# Amphenol® Miniature Cylindrical Connectors

12-070-15

**Meets MIL-C-26482, Series 1 Specifications**

# Amphenol

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**Proprietary/MIL-C-26482 Series 1 connectors covered in this catalog are widely used in general duty and environmental applications, both industrial and military.**

Markets that use this family of connectors include:

- Instrumentation
- Monitoring Equipment
- Machine Tool, Factory Automation
- Communications
- Geophysical
- Industrial Controls and Robotics
- Oil and Petrochemical Industries
- Rail/Mass Transit
- Military/Aerospace

If more information is needed concerning the connectors covered in this publication, or if there are special application needs, please contact:


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Amphenol Aerospace
Amphenol Industrial Operations
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Sidney, New York 13838-1395
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Please go to the Amphenol websites to view, download and save this catalog and most all of Amphenol interconnection product literature.

**www.amphenol-industrial.com**
**www.amphenol-aerospace.com**

Some miniature connector styles are available in RoHS Compliant versions. Please contact Amphenol Industrial Operations for more information.

Amphenol operates Quality Systems that are certified to ISO9001: 2000 by third party registrars.

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.

NOTE:
The Miniature MIL-C-26482, Series 2 connectors PTS-DR and MS/PTS-DR (formerly in this catalog) are no longer supplied with these designations. Amphenol now supplies the Amphenol®/Matrix® MIL-C-26482, Series 2. (Military numbers include MS3470 - MS3472, MS3474, - MS3476).
Please refer to page 78 for a brief description of the Amphenol®/Matrix® MIL-C-26482, Series 2 bayonet coupling connectors with crimp, rear insertable and rear releasable contacts, and ask for catalog 12-071 for detailed information on this series.

# Amphenol® Miniature Cylindrical Connectors
## Proprietary/MIL-C-26482, Series 1

Amphenol® Miniature Cylindrical connectors offer twice the number of contacts in just half the size of a Standard connector. These miniature connectors, are available in several series, each with varying design characteristics and customer options to meet cost considerations and provide maximum design flexibility. There are two styles within the family that are MS approved and qualified to MIL-C-26482, Series 1, and in addition there are several proprietary styles.

Common features of all styles:

- All are for general duty applications and environmental sealing is achieved with the grommet and clamp design.
- Operating temperature is from –55°C to +125°; Operating voltage to 1000 VAC (RMS) at sea level.
- Pin and socket contacts are machined from low loss copper alloy and gold plated to eliminate contact corrosion and provide an indefinite shelf life.
- All have resilient inserts which provide high dielectric strength and moisture barrier.
- A variety of shell finishes (including non-cadmium) and a variety of backend accessories are available within the styles.

**PT Solder**
**jam nut receptacle and mated straight plug**

**PT Solder**
**wall mount receptacle**

**PT-SE Crimp**
**wall mount receptacle and mated straight plug**

**PC Threaded Crimp**
**straight plug and wall mount receptacle**

### Bayonet Coupling with Solder Contact Termination

**PT, MS/PT (solder)**

- MS and proprietary versions
- Factory installed solder contacts
- 3 point bayonet coupling and 5 key/keyway mating.
- Intermateable with all miniature series connectors except threaded PC series.
- MS/PT meets MIL-C-26482 Series 1, service classes E, F and P.
- MS/PT is UL recognized.

**SP (solder)**

- SP Series is a modification of the PT with same features except a wider flange for back panel mounting

**Options**

- 7 shell styles with 60 insert patterns
- Hermetic seal (glass fusion) receptacle styles available
- Pressurized thru bulkhead receptacle style available
- Breakaway quick disconnect styles
- EMI filter protection styles
- Pre-installed coax solder contacts are available
- Printed circuit board contacts are available

### Bayonet Coupling with Crimp Contact Termination

**PT-SE, MS/PT-SE (crimp)**

- MS and proprietary versions
- Crimp rear insertable/front release contact termination. (closed entry socket insert prevents probe damage).
- 3 point bayonet coupling and 5 key/keyway mating.
- Intermateable with all miniature series connectors except threaded PC series.
- MS/PT-SE meets MIL-C-26482 Series 1, service classes E, F, P.

**SP-SE (crimp)**

- Modification of the PT-SE with wider flange for back panel mounting

**PT-CE, SP-CE (crimp)**

- Incorporates a special one-piece insert and grommet assembly

**Options**

- 6 shell styles with 47 insert patterns
- Breakaway quick disconnect style available
- Coax and thermocouple contacts are available

### Threaded Coupling with Solder Contact Termination

**PC (solder) Proprietary**

- Double stub threaded coupling and single hole polarization.
- Factory installed solder contacts

**Options**

- 5 shell styles with 60 insert patterns
- Hermetic receptacles available
- Pressurized thru bulkhead receptacle style available
- Pre-installed coax solder contacts are available.

### Threaded Coupling with Crimp Contact Termination

Two threaded PC styles are offered in some shell sizes. Both have crimp front release and front removable contacts, but they have different retention systems.

**PC-SE (crimp) Proprietary** - with spring tower retention system

- Spring tower retention system

**PC-CE (crimp) Proprietary -** with nylon wafer dielectric system

**Options**

- 5 shell styles (consult Amphenol for availability of shell sizes and insert patterns)

# Amphenol® Miniature Cylindrical
## design flexibility

The large family of miniature proprietary and MS style connectors provides for many optional features and designs. In addition to the choices of bayonet or threaded shells, solder or crimp termination within the style variations, there are additional options that are shown here.

### Hermetics
Hermetically sealed receptacles have fused compression glass sealed inserts which provide envionrmental moisture sealing. There are three hermetic styles within the PT bayonet series and three hermetic styles within the PC threaded series.

**26482 Connector with Hermetic Seal Insert and Coax Contacts**

**26482 Connector with PC Tail Contacts**

### Coaxial Contacts
Amphenol Miniature connectors can incorporate shielded coax contacts. Size 8 and 12 crimp coax contacts are available in PT-SE, SP-SE, MS/PT-SE. Factory installed size 8 and 12 solder type coax contacts are available in PT, SP,MS/PT connectors. See coax contact information pages at the end of this catalog.

### Printed Circuit Board Tail Contacts
PT bayonet connectors in box mounting receptacle and jam nut receptacle styles are available with printed circuit board contacts. Standard PCB tails for MIL-C-26482 connectors have gold plating, .0050 inches over nickel. See page 20 and call Amphenol for further information.

### Flex Circuitry
Flex termination assemblies for attaching cylindrical connectors to printed circuit boards are available through the Amphenol division ACT, Advanced Circuit Technology. Flex can be used with miniature 26482 connectors and it can be designed to meet specific length, current carrying capacity and to fit the precise geometric shape of the connector to board package. Flex circuity plugs into a printed circuit board and creates a self-locking terminal pad which eliminates the need for an additional interconnect to the PCB.

**26482 Connector with Flex**

### Breakaway, Twist Pull Miniatures
Quick disconnect “breakaway” styles are shown in this catalogs. These are available in PT solder style plugs (page 26), PT-SE crimp style plugs (page 38) or PT-CE crimp style plugs (page 48). Quick disconnect of the connector plug from the receptacle is accomplished with axial pull on the lanyard. This instant decoupling and damage free separation is ideal for weapons release and blind or difficult accessibility situations. Separation forces vary per connector series. The plug and receptacle need to be fully mated before disengagement by the lanyard pull.

**Breakaway Twist Pull 26482**

### Filter Protection
Amphenol offers the FPT Series which combines the miniature PT series with an EMI filter. Designed to provide EMI protection for sensitive circuits, each circuit is individually filtered within the connector, eliminating the need for costly and bulky exterior network filters. Filter contacts are available in MF, HF, VHF, and UHF ranges and are intermateable and intermountable with MIL-C-26482 connectors. For further information see catalog 12-120, Amphenol EMI Filter Transient Protection Connectors. (online at www.amphenol-aerospace.com).

**26482 Connector with EMI Filter Protection**

**26482 Connector with Overmolded Cable**

### Overmolded Cable
Overmold seals and cables can be designed for almost any industrial application. A variety of materials are available: neoprene, hypalon and others; and a variety of lengths can be designed to meet customer specifications. Overmold seals to the rear of the connector and to the cable jacket providing moisture sealing.

# **Amphenol® Miniature Cylindrical**
# connector selection guide

The accompanying chart is provided to assist the user in selecting the appropriate type of miniature connector to meet the application requirements. Further information can be found in specific sections of this catalog.

| CHARACTERISTICS | | Solder | | | | Crimp | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | PT | MS/PT | SP | PC | MS/ PT-SE | PT-SE | SP-SE | PC-SE | PT-CE | SP-CE | PC-CE |
| Intermateable† | | o | o | o | X | o | o | o | X | o | o | X |
| Contacts | Solder | • | • | • | • | | | | | | | |
| | Crimp RI/FR | | | | | • | • | • | • | • | • | • |
| Contact Retention System | Non-Removable | • | • | • | • | | | | | | | |
| | Removable | | | | | • | • | • | • | • | • | • |
| Coupling | Bayonet | • | • | • | | • | • | • | | • | • | |
| | Threaded | | | | • | | | | • | | | • |
| Standard Finishes†† | Olive Drab Cadmium (003) | • | • | | | • | • | | | • | | |
| | Anodic Coated (005) | | | • | | | | • | | | • | |
| | Bright Cadmium (001) | | | | • | | | | • | | | • |
| Temperature Range | Resilient Dielectric (–55°C to +125°C) | • | • | • | • | • | • | • | • | • | • | • |
| Wide Mounting Flange | | | | • | | | | • | | | • | |
| Hermetic Seal | | • | • | • | • | | | | | | | |
| **SHELL STYLE AVAILABILITY** | | | | | | | | | | | | |
| Wall Mounting Receptacle “00” | | • | • | • | • | • | **• | • | • | • | • | |
| Cable Connecting Receptacle “01” *** | | • | • | | • | • | • | | • | • | | • |
| Box Mounting Receptacle “02” | | *• | • | • | *• | • | **• | • | • | • | • | |
| Straight Plug “06” | | • | • | • | • | • | • | • | • | • | • | • |
| Jam Nut Receptacle “07” | | *• | *• | • | *• | • | • | • | • | • | • | • |
| Thru-bulkhead Receptacle “TB” | | • | | • | | | | | | | | |
| Solder Mount Receptacle “I” | | *• | *• | | *• | | | | | | | |
| 90° Plug “08” | | • | | • | • | | • | • | • | • | • | |

RI/FR = Rear Insertion/Front Releasable

† o intermates with o
X intermates with X

†† Optional finishes available. See “how to order” sections.

* Available in hermetic version

** Dual mounting holes

*** This connector style is sometimes referred to as a cable connecting “plug.” It does, however, mate with either a straight or 90 degree plug.

Amphenol®/Matrix® MIL-C-26482, Series 2 bayonet coupling connectors with rear insertable and rear releaseable contacts are covered in another catalog - See pageXX for a brief description and see complete details in catalog 12-071 which is online at www.amphenol-aerospace.com.

# Amphenol® Miniature Cylindrical
## insert availability

| Insert Arrangement | Solder Termination | | | | | Crimp Termination | | Total Contacts | Contact Size | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MS/PT | PT | SP | PC | Hermetic PT MS-PT PC | MS/PT-SE PT-SE SP-SE PC-SE | PT-CE SP-CE PC-CE | | 20 | 16 | 12 | Coax 12 | Coax 8 | Service Rating |
| 6-1 | | X | X | X | X* | | | 1 | 1 | | | | | I |
| 8-2 | X | X | X | X | X | | X | 2 | 2 | | | | | I |
| 8-3 | X | X | X | X | X | | X | 3 | 3 | | | | | I |
| 8-4 | X | X | X | X | X | | X | 4 | 4 | | | | | I |
| 8-33 | | X | X | X | X | X | | 3 | 3 | | | | | I |
| 8-98 | | X | X | X | | | | 3 | 3 | | | | | I |
| 10-2 | | X | X | X | | | | 2 | | 2 | | | | I |
| 10-5 | | X | X | X | X* | | | 5 | 5 | | | | | I |
| 10-6 | X | X | X | X | X | X | X | 6 | 6 | | | | | I |
| 10-70 | | X | X | X | | | | 1 | | | | | 1 | Coax |
| 10-98 | X | X | X | X | X* | | X | 6 | 6 | | | | | I |
| 12-3 | X | X | X | X | X | X | X | 3 | | 3 | | | | II |
| 12-4 | | X | X | X | X* | | | 4 | | 4 | | | | I |
| 12-8 | X | X | X | X | X* | X | X | 8 | 8 | | | | | I |
| 12-10 | X | X | X | X | X | X | X | 10 | 10 | | | | | I |
| 12-14 | | X | X | X | | | | 14 | 14 | | | | | I |
| 12-98 | | X | X | X | | | | 10 | 10 | | | | | I |
| 14-2 | | X | X | X | | | | 2 | | | | 2 | | II |
| 14-4 | | S | S | S | X | | | 4 | | | 4 | | | I |
| 14-5 | X | X | X | X | X | X | X | 5 | | 5 | | | | II |
| 14-8 | | X | X | X | | | | 8 | 6 | | 2 | | | I |
| 14-12 | X | X | X | X | X | X | X | 12 | 8 | 4 | | | | I |
| 14-15 | X | X | X | X | X | X | X | 15 | 14 | 1 | | | | I |
| 14-18 | X | X | X | X | X* | X | X | 18 | 18 | | | | | I |
| 14-19 | X | X | X | X | X | X | X | 19 | 19 | | | | | I |
| 14-22 | | | | | | X* | | 5 | 1 | | 4 | | | I |
| 14-71 | | P | X | X | | | (02CE) | 4 | | 3 | | | 1 | I |
| 14-91 HV | | S | X | X | | X* | | 3 | 3 | | | | | ** |
| 14-AA | | X | X | X | X | | | 4 | | | 4 | | | I |
| 16-8 | X | X | X | X | X | X | X | 8 | | 8 | | | | II |
| 16-23 | X | X | X | X | | X | X | 23 | 22 | 1 | | | | I |
| 16-26 | X | X | X | X | X | X | X | 26 | 26 | | | | | I |
| 16-70 | | X | X | X | | | | 15 | 14 | | | 1 | | N/A |
| 16-76††† | | | | | | X* | | 14 | 8 | | 1 | 5 | | *** |
| 16-99 | X | X | X | X | | X | | 23 | 21 | 2 | | | | I |
| 18-5 | | X | X | X | | X* | | 5 | | | 5 | | | II |
| 18-8 | | | | | | | | 8 | | | 8 | | | I |
| 18-11 | X | X | X | X | X | X | X | 11 | | 11 | | | | II |
| 18-30 | X | X | X | X | X* | X | X | 30 | 29 | 1 | | | | I |

*Not available in MS version
**Flashover voltage 5,000 VAC (RMS)
***1500 VAC (RMS)
Sdesignates Socket insert only.
P designates Pin insert only.
†Size 12 contacts for #10 wire
††Not presently tooled
†††Contacts must be ordered separately

# Amphenol® Miniature Cylindrical
## insert availability, cont.

| Insert Arrangement | Solder Termination | | | | | Crimp Termination | | Total Contacts | Contact Size | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MS/PT | PT | SP | PC | Hermetic PT MS-PT PC | MS/PT-SE PT-SE SP-SE PC-SE | PT-CE SP-CE PC-CE | | 20 | 16 | 12 | Coax 12 | Coax 8 | Service Rating |
| 18-32 | X | X | X | X | X | X | X | 32 | 32 | | | | | I |
| 18-71 | | | | | | X* | | 9 | | 8 | | | 1 | Coax, II |
| 18-72 | | X | X | X | | | | 14 | 10 | | | 4 | | N/A |
| 18-75 | | X | X | X | | | | 4 | | | | | 4 | Coax |
| 18-76 | | | | | | | | 4 | | | | 3 | 1 | II |
| 18-80 | | X | X | X | | | X | 8 | 6 | | | | 2 | Coax, I |
| 18-91 HV | | | | | | X* | X | 6 | 6 | | | | | ** |
| 20-16 | X | X | X | X | X | X | X | 16 | | 16 | | | | II |
| 20-24 | X | X | X | X | | | X | 24 | 24 | | | | | I |
| 20-25 | | X | X | X | | | | 25 | 25 | | | | | I |
| 20-26 | | X | X | X | | | | 26 | 20 | | 6 | | | I |
| 20-27 | X | X | X | X | | | X | 27 | 27 | | | | | I |
| 20-39 | X | X | X | X | X | X | X | 39 | 37 | 2 | | | | I |
| 20-41 | X | X | X | X | X | X | X | 41 | 41 | | | | | I |
| 20-70 | | | | | | | | 14 | 10 | | | | 4 | Coax |
| 20-90 HV | | X | X | X | | | | 7 | 7 | | | | | Hi-Voltage |
| 22-7 | | X | X | X | | X* | | 7 | | | | | 7 | Coax |
| 22-21 | X | X | X | X | X | X | X | 21 | | 21 | | | | II |
| 22-25 | | | | | | X* | | 25 | | 25 | | | | I |
| 22-32 | X | X | X | X | | X | P | 32 | 32 | | | | | I |
| 22-34 | | X | X | X | | | X | 34 | 34 | | | | | I |
| 22-36 | | X | X | X | | | X | 36 | 36 | | | | | I |
| 22-41 | X | X | X | X | X | X | X | 41 | 27 | 14 | | | | I |
| 22-55 | X | X | X | X | X | X | X | 55 | 55 | | | | | I |
| 22-70 | | X | X | X | | | | 19 | 13 | | | | 6 | I, Coax |
| 22-71 | | | | | | | | 9 | 2 | | | | 7 | I, Coax |
| 22-72 | | X | X | X | | | | 19 | 12 | 4 | | | 3 | N/A |
| 22-78††† | | | | | | X* | | 7 | | | | | 7 | Coax |
| 22-96 | | | | | | X* | | 7 | | | 7† | | | II |
| 24-31 | | X | X | X | | | X | 31 | | 31 | | | | I |
| 24-51 | | | | | | X* | | 51 | 47 | | | 4 | | I |
| 24-61 | X | X | X | X | X | X | X | 61 | 61 | | | | | I |
| 24-71 | | X | X | X | | | | 49 | 45 | 2 | | | 2 | N/A |
| 24-79 | | | | | | | | 6 | 1 | | | | 5 | Coax |

*Not available in MS version
**Flashover voltage 5,000 VAC (RMS)
***1500 VAC (RMS)

†Size 12 contacts for #10 wire
††Not presently tooled
†††Contacts must be ordered separately

