arrangement** | **36-6** |
| **Service Rating** | **A** |
| **Number of Contacts** | **2 4** |
| **Contact Size** | **0 4** |



| | |
|---|---|
| **Insert Arrangement** | **36-7** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7 40** |
| **Contact Size** | **12 16** |



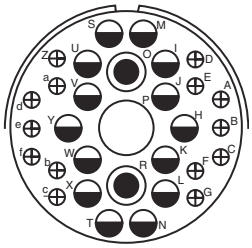
| | |
|---|---|
| **Insert Arrangement** | **36-8** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1 46** |
| **Contact Size** | **12 16** |



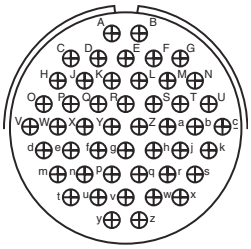
| | | | | | | |
|---|---|---|---|---|---|---|
| **CONTACT LEGEND** | **16** | **12** | **8** | **4** | **0** | **4/0** |

# ACA-B/GT Connectors
## contact arrangements

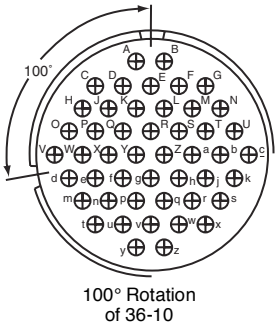
**front face of pin insert or rear face of socket insert illustrated**



| | |
|---|---|
| **Insert Arrangement** | **36-9** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1 2 14 14** |
| **Contact Size** | **4 8 12 16** |

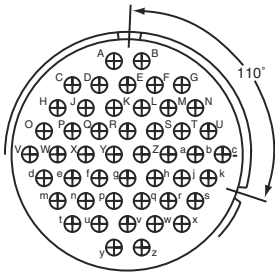


| | |
|---|---|
| **Insert Arrangement** | **36-10** |
| **Service Rating** | **A** |
| **Number of Contacts** | **48** |
| **Contact Size** | **16** |



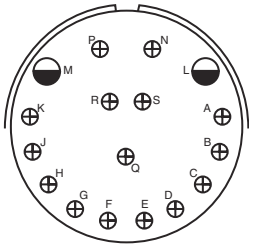
100° Rotation of 36-10

| | |
|---|---|
| **Insert Arrangement** | **36-11** |
| **Service Rating** | **A** |
| **Number of Contacts** | **48** |
| **Contact Size** | **16** |

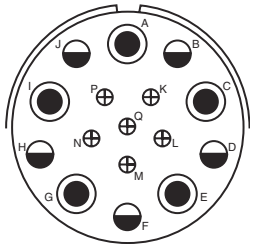


110° Rotation of 36-10

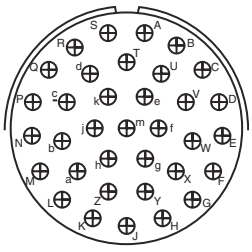
| | |
|---|---|
| **Insert Arrangement** | **36-12** |
| **Service Rating** | **A** |
| **Number of Contacts** | **48** |
| **Contact Size** | **16** |



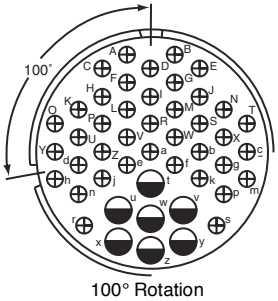
| | |
|---|---|
| **Insert Arrangement** | **36-13** |
| **Service Rating** | **N, P, Q = E; Bal. = A** |
| **Number of Contacts** | **2 15** |
| **Contact Size** | **12 16** |



| | |
|---|---|
| **Insert Arrangement** | **36-14** |
| **Service Rating** | **D** |
| **Number of Contacts** | **5 5 6** |
| **Contact Size** | **8 12 16** |

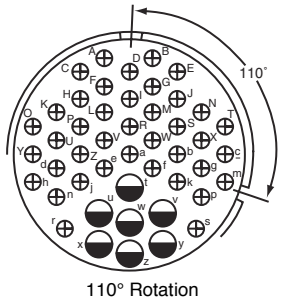


| | |
|---|---|
| **Insert Arrangement** | **36-15** |
| **Service Rating** | **M = D; Bal. = A** |
| **Number of Contacts** | **35** |
| **Contact Size** | **16** |



100° Rotation of 36-7

| | |
|---|---|
| **Insert Arrangement** | **36-16** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7 40** |
| **Contact Size** | **12 16** |



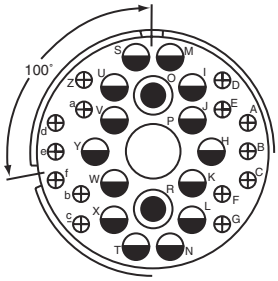
110° Rotation of 36-7

| | |
|---|---|
| **Insert Arrangement** | **36-17** |
| **Service Rating** | **A** |
| **Number of Contacts** | **7 40** |
| **Contact Size** | **12 16** |

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

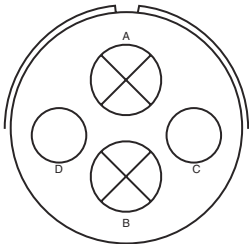
# ACA-B/GT Connectors
## contact arrangements

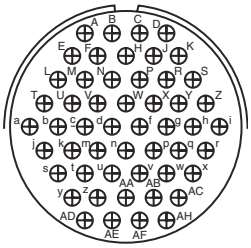
**front face of pin insert or rear face of socket insert illustrated**

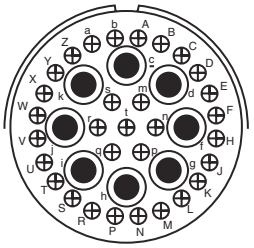



100° Rotation
of 36-9

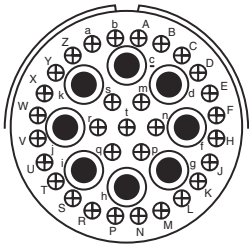
| Insert Arrangement | 36-18 | 36-20 | 36-22 |
|---|---|---|---|
| Service Rating | A | A | D |
| Number of Contacts | 1 2 14 14 | 2 2 30 | 22 |
| Contact Size | 4 8 12 16 | 8 12 16 | 12 |

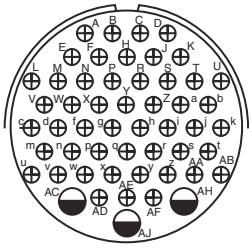


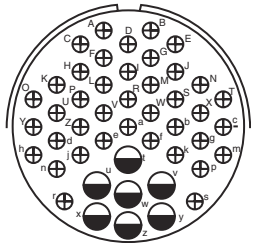




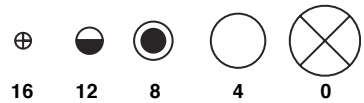
| Insert Arrangement | 36-51 | 36-52 | 36-54 |
|---|---|---|---|
| Service Rating | D | A | A |
| Number of Contacts | 2 2 | 52 | 8 31 |
| Contact Size | 0 4 | 16 | 8 16 |







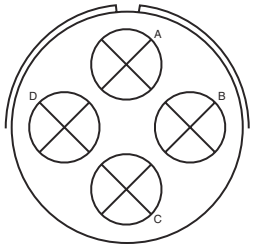
| Insert Arrangement | 36-55 | 36-59 | 36-60 |
|---|---|---|---|
| Service Rating | A | A | A |
| Number of Contacts | 31 8 | 50 3 | 40 7 |
| Contact Size | 16 8 for #6 wire | 16 12 for #10 wire | 16 12 for #10 wire |

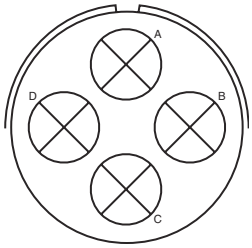


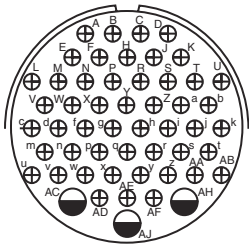
CONTACT LEGEND 16 12 8 4 0

# ACA-B/GT Connectors
## contact arrangements

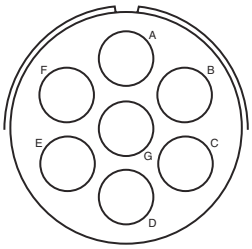
**front face of pin insert or rear face of socket insert illustrated**