# Amphenol® Miniature Breakaway Twist Pull
## insert availability

**Insert Availability - Breakway Twist Pull**

| Insert Arrangement | Crimp Termination | | Solder Termination | Total Contacts | Contact Size | | | |
|---|---|---|---|---|---|---|---|---|
| | PT-CE | PT-SE | PT | | 20 | 16 | 12 | Service Rating |
| 8-2 | X | | X | 2 | 2 | | | I |
| 8-3 | X | | X | 3 | 3 | | | I |
| 8-4 | X | | X | 4 | 4 | | | I |
| 10-2 | | | X | 2 | | 2 | | I |
| 10-6 | X | X | X | 6 | 6 | | | I |
| 10-98 | X | | X | 6 | 6 | | | I |
| 10-99 | X | X | | 7 | 7 | | | I |
| 12-3 | X | X | X | 3 | | 3 | | II |
| 12-4 | | | X | 4 | | 4 | | I |
| 12-8 | X | X | X | 8 | 8 | | | I |
| 12-10 | X | X | X | 10 | 10 | | | I |
| 12-98 | | | X | 10 | 10 | | | I |
| 14-2 | | | X | 2 | | | 2 | II |
| 14-5 | X | X | X | 5 | | 5 | | II |
| 14-8 | | | X | 8 | 6 | | 2 | I |
| 14-12 | X | X | X | 12 | 8 | 4 | | I |
| 14-15 | X | X | X | 15 | 14 | 1 | | I |
| 14-16 | | | X | 4 | | 2 | 2 | II |
| 14-18 | X | X | X | 18 | 18 | | | I |
| 14-19 | X | X | X | 19 | 19 | | | I |
| 14-91 | | X | X | 3 | 3* | | | H.V. |
| 16-6 | | | X | 6 | | | 6 | I |
| 16-8 | X | X | X | 8 | | 8 | | II |
| 16-23 | X | X | X | 23 | 22 | 1 | | I |
| 16-26 | X | X | X | 26 | 26 | | | I |
| 16-99 | | X | X | 23 | 21 | 2 | | I |
| 18-5 | | X | X | 5 | | | 5 | II |
| 18-11 | X | X | X | 11 | | 11 | | II |
| 18-28 | | X | X | 28 | 26 | 2 | | I |
| 18-30 | X | X | X | 30 | 29 | 1 | | I |
| 18-32 | X | X | X | 32 | 32 | | | I |
| 18-91 | | X | X | 6 | 6* | | | H.V. |
| 20-8 | | | X | 8 | | 8 | | I |
| 20-16 | X | X | X | 16 | | 16 | | II |
| 20-24 | X | | X | 24 | 24 | | | I |
| 20-25 | | | X | 25 | 25 | | | I |
| 20-27 | X | | X | 27 | 27 | | | I |
| 20-39 | X | X | X | 39 | 37 | 2 | | I |
| 20-41 | X | X | X | 41 | 41 | | | I |
| 22-8 | | | X | 8 | | 8 | | II |
| 22-21 | X | X | X | 21 | | 21 | | II |
| 22-25 | | X | | 25 | | 25 | | I |
| 22-32 | X | X | X | 32 | 32 | | | I |
| 22-34 | X | | X | 34 | 34 | | | I |
| 22-36 | X | | X | 36 | 36 | | | I |
| 22-41 | | X | X | 41 | 27 | 14 | | I |
| 22-55 | X | X | X | 55 | 55 | | | I |
| 22-96 | | X | | 7 | | | 7† | II |
| 22-97 | | | X | 16 | | 16 | | II |
| 22-99 | | | X | 11 | | 11 | | II |
| 24-31 | X | | | 31 | | 31 | | I |
| 24-61 | X | X | X | 61 | 61 | | | I |

For further information regarding any additional insert patterns available in Breakaway Miniature connectors, please contact Amphenol Aerospace. For availability of shielded coax contacts within Breakaway Miniature connectors contact Amphenol.The Breakaway style pages are: PT (solder) breakaway plug is on page 26, the PT-SE (crimp) breakaway plug is on page 38, and the PT-CE (crimp) breakaway plug is on page 48.

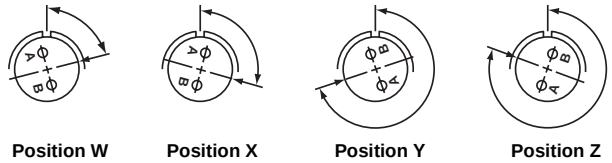
* 5KV Voltage Rating
† Size 12 contact for #10 wire.

# Amphenol® Miniature Cylindrical
## alternate positioning

### Alternate Positioning

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

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




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

| Insert Rotation | | | | | |
|---|---|---|---|---|---|
| Shell Size | Insert Arrangement | Degrees | | | |
| | | W | X | Y | Z |
| 6 | 6-1 | – | – | – | – |
| 8 | 8-2* | 58 | 122 | – | – |
| 8 | 8-3 | 60 | 210 | – | – |
| 8 | 8-4* | 45 | 97 | 184 | – |
| 8 | 8-33* | 90 | – | – | – |
| 8 | 8-98 | – | – | – | – |
| 10 | 10-2 | 45 | 90 | 315 | – |
| 10 | 10-5* | 45 | 151 | 180 | 270 |
| 10 | 10-6* | 90 | – | – | – |
| 10 | 10-70 | – | – | – | – |
| 10 | 10-98* | 90 | 180 | 240 | 270 |
| 12 | 12-3* | – | – | 180 | – |
| 12 | 12-4* | 38 | – | – | – |
| 12 | 12-8 | 90 | 112 | 203 | 292 |
| 12 | 12-10* | 60 | 155 | 270 | 295 |
| 12 | 12-14 | – | – | – | – |
| 12 | 12-98* | 61 | 135 | 189 | 340 |
| 14 | 14-2 | 58 | 122 | – | – |
| 14 | 14-4* | 45 | – | – | – |
| 14 | 14-5* | 40 | 92 | 184 | 273 |
| 14 | 14-8 | 48 | 162 | 189 | 312 |
| 14 | 14-12* | 43 | 90 | – | – |
| 14 | 14-15* | 17 | 110 | 155 | 234 |
| 14 | 14-18* | 15 | 90 | 180 | 270 |
| 14 | 14-19* | 30 | 165 | 315 | – |
| 14 | 14-22 | 45 | – | – | – |
| 14 | 14-71 | – | – | – | – |
| 14 | 14-91HV | – | 60 | – | – |
| 14 | 14-AA* | 45 | – | – | – |
| 16 | 16-8* | 54 | 152 | 180 | 331 |
| 16 | 16-23 | 158 | 270 | – | – |
| 16 | 16-26* | 60 | – | 275 | 338 |
| 16 | 16-70 | 41 | 122 | 216 | 286 |
| 16 | 16-76 | – | – | – | – |
| 16 | 16-99* | 66 | 156 | 223 | 340 |
| 18 | 18-5 | 55 | 97 | 263 | 315 |
| 18 | 18-8 | 180 | – | – | – |

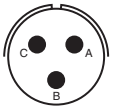
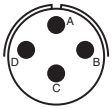
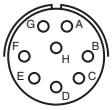
| Insert Rotation | | | | | |
|---|---|---|---|---|---|
| Shell Size | Insert Arrangement | Degrees | | | |
| | | W | X | Y | Z |
| 18 | 18-11* | 62 | 119 | 241 | 340 |
| 18 | 18-30* | 180 | 193 | 285 | 350 |
| 18 | 18-32* | 85 | 138 | 222 | 265 |
| 18 | 18-71 | 18 | 108 | 127 | 215 |
| 18 | 18-72 | 53 | 102 | 213 | 293 |
| 18 | 18-75 | 45 | – | – | – |
| 18 | 18-76 | – | – | – | – |
| 18 | 18-80 | 45 | 90 | 135 | 160 |
| 18 | 18-91HV | 90 | 180 | 240 | 270 |
| 20 | 20-16* | 238 | 318 | 333 | 347 |
| 20 | 20-24 | 70 | 145 | 215 | 290 |
| 20 | 20-25 | 72 | 144 | 216 | 288 |
| 20 | 20-26 | 13 | 107 | 210 | 322 |
| 20 | 20-27 | 72 | 144 | 216 | 288 |
| 20 | 20-39* | 63 | 144 | 252 | 333 |
| 20 | 20-41* | 45 | 126 | 225 | – |
| 20 | 20-70 | 63 | 135 | 222 | 335 |
| 20 | 20-90 | 45 | 135 | 225 | 315 |
| 22 | 22-7 | 19 | 41 | – | – |
| 22 | 22-21* | 16 | 135 | 175 | 349 |
| 22 | 22-25 | 60 | 125 | 211 | 336 |
| 22 | 22-32 | 72 | 145 | 215 | 288 |
| 22 | 22-34 | 62 | 142 | 218 | 298 |
| 22 | 22-36 | 72 | 144 | 216 | 288 |
| 22 | 22-41 | 39 | 135 | 264 | – |
| 22 | 22-55* | 30 | 142 | 226 | 314 |
| 22 | 22-70 | 30 | 82 | 218 | 312 |
| 22 | 22-71 | 33 | 191 | 236 | 270 |
| 22 | 22-72 | 42 | 200 | 277 | 339 |
| 22 | 22-78 | 19 | 41 | – | – |
| 22 | 22-96* | 19 | 41 | – | – |
| 24 | 24-31 | 90 | 225 | 255 | – |
| 24 | 24-51 | 22 | 171 | 313 | – |
| 24 | 24-61* | 90 | 180 | 270 | 324 |
| 24 | 24-71 | 39 | 131 | 205 | 281 |
| 24 | 24-79 | – | – | – | – |

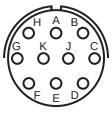
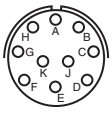
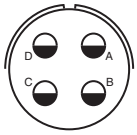
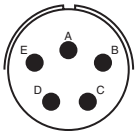
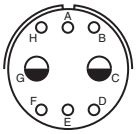
* Available in Hermetic Class

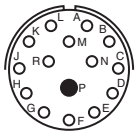
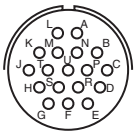
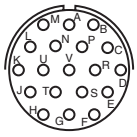
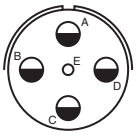
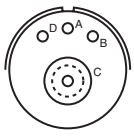
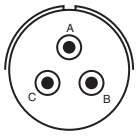
# **Amphenol® Miniature Cylindrical**
# insert arrangements

**front face of pin inserts illustrated**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Insert Arrangement** | **6-1** | **8-2** | **8-3** | **8-4** | **8-33** | **8-98** | **10-2** |
| **Service Rating** | **I** | **I** | **I** | **I** | **I** | **I** | **I** |
| **Number of Contacts** | **1** | **2** | **3** | **4** | **3** | **3** | **2** |
| **Contact Size** | **20** | **20** | **20** | **20** | **20** | **20** | **16** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | |  |  |  |
| **Insert Arrangement** | **10-5** | **10-6** | **10-70** | **10-98** | **12-3** | **12-4** | **12-8** |
| **Service Rating** | **I** | **I** | **Coax** | **I** | **II** | **I** | **I** |
| **Number of Contacts** | **5** | **6** | **1** | **6** | **3** | **4** | **8** |
| **Contact Size** | **20** | **20** | **8 Coax** | **20** | **16** | **16** | **20** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| |  | |  | |  |  |  |
| **Insert Arrangement** | **12-10** | **12-14** | **12-98** | **14-2** | **14-4** | **14-5** | **14-8** |
| **Service Rating** | **I** | **I** | **I** | **II** | **I** | **II** | **I** |
| **Number of Contacts** | **10** | **14** | **10** | **2** | **4** | **5** | **6 2** |
| **Contact Size** | **20** | **20** | **20** | **12** | **12** | **16** | **20 12** |

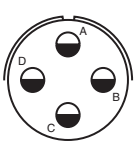
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  |
| **Insert Arrangement** | **14-12** | **14-15** | **14-18** | **14-19** | **14-22** | **14-71** | **14-91HV** **Flashover 5,000 VAC (RMS)** |
| **Service Rating** | **I** | **I** | **I** | **I** | **I** | **I** | |
| **Number of Contacts** | **8 4** | **14 1** | **18** | **19** | **1 4** | **3 1** | **3** |
| **Contact Size** | **20 16** | **20 16** | **20** | **20** | **20 12** | **16 8 Coax** | **20** |



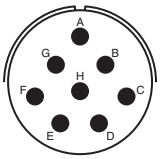
For contact legend see page 61.

# **Amphenol® Miniature Cylindrical**
# insert arrangements

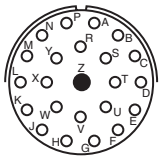
**front face of pin inserts illustrated**



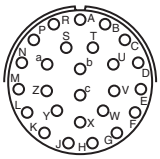
| | |
|---|---|
| **Insert Arrangement** | **14-AA** |
| **Service Rating** | **I** |
| **Number of Contacts** | **4** |
| **Contact Size** | **12** |



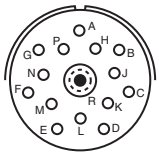
| | |
|---|---|
| **Insert Arrangement** | **16-8** |
| **Service Rating** | **II** |
| **Number of Contacts** | **8** |
| **Contact Size** | **16** |



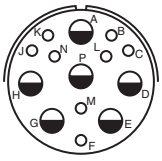
| | |
|---|---|
| **Insert Arrangement** | **16-23** |
| **Service Rating** | **I** |
| **Number of Contacts** | **22 1** |
| **Contact Size** | **20 16** |



| | |
|---|---|
| **Insert Arrangement** | **16-26** |
| **Service Rating** | **I** |
| **Number of Contacts** | **26** |
| **Contact Size** | **20** |

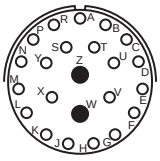


| | |
|---|---|
| **Insert Arrangement** | **16-70** |
| **Service Rating** | **N/A** |
| **Number of Contacts** | **14 1** |
| **Contact Size** | **20 12 Coax** |

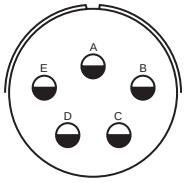


| | |
|---|---|
| **Insert Arrangement** | **16-76** |
| **Service Rating** | **Flashover 1.500 VAC (RMS)** |
| **Number of Contacts** | **8 1 5** |
| **Contact Size** | **20 12* 2 Coax*** |

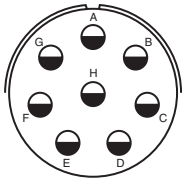
***Contact Positions Optional**



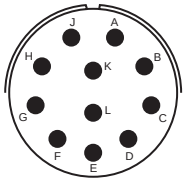
| | |
|---|---|
| **Insert Arrangement** | **16-99** |
| **Service Rating** | **I** |
| **Number of Contacts** | **21 2** |
| **Contact Size** | **20 16** |



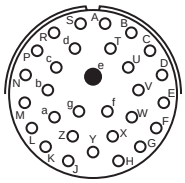
| | |
|---|---|
| **Insert Arrangement** | **18-5** |
| **Service Rating** | **II** |
| **Number of Contacts** | **5** |
| **Contact Size** | **12** |



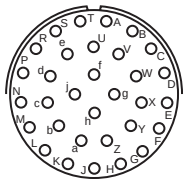
| | |
|---|---|
| **Insert Arrangement** | **18-8** |
| **Service Rating** | **I** |
| **Number of Contacts** | **8** |
| **Contact Size** | **12** |



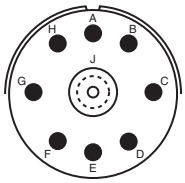
| | |
|---|---|
| **Insert Arrangement** | **18-11** |
| **Service Rating** | **II** |
| **Number of Contacts** | **11** |
| **Contact Size** | **16** |



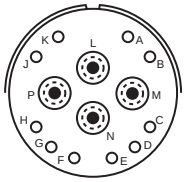
| | |
|---|---|
| **Insert Arrangement** | **18-30** |
| **Service Rating** | **I** |
| **Number of Contacts** | **29 1** |
| **Contact Size** | **20 16** |



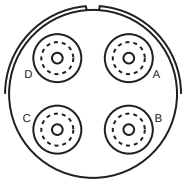
| | |
|---|---|
| **Insert Arrangement** | **18-32** |
| **Service Rating** | **I** |
| **Number of Contacts** | **32** |
| **Contact Size** | **20** |



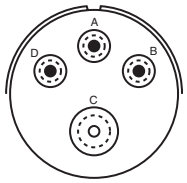
| | |
|---|---|
| **Insert Arrangement** | **18-71** |
| **Service Rating** | **II, Coax** |
| **Number of Contacts** | **8 1** |
| **Contact Size** | **16 8 Coax** |



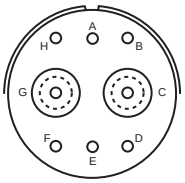
| | |
|---|---|
| **Insert Arrangement** | **18-72** |
| **Service Rating** | **N/A** |
| **Number of Contacts** | **10 4** |
| **Contact Size** | **20 12 Coax** |



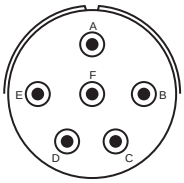
| | |
|---|---|
| **Insert Arrangement** | **18-75** |
| **Service Rating** | **Coax** |
| **Number of Contacts** | **4** |
| **Contact Size** | **8 Coax** |



| | |
|---|---|
| **Insert Arrangement** | **18-76** |
| **Service Rating** | **II** |
| **Number of Contacts** | **3 1** |
| **Contact Size** | **12 Coax 8 Coax** |



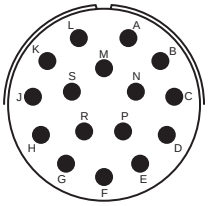
| | |
|---|---|
| **Insert Arrangement** | **18-80** |
| **Service Rating** | **I, Coax** |
| **Number of Contacts** | **6 2** |
| **Contact Size** | **20 8 Coax** |



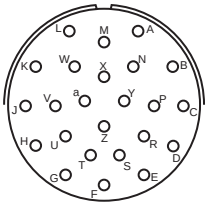
| | |
|---|---|
| **Insert Arrangement** | **18-91 HV** |
| **Service Rating** | **Flashover 5,000 VAC (RMS)** |
| **Number of Contacts** | **6** |
| **Contact Size** | **20** |

# **Amphenol® Miniature Cylindrical**
# insert arrangements

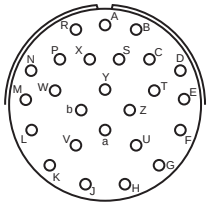
**front face of pin inserts illustrated**



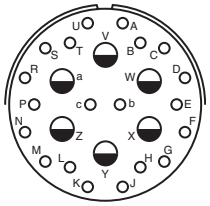
| | |
|---|---|
| **Insert Arrangement** | **20-16** |
| **Service Rating** | **II** |
| **Number of Contacts** | **16** |
| **Contact Size** | **16** |



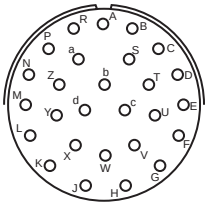
| | |
|---|---|
| **Insert Arrangement** | **20-24** |
| **Service Rating** | **I** |
| **Number of Contacts** | **24** |
| **Contact Size** | **20** |



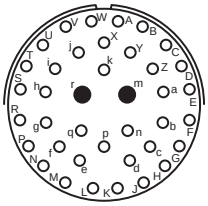
| | |
|---|---|
| **Insert Arrangement** | **20-25** |
| **Service Rating** | **I** |
| **Number of Contacts** | **25** |
| **Contact Size** | **20** |



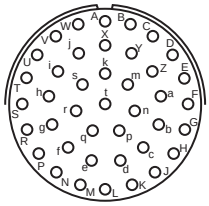
| | |
|---|---|
| **Insert Arrangement** | **20-26** |
| **Service Rating** | **I** |
| **Number of Contacts** | **20 6** |
| **Contact Size** | **20 12** |



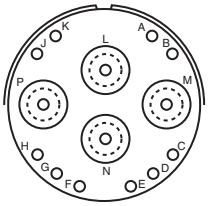
| | |
|---|---|
| **Insert Arrangement** | **20-27** |
| **Service Rating** | **I** |
| **Number of Contacts** | **27** |
| **Contact Size** | **20** |



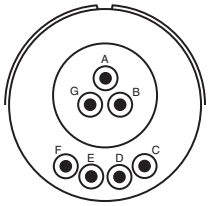
| | |
|---|---|
| **Insert Arrangement** | **20-39** |
| **Service Rating** | **I** |
| **Number of Contacts** | **37 2** |
| **Contact Size** | **20 16** |



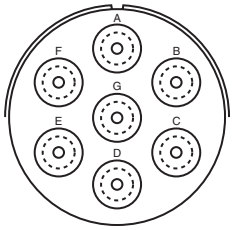
| | |
|---|---|
| **Insert Arrangement** | **20-41** |
| **Service Rating** | **I** |
| **Number of Contacts** | **41** |
| **Contact Size** | **20** |



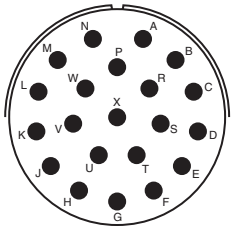
| | |
|---|---|
| **Insert Arrangement** | **20-70** |
| **Service Rating** | **Coax** |
| **Number of Contacts** | **10 4** |
| **Contact Size** | **20 8 Coax** |



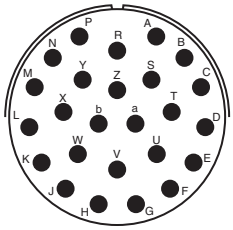
| | |
|---|---|
| **Insert Arrangement** | **20-90** |
| **Service Rating** | **Hi-Voltage** |
| **Number of Contacts** | **7** |
| **Contact Size** | **20** |



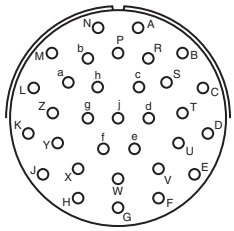
| | |
|---|---|
| **Insert Arrangement** | **22-7** |
| **Service Rating** | **Coax** |
| **Number of Contacts** | **7** |
| **Contact Size** | **8 Coax** |



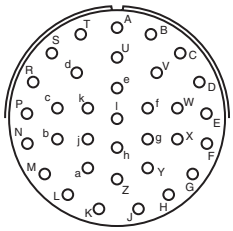
| | |
|---|---|
| **Insert Arrangement** | **22-21** |
| **Service Rating** | **II** |
| **Number of Contacts** | **21** |
| **Contact Size** | **16** |



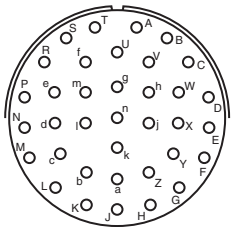
| | |
|---|---|
| **Insert Arrangement** | **22-25** |
| **Service Rating** | **I** |
| **Number of Contacts** | **25** |
| **Contact Size** | **16** |



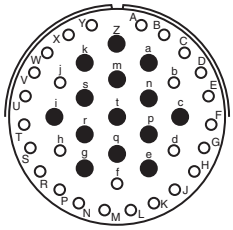
| | |
|---|---|
| **Insert Arrangement** | **22-32** |
| **Service Rating** | **I** |
| **Number of Contacts** | **32** |
| **Contact Size** | **20** |



| | |
|---|---|
| **Insert Arrangement** | **22-34** |
| **Service Rating** | **I** |
| **Number of Contacts** | **34** |
| **Contact Size** | **20** |



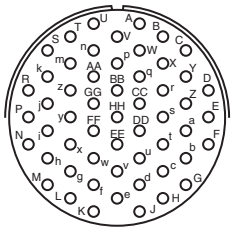
| | |
|---|---|
| **Insert Arrangement** | **22-36** |
| **Service Rating** | **I** |
| **Number of Contacts** | **36** |
| **Contact Size** | **20** |



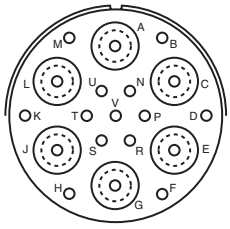
| | |
|---|---|
| **Insert Arrangement** | **22-41** |
| **Service Rating** | **I** |
| **Number of Contacts** | **27 14** |
| **Contact Size** | **20 16** |

# **Amphenol® Miniature Cylindrical**
# insert arrangements

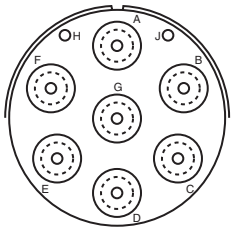
**front face of pin inserts illustrated**



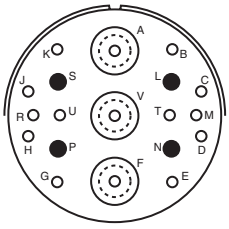
| | |
|---|---|
| **Insert Arrangement** | **22-55** |
| **Service Rating** | **I** |
| **Number of Contacts** | **55** |
| **Contact Size** | **20** |



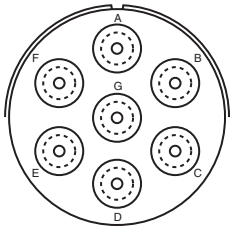
| | |
|---|---|
| **Insert Arrangement** | **22-70** |
| **Service Rating** | **I, Coax** |
| **Number of Contacts** | **13 6** |
| **Contact Size** | **20 8 Coax** |



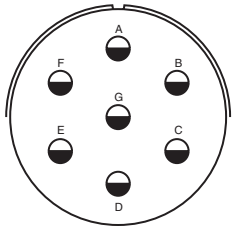
| | |
|---|---|
| **Insert Arrangement** | **22-71** |
| **Service Rating** | **I, Coax** |
| **Number of Contacts** | **2 7** |
| **Contact Size** | **20 8 Coax** |



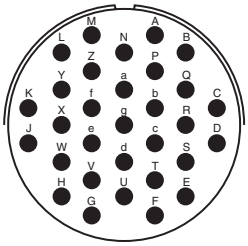
| | |
|---|---|
| **Insert Arrangement** | **22-72** |
| **Service Rating** | **N/A** |
| **Number of Contacts** | **12 4 3** |
| **Contact Size** | **20 16 8 Coax** |



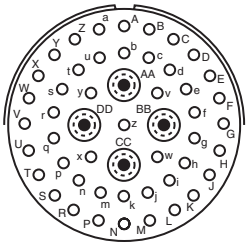
| | |
|---|---|
| **Insert Arrangement** | **22-78** |
| **Service Rating** | **Coax** |
| **Number of Contacts** | **7** |
| **Contact Size** | **8 Coax** |



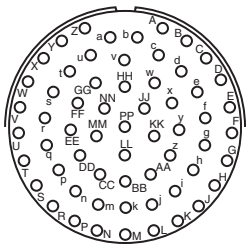
| | |
|---|---|
| **Insert Arrangement** | **22-96** |
| **Service Rating** | **II** |
| **Number of Contacts** | **7** |
| **Contact Size** | **12 for # 10 wire** |



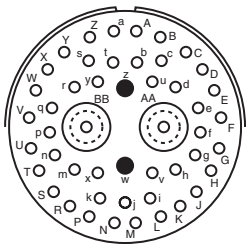
| | |
|---|---|
| **Insert Arrangement** | **24-31** |
| **Service Rating** | **I** |
| **Number of Contacts** | **31** |
| **Contact Size** | **16** |



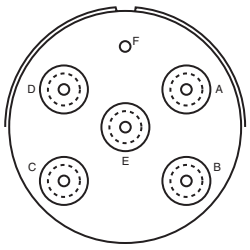
| | |
|---|---|
| **Insert Arrangement** | **24-51** |
| **Service Rating** | **I** |
| **Number of Contacts** | **47 4** |
| **Contact Size** | **20 12 Coax** |



| | |
|---|---|
| **Insert Arrangement** | **24-61** |
| **Service Rating** | **I** |
| **Number of Contacts** | **61** |
| **Contact Size** | **20** |



| | |
|---|---|
| **Insert Arrangement** | **24-71** |
| **Service Rating** | **N/A** |
| **Number of Contacts** | **45 2 2** |
| **Contact Size** | **20 16 8 Coax** |



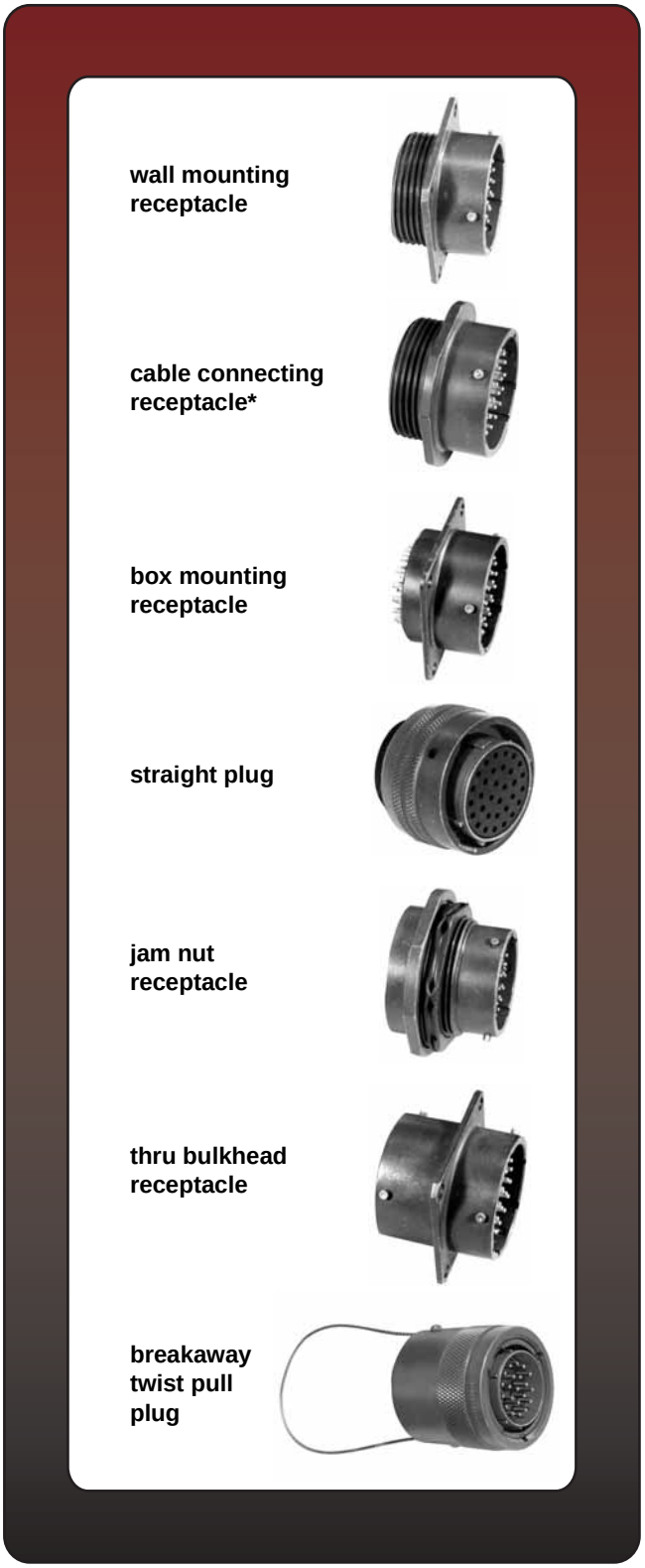
| | |
|---|---|
| **Insert Arrangement** | **24-79** |
| **Service Rating** | **Coax** |
| **Number of Contacts** | **1 5** |
| **Contact Size** | **20 8 Coax** |

**Contact Legend**

| Symbol | Contact Size |
|---|---|
| ○ | 20 |
| ● | 16 |
| ◒ | 12 |
| ◉ | HV |
| ◉ | 12 Coax |
| ◎ | 8 Coax |

# Amphenol® PT, SP, MS/PT

## Proprietary/MIL-C-26482, Series 1 bayonet coupling and solder termination




**Amphenol® solder contact miniature cylindrical connectors meet the most critical application needs. Design versatility combined with high reliability performance makes these series of Miniature Cylindrical Connectors ideal for environmental sealing or pressurized applications.**

The MS/PT Series is qualified to MIL-C-26482, Series 1 and has all the outstanding design characteristics and quality of the PT Series. The SP Series is a modification of the PT, providing special shells with a wide mounting flange for back panel mounting.

A corrosion resistant electrically conductive finish of cadmium plate with an olive drab chromate after-treatment is used on the PT and MS/PT. The SP is given a durable non-conductive hard anodic "Alumilite"® coating which provides abrasion protection and resistance to corrosion.

Shell components for these series are aluminum. The dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating with no chance of cross plugging. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical isolation of the contact in the insert.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design. A breakaway style plug is available in the PT solder series. Hermetics receptacles are available in PT and MS/PT solder series. Receptacles with printed circuit board contacts are also available.

PT Solder is UL recognized under file #E115497, Vol. 1, Sec. 5.

The PT, SP and MS/PT Series are intermateable and intermountable with all existing Miniature Cylindrical Series connectors except for the threaded coupling PC Series.

Refer to pages 4-11 for insert arrangement availability.

### PT, SP, MS/PT

**CONTACT DATA/CONNECTOR RATINGS**

| Contact Specifications | | | | |
|---|---|---|---|---|
| Contact Size | Test Current | Maximum Millivolt Drop† | Solder Well Diameter | Solder Well Depth |
| 20 | 7.5 | 55 | .046 +.004 –.000 | .125 +.031 –.000 |
| 16 | 13.0 | 50 | .078 +.005 –.003 | .188 +.031 –.000 |
| 12 | 23.0 | 42 | .116 +.004 –.002 | .188 +.031 –.000 |

| Service Rating | | | | | |
|---|---|---|---|---|---|
| | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| Service Rating | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482

* This connector style is sometimes referred to as a cable connecting "plug." It does, however, mate with a straight or 90 degree plug.

## PT, SP Service Classes

PT and SP connectors are available in the service classes listed below. Each class, with the exception of hermetic, offers one or more means of terminating or supporting a cable or wire bundle. Class "W" is not available in the SP Series.

"A" General duty; back shell is threaded for conduit attachment of MS3057 cable clamp

"A" (SR) General duty, with strain relief clamp for cable or wire bundle support

"C" Pressurized receptacle; less than 1 cu. in. per hour leakage at 30 psi over a temperature range of –65°F to +257°F

"E" Environmental resistant connectors - supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires

"E" (SR) Environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support

"J" Same as "W" class except with strain relief

"P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring

"P" (SR) Strain relief clamp suitable for retaining customer applied potting compounds, with provision for wire support

"W" Compressing clamp and neoprene gland for moisture proofing multi-conductor jacketed cables. Telescoping sleeves (MS 3420A) can be used to adapt to cables smaller than minimum close-down.

"H"* Hermetically sealed with compression glass inserts (see pages 22-25)

Style with printed circuit board contacts- see page 20.

Breakaway style - see page 26.

## MS/PT Service Classes

The MS/PT Miniature connector is available in the following certified service classes:

"E" Environmental resistant connectors - supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires

"F" Grommet seal with strain relief clamp

"P" Translucent nylon boot for retaining customer-applied potting compounds; held in place by a threaded ring

**"A"**
**general duty**

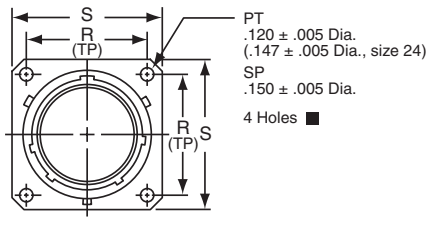
**"E" (SR),**
**MS / "F"**
**strain relief**

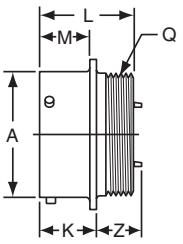
**"E",**
**MS / "E"**
**open wire seal**

**"P",**
**MS / "P"**
**potting boot**

**"W"**
**cable seal**

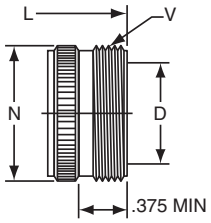
# PT00 (MS3110)
# SP00
## wall mounting receptacle



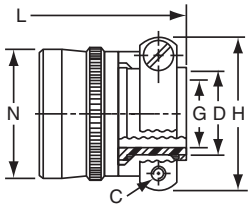

**TERMINATION ASSEMBLIES**

**"A" General Duty/ "C" Pressurized"**



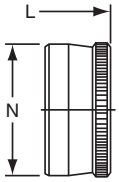

**PT00A-XX-XXX**
**SP00A-XX-XXX**
**PT00C-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR), MS / "F" Strain Relief**



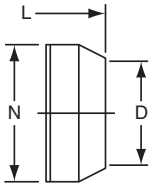

**PT00A-XX-XXX (SR)**
**SP00A-XX-XXX (SR)**
**PT00E-XX-XXX (SR)**
**SP00E-XX-XXX (SR)**
**PT00P-XX-XXX (SR)**
**SP00P-XX-XXX (SR)**
**MS3110F-XX-XXX**