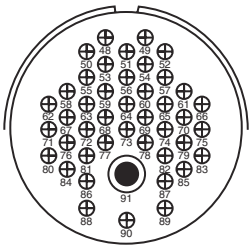


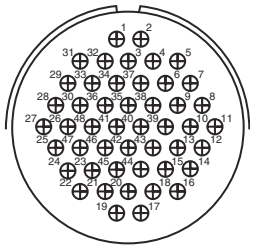



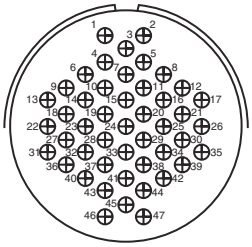

| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-64** | **36-65** | **36-71** |
| **Service Rating** | **–** | **–** | **A** |
| **Number of Contacts** | **4** | **4** | **3 50** |
| **Contact Size** | **0 (Coax) RG-11/U RG-12/U, or RG-13/U** | **0 (Coax) RG-59/U, RG-62/U or RG-71/U** | **12 16** |

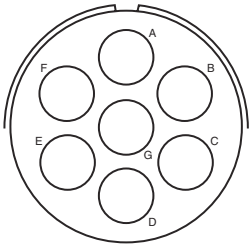


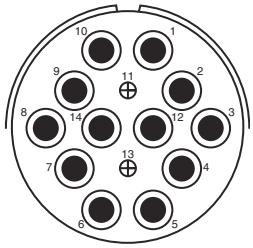





| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-73** | **36-74** | **36-75** |
| **Service Rating** | **–** | **A** | **A** |
| **Number of Contacts** | **7** | **43 1** | **48** |
| **Contact Size** | **4 (Coax) RG-62B/U** | **16 8 (Coax) RG-187/B** | **16 for #14 wire** |





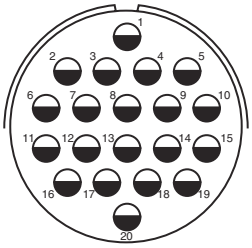



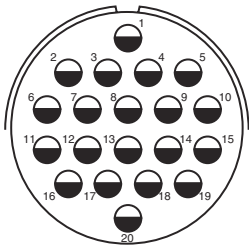
| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-76** | **36-77** | **36-78** |
| **Service Rating** | **A** | **D** | **A** |
| **Number of Contacts** | **47** | **7** | **2 12** |
| **Contact Size** | **16** | **4** | **16 8** |

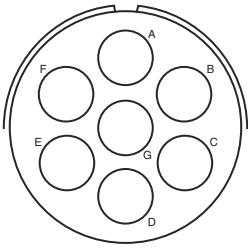
| | | | | | |
|---|---|---|---|---|---|
| **CONTACT LEGEND** | **16** | **12** | **8** | **4** | **0** |

# ACA-B/GT Connectors
## contact arrangements

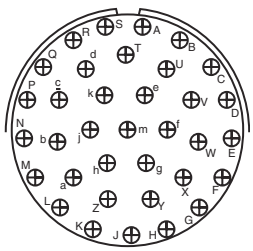
**front face of pin insert or rear face of socket insert illustrated**

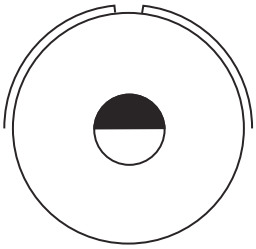


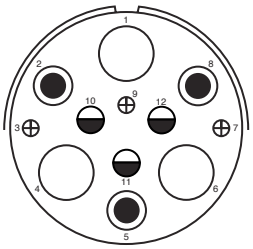



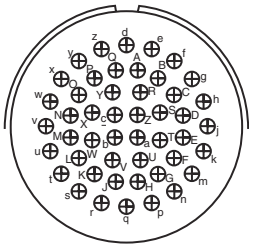

| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-79** | **36-80** | **36-83** |
| **Service Rating** | **A** | **A** | **–** |
| **Number of Contacts** | **20** | **20** | **7** |
| **Contact Size** | **12** | **12 for #10 wire** | **4 (Coax) RG-58/U** |

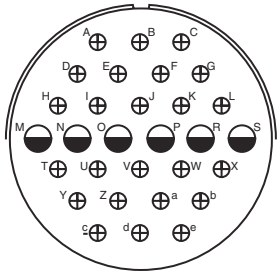


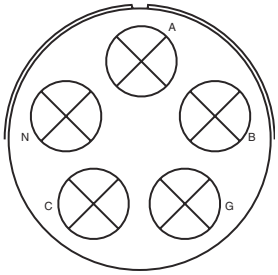




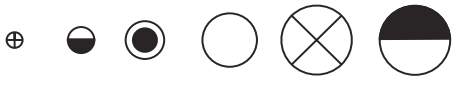

| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-85** | **36-97** | **36-99** |
| **Service Rating** | **M = D; Bal. = A** | **C** | **D** |
| **Number of Contacts** | **35** | **1** | **3 3 3 3** |
| **Contact Size** | **16 for #12 wire** | **4/0** | **4 8 12 16** |





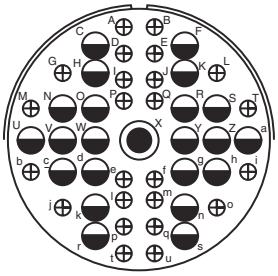



| | | | |
|---|---|---|---|
| **Insert Arrangement** | **36-AF** | **40-1** | **40-5** |
| **Service Rating** | **A** | **D** | **A** |
| **Number of Contacts** | **48** | **6 24** | **5** |
| **Contact Size** | **16** | **12 16** | **0** |

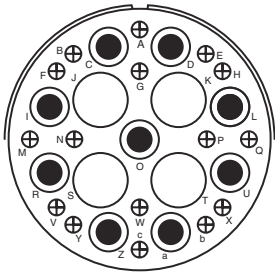


# ACA-B/GT Connectors
## contact arrangements

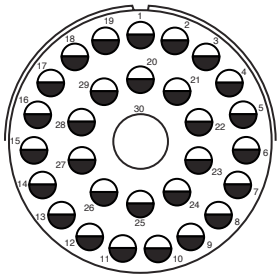
**front face of pin insert or rear face of socket insert illustrated**



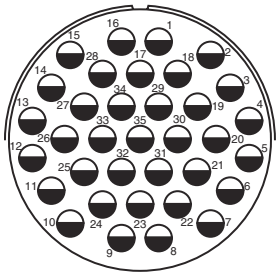
| | |
|---|---|
| **Insert Arrangement** | **40-9** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1 22 24** |
| **Contact Size** | **8 12 16** |



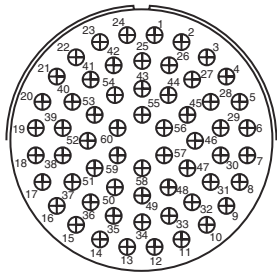
| | |
|---|---|
| **Insert Arrangement** | **40-10** |
| **Service Rating** | **A** |
| **Number of Contacts** | **4 9 16** |
| **Contact Size** | **4 8 16** |



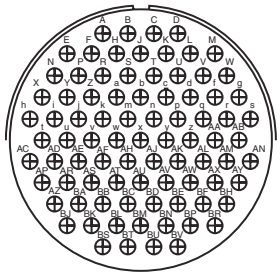
| | |
|---|---|
| **Insert Arrangement** | **40-30** |
| **Service Rating** | **A** |
| **Number of Contacts** | **29 1** |
| **Contact Size** | **12 4** |



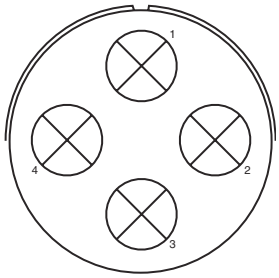
| | |
|---|---|
| **Insert Arrangement** | **40-35** |
| **Service Rating** | **D** |
| **Number of Contacts** | **35** |
| **Contact Size** | **12** |



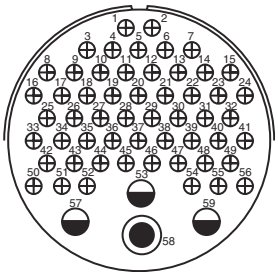
| | |
|---|---|
| **Insert Arrangement** | **40-53** |
| **Service Rating** | **A** |
| **Number of Contacts** | **60** |
| **Contact Size** | **16** |



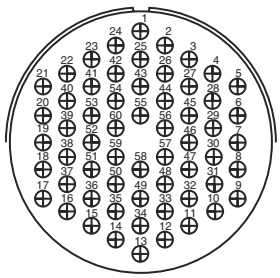
| | |
|---|---|
| **Insert Arrangement** | **40-56** |
| **Service Rating** | **A** |
| **Number of Contacts** | **85** |
| **Contact Size** | **16** |



| | |
|---|---|
| **Insert Arrangement** | **40-57** |
| **Service Rating** | **E** |
| **Number of Contacts** | **4** |
| **Contact Size** | **0** |



| | |
|---|---|
| **Insert Arrangement** | **40-61** |
| **Service Rating** | **A** |
| **Number of Contacts** | **1 3 55** |
| **Contact Size** | **8 12 16** |

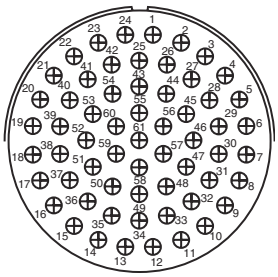


| | |
|---|---|
| **Insert Arrangement** | **40-62** |
| **Service Rating** | **A** |
| **Number of Contacts** | **60** |
| **Contact Size** | **16** |

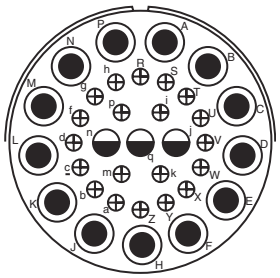
| | | | | | |
|---|---|---|---|---|---|
| **CONTACT LEGEND** | **16** | **12** | **8** | **4** | **0** |

# ACA-B/GT Connectors
## contact arrangements

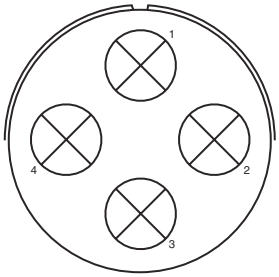
**front face of pin insert or rear face of socket insert illustrated**



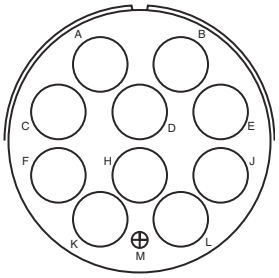
| | |
|---|---|
| **Insert Arrangement** | **40-63** |
| **Service Rating** | **A** |
| **Number of Contacts** | **61** |
| **Contact Size** | **16 for #14 wire** |



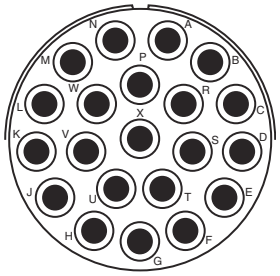
| | | | |
|---|---|---|---|
| **Insert Arrangement** | **40-64** | | |
| **Service Rating** | **–** | | |
| **Number of Contacts** | **3** | **20** | **13** |
| **Contact Size** | **12** | **16** | **8 (Coax) RG-124/U** |



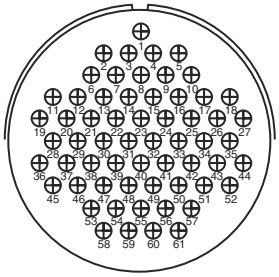
| | |
|---|---|
| **Insert Arrangement** | **40-66** |
| **Service Rating** | **–** |
| **Number of Contacts** | **4** |
| **Contact Size** | **0 (Coax) RG-63 B/U** |



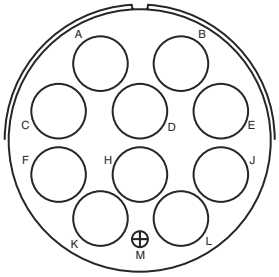
| | | |
|---|---|---|
| **Insert Arrangement** | **40-67** | |
| **Service Rating** | **A** | |
| **Number of Contacts** | **1** | **10** |
| **Contact Size** | **16** | **4 (Coax) RG-59/U** |



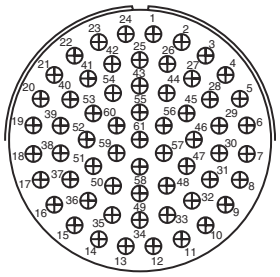
| | |
|---|---|
| **Insert Arrangement** | **40-68** |
| **Service Rating** | **A** |
| **Number of Contacts** | **21** |
| **Contact Size** | **8** |



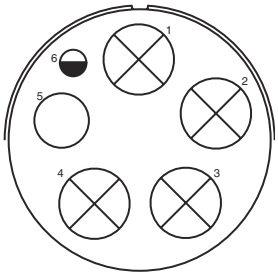
| | |
|---|---|
| **Insert Arrangement** | **40-70** |
| **Service Rating** | **A** |
| **Number of Contacts** | **61** |
| **Contact Size** | **16** |



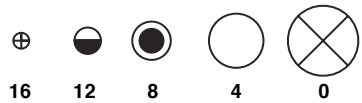
| | | |
|---|---|---|
| **Insert Arrangement** | **40-72** | |
| **Service Rating** | **A** | |
| **Number of Contacts** | **1** | **10** |
| **Contact Size** | **8** | **4 (Coax) RG-9B/U** |



| | |
|---|---|
| **Insert Arrangement** | **40-73** |
| **Service Rating** | **A** |
| **Number of Contacts** | **61** |
| **Contact Size** | **16** |



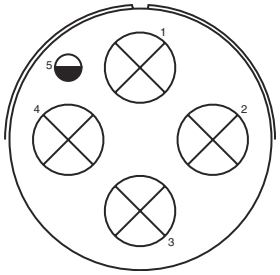
| | | | |
|---|---|---|---|
| **Insert Arrangement** | **40-74** | | |
| **Service Rating** | **A** | | |
| **Number of Contacts** | **1** | **1** | **4** |
| **Contact Size** | **12** | **4 (Coax) RG-62/U** | **0 (Coax) RG-9B/U or RG-214/U** |



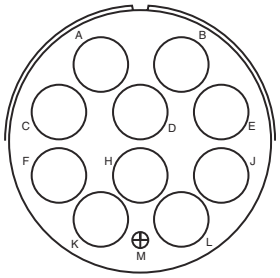
| | | | | | |
|---|---|---|---|---|---|
| **CONTACT LEGEND** | **16** | **12** | **8** | **4** | **0** |

# ACA-B/GT Connectors
## contact arrangements

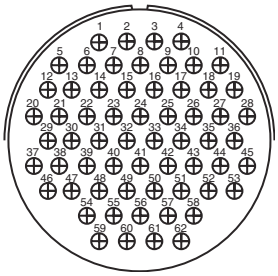
**front face of pin insert or rear face of socket insert illustrated**



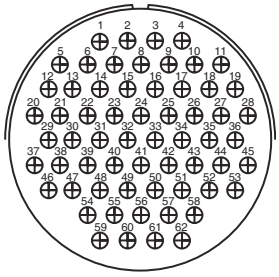

| | |
|---|---|
| **Insert Arrangement** | **40-75** |
| **Service Rating** | **E** |
| **Number of Contacts** | **4 1** |
| **Contact Size** | **0 12** |



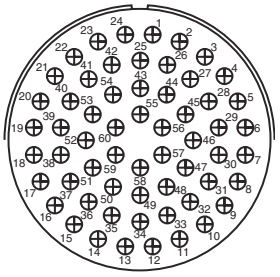

| | |
|---|---|
| **Insert Arrangement** | **40-80** |
| **Service Rating** | **A** |
| **Number of Contacts** | **10 1** |
| **Contact Size** | **4 16** |



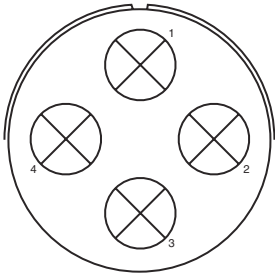
| | |
|---|---|
| **Insert Arrangement** | **40-81** |
| **Service Rating** | **A** |
| **Number of Contacts** | **62** |
| **Contact Size** | **16 for #14 wire** |



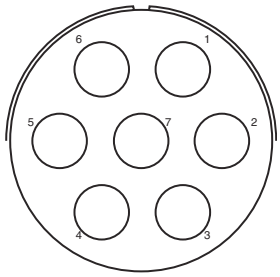
| | |
|---|---|
| **Insert Arrangement** | **40-82** |
| **Service Rating** | **A** |
| **Number of Contacts** | **62** |
| **Contact Size** | **16** |



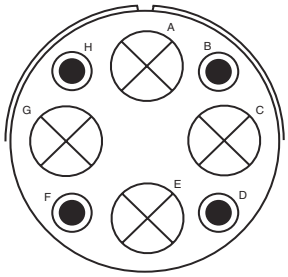
| | |
|---|---|
| **Insert Arrangement** | **40-85** |
| **Service Rating** | **A** |
| **Number of Contacts** | **60** |
| **Contact Size** | **16 for #14 wire** |