**"E" Open Wire Seal**



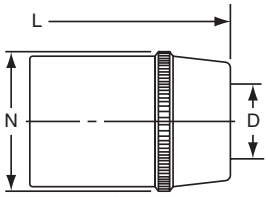

**PT00E-XX-XXX**
**SP00E-XX-XXX**
**MS3110E-XX-XXX**

**"P" Potting Boot**



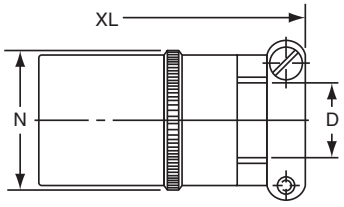

**PT00P-XX-XXX**
**SP00P-XX-XXX**
**MS3110P-XX-XXX**

**"W" Cable Seal**




**PT00W-XX-XXX**

**"J" Cable Seal**




**PT00J-XX-XXX**
**MS3110J-XX-XXX**

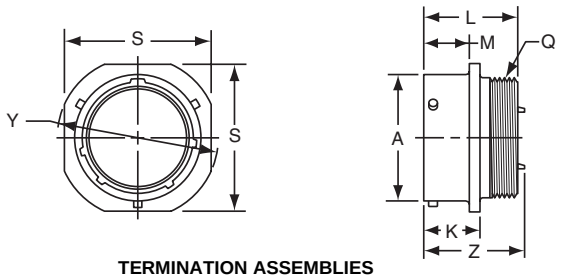
To complete part number see how to order on page 27.
■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View R (TP) PT | R (TP) SP | S Max. PT | S Max. SP | Receptacle Side View A +.001 –.005 | K +.020 –.010 PT | K +.020 –.010 SP | L Max. | M +.010 –.000 PT | M +.010 –.000 SP | Q Thread Class 2A | Z Max. PT | Z Max. SP | Class "A", "C" D Min. | L Max. | N Max. | V Thread Class A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | .469 | .641 | .688 | .953 | .348 | .493 | .524 | .906 | .431 | .462 | .3125-32 NEF | .468 | .438 | .175 | 1.553 | .462 | .3750-32 NEF |
| 8 | .594 | .734 | .812 | 1.047 | .473 | .493 | .524 | .906 | .431 | .462 | .4375-28 UNEF | .468 | .438 | .297 | 1.553 | .590 | .5000-28 UNEF |
| 10 | .719 | .812 | .938 | 1.125 | .590 | .493 | .524 | .906 | .431 | .462 | .5625-24 NEF | .468 | .438 | .421 | 1.553 | .717 | .6250-24 NEF |
| 12 | .812 | .938 | 1.031 | 1.250 | .750 | .493 | .524 | .906 | .431 | .462 | .6875-24 NEF | .468 | .438 | .546 | 1.553 | .834 | .7500-20 UNEF |
| 14 | .906 | 1.031 | 1.125 | 1.344 | .875 | .493 | .524 | .906 | .431 | .462 | .8125-20 UNEF | .468 | .438 | .663 | 1.553 | .970 | .8750-20 UNEF |
| 16 | .969 | 1.125 | 1.219 | 1.438 | 1.000 | .493 | .524 | .906 | .431 | .462 | .9375-20 UNEF | .468 | .438 | .787 | 1.553 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.062 | 1.203 | 1.312 | 1.516 | 1.125 | .493 | .524 | .906 | .431 | .462 | 1.0625-18 NEF | .531 | .438 | .879 | 1.553 | 1.216 | 1.1875-18 NEF |
| 20 | 1.156 | 1.297 | 1.438 | 1.672 | 1.250 | .650 | .650 | 1.125 | .556 | .556 | 1.1875-18 NEF | .531 | .531 | 1.014 | 1.703 | 1.332 | 1.1875-18 NEF |
| 22 | 1.250 | 1.375 | 1.562 | 1.750 | 1.375 | .650 | .650 | 1.125 | .556 | .556 | 1.3125-18 NEF | .531 | .531 | 1.134 | 1.703 | 1.460 | 1.4375-18 NEF |
| 24 | 1.375 | 1.500 | 1.688 | 1.875 | 1.500 | .683 | .683 | 1.188 | .589 | .589 | 1.4375-18 NEF | .498 | .498 | 1.259 | 1.765 | 1.585 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR), MS / "F" C Thread | D Min. | G Max. | H Max. | L Max. | N Max. | Class "E", MS / "E" L Max. | N Max. | Class "P", MS / "P" D Min. | L Max. | N Max. | Class "W", "J" D Closed | D Free | L Max. | N Max. | XL Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | – | – | – | – | – | – | 1.266 | .440 | .192 | 1.438 | .484 | – | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.922 | .550 | 1.266 | .560 | .317 | 1.438 | .608 | .168 | .230 | 1.705 | .547 | 2.271 |
| 10 | 6-32 | .302 | .188 | .875 | 1.922 | .675 | 1.266 | .685 | .434 | 1.438 | .734 | .205 | .312 | 1.705 | .675 | 2.271 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.922 | .803 | 1.266 | .813 | .548 | 1.438 | .858 | .338 | .442 | 1.848 | .812 | 2.411 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.922 | .920 | 1.266 | .930 | .673 | 1.438 | .984 | .416 | .539 | 2.040 | .940 | 2.599 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.266 | 1.057 | .798 | 1.438 | 1.110 | .550 | .616 | 2.256 | 1.067 | 2.943 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.266 | 1.175 | .899 | 1.438 | 1.234 | .600 | .672 | 2.486 | 1.194 | 3.172 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.344 | 1.290 | 1.516 | 1.301 | 1.024 | 1.656 | 1.360 | .635 | .747 | 2.922 | 1.322 | 3.610 |
| 22 | 8-32 | .928 | .750 | 1.625 | 2.344 | 1.418 | 1.516 | 1.430 | 1.149 | 1.656 | 1.484 | .670 | .846 | 3.086 | 1.449 | 3.766 |
| 24 | 8-32 | .990 | .800 | 1.719 | 2.406 | 1.543 | 1.578 | 1.555 | 1.274 | 1.717 | 1.610 | .740 | .894 | 3.310 | 1.576 | 3.985 |

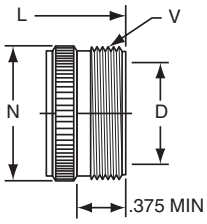
All dimensions for reference only.

# PT01 (MS3111)
## cable connecting receptacle



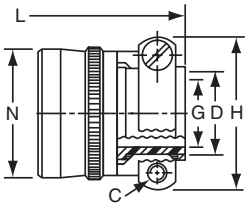

**TERMINATION ASSEMBLIES**

**"A" General Duty**



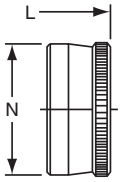

**PT01A-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR), MS / "F" Strain Relief**



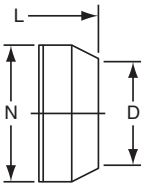

**PT01A-XX-XXX (SR)**
**PT01E-XX-XXX (SR)**
**PT01P-XX-XXX (SR)**
**MS3111F-XX-XXX**

**"E" Open Wire Seal**



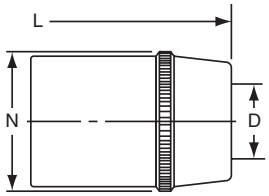

**PT01E-XX-XXX**
**MS3111E-XX-XXX**

**"P" Potting Boot**



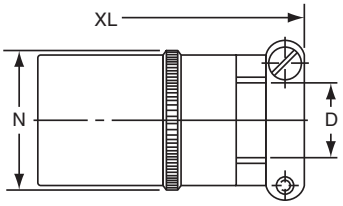

**PT01P-XX-XXX**
**MS3111P-XX-XXX**

**"W" Cable Seal**




**PT01W-XX-XXX**

**"J" Cable Seal**




**PT01J-XX-XXX**
**MS3111J-XX-XXX**

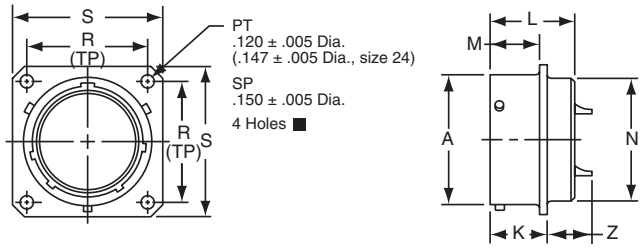
Note: This connector style is sometimes referred to as a cable connecting "plug".
It does, however, mate with either a straight or 90 degree plug.
To complete part number see how to order on page 27.

| Shell Size | Recept. Front View | | Receptacle Side View | | | | | | Class "A", | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S ±.020 | Y ±.020 | A +.001 –.005 | K +.020 –.010 | L Max. | M +.016 –.000 | Q Thread Class 2A | Z Max. | D Min. | L Max. | N Max. | V Thread Class A |
| 6 | .688 | .812 | .348 | .494 | .906 | .400 | .3125-32 NEF | .948 | .175 | 1.553 | .462 | .3750-32 NEF |
| 8 | .812 | .938 | .473 | .494 | .906 | .400 | .4375-28 UNEF | .948 | .297 | 1.553 | .590 | .5000-28 UNEF |
| 10 | .938 | 1.062 | .590 | .494 | .906 | .400 | .5625-24 NEF | .948 | .421 | 1.553 | .717 | .6250-24 NEF |
| 12 | 1.031 | 1.156 | .750 | .494 | .906 | .400 | .6875-24 NEF | .948 | .546 | 1.553 | .834 | .7500-20 UNEF |
| 14 | 1.125 | 1.250 | .875 | .494 | .906 | .400 | .8125-20 UNEF | .948 | .663 | 1.553 | .970 | .8750-20 UNEF |
| 16 | 1.219 | 1.344 | 1.000 | .494 | .906 | .400 | .9375-20 UNEF | .948 | .787 | 1.553 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.312 | 1.438 | 1.125 | .494 | .906 | .400 | 1.0625-18 NEF | .948 | .879 | 1.553 | 1.216 | 1.1875-18 NEF |
| 20 | 1.438 | 1.562 | 1.250 | .650 | 1.125 | .535 | 1.1875-18 NEF | 1.166 | 1.041 | 1.703 | 1.332 | 1.1875-18 NEF |
| 22 | 1.562 | 1.688 | 1.375 | .650 | 1.125 | .535 | 1.3125-18 NEF | 1.166 | 1.135 | 1.703 | 1.460 | 1.4375-18 NEF |
| 24 | 1.688 | 1.812 | 1.500 | .683 | 1.188 | .568 | 1.4375-18 NEF | 1.166 | 1.259 | 1.765 | 1.585 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR), MS / "F" | | | | | | Class "E", MS / "E" | | Class "P", MS / "P" | | | Class "W", "J" | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C Thread | D Min. | G Max. | H Max. | L Max. | N Max. | L Max. | N Max. | D Min. | L Max. | N Max. | D Closed | D Free | L Max. | N Max. | XL Max. |
| 6 | – | – | – | – | – | – | 1.266 | .440 | .192 | 1.438 | .484 | – | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.922 | .550 | 1.266 | .560 | .317 | 1.438 | .608 | .168 | .230 | 1.705 | .547 | 2.271 |
| 10 | 6-32 | .302 | .188 | .875 | 1.922 | .675 | 1.266 | .685 | .434 | 1.438 | .734 | .205 | .312 | 1.705 | .675 | 2.271 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.922 | .803 | 1.266 | .813 | .548 | 1.438 | .858 | .338 | .442 | 1.848 | .812 | 2.411 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.922 | .920 | 1.266 | .930 | .673 | 1.438 | .984 | .416 | .539 | 2.040 | .940 | 2.599 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.266 | 1.057 | .798 | 1.438 | 1.110 | .550 | .616 | 2.256 | 1.067 | 2.943 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.266 | 1.175 | .899 | 1.438 | 1.234 | .600 | .672 | 2.486 | 1.194 | 3.172 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.344 | 1.290 | 1.516 | 1.301 | 1.024 | 1.656 | 1.360 | .635 | .747 | 2.922 | 1.322 | 3.610 |
| 22 | 8-32 | .928 | .750 | 1.625 | 2.344 | 1.418 | 1.516 | 1.430 | 1.149 | 1.656 | 1.484 | .670 | .846 | 3.086 | 1.449 | 3.766 |
| 24 | 8-32 | .990 | .800 | 1.719 | 2.406 | 1.543 | 1.578 | 1.555 | 1.274 | 1.717 | 1.610 | .740 | .894 | 3.310 | 1.576 | 3.985 |

All dimensions for reference only.

# PT02 (MS3112)
# SP02
## box mounting receptacle



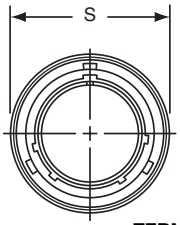

**PT02A-XX-XXX**
**SP02A-XX-XXX**
*** PT02C-XX-XXX**
*** SP02C-XX-XXX**
*** PT02E-XX-XXX**
*** SP02E-XX-XXX**
**MS3112E-XX-XXX**
*** PT02P-XX-XXX**
*** SP02P-XX-XXX**
**MS3112P-XX-XXX**
*** PT02W-XX-XXX**
*** SP02W-XX-XXX**

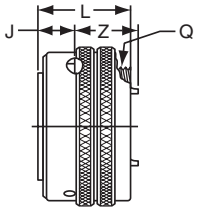
To complete part number see how to order on page 27.
■ (MMC) located within .0025 of (TP)
* The PT02 and SP02 box mounting receptacles are made only to complete a series; no provision is made for accessories or potting on the rear skirt.

| Shell Size | Receptacle Front View | | | | Receptacle Side View | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R (TP) | | S | | A +.001 –.005 | K +.020 –.010 | | L Max. | M +.010 –.000 | | N Dia. Max. | Z Max. | |
| | PT | SP | PT | SP | | PT | SP | | PT | SP | | PT | SP |
| 6 | .469 | .641 | .688 | .953 | .348 | .493 | .524 | .825 | .431 | .462 | .323 | .465 | .438 |
| 8 | .594 | .734 | .812 | 1.047 | .473 | .493 | .524 | .825 | .431 | .462 | .449 | .465 | .438 |
| 10 | .719 | .812 | .938 | 1.125 | .590 | .493 | .524 | .825 | .431 | .462 | .573 | .465 | .438 |
| 12 | .812 | .938 | 1.031 | 1.250 | .750 | .493 | .524 | .825 | .431 | .462 | .699 | .465 | .438 |
| 14 | .906 | 1.031 | 1.125 | 1.344 | .875 | .493 | .524 | .825 | .431 | .462 | .823 | .465 | .438 |
| 16 | .969 | 1.125 | 1.219 | 1.438 | 1.000 | .493 | .524 | .825 | .431 | .462 | .949 | .465 | .438 |
| 18 | 1.062 | 1.203 | 1.312 | 1.516 | 1.125 | .493 | .524 | .825 | .431 | .462 | 1.073 | .465 | .438 |
| 20 | 1.156 | 1.297 | 1.438 | 1.672 | 1.250 | .650 | .650 | 1.076 | .556 | .556 | 1.199 | .526 | .531 |
| 22 | 1.250 | 1.375 | 1.562 | 1.750 | 1.375 | .650 | .650 | 1.076 | .556 | .556 | 1.323 | .526 | .531 |
| 24 | 1.375 | 1.500 | 1.688 | 1.875 | 1.500 | .683 | .683 | 1.109 | .589 | .589 | 1.449 | .493 | .497 |

All dimensions for reference only.

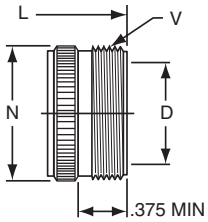
# PT06 (MS3116)
# SP06
## straight plug



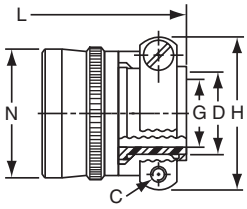

**TERMINATION ASSEMBLIES**

**"A" General Duty**



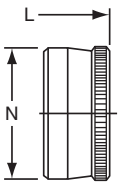

**PT06A-XX-XXX**
**SP06A-XX-XXX**
**PTG06A-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR), MS / "F" Strain Relief**



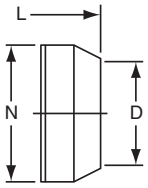

**PT06A-XX-XXX (SR)**
**SP06A-XX-XXX (SR)**
**PTG06A-XX-XXX (SR)**
**PT06E-XX-XXX (SR)**
**SP06E-XX-XXX (SR)**
**PTG06E-XX-XXX (SR)**
**PT06P-XX-XXX (SR)**
**SP06P-XX-XXX (SR)**
**PTG06P-XX-XXX (SR)**
**MS3116F-XX-XXX**

**"E" Open Wire Seal**



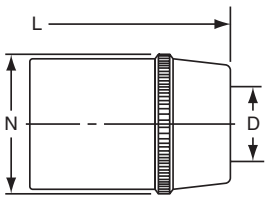

**PT06E-XX-XXX**
**SP06E-XX-XXX**
**PTG06E-XX-XXX**
**MS3116E-XX-XXX**

**"P" Potting Boot**



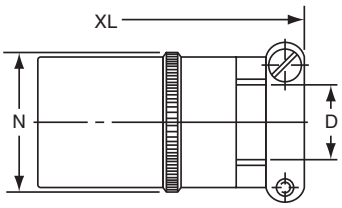

**PT06P-XX-XXX**
**SP06P-XX-XXX**
**PTG06P-XX-XXX**
**MS3116P-XX-XXX**

**"W" Cable Seal**




**PT06W-XX-XXX**
**SP06W-XX-XXX**
**PTG06W-XX-XXX**

**"J" Cable Seal**




**PT06J-XX-XXX**
**MS3116J-XX-XXX**

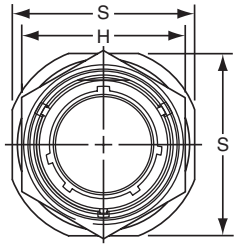
To complete part number see how to order on page 27.

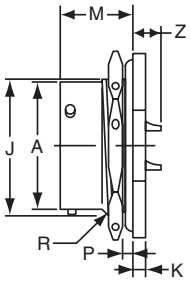
| Shell Size | Plug Front View S Max. | Plug Side View J | L Max. | Q Thread Class 2A | Z Max. | Class "A" D Min. | L Max. | N Max. | V Thread Class A |
|---|---|---|---|---|---|---|---|---|---|
| 6 | .625 | .353 | .906 | .3125-32 NEF | .594 | .175 | 1.609 | .462 | .3750-32 NEF |
| 8 | .750 | .353 | .906 | .4375-28 UNEF | .594 | .297 | 1.609 | .590 | .5000-28 UNEF |
| 10 | .859 | .353 | .906 | .5625-24 NEF | .594 | .421 | 1.609 | .717 | .6250-24 NEF |
| 12 | 1.013 | .353 | .906 | .6875-24 NEF | .594 | .546 | 1.609 | .834 | .7500-20 UNEF |
| 14 | 1.156 | .353 | .906 | .8125-20 UNEF | .594 | .663 | 1.609 | .970 | .8750-20 UNEF |
| 16 | 1.281 | .353 | .906 | .9375-20 UNEF | .594 | .787 | 1.609 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.319 | .353 | .906 | 1.0625-18 NEF | .594 | .879 | 1.609 | 1.216 | 1.1875-18 NEF |
| 20 | 1.531 | .415 | 1.062 | 1.1875-18 NEF | .672 | 1.014 | 1.656 | 1.332 | 1.1875-18 NEF |
| 22 | 1.656 | .415 | 1.062 | 1.3125-18 NEF | .672 | 1.135 | 1.656 | 1.460 | 1.4375-18 NEF |
| 24* | 1.776 | .415 | 1.125 | 1.4375-18 NEF | .672 | 1.259 | 1.750 | 1.587 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR), MS / "F" C Thread | D Min. | G ±.010 | H Max. | L Max. | N Max. | Class "E", MS / "E" L Max. | N Max. | Class "P", MS / "P" D Min. | L Max. | N Max. | Class "W", "J" D Closed | D Free | L Max. | N Max. | XL Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | – | – | – | – | – | – | 1.266 | .440 | .192 | 1.526 | .484 | – | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.906 | .550 | 1.266 | .560 | .317 | 1.526 | .608 | .168 | .230 | 1.705 | .547 | 2.271 |
| 10 | 6-32 | .302 | .188 | .875 | 1.906 | .675 | 1.266 | .685 | .434 | 1.526 | .734 | .205 | .312 | 1.705 | .675 | 2.271 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.906 | .803 | 1.266 | .813 | .548 | 1.526 | .858 | .338 | .442 | 1.848 | .812 | 2.411 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.906 | .920 | 1.266 | .930 | .673 | 1.526 | .984 | .416 | .539 | 2.040 | .940 | 2.599 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.266 | 1.057 | .798 | 1.526 | 1.110 | .550 | .616 | 2.256 | 1.067 | 2.943 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.266 | 1.175 | .899 | 1.526 | 1.234 | .600 | .672 | 2.486 | 1.194 | 3.172 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.250 | 1.290 | 1.438 | 1.301 | 1.024 | 1.546 | 1.360 | .635 | .747 | 2.844 | 1.322 | 3.610 |
| 22 | 8-32 | .928 | .750 | 1.625 | 2.250 | 1.418 | 1.438 | 1.430 | 1.149 | 1.546 | 1.484 | .670 | .846 | 3.000 | 1.449 | 3.766 |
| 24* | 8-32 | .990 | .800 | 1.750 | 2.312 | 1.543 | 1.500 | 1.555 | 1.274 | 1.656 | 1.610 | .740 | .894 | 3.210 | 1.576 | 3.985 |

* Available in PT06 only
All dimensions for reference only.