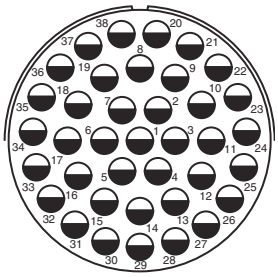

| | |
|---|---|
| **Insert Arrangement** | **40-86** |
| **Service Rating** | **–** |
| **Number of Contacts** | **4** |
| **Contact Size** | **0 (Coax) RG-115A/U** |



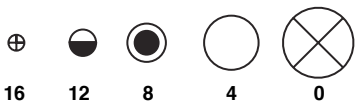

| | |
|---|---|
| **Insert Arrangement** | **40-87** |
| **Service Rating** | **D** |
| **Number of Contacts** | **7** |
| **Contact Size** | **4** |




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

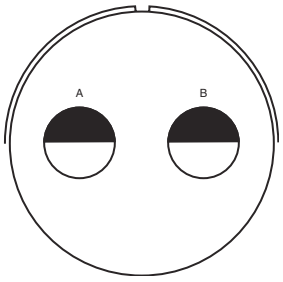


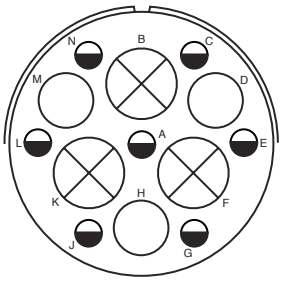
| | |
|---|---|
| **Insert Arrangement** | **40-AG** |
| **Service Rating** | **A** |
| **Number of Contacts** | **38** |
| **Contact Size** | **12** |

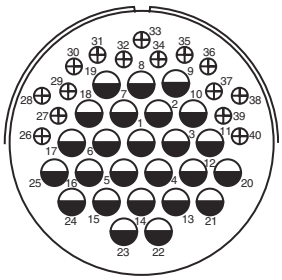


# ACA-B/GT Connectors
## contact arrangements

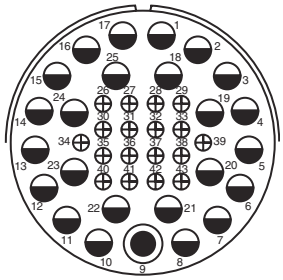
**front face of pin insert or rear face of socket insert illustrated**

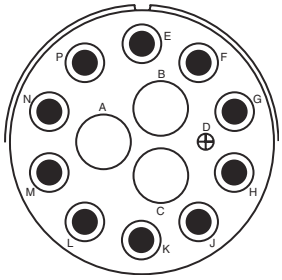


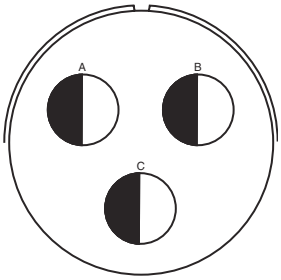



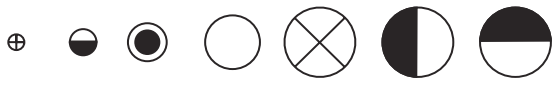

| Insert Arrangement | 40-AP | 40-AR | 40-AS |
|---|---|---|---|
| Service Rating | E | Inst. | A |
| Number of Contacts | 2 | 3 3 7 | 25 15 |
| Contact Size | 4/0 | 0 4 12 | 12 16 |




| Insert Arrangement | 40-AT | 40-AU | 40-AV |
|---|---|---|---|
| Service Rating | A | A | D |
| Number of Contacts | 1 24 18 | 3 10 1 | 3 |
| Contact Size | 8 12 16 | 4 8 16 | 2/0 |



| CONTACT LEGEND | 16 | 12 | 8 | 4 | 0 | 2/0 | 4/0 |
|---|---|---|---|---|---|---|---|

# Amphenol® ACA-B Connectors

## how to order, connector intermateability

**Part Number System**
**(example part number shown)**

| ACA | 3101 | E | 10SL-3 | P | W | B | (F80) |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

**1. Connector Series**
ACA designates Amphenol® ACA-B Reverse Bayonet Series

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

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

**4. Shell Size and Insert Arrangement**
See pages 48-50 for insert availability charts, and pages 55-77 for insert pattern drawings.

**5. Contact Style**
P designates pin contacts
S designates socket contacts
Note: standard contacts are silver plated. Consult Connector Modification for ordering gold plated contacts.

**6. Alternate Position**
W, X, Y and Z - See page 51.
No suffix required for normal position.

**7. Designation for Reverse Bayonet**
B designates Reverse Bayonet coupling shells

**8. Connector Modification**
Omit for standard olive drab connectors with solder type silver plated contacts.
For a modification as listed below, add suffix in parenthesis to the end of the part number. Consult Amphenol Industrial Operations for further description or assistance.

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

* Consult page 54 for RADSOK® Technology Advantages.

**MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS**

| Connector Style | Mateable with Style |
|---|---|
| ACA3101 | ACA 3106, 3108 |
| ACA3102 | ACA 3106, 3108 |
| ACA3103 | ACA 3106, 3108 |
| ACA3106 | ACA 3101, 3102, 3103, 3107 |
| ACA3107 | ACA 3106, 3108 |
| ACA3108 | ACA 3101, 3102, 3103, 3107 |

This catalog is on the Amphenol website: **www.amphenol-industrial.com.**

See **www.amphenol-industrial.com** for the broad range of interconnection products offered by Amphenol.

# GT Connectors
## how to order, connector intermateability

**Part Number System**

| GT | C | 00 | A | FF | 36-5 | P | W | (014) |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

**1. Contact Style and Insert Material**
- C = Crimp
- CN = Crimp with stainless steel
- S = Solder
- SN = Solder with stainless steel
- 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**
- 01 - Inline receptacle
- 02 - Box mount receptacle
- 030 - Square flange receptacle - rear panel mount
- 05 - Dummy receptacle
- 06 - Straight plug
- 07 - Jam nut receptacle - rear panel mount
- 070 - Jam nut receptacle with accessory threads
- 08 - 90° angle plug
- TB - Thru-bulkhead receptacle

**3. Connector Class - For details, see pages 20-47**
- A - Adapter for accessory attachment, non-environmental
- AF - Adapter, clamp for individual wires, non-environmental
- AMI - Threaded internal adapter. Thread style/size to be specified at the end of the PN - Ex (M20) or (PG21)
- CF - Adapter, jacketed cable clamp, environmental
- CFZ - Adapter, jacketed cable clamp, individual wire sealing grommet, environmental
- F - Adapter, clamp for individual wires, individual wire sealing grommet, environmental.
- G - Adapter for heat shrink tubing, individual wire sealing grommet, environmental
- GTTB - Thru bulkhead receptacle, accepts mating plug on both sides
- R - Adapter for accessory attachment, individual wire sealing grommet, environmental
- R - (02) No thread, no accessories, environmental with panel sealing gasket
- RMI - Threaded internal adapter with individual wire sealing grommet. Thread style/size to be specified at the end of the PN - Es (M20) or (PG21)
- RV - Adapter, individual wire sealing grommet, environmental
- SB - Adapter for termination of EMI/RFI shielded braid with heat shrink tubing or boot, individual wire sealing grommet, environmental

**4. Designation for Mounting Hole - Receptacle Only**
- FF - UN Threads
- FM - Metric Threads

No designation for standard through hole mounting holes.

**5. Shell Size and Arrangement**
See pages 48-50

**6. Contact Style**
P designates pin contacts
S designates socket contacts

**7. Alternate Position**
W, X, Y and Z - See page 51.
No suffix required for normal position.

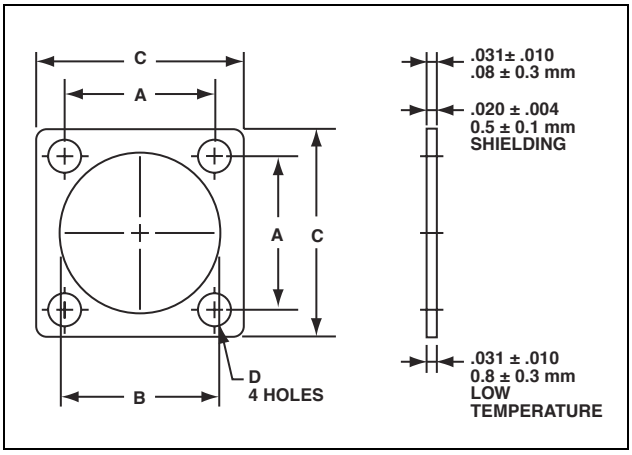
**8. Connector Modification***
Omit for standard olive drab with silver plated contacts
- i.e.: (A31) Gold/nickel plated contacts
- (025) Black zinc cobalt
- (LC) Less contacts
- (072) Gray Zinc Nickel
- (116) Solder contacts less pre-filled solder
- (724) Gray Zinc Nickel with solder contacts less pre-filled solder **RoHS Compliant**
- (RDS) RADSOK® contacts (crimp sockets only)*

* Consult page 54 for RADSOK® Technology Advantages.

**MATEABILITY WITH IDENTICAL CONTACT ARRANGEMENTS**

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

# ACA-B/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 ± .010 | Front Panel Versions B + .016 – .000 | Rear Panel Version B + .016 – .000 | C + .016 – .000 | D ± .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 |

| Installation Dimensions | | | | | |
|---|---|---|---|---|---|
| MS Shell Size | A ± 0.2 | Front Panel Versions B + 0.4 – 0.0 | Rear Panel Version B + 0.4 – 0.0 | C + 0.4 – 0.0 | D ± 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 |

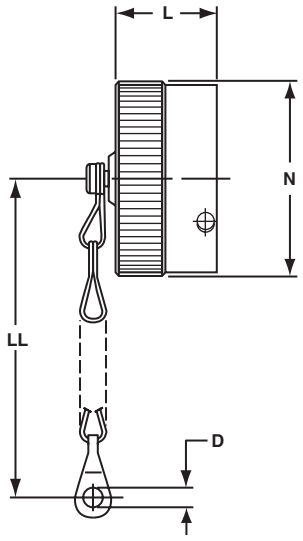
| Order Data for Front Panel Mount Gaskets | | | |
|---|---|---|---|
| Front Panel Plain Version | Front Panel Shielding Version | Front Panel Low Temperature Version | Front Panel Low Smoke ZH Version |
| 10-40450-10 | 10-40450-10S | 10-36675-10 | LS-40450-10 |
| 10-40450-14 | 10-40450-14S | 10-36675-14 | 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 |

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

# ACA-B/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**
- **All ACA( )-B and GT receptacles**

*** 10-580902-XXX**




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

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

**Table 1: Inches**

| Shell Size | D +.020 –.000 | L Max. | N Max. | LL 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 |

**Table 2: Millimeters**

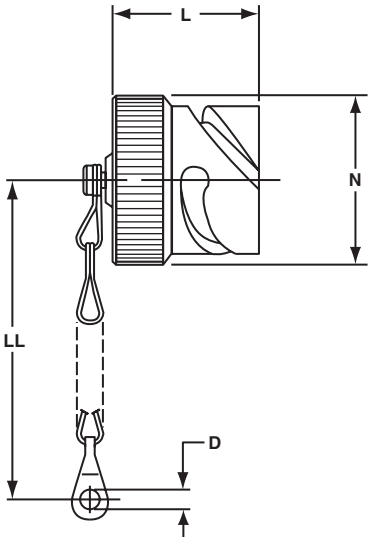
| Shell Size | D +0.5 –0.0 | L Max. | N Max. | LL Approx. |
|---|---|---|---|---|
| 11 | 4.4 | 17.8 | 23.0 | 127 |
| 14 | 4.4 | 17.8 | 30.0 | 127 |
| 16 | 4.4 | 17.8 | 32.5 | 127 |
| 17 | 4.4 | 22.9 | 32.5 | 127 |
| 18 | 4.4 | 22.9 | 37.0 | 127 |
| 20 | 4.4 | 22.9 | 40.5 | 127 |
| 22 | 4.4 | 22.9 | 43.5 | 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.

# ACA-B/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**
- **All ACA( )-B and GT plugs**

*** 10-580903-XXX**




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

* 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.

**Table 1: Inches**

| Shell Size | D +.020 –.000 | L Max. | N Max. | LL Approx. |
|---|---|---|---|---|
| 11 | .157 | .945 | .807 | 5.000 |
| 14 | .157 | .945 | 1.059 | 5.000 |
| 16 | .157 | .945 | 1.169 | 5.000 |
| 17 | .157 | 1.260 | 1.169 | 5.000 |
| 18 | .157 | 1.260 | 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 |

**Table 2: Millimeters**

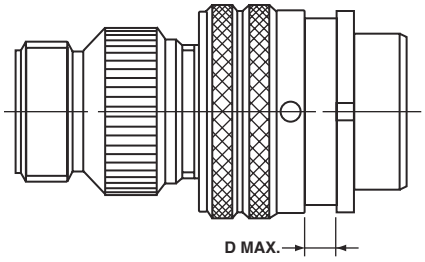
| Shell Size | D +0.5 –0.0 | L Max. | N Max. | LL Approx. |
|---|---|---|---|---|
| 11 | 4.0 | 24 | 20.5 | 127 |
| 14 | 4.0 | 24 | 26.9 | 127 |
| 16 | 4.0 | 24 | 29.7 | 127 |
| 17 | 4.0 | 24 | 29.7 | 127 |
| 18 | 4.0 | 24 | 33.1 | 127 |
| 20 | 4.8 | 32 | 36.5 | 140 |
| 22 | 4.8 | 32 | 39.7 | 140 |
| 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.

# ACA-B/GT Connectors - accessories

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

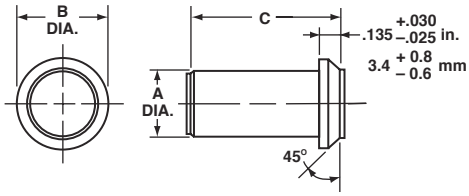
### REAR MOUNTING DATA
### MAXIMUM PANEL THICKNESS




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

### SEALING PLUG
### 10-405996-XX

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



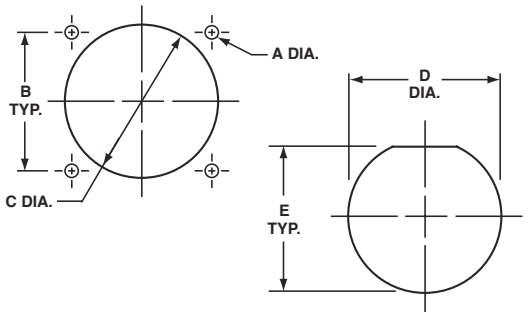

| Order No. | Contact Size | Wire Size | Color Code | Inches | | |
|---|---|---|---|---|---|---|
| | | | | A Dia. ±.010 | B ±.005 | C ±.010 |
| 10-405996-16 | 16 | 20-16 | Blue | .083 | .133 | .564** |
| 10-405996-12 | 12 | 14-12 | Yellow | .121 | .171 | .564** |
| 10-405996-8 | 8 | 10-8 | Red | .185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

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

** ± .020 (in.) *** ± 0.5 (mm)

### GROMMET HOLE
### SEALING RANGES

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




### PANEL CUT-OUT DIMENSIONS

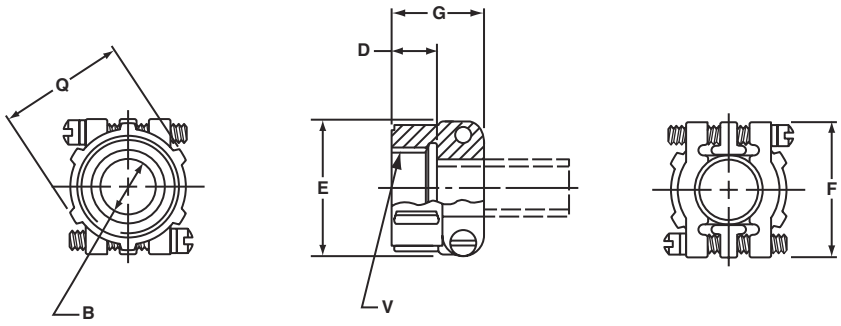
| Shell Size | A Dia. Hole Size | Connector Styles | | | | |
|---|---|---|---|---|---|---|
| | | 02, 020, 00, 030 | Front Mount 02, 00, 020 | Rear Mount 030 | Jam Nut 070 | Jam Nut 070 |
| | | B ±.004 | C Dia. | C Dia. | D Dia. | E |
| 10SL | .126 | .717 | 11/16 | 1 3/4 | 7/8 | .83 |
| 14S | .126 | .906 | 13/16 | 1 | 1 1/8 | 1.08 |
| 16S/16 | .126 | .969 | 15/16 | 1 1/8 | 1 1/14 | 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.