# PT07 (MS3114)
# SP07
## jam nut receptacle

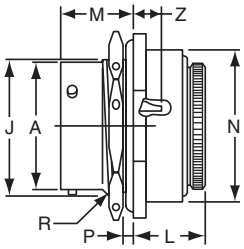



**"A" General Duty/**
**"C" Pressurized Receptacle**
**PT07A-XX-XXX**
**PT07C-XX-XXX**

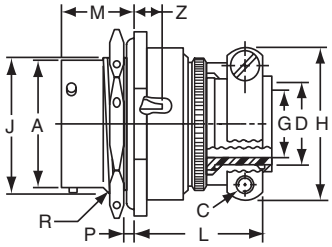
**TERMINATION ASSEMBLIES**

**"E" Open Wire Seal**



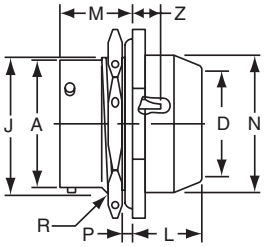

**PT07E-XX-XXX**
**SP07E-XX-XXX**
**MS3114E-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR), MS / "F" Strain Relief**




**PT07A-XX-XXX (SR)**
**SP07A-XX-XXX (SR)**
**PT07E-XX-XXX (SR)**
**MS3114F-XX-XXX**

**"P" Potting Boot**




**PT07P-XX-XXX**
**MS3114P-XX-XXX**

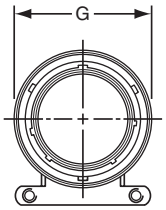
To complete part number see how to order on page 27.

| Shell Size | Recept. Front View H ±.016 | S | Receptacle Side View A Dia. +.001 –.005 | J Flat +.000 –.010 | K +.011 –.010 | M | P Panel Thickness Min. | Max. | R Thread Class 2A UNEF | Z | Class "E", MS / "E" L Max. | M | N Max. | Z ±.040 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | .625 | .812 | .348 | .405 | .125 | .696 | .062 | .125 | .4375-28 | .231 | .568 | .696 | .604 | .191 |
| 8 | .750 | .938 | .473 | .530 | .125 | .696 | .062 | .125 | .5625-24 | .231 | .568 | .696 | .729 | .191 |
| 10 | .875 | 1.062 | .590 | .655 | .125 | .696 | .062 | .125 | .6875-24 | .231 | .568 | .696 | .854 | .191 |
| 12 | 1.062 | 1.250 | .750 | .818 | .125 | .696 | .062 | .125 | .8750-20 | .231 | .568 | .696 | .979 | .191 |
| 14 | 1.188 | 1.375 | .875 | .942 | .125 | .696 | .062 | .125 | 1.0000-20 | .231 | .568 | .696 | 1.104 | .191 |
| 16 | 1.312 | 1.500 | 1.000 | 1.066 | .125 | .696 | .062 | .125 | 1.1250-18 | .231 | .568 | .696 | 1.229 | .191 |
| 18 | 1.438 | 1.625 | 1.125 | 1.191 | .125 | .696 | .062 | .125 | 1.2500-18 | .231 | .568 | .696 | 1.354 | .191 |
| 20 | 1.562 | 1.812 | 1.250 | 1.316 | .156 | .884 | .062 | .250 | 1.3750-18 | .261 | .630 | .884 | 1.510 | .221 |
| 22 | 1.688 | 1.938 | 1.375 | 1.441 | .156 | .884 | .062 | .250 | 1.5000-18 | .261 | .630 | .884 | 1.635 | .221 |
| 24 | 1.816 | 2.062 | 1.500 | 1.566 | .156 | .917 | .062 | .250 | 1.6250-18 | .228 | .660 | .917 | 1.760 | .188 |

| Shell Size | Class "A" (SR), "P" (SR), MS / "F" C Thread | D Max. | G | H | L | M | Class "E" (SR) C Thread | D Max. | G | H | L | M | Class "P", MS / "P" D Max. | L +.010 –.026 | M | N | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | – | – | – | – | – | – | – | – | – | – | – | – | .202 | .593 | .696 | .484 | .191 |
| 8 | 6-32 | .250 | .125 | .781 | 1.062 | .696 | 6-32 | .250 | .125 | .775 | 1.029 | .696 | .327 | .593 | .696 | .608 | .191 |
| 10 | 6-32 | .312 | .188 | .844 | 1.062 | .696 | 6-32 | .312 | .188 | .837 | 1.029 | .696 | .444 | .593 | .696 | .734 | .191 |
| 12 | 6-32 | .438 | .312 | .969 | 1.062 | .696 | 6-32 | .438 | .312 | .963 | 1.029 | .696 | .558 | .593 | .696 | .858 | .191 |
| 14 | 6-32 | .562 | .375 | 1.094 | 1.062 | .696 | 6-32 | .562 | .375 | 1.087 | 1.029 | .696 | .683 | .593 | .696 | .984 | .191 |
| 16 | 6-32 | .625 | .500 | 1.156 | 1.188 | .696 | 6-32 | .625 | .500 | 1.150 | 1.161 | .696 | .808 | .593 | .696 | 1.110 | .191 |
| 18 | 8-32 | .750 | .625 | 1.406 | 1.188 | .696 | 8-32 | .750 | .625 | 1.400 | 1.161 | .696 | .909 | .593 | .696 | 1.234 | .191 |
| 20 | 8-32 | .750 | .625 | 1.406 | 1.250 | .884 | 8-32 | .750 | .625 | 1.400 | 1.224 | .884 | 1.034 | .718 | .884 | 1.360 | .221 |
| 22 | 8-32 | .938 | .750 | 1.594 | 1.250 | .884 | 8-32 | .938 | .750 | 1.587 | 1.224 | .884 | 1.159 | .718 | .884 | 1.484 | .221 |
| 24* | 8-32 | 1.000 | .800 | 1.594 | 1.250 | .917 | 8-32 | 1.000 | .800 | 1.681 | 1.320 | .917 | 1.284 | .718 | .917 | 1.610 | .188 |

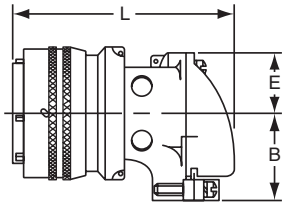
* Size 24 strain relief available in PT only. All dimensions for reference only.

# PT08 E
# SP08 E
## 90 degree plug

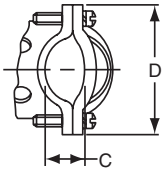



**TERMINATION ASSEMBLIES**

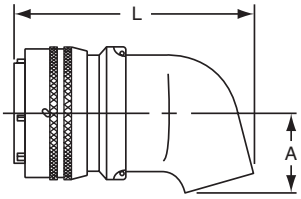
**"E" Open Wire Seal, "E" (SR) Strain Relief**



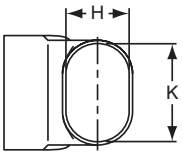

**PT08E-XX-XXX**
**SP08E-XX-XXX**
**PT08E-XX-XXX (SR)**
**SP08E-XX-XXX (SR)**




**"P" Potting Boot 75 degrees**




**PT08P-XX-XXX**
**SP08P-XX-XXX**




To complete part number see how to order on page 27.
All lockwire holes are .044 Dia. Min.

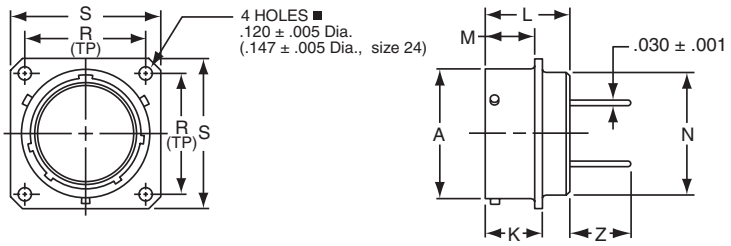
| Shell Size | Plug Front View | Plug Side View | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Class "E", "E" (SR) | | | | | Class "P" | | | |
| | G Dia. Max. | B ±.031 | C +.010 −.025 | D ±.062 | E +.047 −.025 | L ±.057 | A ±.025 | H ±.015 | K ±.015 | L Max. |
| 8 | .796 | .655 | .169 | .941 | .339 | 1.786 | .469 | .312 | .438 | 1.656 |
| 10 | .921 | .749 | .170 | 1.191 | .393 | 1.880 | .547 | .438 | .562 | 1.781 |
| 12 | 1.046 | .812 | .264 | 1.191 | .450 | 1.965 | .625 | .516 | .688 | 1.843 |
| 14 | 1.171 | .905 | .310 | 1.254 | .519 | 2.113 | .734 | .625 | .781 | 1.953 |
| 16 | 1.297 | 1.030 | .330 | 1.316 | .583 | 2.315 | .750 | .656 | .890 | 2.000 |
| 18 | 1.422 | 1.015 | .444 | 1.562 | .621 | 2.423 | .781 | .703 | 1.000 | 2.046 |
| 20 | 1.562 | 1.077 | .510 | 1.625 | .683 | 2.695 | .859 | .766 | 1.125 | 2.218 |
| 22 | 1.672 | 1.139 | .515 | 1.719 | .739 | 2.742 | .906 | .812 | 1.234 | 2.265 |
| 24 | 1.797 | 1.265 | .656 | 1.751 | .797 | 2.980 | 1.169 | .918 | 1.374 | 2.624 |

All dimensions for reference only.

# PT Connectors with Printed Circuit Board Contacts

## Box Mounting Receptacle (PT02) with PCB Contacts

Order by applicable part number in chart below; add insert arrangement number. Refer to insert availability on pages 4-11.
■ (MMC) located within .0025 of (TP)

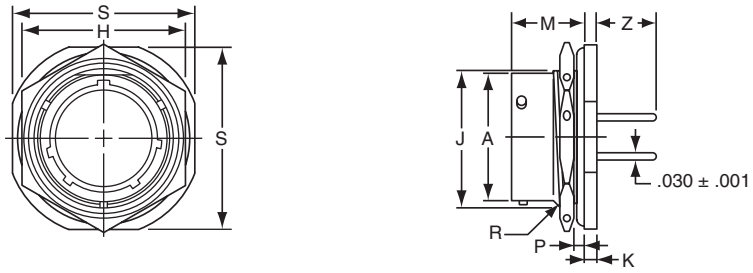



| Shell Size | Part Number* PT02 with PCB Contacts | Receptacle Front View | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | R (TP) | S +.011 –.010 | A +.001 –.005 | K +.021 –.010 | L Max. | M +.010 –.000 | N Dia. Max. | Z +.040 –.050 |
| 6 | 71-570120-XXX | .469 | .688 | .348 | .493 | .825 | .431 | .323 | .380 |
| 8 | 71-570121-XXX | .594 | .812 | .473 | .493 | .825 | .431 | .449 | .380 |
| 10 | 71-570122-XXX | .719 | .938 | .590 | .493 | .825 | .431 | .573 | .380 |
| 12 | 71-570123-XXX | .812 | 1.031 | .750 | .493 | .825 | .431 | .699 | .380 |
| 14 | 71-570124-XXX | .906 | 1.125 | .875 | .493 | .825 | .431 | .823 | .380 |
| 16 | 71-570125-XXX | .969 | 1.219 | 1.000 | .493 | .825 | .431 | .949 | .380 |
| 18 | 71-570126-XXX | 1.062 | 1.312 | 1.125 | .493 | .825 | .431 | 1.073 | .380 |
| 20 | 71-570127-XXX | 1.156 | 1.438 | 1.250 | .650 | 1.076 | .556 | 1.199 | .286 |
| 22 | 71-570128-XXX | 1.250 | 1.562 | 1.375 | .650 | 1.076 | .556 | 1.323 | .286 |
| 24 | 71-570129-XXX | 1.375 | 1.688 | 1.500 | .683 | 1.109 | .589 | 1.449 | .253 |

All dimensions for reference only.

## Jam Nut Receptacle (PT07) with PCB Contacts

All lockwire holes are .044 Dia. Min.
Order by applicable part number in chart below; add insert arrangement number. Refer to insert availability on pages 4-11.

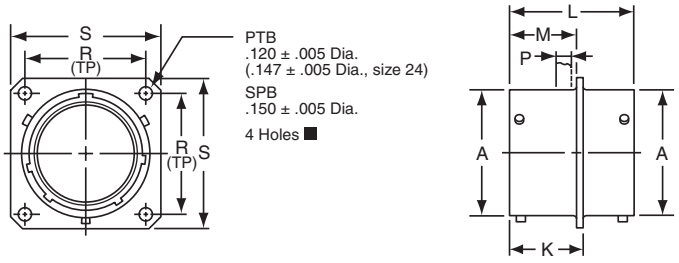



| Shell Size | Part Number* PT07 with PCB Contacts | Receptacle Front View | | Receptacle Side View | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | H +.017 –.016 | S ±.010 | A Dia. +.001 –.005 | J Flat +.000 –.010 | K +.011 –.010 | M ±.010 | P Panel Thickness Min. | P Panel Thickness Max. | R Thread Class 2A | Z +.025 –.035 |
| 6 | 71-533720-XXX | .625 | .812 | .348 | .405 | .125 | .696 | .062 | .125 | .4375-28 UNEF | .376 |
| 8 | 71-533721-XXX | .750 | .938 | .473 | .530 | .125 | .696 | .062 | .125 | .5625-24 UNEF | .376 |
| 10 | 71-533722-XXX | .875 | 1.062 | .590 | .655 | .125 | .696 | .062 | .125 | .6875-24 UNEF | .376 |
| 12 | 71-533723-XXX | 1.062 | 1.250 | .750 | .818 | .125 | .696 | .062 | .125 | .8750-20 UNEF | .376 |
| 14 | 71-533724-XXX | 1.188 | 1.375 | .875 | .942 | .125 | .696 | .062 | .125 | 1.0000-20 UNEF | .376 |
| 16 | 71-533725-XXX | 1.312 | 1.500 | 1.000 | 1.066 | .125 | .696 | .062 | .125 | 1.1250-18 UNEF | .376 |
| 18 | 71-533726-XXX | 1.438 | 1.625 | 1.125 | 1.191 | .125 | .696 | .062 | .125 | 1.2500-18 UNEF | .376 |
| 20 | 71-533727-XXX | 1.562 | 1.812 | 1.250 | 1.316 | .156 | .884 | .062 | .250 | 1.3750-18 UNEF | .367 |
| 22 | 71-533728-XXX | 1.688 | 1.938 | 1.375 | 1.441 | .156 | .884 | .062 | .250 | 1.5000-18 UNEF | .367 |
| 24 | 71-533729-XXX | 1.816 | 2.062 | 1.500 | 1.566 | .156 | .917 | .062 | .250 | 1.6250-18 UNEF | .334 |

All dimensions for reference only.

* For RoHS compliance connectors with PCB contacts change “71”- to:
“58” designates conductive black zinc cobalt plating
“93” designates non-conductive black zinc cobalt plating

# PTB
# SPB
## thru bulkhead receptacle




*** PTB-XX-XXX**
*** SPB-XX-XXX**

* To complete part number add desired arrangement number (refer to pages 4 and 5 for insert availability) and add "PS"; Example: PTB-18-32PS. If a rotation is required, use PTB-18-32PS and add W, X, Y or Z. Example: PTB-18-32 PSW. The socket end of the insert always appears at the "P" dimension end of shell.

■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View | | | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | R (TP) | | S | | A +.001 −.005 | K +.016 −.000 | L ±.005 | M +.010 −.000 | P Max. | |
| | PTB | SPB | PTB | SPB | | | | | PTB | SPB |
| 6 | .469 | .641 | .688 | .953 | .348 | .625 | 1.050 | .562 | .125 | .188 |
| 8 | .594 | .734 | .812 | 1.047 | .473 | .625 | 1.050 | .562 | .125 | .188 |
| 10 | .719 | .812 | .938 | 1.125 | .590 | .625 | 1.050 | .562 | .125 | .188 |
| 12 | .812 | .938 | 1.031 | 1.250 | .750 | .625 | 1.050 | .562 | .125 | .188 |
| 14 | .906 | 1.031 | 1.125 | 1.344 | .875 | .625 | 1.050 | .562 | .125 | .188 |
| 16 | .969 | 1.125 | 1.219 | 1.438 | 1.000 | .625 | 1.050 | .562 | .125 | .188 |
| 18 | 1.062 | 1.203 | 1.312 | 1.516 | 1.125 | .625 | 1.050 | .562 | .125 | .188 |
| 20 | 1.156 | 1.297 | 1.438 | 1.672 | 1.250 | .781 | 1.330 | .688 | .125 | .312 |
| 22 | 1.250 | 1.375 | 1.562 | 1.750 | 1.375 | .781 | 1.330 | .688 | .125 | .312 |
| 24 | 1.375 | 1.500 | 1.688 | 1.875 | 1.500 | .781 | 1.330 | .688 | .125 | .312 |

All dimensions for reference only.

# PT
# hermetic

**solder mounting receptacle**

**box mounting receptacle**

**jam nut receptacle**

**Three shell styles are available in the hermetic PT bayonet series:**

- **PTIH (MS3113H)**
- **PT02H**
- **PT07H (MS3114H)**

These hermetic connectors are only available with solder cup or flat eyelet pin contacts in the MS/PT version. Socket contacts are available in some proprietary PT versions. Other design characteristics of the PT hermetic connector series are as follows:

Shell sizes: 8 through 24 (tin plated)

Contact count: 2 through 61. Refer to pages 4 and 5 for insert availability for hermetics.

Current: 5.0 amp each #20 contact
10 amp each #16 contact
17 amp each #12 contact

Contacts are tin plated for PT; gold is optional

Dielectric Withstanding Voltage (sea level):
1500 volts (RMS) 60 cps, Service Rating I
2300 volts (RMS) 60 cps, Service Rating II

Compression glass inserts, permanently lettered

Helium Leakage: Less than 1.0 X $10^{-6}$ cc/sec. at 15 psi differential

Physical Shock: 100 G's

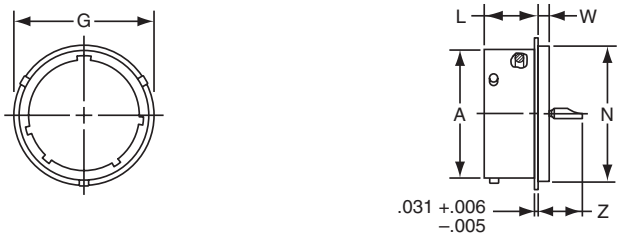
Vibration: Exceeds MIL-E-5272 Procedure II

Thermal Shock: No deterioration or failure after 5 cycles at –55°F to +257°F

Intermateability: Mates with MS3116 and PT06

Refer to pages 4-11 for insert arrangement availability.