# 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 |

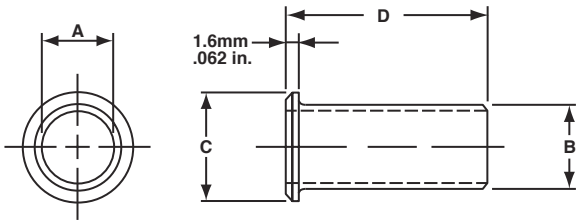
**Millimeters**

| 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 |

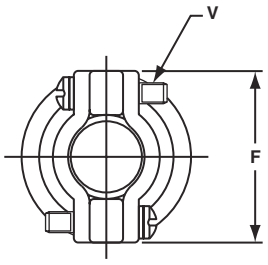
All dimensions for reference only.

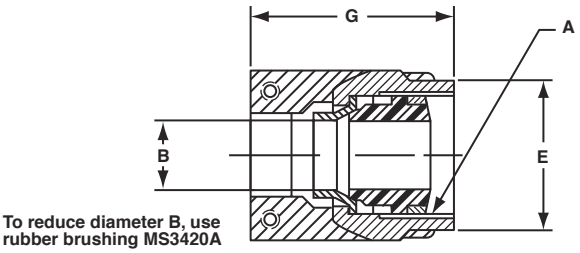
# GT Connectors – accessories

## 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 | | Busing 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 |

**Inches**

| Part Number | Used with Shell Size | B | | E ± .016 | F ± .008 | G + .020 − .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 |

**Millimeters**

| B | | E ± 0.4 | F ± 0.2 | G + 0.5 − 0.0 |
|---|---|---|---|---|
| Open | Closed | | | |
| 7.93 | 2.38 | 19.0 | 22.6 | 32.3 |
| 11.12 | 5.84 | 22.2 | 25.8 | 32.3 |
| 13.48 | 8.00 | 25.4 | 28.1 | 32.3 |
| 15.87 | 9.60 | 28.5 | 31.0 | 35.3 |
| 19.00 | 11.30 | 33.3 | 37.3 | 35.7 |
| 23.80 | 15.50 | 39.6 | 42.0 | 38.5 |
| 31.75 | 23.40 | 47.6 | 54.0 | 44.8 |
| 35.00 | 23.40 | 53.9 | 57.1 | 51.6 |
| 41.25 | 29.90 | 60.3 | 63.5 | 51.6 |

All dimensions for reference only.

# ACA-B/GT accessories
glands

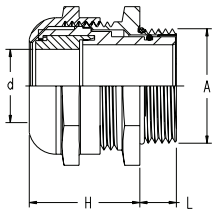
## Nylon Cable Glands

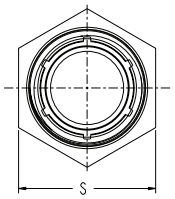
| | | |
|---|---|---|
| Material: | Nylon 66 (UL Approved 94V-2) | |
| Seal Ring: | UL 94V-2(UL Approved 94V-2) | |
| Thread Type: | Metric , PG, NPT | |
| Temp Range: | Static: | - 40°C ~ +100°C |
| | Dynamic: | - 20°C ~ + 80°C |
| | Short Term: | +120°C |
| Current Colors: | Gray, Black | |

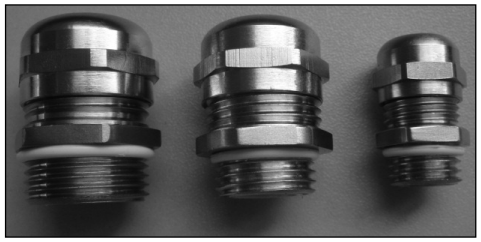
## Metal Cable Glands

| | |
|---|---|
| Material: | Brass with Nickel; Brass with Tin/Nickel |
| Clamping: | UL approved PA6, 94V-0 |
| Seal Ring: | UL 94V-2 (UL approved NBR, 94V-2;UL approved DOW CORNING RUBBER, 94V-0 |
| Thread Type: | Metric, PG, NPT |
| Protective: | IP68 (tighten with o-ring) |
| Temp Range: | - 40°C ~ +100°C |

Torque Value (N-M) of hex and cap nuts: 3.0-4.5 N-M
M12, M16, M20 are UL recognized under file # E339605



## Nylon Cable Glands

| AIGO Part | Thread "A" | Max "d" (mm) | Cable Range (mm) | Thread "L" (mm) | Clamp "H" (mm) | Spanner "S" (mm) |
|---|---|---|---|---|---|---|
| AIO-CSM12 | M12x1.5 | 8 | 3 – 6.5 | 8 | 20 | 15 |
| AIO-CSM16 | M16x1.5 | 8 | 4 – 8 | 8 | 22 | 19 |
| AIO-CSM18 | M18×1.5 | 10 | 5 – 10 | 9 | 25 | 22 |
| AIO-CSM20 | M20×1.5 | 12 | 6 – 12 | 9 | 30 | 24 |
| AIO-CSM22 | M22×1.5 | 14 | 10 – 14 | 10 | 30 | 27 |
| AIO-CSM24 | M24×1.5 | 14 | 10 – 14 | 10 | 30 | 27 |
| AIO-CSM25 | M25x1.5 | 18 | 13 – 18 | 10 | 30 | 33 |
| AIO-CSM30 | M30×2.0 | 18 | 13 – 18 | 11 | 33 | 33 |
| AIO-CSM32 | M32×1.5 | 25 | 18 – 25 | 11 | 38 | 42 |
| AIO-CSM33 | M33×2.0 | 25 | 18 – 25 | 11 | 39 | 42 |
| AIO-CSM40 | M40×1.5 | 32 | 22 – 32 | 13 | 48 | 54 |
| AIO-CSM50 | M50×1.5 | 38 | 32 – 38 | 14 | 50 | 60 |
| AIO-CSM72 | M72×2.0 | 57 | 51 – 57 | 16 | 75 | 80 |
| AIO-CSIN1/2 | NPT1/2" | 12 | 6 – 12 | 13.6 | 28 | 24 |
| AIO-CSIN3/4 | NPT3/4" | 18 | 13 – 18 | 14.1 | 32 | 33 |
| AIO-CSIN3/2 | NPT1"1/2" | 32 | 22 – 32 | 17.3 | 50 | 54 |
| AIO-CSGIN1/2 | G1/2" | 12 | 6 – 12 | 9 | 26 | 24 |
| AIO-CSGIN3/4 | G3/4" | 18 | 13 – 18 | 11 | 27 | 33 |
| AIO-CSGIN1 | G1" | 25 | 18 – 25 | 11 | 33 | 42 |
| AIO-CSGIN5/4 | G1"1/4" | 28 | 21 – 28 | 13 | 48 | 54 |
| AIO-CSGIN3/2 | G1"1/2" | 32 | 22 – 32 | 13 | 48 | 54 |
| AIO-CSGIN5/2 | G2"1/2" | 57 | 51 – 57 | 14 | 75 | 80 |
| AIO-CSPG7 | PG7 | 6.5 | 3 – 6.5 | 8 | 20 | 15 |
| AIO-CSPG9 | PG9 | 8 | 4 – 8 | 8 | 22 | 19 |
| AIO-CSPG11 | PG11 | 10 | 5 – 10 | 8 | 24 | 22 |
| AIO-CSPG13.5 | PG13.5 | 12 | 6 – 12 | 9 | 26 | 24 |
| AIO-CSPG16 | PG16 | 14 | 10 – 14 | 10 | 28 | 27 |
| AIO-CSPG21 | PG21 | 18 | 13 – 18 | 11 | 33 | 33 |
| AIO-CSPG29 | PG29 | 25 | 18 – 25 | 11 | 38 | 42 |
| AIO-CSPG36 | PG36 | 32 | 22 – 32 | 13 | 48 | 54 |
| AIO-CSPG42 | PG42 | 38 | 32 – 38 | 14 | 52 | 60 |

**For additional information on other products available refer to our Cord Grips & Cable Glands, Catalog 12-055.**

## Metal Cable Glands

| AIGO Part | Thread "A" | Max "d" (mm) | Cable Range (mm) | Thread "L" (mm) | Clamp "H" (mm) | Spanner "S" (mm) |
|---|---|---|---|---|---|---|
| AIO-CSJM12 | M12x1.5 | 6.5 | 3 – 6.5 | 6.2 | 15 | 14 |
| AIO-CSJM14 | M14x1.5 | 8 | 4 – 8 | 5 | 19 | 15 |
| AIO-CSJM16 | M16x1.5 | 9 | 6 – 9 | 6.3 | 20 | 18 |
| AIO-CSJM18 | M18x1.5 | 10 | 5 – 10 | 7 | 20 | 22 |
| AIO-CSJM20 | M20x1.5 | 12 | 6 – 12 | 8.3 | 20 | 22 |
| AIO-CSJM22 | M22×1.5 | 14 | 10 – 14 | 8 | 24 | 24 |
| AIO-CSJM24 | M24×1.5 | 14 | 10 – 14 | 8 | 24 | 27 |
| AIO-CSJM25 | M25x1.5 | 18 | 13 – 18 | 7.8 | 23 | 30 |
| AIO-CSJM27 | M27×2.0 | 18 | 13 – 18 | 8 | 26 | 30 |
| AIO-CSJM30 | M30×2.0 | 18 | 13 – 18 | 8 | 26 | 32 |
| AIO-CSJM32 | M32×1.5 | 25 | 18 – 25 | 10 | 27 | 40 |
| AIO-CSJM36 | M36×2.0 | 25 | 18 – 25 | 10 | 34 | 40 |
| AIO-CSJM40 | M40×1.5 | 32 | 22 – 32 | 10 | 39 | 50 |
| AIO-CSJM50 | M50×1.5 | 38 | 32 – 38 | 11 | 39 | 60 |
| AIO-CSJM63 | M63×1.5 | 44 | 37 – 44 | 12 | 43 | 67 |
| AIO-CSJM72 | M72×2.0 | 52 | 46 – 52 | 16 | 47 | 75 |
| AIO-CSJM80 | M80×2.0 | 60 | 52 – 60 | 20 | 57 | 90 |
| AIO-CSJM90 | M90×2.0 | 70 | 62 – 70 | 20 | 57 | 100 |
| AIO-CSJIN1/2 | NPT1/2" | 12 | 6 – 12 | 13.6 | 25 | 24 |
| AIO-CSJIN3/4 | NPT3/4" | 18 | 13 – 18 | 14.1 | 26 | 30 |
| AIO-CSJIN5/4 | NPT1"1/4" | 32 | 22 – 32 | 17.3 | 41 | 50 |
| AIO-CSJIN3/2 | NPT1"1/2" | 32 | 22 – 32 | 17.3 | 46 | 50 |
| AIO-CSJIN2 | NPT2" | 44 | 37 – 44 | 17.7 | 46 | 65 |
| AIO-CSJIN5/2 | NPT2 1/2" | 52 | 46 – 52 | 23.7 | 58 | 80 |
| AIO-CSJIN3 | NPT3" | 70 | 62 – 70 | 26 | 58 | 100 |
| AIO-CSJGIN1/2 | G1/2" | 12 | 6 – 12 | 8 | 24 | 24 |
| AIO-CSJGIN3/4 | G3/4" | 18 | 13 – 18 | 8 | 27 | 30 |
| AIO-CSJGIN1 | G1" | 25 | 18 – 25 | 10 | 34 | 40 |
| AIO-CSJGIN5/4 | G1"1/4" | 32 | 22 – 32 | 10 | 39 | 50 |
| AIO-CSJGIN3/2 | G1"1/2" | 32 | 22 – 32 | 10 | 39 | 50 |
| AIO-CSJGIN2 | G2" | 44 | 37 – 44 | 12 | 44 | 65 |
| AIO-CSJGIN5/2 | G2 1/2" | 52 | 46 – 52 | 16 | 47 | 82 |
| AIO-CSJPG7 | PG7 | 6.5 | 3 – 6.5 | 6 | 18 | 14 |
| AIO-CSJPG9 | PG9 | 8 | 4 – 8 | 7 | 21 | 18 |
| AIO-CSJPG11 | PG11 | 10 | 5 – 10 | 7 | 20 | 22 |
| AIO-CSJPG13.5 | PG13.5 | 12 | 6 – 12 | 8 | 24 | 22 |
| AIO-CSJPG16 | PG16 | 14 | 10 – 14 | 8 | 25 | 24 |
| AIO-CSJPG21 | PG21 | 18 | 13 – 18 | 8 | 26 | 30 |
| AIO-CSJPG36 | PG36 | 32 | 22 – 32 | 10 | 38 | 50 |
| AIO-CSJPG42 | PG42 | 38 | 32 – 38 | 11 | 42 | 60 |
| AIO-CSJPG48 | PG48 | 44 | 37 – 44 | 12 | 44 | 65 |

# Amphenol® GT Connectors
## with RADSOK technology

Amphenol offers Amphe-Power Connectors, high amperage capability connectors designed for the most demanding industrial and transportation applications. The GT connectors, in most shell styles, can be enhanced with RADSOK contacts that handle up to 150% higher amperages than standard contacts.

The RADSOK contact is a hyperbolic, stamped grid configuration within the socket. As male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss. This design ensures a large, coaxial, face-to-face surface area engagement and provides higher current capacity with minimized temperature rise. The RADSOK's strongest benefit is its very low mill-volt drop because of the intimate contact provided by the spring force of the grid. RADSOK contacts are available in size 8 (69 amps), size 4 (120 amps), and size 0 (250 amps). Current Amphe-Power lines support from 50A to 500A continuous duty. Hybrid arrangements with RADSOK and power contacts can be tailored to meet customer needs.

For more information on GT Amphe-Power Connectors, request Brochure SL-391.

### The RADSOK Contact Advantage:

- Low contact Resistance
- Low milli-volt drop performance
- Higher current capacity with minimized temperature rise.
- Reliability under vibration and shock.
- High quality, consistency and lower cost

### Amphe-Power™ Amphe-GTR

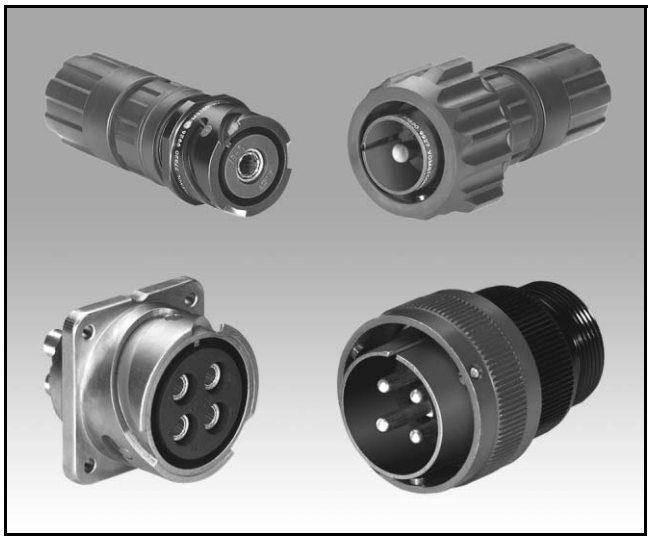
The Amphe-Power™ GT series provides the benefit of a GT connector in a high performance composite material. The GT-R is listed to UL/CUL 2238 Standard, Control Number 19VP. It also meets all of the specifications for high power process control and server applications. Performance level is the same as that of the GT series. RADSOK contacts enable an increased current rating of 120A on individual contacts, and a standard PG thread achieves an IP67 seal rating.

Compression (setscrew) wire termination to the 4/6AWG or 8/10AWG conductors allows for easy field replacement of pin or socket contacts. It also provides for easy complete plug or receptacle assemblies, all without a need for specialized tooling.

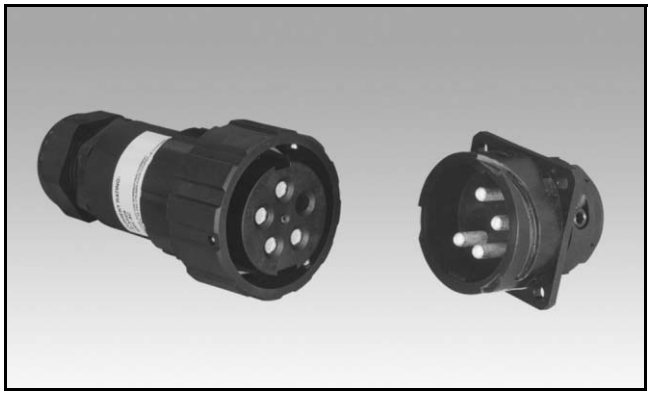
### Power GT

The Power GT is a modification to the GT series incorporating three 8.0mm RADSOK contacts mounted in a common termination to busbar or cable, enhanced to an ultra-high current density in a compact shell size 28 layout. This design created the first TUV "finger-proof" 500A connector in the marketplace with the "dead-front" pin design to prevent contact with live circuits. In environmental versions, this connector achieves IP67 performance.