# PTIH (MS3113H)
## hermetic solder mounting receptacle



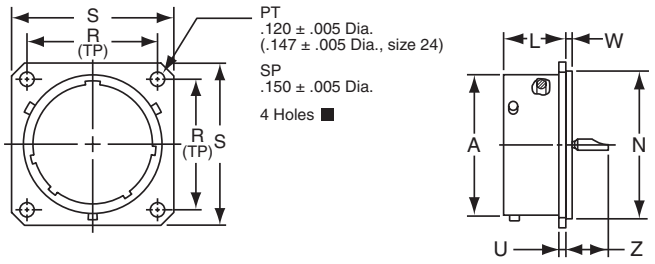

*** PTIH-XX-XXX**
**** PTIY-XX-XXX**
**** MS3113H-XXCXXX**
**† PTIH-XX-XXX (100)**
**†† PTIY-XX-XXX (100)**
**†† MS3113H-XXYXXX**

To complete part number see how to order on page 27.
* Solder cup pin contacts without interfacial seal
** Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
†† Flat eyelet pin contacts with interfacial seal

| Shell Size | Recept. Front View | Receptacle Side View | | | | |
|---|---|---|---|---|---|---|
| | G Dia. Max. | A Dia. +.001 –.005 | L +.025 –.016 | N Dia. +.001 –.005 | W +.011 –.010 | Z Max. |
| 6 | .511 | .348 | .447 | .438 | .094 | .386 |
| 8 | .636 | .473 | .447 | .562 | .094 | .386 |
| 10 | .761 | .590 | .447 | .672 | .094 | .386 |
| 12 | .855 | .750 | .447 | .781 | .094 | .386 |
| 14 | .980 | .875 | .447 | .906 | .094 | .386 |
| 16 | 1.105 | 1.000 | .447 | 1.031 | .094 | .386 |
| 18 | 1.229 | 1.125 | .447 | 1.156 | .094 | .386 |
| 20 | 1.323 | 1.250 | .509 | 1.250 | .094 | .386 |
| 22 | 1.449 | 1.375 | .509 | 1.375 | .125 | .418 |
| 24 | 1.574 | 1.500 | .542 | 1.500 | .125 | .418 |

All dimensions for reference only.

# PT02H
## hermetic box mounting receptacle



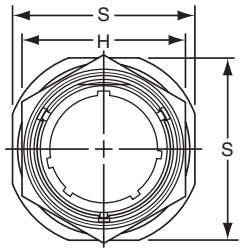

***** **PT02H-XX-XXX**
****** **PT02Y-XX-XXX**
† **PT02H-XX-XXX (100)**
†† **PT02Y-XX-XXX (100)**

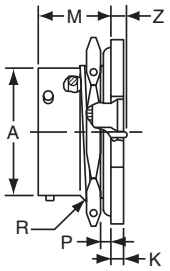
To complete part number see how to order on page 27.
* Solder cup pin contacts without interfacial seal
** Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
†† Flat eyelet pin contacts with interfacial seal
■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|
| | R (TP) | S ±.016 | A Dia. +.001 –.005 | K ±.015 | L +.025 –.015 | N Dia. +.001 –.005 | U +.011 –.010 | Z Max. |
| 6 | .469 | .688 | .348 | .047 | .494 | .438 | .062 | .344 |
| 8 | .594 | .812 | .473 | .047 | .494 | .562 | .062 | .344 |
| 10 | .719 | .938 | .590 | .047 | .494 | .672 | .062 | .344 |
| 12 | .812 | 1.031 | .750 | .047 | .494 | .781 | .062 | .344 |
| 14 | .906 | 1.125 | .875 | .047 | .494 | .906 | .062 | .344 |
| 16 | .969 | 1.219 | 1.000 | .047 | .494 | 1.031 | .062 | .344 |
| 18 | 1.062 | 1.312 | 1.125 | .047 | .494 | 1.156 | .062 | .344 |
| 20 | 1.156 | 1.438 | 1.250 | .047 | .556 | 1.250 | .062 | .344 |
| 22 | 1.250 | 1.562 | 1.375 | .079 | .556 | 1.375 | .062 | .377 |
| 24 | 1.375 | 1.688 | 1.500 | .079 | .588 | 1.500 | .062 | .377 |

All dimensions for reference only.

# PT07H (MS3114H)
## hermetic jam nut receptacle




*** PT07H-XX-XXX**
**** PT07Y-XX-XXX**
**** MS3114H-XXCXXX**
**† PT07H-XX-XXX (100)**
**†† PT07Y-XX-XXX (100)**
**†† MS3114H-XXYXXX**

To complete part number see how to order on page 27.
* Solder cup pin contacts without interfacial seal
** Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
†† Flat eyelet pin contacts with interfacial seal

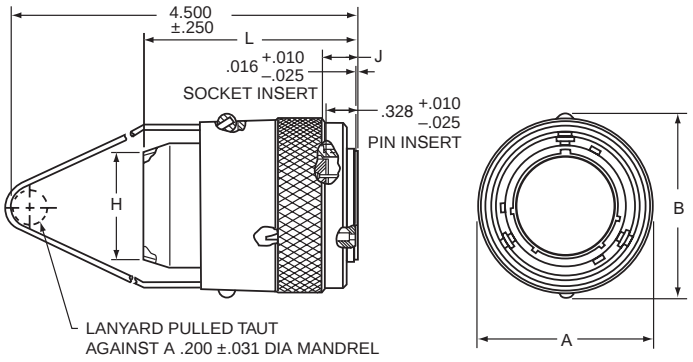
| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | S +.016 | H Hex +.017 −.016 | A +.001 −.005 | K +.043 −.016 | M +.031 −.000 | P Panel Thickness Max. | P Panel Thickness Min. | R Thread Class 2A | Z Max. |
| 6 | .812 | .625 | .348 | .094 | .696 | .125 | .062 | .4375-28 UNEF | .206 |
| 8 | .938 | .750 | .473 | .094 | .696 | .125 | .062 | .5625-24 NEF | .206 |
| 10 | 1.062 | .875 | .590 | .094 | .696 | .125 | .062 | .6875-24 NEF | .206 |
| 12 | 1.250 | 1.062 | .750 | .094 | .696 | .125 | .062 | .8750-20 UNEF | .206 |
| 14 | 1.375 | 1.188 | .875 | .094 | .696 | .125 | .062 | 1.0000-20 UNEF | .206 |
| 16 | 1.500 | 1.312 | 1.000 | .094 | .696 | .125 | .062 | 1.1250-18 NEF | .206 |
| 18 | 1.625 | 1.438 | 1.125 | .094 | .696 | .125 | .062 | 1.2500-18 NEF | .206 |
| 20 | 1.812 | 1.562 | 1.250 | .125 | .884 | .250 | .062 | 1.3750-18 NEF | .081 |
| 22 | 1.938 | 1.688 | 1.375 | .125 | .884 | .250 | .062 | 1.5000-18 NEF | .081 |
| 24 | 2.062 | 1.812 | 1.500 | .125 | .917 | .250 | .062 | 1.6250-18 NEF | .048 |

All dimensions for reference only.

# PT Breakaway
## twist pull plug

The PT miniature breakaway connector has the following design features:

- solder contacts, potted termination
- instant decoupling of plug and receptacle with an axial pull on the lanyard when they are fully mated
- intermateable with standard receptacles
- operating voltage to 900 VAC (RMS) at sea level
- same quick positive bayonet coupling and 5 key/keyway polarization as other PT styles




**Breakaway Plug with PT Solder Contacts, Potted Termination**
**71-3048XX-( )**
**72-3048XX-( )**

| Part Number* | Shell Size | A Dia. Max. | B Max. | H ±.016 | J ±.010 | L Max. |
|---|---|---|---|---|---|---|
| 71-304808 | 8 | .875 | .984 | .327 | .353 | 1.937 |
| 71-304810 | 10 | 1.125 | 1.125 | .444 | .353 | 1.890 |
| 71-304812 | 12 | 1.281 | 1.406 | .558 | .353 | 1.906 |
| 71-304814 | 14 | 1.438 | 1.562 | .683 | .353 | 1.953 |
| 71-304816 | 16 | 1.562 | 1.688 | .808 | .353 | 2.000 |
| 71-304818 | 18 | 1.718 | 1.844 | .909 | .353 | 2.031 |
| 71-304820 | 20 | 1.875 | 2.000 | 1.034 | .415 | 2.234 |
| 71-304822 | 22 | 2.031 | 2.188 | 1.159 | .415 | 2.328 |
| 71-304824 | 24 | 2.156 | 2.312 | 1.284 | .415 | 2.359 |

All dimensions for reference only.
* See Finish information below to determine prefix 71 or 72 in part number.
Drawing above shows standard lanyard length.

Order by Amphenol Propriety number as follows (example part number shown):

| 71 - | 3048 | 18 - 32 | P |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

1. Finish
   "71"designates corrosion resistant olive drab cadmium plate
   "72" designates anodic coated (electrically nonconductive-anodic) finish providing extreme wear and corrosion resistance, 500 hour extended salt spray.
2. Connector Type Identification
   3048 designates PT plug, solder, potted termination style
3. Shell Size and Insert Arrangement Number
   See insert arrangement availability for Miniature Breakaway connectors on page 6. The numbers in the insert arrangement are hyphenated. The number preceding the hyphen is the shell size. The number following the hyphen is the insert arrangement number.
4. Contact Type/Alternate Insert Rotation
   P designates pin, S designates socket for normal positioning of inserts. When an alternate position of the insert is required to prevent cross-mating a different letter (other than P or S) is used. See page 7 for description of alternate positions; then convert to Amphenol proprietary coding by the chart at right to complete the part number.

| Pin Contacts | | Socket Contacts | |
|---|---|---|---|
| Amphenol Letter | Equates to MS letter | Amphenol Letter | Equates to MS letter |
| G | PW | H | SW |
| I | PX | J | SX |
| K | PY | L | SY |
| M | PZ | N | SZ |

# PT, SP, MS/PT
## how to order



### PT, SP

To more easily illustrate ordering procedure, part number PT00A-20-41PW(SR) is shown as follows:

| PT | 00 | A | - | 20 | - | 41 | P | W | (SR) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

See code below:

1. Connector Type
   - "PT" designates standard olive drab, electrically conductive cadmium plate bayonet lock connector with solder contacts
   - "SP" designates electrically non-conductive, hard anodic coated bayonet lock connector with solder contacts and larger flange and mounting holes for back panel mounting
   - "PTG" designates plug with grounding fingers
2. Shell Style
   - "00" designates wall mounting receptacle
   - "01" designates cable connecting receptacle**
   - "02" designates box mounting receptacle
   - "06" designates straight plug
   - "07" designates jam nut receptacle
   - "08" designates 90 degree plug cable support
   - "B" designates thru bulkhead receptacle (pressurized)
   - "I" designates solder mount receptacle (Hermetic only)
3. Service Classes
   - "A" designates general duty back shell
   - "C" designates pressurized receptacle
   - "E" designates environmental resisting open wire seal with grommet and nut
   - "J" designates clamp assembly for moisture proofing multi-jacketed cables, with strain relief
   - "P" designates assembly with potting boot
   - W" designates clamp assembly for moisture proofing multi-jacketed cables
   - "H" designates hermetic* without interfacial seal
   - "Y" designates hermetic* with interfacial seal
4. Shell Size
   "20" designates shell size. Shell sizes 6 through 24 available.
5. Insert Arrangement - Refer to pages 4-11 for insert availability.
   "20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
6. Contacts
   "P" designates pin contacts
   "S" designates socket contacts
   For ordering connectors with printed circuit board contacts, see pg. 20.
7. Insert Rotation - Refer to page 7.
   "W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal position. No letter required for normal (no rotation) position.
8. "SR" designates a strain relief clamp.
   Indicate optional finishes as follows:
   - (003) olive drab cadmium plate (standard on "PT")
   - (005) anodic coating - Alumilite® (standard on "SP")
   - (014) olive drab cadmium plate over nickel
   - (023) electroless nickel
   - (024) olive drab zinc cobalt plating
   - (424) electroless nickel finish with strain relief
   - (466) olive drab zinc cobalt plating with strain relief
   - (100) Suffix added for flat eyelet pin contacts in hermetic versions

   OR

   RoHS Compliant finish suffix as follow:
   - (025) non-conductive black zinc cobalt plating
   - (027) conductive black zinc cobalt plating
   - (470) non-conductive black zinc cobalt plating with strain relief
   - (476) conductive black zinc cobalt plating with strain relief

### MS/PT
### MIL-C-26482, Series 1

Part number MS3110E20-41PW is shown as follows:

| MS | 311 | 0 | E | 20 | - | 41 | P | W |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 |

For Hermetic connectors part number MS3113H20Y41PW is shown as follows:

| MS | 311 | 3 | H | 20 Y 41 | P | W |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5, 6 | 7 | 8 |

See code below:

1. "MS" designates Military Standard
2. Specification Number
   "311" designates basic family number for MIL-C-26482, Series 1 solder type
3. Shell Style
   - "0" designates wall mounting receptacle
   - "1" designates cable connecting receptacle**
   - "2" designates box mounting receptacle
   - "3" designates solder mount receptacle (hermetic only)
   - "4" designates jam nut receptacle
   - "6" designates straight plug
4. Service Class
   - "E" designates environmental resisting connector
   - "F" designates environmental resisting connectors with strain relief
   - "J" designates clamp assembly for moisture proofing multi-jacketed cables, with strain relief
   - "P" designates potted type with potting boot
   - "H" designates hermetic
5. Shell Size
   "20" designates shell size. Shell sizes 8 through 24 available.
6. Insert Arrangement - Refer to pages 4-11 for insert availability.
   "20 - 41" designates arrangement. (The number following the hyphen is the number only that is used in the part number).
   Hermetic version
   "20Y41" designates insert arrangement; specify "Y" for flat eyelet pin contacts, or "C" for solder cup pin contacts
7. Contact Configuration
   - "P" designates pin contacts
   - "S" designates socket contacts
8. Insert Rotation- Refer to page 7.
   "W", "X", "Y", "Z" designate that insert is rotated in it shell from "normal" position. No letter require fo normal (no rotation) position.

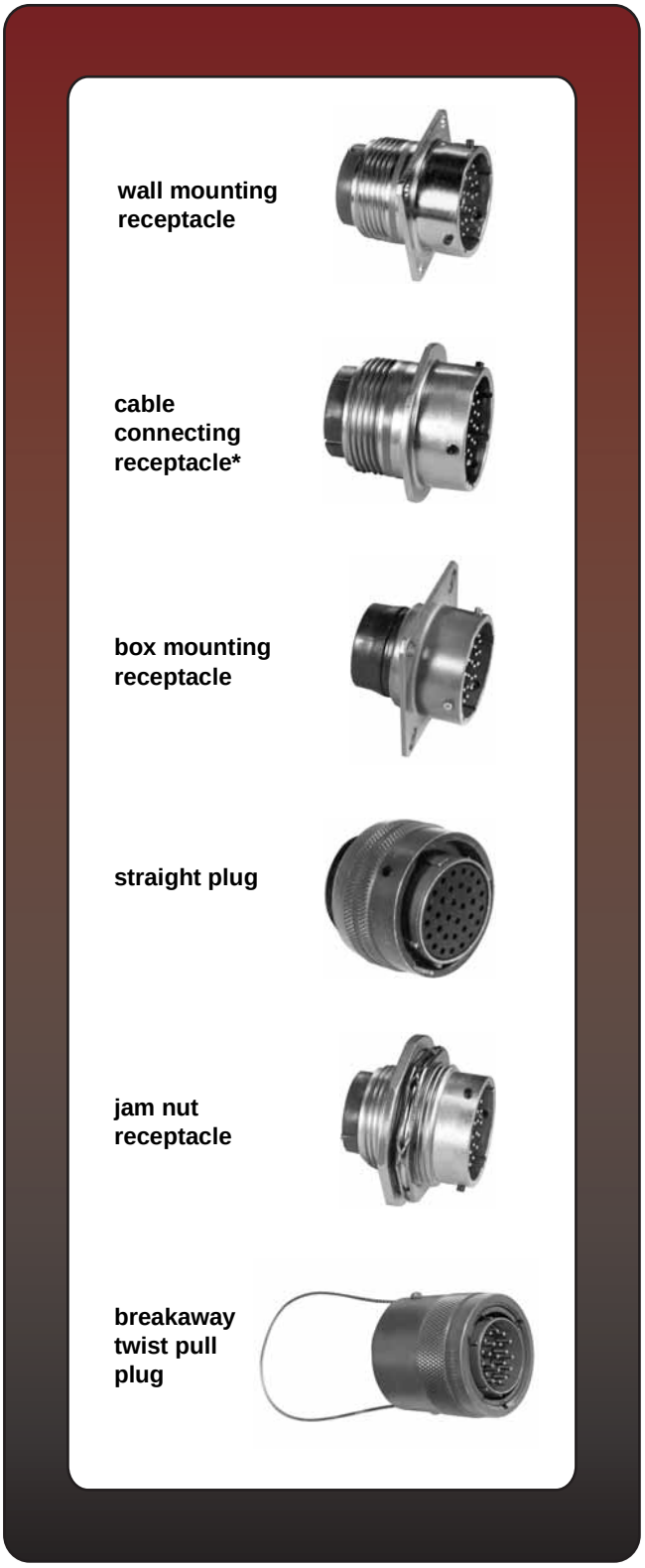
* Hermetic connectors are supplied with tin plated shells.

** This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

For ordering Miniature Breakaway PT Solder connectors see pg. 26.

# Amphenol® PT-SE, SP-SE, MS/PT-SE

## Proprietary/MIL-C-26482, Series 1 bayonet coupling and crimp termination




**Amphenol® SE crimp type miniature connectors provide performance and versatility needed for applications demanding high reliability and crimp removable contacts. These crimp contacts are rear insertable/front release and are held in position by an MS approved spring tower retention system.**

The MS/PT-SE Series is qualified to MIL-C-26482, Series 1 and has all the outstanding design characteristics and quality of the PT Series.

The SP-SE Series is a modification of the PT-SE, providing special shells with a wide mounting flange for back panel mounting.

A corrosion resistant electrically conductive finish of cadmium plate with an olive drab chromate after-treatment is used on the PT-SE and MS/PT-SE. The SP-SE is given a durable non-conductive hard anodic "Alumilite"® coating which provides abrasion protection and resistance to corrosion.

Shell components for these series are aluminum. The dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating with no chance of cross plugging. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical isolation of the contact in the insert.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design.

Breakaway style plug is available in PT-SE crimp.

The PT-SE, SP-SE and MS/PT-SE Series are intermateable and intermountable with all existing Miniature Cylindrical Series connectors except for the threaded coupling PC Series.

Refer to pages 4-11 for insert arrangement availability.

* This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

## PT-SE. SP-SE, MS/PT-SE

| Contact Specifications | | | | |
|---|---|---|---|---|
| Contact Size | Test Current | Maximum Millivolt Drop† | Crimp Well Diameter | Minimum Well Depth |
| 20 | 7.5 | 55 | .049 ±.001 | .267 |
| 16 | 13.0 | 49 | .067 ±.001 | .236 |
| 12 | 23.0 | 42 | .100 ±.002 | .236 |

| Service Rating | | | | | |
|---|---|---|---|---|---|
| Service Rating | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482

### PT-SE and SP-SE Service Classes

PT-SE and SP-SE connectors are available in the three service classes listed below.

"SE" Open wire sealing - environmental resistant, with a nut and grommet for moisture proofing individual wires

"SE" (SR) Strain relief clamp - environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support

"SP" Translucent nylon boot for retaining customer applied potting compounds; held in place by a threaded ring

Breakaway style - see page 38.