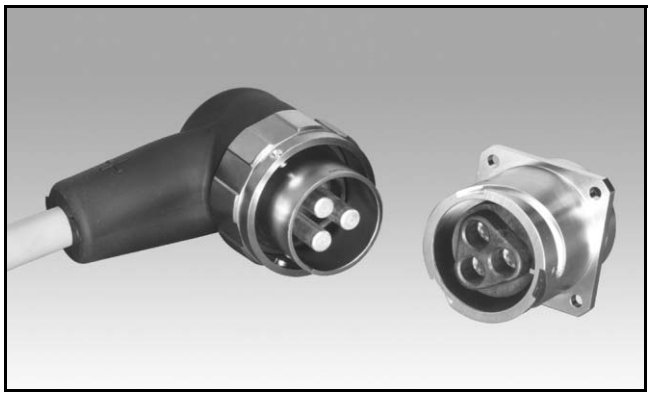
The ninety-degree wire orientation on the plug provides low-profile mounting for tight packaging requirements. This plug is designed to be over-molded, and can also be fitted with mechanical hardware for individual requirements.



*Amphenol ®GT Amphe-Power Connectors with RADSOK® high amperage contacts*



*Amphe-Power Composite GTR Connector*



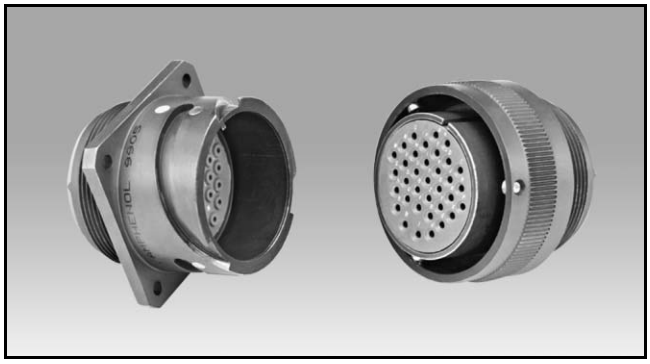
*Power GT, Finger-Proof 500A Connector*

# Amphenol® GT Connectors
## special applications

### GTC-M Series - The GT with Metal Clip Inserts

Amphenol's GTC-M series combines the GT reverse bayonet connector and the rear release metal clip retention system which is used in the Amphenol®/Matrix® MIL-C-5015 connector line. Another benefit is the captivated coupling nut assembly which allows unmating without the rear accessories attached.

Improved environmental sealing is achieved with this series. The crimp joint is covered by a three-webbed fluorinated silicone grommet that seals on the wires without the necessity of an additional sealing clamp. An interfacial seal with conical towers on the pin insert matches with recesses on the socket; a match that provides the popular "cork and bottle" seal during mating. The grommet and the interfacial seal provides adequate sealing during environmental extremes. The GTC-M series is intermateable and intermountable with the standard GT series, and it uses standard M85049 style rear accessories. For more information on the GTC-M Series, request Product Data Sheet #181.



*Amphenol ® GTC-M with Metal Clip Inserts*

### 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. Higher amperage levels are provided - up to 100 amps per contact. 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. Currently there are 5 insert patterns available. Consult Amphenol Industrial Operations for more information.

*Amphenol ® GT-PC Connectors for High Voltage Power Applications*

### GT Connectors for the HMI Lighting Industry

Amphenol provides GT connectors for the rugged use experienced during stage shows and other entertainment events, even outside in the elements. The same 3-point bayonet coupling system and the same ruggedness to survive 2000 mating cycles are provided. The 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 environmental 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 request Product Data Sheet #174.

*Amphenol ® GT Connectors for the HMI Lighting Industry*

# **Additional Amphenol Industrial Connectors** for the Rail Industry

### ARCL Series

Amphenol has developed a heavy duty 5015 type connector with 38999 Series III type coupling for use in mass transportation and heavy equipment applications. The ARCL Series has the same electrical characteristics as 5015 standard product but it has rugged ratchet double start stub threads. These rugged double stub threads eliminate mis-mating and provide for easy cleaning.

Other features/benefits of the ARCL connector series:

- 5 key/keyway alignment feature.
- Operating temperature is from –55°C to +125°C. Operating voltage is to 3000 VAC (RMS) at sea level.
- Crimp and solder termination available.
- 5 shell styles with all the 5015 insert patterns available.
- Supplied with low smoke, low halogen inserts which are flame retardant, but also can be supplied with standard 5015 inserts.
- Wide variety of backend accessories for all styles of cable and conduit, and a variety of cable strain reliefs including over-molding and heat shrink boots.
- RADSOK high amperage sockets can be incorporated.

*Amphenol ® ARCL Series*

### Star-Line® Series

Amphenol/Pyle Star-Line Series is another heavy duty environmental cylindrical connector widely used in mass transportation and in the oil exploration market. Ideal for high amperage and high density control and instrumentation applications, this series has features and benefits as follows;

- Hard anodic coating for dielectric strength with heat and corrosion resistance.
- Operating temperature is from –67°F to +257°F. Amperages up to 1135 amps at 1000VAC or DC rating available.
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Solder, crimp and pressure terminals; circuit breaking power and control types available.
- UL listed and CSA listed for circuit breaking capability.
- 5 shell styles with over 150 insert patterns.
- 3 retention styles with captive contacts or insertable/removable contacts.
- Variety of backend accessories including basketweave cable grips, straight or angled adapters and receptacles mounted to junction boxes.

*Amphenol® Star-Line® Series*

### Over-Molded Cable

Cables can be designed with custom overmold to Amphenol Industrial cylindrical connectors for almost any application in mass transportation or any other types of industrial markets. Overmold seals to the rear of the connector and to the cable jacket to provide moisture sealing. Cables may be designed to meet any environmental performance requirement and any electrical performance requirement. Variety of materials are available: neoprene, hypalon and others.

Consult Amphenol Industrial Operations for further information on these industrial products.

*Over-Molded Cable for Industrial Connectors*

# **Additional Amphenol Industrial Products** for the Rail Industry, cont.

### Trans-Power® Connectors

Amphenol/Pyle provides head-end power connectors for commercial rail systems. These meet Amtrak specification D-77-24, APTA #RP-E-016. Features and benefits include:

- Slip-fit, double seated for environmental protection.
- Retention by receptacle cover or optional accessories.
- Crimp termination per Amtrak and APTA specifications.
- Socket contacts provide uniform pressure for low mating and unmating forces, low voltage drop, consistently low temperature rise and shock resistance.
- Operating ambient temperature is –57°F to +110°F. Electrical performance up to 600 volts, 400 Amps.
- All molded elastomeric rubber body on jumper. Raintight per U/L standard.

*Amphenol ® Trans-Power® Connectors for Rail Mass Transit*

### 27 Pole Train-line Receptacles and Jumpers

Amphenol/Pyle 27 pole MU (multiple unit) and communication receptacles and jumpers are provided for rail applications. Jumpers are either standard car to car, between locomotives or between locomotives and lead cars. These products are designed to Amtrak and APTA specifications. Other design features and benefits:

- Locomotive jumpers are keyed differently from all other 27 pole jumpers to prevent mis-mating. They also have identification markings to distinquish their proper usage on locomotives.
- Receptacles are a rugged aluminum housing with a spring loaded cover. Receptacles can be provided with or without leads.
- Push-pull mating.

*Amphenol® 27 Pole Train-line Receptacle and Jumpers for Rail Mass Transit*

### Amphe-Y Composite Molded Connectors

The Amphe-Y is a new Amphenol product for mass transit application that uses RADSOK high amperage sockets. It is a molded interconnect system that provides rapid and safe connect and disconnect for traction motor installation and repair.

This packaging solution consists of a molded base plate, a silver-plated copper “connector” with RADSOK contacts, and a molded top cover. When attached to the traction motor, this unit creates a safe, reliable and efficient means of conducting high amperage current from the third rail or catenary to the propulsion controller. Each “leg” of this assembly can safely accommodate up to 1000 amps through the 18mm RADSOK contacts.

Amphenol has wide capabilities in designing specialty molded interconnect solutions, such as the new Amphe-Y, for power and/or harsh environment applications. Custom designs can include bayonet, theaded or push-pull coupling with crimp solder or pressure termination. They can utilize RADSOK or standard contacts and can be designed to meet specific environmental sealing requirements and temperature ratings.

*Amphe-Y Molded Interconnect System for Rail Mass Transit*

Consult Amphenol Industrial Operations for further information on these industrial products.

**AMPHENOL CORPORATION**
**Amphenol Industrial**
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Sidney, NY 13838-1395
**www.amphenol-industrial.com**

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Стандарт Электрон Связь

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** sales@st-electron.ru

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Промышленная ул, дом № 19, литера Н,
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