### MS/PT-SE Service Classes

MS-SE series connectors are available in the following certified service classes:

"E" Open wire sealing - environmental resisting connectors are supplied with a multi-hole grommet and clamping nut for moisture proofing individual open wires

"F" Environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support

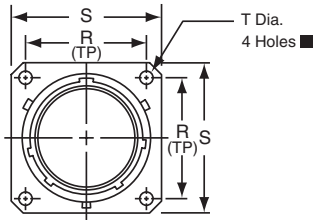
"P" Potting applications - these connectors are supplied with a translucent nylon boot for retention of customer applied potting compound

**"SE", MS / "E" open wire seal**

**"SE" (SR), MS / "F" strain relief clamp**

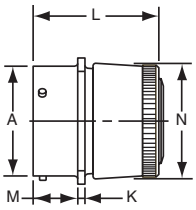
**"SP", MS / "P" potting boot**

# PT00 SE (MS3120)
# SP00 SE
## wall mounting receptacle



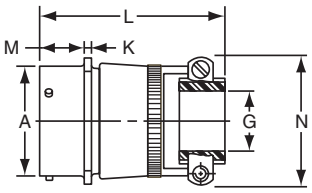

**TERMINATION ASSEMBLIES**

**"SE" Open Wire Seal**



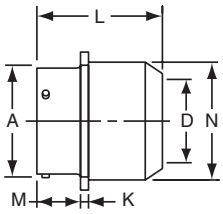

**PT00SE-XX-XXX**
**SP00SE-XX-XXX**
**MS3120E-XX-XXX**

**"SE" (SR), MS / "F" Strain Relief**




**PT00SE-XX-XXX (SR)**
**SP00SE-XX-XXX (SR)**
**MS3120F-XX-XXX**

**"SP" Potting Boot**




**PT00SP-XX-XXX**
**SP00SP-XX-XXX**

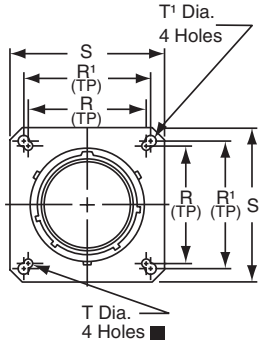
To complete part number see how to order on page 39.
■ (MMC) located within .005 of (TP)

| Shell Size | Receptacle Front View | | | | | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R (TP) | | S Max. | | T Dia. ± .005 | | A Dia. +.001 –.005 | K ±.016 | M +.010 –.000 | | P* Max. Panel Thickness | |
| | PT | SP | PT | SP | PT | SP | | | PT | SP | PT | SP |
| 8 | .594 | – | .828 | – | .120 | – | .473 | .062 | .431 | – | .094 | – |
| 10 | .719 | .812 | .954 | 1.141 | .120 | .150 | .590 | .062 | .431 | .462 | .094 | .125 |
| 12 | .812 | .938 | 1.047 | 1.266 | .120 | .150 | .750 | .062 | .431 | .462 | .094 | .125 |
| 14 | .906 | 1.031 | 1.141 | 1.360 | .120 | .150 | .875 | .062 | .431 | .462 | .094 | .125 |
| 16 | .969 | 1.125 | 1.234 | 1.453 | .120 | .150 | 1.000 | .062 | .431 | .462 | .094 | .125 |
| 18 | 1.062 | 1.203 | 1.328 | 1.532 | .120 | .150 | 1.125 | .062 | .431 | .462 | .094 | .125 |
| 20 | 1.156 | 1.297 | 1.453 | 1.688 | .120 | .150 | 1.250 | .094 | .556 | .556 | .219 | .219 |
| 22 | 1.250 | 1.375 | 1.578 | 1.766 | .120 | .150 | 1.375 | .094 | .556 | .556 | .219 | .219 |
| 24 | 1.375 | 1.500 | 1.703 | 1.891 | .147 | .150 | 1.500 | .094 | .589 | .589 | .219 | .219 |

| Shell Size | Class "SE", MS / "E" | | Class "SE" (SR), MS / "F" | | | Class "SP", MS / "P" | | |
|---|---|---|---|---|---|---|---|---|
| | L Max. | N Dia. Max | G Dia. | L Max. | N Max. | D Dia. Max. | L Max. | N Dia. Max. |
| 8 | 1.328 | .560 | .125 | 2.422 | .781 | – | – | – |
| 10 | 1.328 | .704 | .188 | 2.422 | .844 | .444 | 1.656 | .734 |
| 12 | 1.328 | .825 | .312 | 2.422 | .969 | .558 | 1.656 | .858 |
| 14 | 1.328 | .954 | .375 | 2.422 | 1.094 | .683 | 1.656 | .984 |
| 16 | 1.328 | 1.080 | .500 | 2.537 | 1.156 | .808 | 1.656 | 1.110 |
| 18 | 1.328 | 1.204 | .625 | 2.537 | 1.406 | .909 | 1.656 | 1.234 |
| 20 | 1.359 | 1.330 | .625 | 2.824 | 1.406 | 1.034 | 1.750 | 1.360 |
| 22 | 1.359 | 1.454 | .750 | 2.824 | 1.594 | 1.159 | 1.750 | 1.484 |
| 24 | 1.422 | 1.580 | .800 | 2.900 | 1.688 | 1.284 | 1.782 | 1.610 |

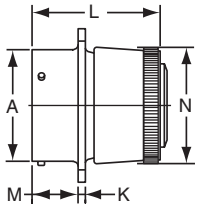
* Back panel mounting
All dimensions for reference only.

# MF00 SE (MS3128)
## wall mounting receptacle



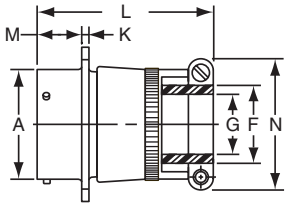

**TERMINATION ASSEMBLIES**

**MS / "E" Open Wire Seal**




**MF00SE-XX-XXX**
**MS3128E-XX-XXX**

**MS / "F" Strain Relief**



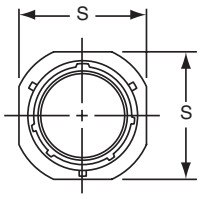

**MF00SE-XX-XXX (SR)**
**MS3128F-XX-XXX**

To complete part number see how to order on page 39.
■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View | | | | | Receptacle Side View | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Class MS / "E" | | Class MS / "F" | | | |
| | R | $R^1$ | S Max. | T Dia. ±.005 | $T^1$ Dia. ±.005 | A Dia. +.001 −.005 | K ±.016 | M +.010 −.000 | L Max. | N Max. | F Min. | G Dia. | L Max. | N Max. |
| 10 | .719 | .812 | 1.141 | .120 | .150 | .590 | .062 | .462 | 1.328 | .685 | .297 | .188 | 1.906 | .891 |
| 12 | .812 | .938 | 1.266 | .120 | .150 | .750 | .062 | .462 | 1.328 | .813 | .422 | .312 | 1.906 | 1.016 |
| 14 | .906 | 1.031 | 1.360 | .120 | .150 | .875 | .062 | .462 | 1.328 | .930 | .547 | .375 | 1.906 | 1.141 |
| 16 | .969 | 1.125 | 1.453 | .120 | .150 | 1.000 | .062 | .462 | 1.328 | 1.057 | .609 | .500 | 2.000 | 1.203 |
| 18 | 1.062 | 1.203 | 1.532 | .120 | .150 | 1.125 | .062 | .462 | 1.328 | 1.175 | .734 | .625 | 2.000 | 1.469 |
| 20 | 1.156 | 1.297 | 1.688 | .120 | .150 | 1.250 | .094 | .556 | 1.359 | 1.301 | .734 | .625 | 2.172 | 1.469 |
| 22 | 1.250 | 1.375 | 1.766 | .120 | .150 | 1.375 | .094 | .556 | 1.359 | 1.428 | .922 | .750 | 2.172 | 1.656 |
| 24 | 1.375 | 1.500 | 1.891 | .147 | .150 | 1.500 | .094 | .589 | 1.422 | 1.533 | .984 | .800 | 2.234 | 1.750 |

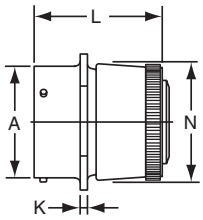
All dimensions for reference only.

# PT01 SE (MS3121)
# SP01 SE
## cable connecting receptacle



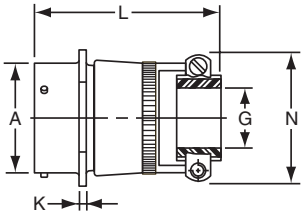

**TERMINATION ASSEMBLIES**

**"SE", MS / "E" Open Wire Seal**



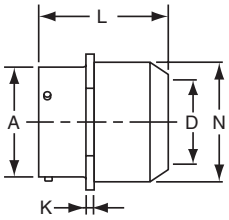

**PT01SE-XX-XXX**
**SP01SE-XX-XXX**
**MS3121E-XX-XXX**

**"SE" (SR), MS / "F" Strain Relief**




**PT01SE-XX-XXX (SR)**
**SP01SE-XX-XXX (SR)**
**MS3121F-XX-XXX**

**"SP", MS / "P" Potting Boot**



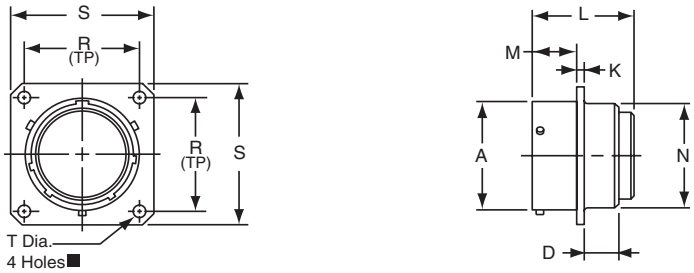

**PT01SP-XX-XXX**
**SP01SP-XX-XXX**
**MS3121P-XX-XXX**

Note: This connector style is sometimes referred to as a cable connecting "plug".
It does, however, mate with either a straight or 90 degree plug.
To complete part number see how to order on page 39.

| Shell Size | Receptacle Front View | Receptacle Side View | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Class "SE", MS / "E" | | | | Class "SE" (SR), MS / "F" | | | Class "SP", MS / "P" | | |
| | S Max. | A Dia. +.001 –.005 | K ±.018 | L Max. | N Dia. Max. | G Dia. | L Max. | N Max. | D Dia. | L Max. | N Dia. Max. |
| 8 | .812 | .473 | .094 | 1.522 | .560 | .125 | 2.422 | .828 | – | – | – |
| 10 | .955 | .590 | .094 | 1.522 | .685 | .188 | 2.422 | .891 | .444 | 1.656 | .734 |
| 12 | 1.048 | .750 | .094 | 1.522 | .813 | .312 | 2.422 | 1.016 | .558 | 1.656 | .858 |
| 14 | 1.142 | .875 | .094 | 1.522 | .930 | .375 | 2.422 | 1.141 | .683 | 1.656 | .984 |
| 16 | 1.236 | 1.000 | .094 | 1.522 | 1.057 | .500 | 2.537 | 1.203 | .808 | 1.656 | 1.110 |
| 18 | 1.329 | 1.125 | .094 | 1.522 | 1.175 | .625 | 2.537 | 1.469 | .909 | 1.656 | 1.234 |
| 20 | 1.455 | 1.250 | .115 | 1.709 | 1.301 | .625 | 2.824 | 1.469 | 1.034 | 1.750 | 1.360 |
| 22 | 1.579 | 1.375 | .115 | 1.709 | 1.428 | .750 | 2.824 | 1.656 | 1.159 | 1.750 | 1.484 |
| 24 | 1.709 | 1.500 | .115 | 1.709 | 1.555 | .800 | 2.900 | 1.750 | 1.284 | 1.782 | 1.610 |

All dimensions for reference only.

# PT02 SE (MS3122)
# SP02 SE
## box mounting receptacle



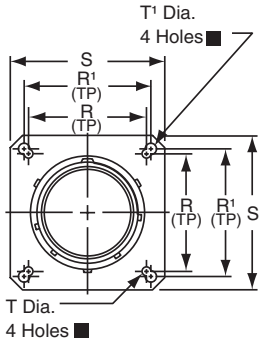

**PT02SE-XX-XXX**
**SP02SE-XX-XXX**
**MS3122E-XX-XXX**

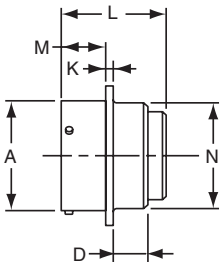
To complete part number see how to order on page 39.
■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View | | | | | | Receptacle Side View | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R | | S Max. | | T Dia. ±.005 | | A Dia. +.001 −.005 | D Max. | | K ±.016 | L Max. | M +.010 −.000 | | N Dia. +.011 −.000 |
| | PT | SP | PT | SP | PT | SP | | PT | SP | | | PT | SP | |
| 8 | .594 | – | .828 | – | .120 | – | .473 | .312 | – | .062 | 1.296 | .431 | – | .438 |
| 10 | .719 | .812 | .954 | 1.141 | .120 | .150 | .590 | .312 | .219 | .062 | 1.296 | .431 | .462 | .562 |
| 12 | .812 | .938 | 1.047 | 1.266 | .120 | .150 | .750 | .312 | .219 | .062 | 1.296 | .431 | .462 | .688 |
| 14 | .906 | 1.031 | 1.141 | 1.360 | .120 | .150 | .875 | .312 | .219 | .062 | 1.296 | .431 | .462 | .812 |
| 16 | .969 | 1.125 | 1.234 | 1.453 | .120 | .150 | 1.000 | .312 | .219 | .062 | 1.296 | .431 | .462 | .938 |
| 18 | 1.062 | 1.203 | 1.328 | 1.532 | .120 | .150 | 1.125 | .312 | .219 | .062 | 1.296 | .431 | .462 | 1.062 |
| 20 | 1.156 | 1.297 | 1.453 | 1.688 | .120 | .150 | 1.250 | .406 | .344 | .094 | 1.358 | .556 | .556 | 1.188 |
| 22 | 1.250 | 1.375 | 1.578 | 1.766 | .120 | .150 | 1.375 | .406 | .344 | .094 | 1.358 | .556 | .556 | 1.312 |
| 24 | 1.375 | 1.500 | 1.703 | 1.891 | .147 | .150 | 1.500 | .406 | .344 | .094 | 1.358 | .589 | .589 | 1.438 |

All dimensions for reference only.

# MF02 SE (MS3127)
## box mounting receptacle



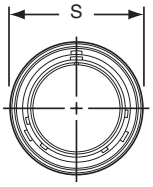

**MF02SE-XX-XXX**
**MS3127E-XX-XXX**

To complete part number see how to order on page 39.
■ (MMC) located within .0025 of (TP)

| Shell Size | Receptacle Front View | | | | | | Receptacle Side View | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | N Dia. +.011 –.000 | R | $R^1$ | S Max. | T ±.005 | $T^1$ ±.005 | A Dia. +.001 –.005 | D Max. | K ±.016 | L Max. | M +.010 –.000 |
| 10 | .562 | .719 | .812 | 1.141 | .120 | .150 | .590 | .219 | .062 | 1.266 | .462 |
| 12 | .688 | .812 | .938 | 1.266 | .120 | .150 | .750 | .219 | .062 | 1.266 | .462 |
| 14 | .812 | .906 | 1.031 | 1.360 | .120 | .150 | .875 | .219 | .062 | 1.266 | .462 |
| 16 | .938 | .969 | 1.125 | 1.453 | .120 | .150 | 1.000 | .219 | .062 | 1.266 | .462 |
| 18 | 1.062 | 1.062 | 1.203 | 1.532 | .120 | .150 | 1.125 | .219 | .062 | 1.266 | .462 |
| 20 | 1.188 | 1.156 | 1.297 | 1.688 | .120 | .150 | 1.250 | .344 | .094 | 1.328 | .556 |
| 22 | 1.312 | 1.250 | 1.375 | 1.766 | .120 | .150 | 1.375 | .344 | .094 | 1.328 | .556 |
| 24 | 1.438 | 1.375 | 1.500 | 1.891 | .147 | .150 | 1.500 | .344 | .094 | 1.328 | .589 |

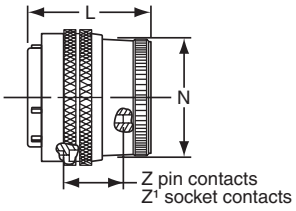
All dimensions for reference only.

# PT06 SE (MS3126)
# SP06 SE
## straight plug



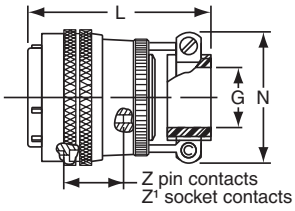

**TERMINATION ASSEMBLIES**

**"SE", MS / "E" Open Wire Seal**



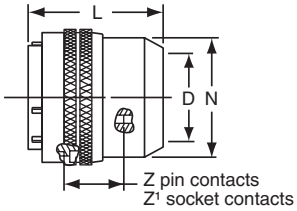

**PT06SE-XX-XXX**
**SP06SE-XX-XXX**
**PTG06SE-XX-XXX**
**MS3126E-XX-XXX**

**"SE" (SR), MS / "F" Strain Relief**




**PT06SE-XX-XXX (SR)**
**SP06SE-XX-XXX (SR)**
**PTG06SE-XX-XXX (SR)**
**MS3126F-XX-XXX**

**"SP", MS / "P" Potting Boot**




**PT06SP-XX-XXX**
**SP06SP-XX-XXX**
**PTG06SP-XX-XXX**
**MS3126P-XX-XXX**

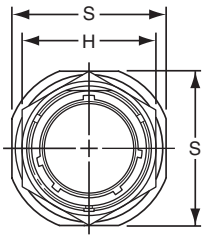
To complete part number see how to order on page 39.

| Shell Size | Plug Front View | Plug Side View | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Class "SE", MS / "E" | | Class "SE" (SR), MS / "F" | | | Class "SP", MS / "P" | | |
| | S Dia. Max. | Z ±.045 | Z[1] ±.045 | L Max. | N Max. | G Dia. | L Max. | N Max. | D Dia. | L Max. | N Dia. Max. |
| 8* | .734 | .640 | .579 | 1.328 | .540 | .125 | 2.413 | .828 | .327 | 1.750 | .578 |
| 10 | .859 | .640 | .579 | 1.328 | .685 | .188 | 2.413 | .891 | .444 | 1.750 | .734 |
| 12 | 1.031 | .640 | .579 | 1.328 | .813 | .312 | 2.413 | 1.016 | .558 | 1.750 | .858 |
| 14 | 1.156 | .640 | .579 | 1.328 | .930 | .375 | 2.413 | 1.141 | .683 | 1.750 | .984 |
| 16 | 1.281 | .640 | .579 | 1.328 | 1.057 | .500 | 2.528 | 1.203 | .808 | 1.750 | 1.110 |
| 18 | 1.391 | .640 | .579 | 1.328 | 1.175 | .625 | 2.528 | 1.469 | .909 | 1.750 | 1.234 |
| 20 | 1.531 | .640 | .579 | 1.297 | 1.301 | .625 | 2.753 | 1.469 | 1.034 | 1.750 | 1.360 |
| 22 | 1.656 | .640 | .579 | 1.297 | 1.428 | .750 | 2.753 | 1.656 | 1.159 | 1.750 | 1.484 |
| 24 | 1.777 | .640 | .579 | 1.359 | 1.533 | .800 | 2.830 | 1.750 | 1.284 | 1.766 | 1.610 |

* PT-SE, MS-SE and MS-SP only.

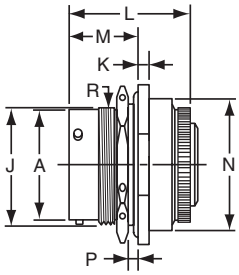
All dimensions for reference only.

# PT07 SE (MS3124)
# SP07 SE
## jam nut receptacle



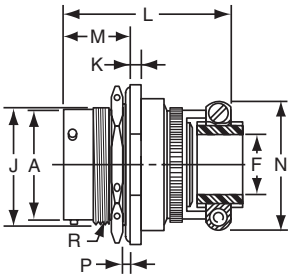

**TERMINATION ASSEMBLIES**

**"SE", MS / "E" Open Wire Seal**



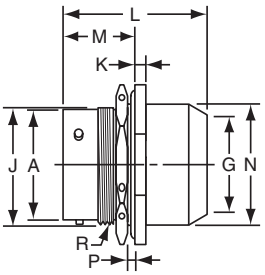

**PT07SE-XX-XXX**
**SP07SE-XX-XXX**
**MS3124E-XX-XXX**

**"SE" (SR), MS / "F" Strain Relief**




**PT07SE-XX-XXX (SR)**
**SP07SE-XX-XXX (SR)**
**MS3124F-XX-XXX**

**"SP", MS / "P" Potting Boot**




**PT07SP-XX-XXX**
**SP07SP-XX-XXX**
**MS3124P-XX-XXX**

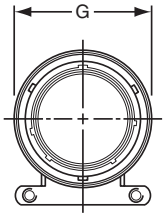
To complete part number see how to order on page 39.
All lockwire holes are .044 Dia. Min.

| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | H Hex Max. | S Max. | A Dia. +.001 –.005 | J Flat +.000 –.010 | K +.011 –.010 | M ±.005 | P Panel Thickness Min. | P Panel Thickness Max. | R Thread Class 2A |
| 8 | .767 | .954 | .473 | .530 | .125 | .696 | .062 | .125 | .5625-24 UNEF |
| 10 | .892 | 1.078 | .590 | .655 | .125 | .696 | .062 | .125 | .6875-24 NEF |
| 12 | 1.079 | 1.266 | .750 | .818 | .125 | .696 | .062 | .125 | .8750-20 UNEF |
| 14 | 1.205 | 1.391 | .875 | .942 | .125 | .696 | .062 | .125 | 1.0000-20 UNEF |
| 16 | 1.329 | 1.516 | 1.000 | 1.066 | .125 | .696 | .062 | .125 | 1.1250-18 NEF |
| 18 | 1.455 | 1.641 | 1.125 | 1.191 | .125 | .696 | .062 | .125 | 1.2500-18 NEF |
| 20 | 1.579 | 1.828 | 1.250 | 1.316 | .156 | .884 | .062 | .250 | 1.3750-18 NEF |
| 22 | 1.705 | 1.954 | 1.375 | 1.441 | .156 | .884 | .062 | .250 | 1.5000-18 NEF |
| 24 | 1.829 | 2.078 | 1.500 | 1.566 | .156 | .917 | .062 | .250 | 1.6250-18 NEF |

| Shell Size | Class "SE", MS / "E" | | Class "SE" (SR), MS / "F" | | | | Class "SP", MS /"P" | | |
|---|---|---|---|---|---|---|---|---|---|
| | L Max. | N Max. | F Min. | G Dia. Free | L Max. | N Max. | G Dia. | L Max. | N Dia. Max. |
| 8 | 1.438 | .749 | .234 | .125 | 1.922 | .828 | – | – | – |
| 10 | 1.438 | .874 | .297 | .188 | 1.922 | .891 | .444 | 1.656 | .734 |
| 12 | 1.438 | .999 | .422 | .312 | 1.922 | 1.016 | .558 | 1.656 | .858 |
| 14 | 1.438 | 1.124 | .547 | .375 | 1.922 | 1.141 | .683 | 1.656 | .984 |
| 16 | 1.438 | 1.249 | .609 | .500 | 2.000 | 1.203 | .808 | 1.656 | 1.110 |
| 18 | 1.438 | 1.374 | .734 | .625 | 2.000 | 1.469 | .909 | 1.656 | 1.234 |
| 20 | 1.625 | 1.530 | .734 | .625 | 2.172 | 1.469 | 1.034 | 1.922 | 1.360 |
| 22 | 1.625 | 1.655 | .922 | .750 | 2.172 | 1.656 | 1.159 | 1.922 | 1.484 |
| 24 | 1.688 | 1.780 | .984 | .800 | 2.234 | 1.750 | 1.284 | 1.951 | 1.610 |

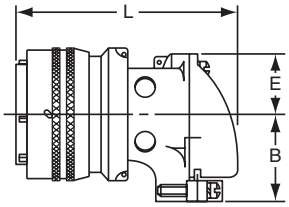
All dimensions for reference only.

# PT08 SE
# SP08 SE
## 90 degree plug

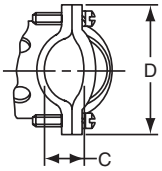



**TERMINATION ASSEMBLIES**

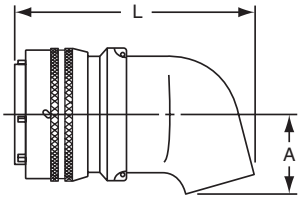
**"SE" Open Wire Seal, "SE" (SR) Strain Relief**



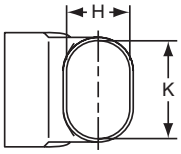

**PT08SE-XX-XXX**
**SP08SE-XX-XXX**
**PT08SE-XX-XXX (SR)**
**SP08SE-XX-XXX (SR)**




**"SP" Potting Boot 75 degrees**




**PT08SP-XX-XXX**
**SP08SP-XX-XXX**




To complete part number see how to order on page 39.
All lockwire holes are .044 Dia. Min.

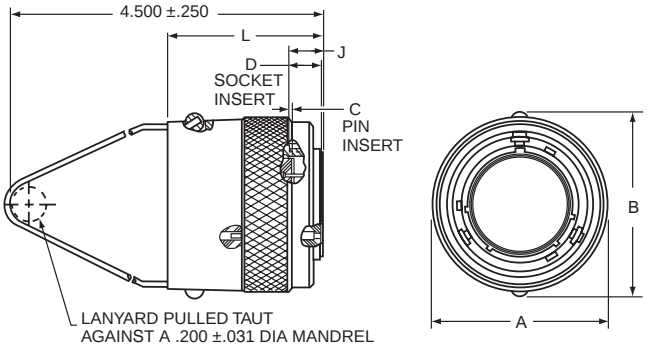
| Shell Size | Plug Front View | Plug Side View | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Class "SE", "SE" (SR) | | | | | Class "SP" | | | |
| | G Dia. Max. | B ±.031 | C +.010 −.025 | D ±.062 | E +.047 −.025 | L Max. | A ±.025 | H ±.015 | K ±.015 | L Max. |
| 10 | .921 | .749 | .170 | 1.191 | .393 | 2.137 | .547 | .438 | .562 | 2.031 |
| 12 | 1.046 | .812 | .264 | 1.191 | .450 | 2.222 | .625 | .516 | .688 | 2.093 |
| 14 | 1.171 | .905 | .310 | 1.254 | .519 | 2.370 | .734 | .625 | .781 | 2.203 |
| 16 | 1.297 | 1.030 | .330 | 1.316 | .583 | 2.572 | .750 | .656 | .890 | 2.250 |
| 18 | 1.422 | 1.015 | .444 | 1.562 | .621 | 2.680 | .781 | .703 | 1.000 | 2.296 |
| 20 | 1.562 | 1.077 | .510 | 1.625 | .683 | 2.753 | .859 | .766 | 1.125 | 2.343 |
| 22 | 1.672 | 1.139 | .515 | 1.719 | .739 | 2.799 | .906 | .812 | 1.234 | 2.390 |
| 24 | 1.797 | 1.250 | .656 | 1.750 | .787 | 3.037 | 1.181 | .918 | 1.374 | 2.624 |

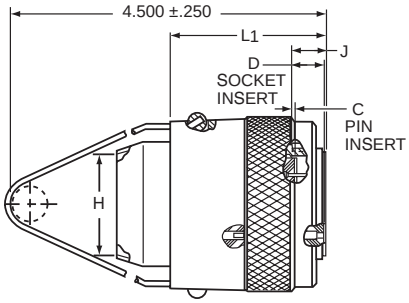
All dimensions for reference only.

# PT-SE Breakaway
## twist pull plug

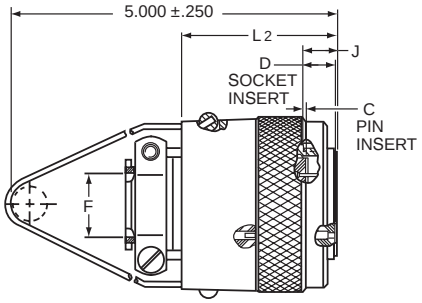
The PT-SE miniature breakaway connector has the following design features:

- crimp front release, front removable contacts in “SE” spring tower retention system
- 3 styles available: potted termination, environmental style and environment style with a strain relief
- instant decoupling of plug and receptacle with an axial pull on the lanyard when they are fully mated
- intermateable with standard receptacles
- operating voltage to 900 VAC (RMS) at sea level
- quick positive bayonet coupling and 5 key/keyway polarization




**Breakaway PT-SE with Crimp Contacts, Potted Termination**
**71-4196XX-( )**
**72-4196XX-( )**




**Breakaway PT-SE with Crimp Contacts, Environmental with Strain Relief**
**71-2511XX-( )**
**72-2511XX-( )**

**Breakaway PT-SE with Crimp Contacts, Environmental**
**71-3455XX-( )**
**72-3455XX-( )**

| Part Number* | Part Number* | Part Number* | Shell Size | A Dia. Max. | B Max. | C +.020 –.000 | D +.020 –.000 | F Dia. ±.016 | H Dia. ±.016 | J ±.010 | L Max. | $L_1$ Max. | $L_2$ Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71-419646 | 71-251181 | 71-345510 | 10 | 1.125 | 1.125 | .030 | .337 | .188 | .444 | .353 | 1.875 | 2.140 | 2.156 |
| 71-419647 | 71-251182 | 71-345512 | 12 | 1.281 | 1.406 | .030 | .337 | .312 | .558 | .353 | 1.875 | 2.156 | 2.406 |
| 71-419648 | 71-251183 | 71-345514 | 14 | 1.438 | 1.562 | .030 | .337 | .375 | .683 | .353 | 1.906 | 2.203 | 2.406 |
| 71-419649 | 71-251184 | 71-345516 | 16 | 1.562 | 1.688 | .030 | .337 | .500 | .808 | .353 | 1.969 | 2.250 | 2.531 |
| 71-419650 | 71-251185 | 71-345518 | 18 | 1.718 | 1.844 | .030 | .337 | .625 | .909 | .353 | 2.000 | 2.281 | 2.531 |
| 71-419651 | 71-251186 | 71-345520 | 20 | 1.875 | 2.000 | .092 | .399 | .625 | 1.034 | .415 | 2.281 | 2.359 | 2.719 |
| 71-419652 | 71-251187 | 71-345522 | 22 | 2.031 | 2.188 | .092 | .399 | .750 | 1.159 | .415 | 2.344 | 2.453 | 2.844 |
| 71-419653 | 71-251188 | 71-345524 | 24 | 2.156 | 2.312 | .092 | .399 | .800 | 1.284 | .415 | 2.406 | 2.453 | 2.906 |

All dimensions for reference only.
Drawing above shows standard lanyard length.
* See Finish information below to determine prefix 71 or 72 in part number.

Order by Amphenol Propriety number as follows (example part number shown):

| 71 - | 4196 | 50 - | 32 | P |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |

1. Finish
   “71” designates corrosion resistant olive drab cadmium plate
   “72” designates anodic coated (electrically nonconductive-anodic) finish providing extreme wear and corrosion resistance, 500 hr. extended salt spray.
2. Connector Type Identification
   4196XX designates PT-SE plug, crimp, potted termination style
   2511XX designates PT-SE plug, crimp, environmental with strain relief style
   3455XX designates PT-SE plug, crimp, environmental
3. Shell Size
   See part number columns in chart above for 2 digit number at end that correlates to the shell size. Example: ‘50’ correlates to shell size 18.
4. Insert Arrangement Number
   See insert availability for Miniature Breakaway connectors on page 6. The number following the hyphen is the insert arrangement number.
5. Contact Type/Alternate Insert Rotation
   P designates pin, S designates socket for normal positioning of inserts. When an alternate position of the insert is required to prevent cross-mating a different letter (other than P or S) is used. See page 7 for description of alternate positions; then convert to Amphenol proprietary coding by the chart at right to complete the part number.

| Pin Contacts | | Socket Contacts | |
|---|---|---|---|
| Amphenol Letter | Equates to MS letter | Amphenol Letter | Equates to MS letter |
| G | PW | H | SW |
| I | PX | J | SX |
| K | PY | L | SY |
| M | PZ | N | SZ |

# PT-SE, SP-SE, MS/PT-SE
## how to order



### PT-SE, SP-SE

To more easily illustrate ordering procedure, part number PT00SE-20-41PW(SR) is shown as follows:

| PT | 00 | SE | - | 20 | - | 41 | P | W | (SR) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

See code below:

1. Connector Type
   - “PT” designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with crimp contacts
   - “MF” designates standard olive drab, electrically conductive cadmium plated, bayonet lock connector with dual mounting holes, and crimp contacts
   - “SP” designates electrically non-conductive, hard anodic coated, bayonet lock connector with larger flange and mounting holes for back panel mounting, and crimp contacts
   - “PTG” designates plug with grounding fingers
2. Shell Style
   - “00” designates wall mounting receptacle
   - “01” designates cable connecting receptacle*
   - “02” designates box mounting receptacle
   - “06” designates straight plug
   - “07” designates jam nut receptacle
   - “08” designates 90 degree plug
3. Service Classes
   - “SE” designates environmental crimp
   - “SP” designates potted type crimp

   Both of the above are Amphenol proprietary versions of the MIL-C-26482, Series 1 crimp contact connector and offer 15 lbs. contact retention for size 20 contacts; 25 lbs. for size 16 contacts.
4. Shell Size
   “20” designates shell size. Shell sizes 8 through 24 available.
5. Insert Arrangement
   Refer to pages 4-11 for insert availability.
   “20 - 41” designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
6. Contacts
   “P” designates pin contacts
   “S” designates socket contacts
7. Insert Rotation
   Refer to page 7.
   “W”, “X”, “Y”, “Z” designate that insert is rotated in its shell from “normal” position. No letter required for normal (no rotation) position.
8. “SR” designates a strain relief clamp.
   Indicate optional finishes as follows:
   - (003) olive drab cadmium plate (standard on “PT”)
   - (005) anodic coating - Alumilite® (standard on “SP”)
   - (014) olive drab cadmium plate over nickel
   - (023) electroless nickel
   - (024) olive drab zinc cobalt plating
   - (424) electroless nickel finish with strain relief
   - (466) olive drab zinc cobalt plating with strain relief

   OR

   RoHS Compliant finish suffix as follow:
   - (025) non-conductive black zinc cobalt plating
   - (027) conductive black zinc cobalt plating
   - (470) non-conductive black zinc cobalt plating with strain relief
   - (476) conductive black zinc cobalt with strain relief

### MS/PT-SE
### MIL-C-26482, Series 1

To more easily illustrate ordering procedure, part number MS3120E20-41PW is shown as follows:

| MS | 312 | 0 | E | 20 | – | 41 | P | W |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 |

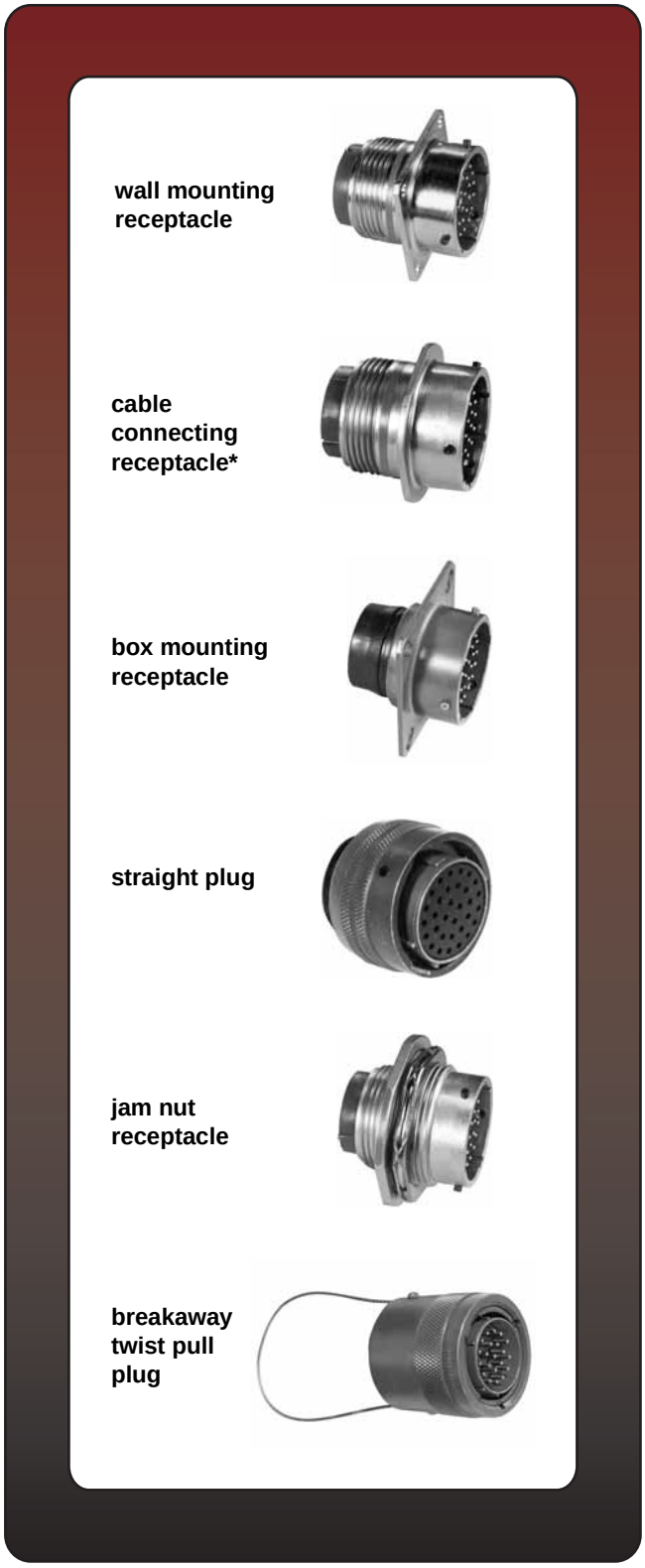
See code below:

1. “MS” designates Military Standard
2. Specification Number
   “312” designates basic family for MIL-C-26482, Series 1 crimp type
3. Shell Style
   - “0” designates wall mounting receptacle
   - “1” designates cable connecting receptacle*
   - “2” designates box mounting receptacle
   - “4” designates jam nut receptacle
   - “6” designates straight plug
   - “7” designates box mounting receptacle with dual mounting holes
   - “8” designates wall mounting receptacle with dual mounting holes
4. Service Class
   - “E” designates environmental resisting connector
   - “F” designates environmental resisting connector with strain relief
   - “P” designates potted type with potting boot
5. Shell Size
   “20” designates shell size. Shell sizes 8 through 24 available
6. Insert Arrangement
   Refer to pages 4-11 for insert availability.
   “20 - 41” designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
7. Contacts
   “P” designates pin contacts
   “S” designates socket contacts
8. Insert Rotation
   Refer to page 7.
   “W”, “X”, “Y”, “Z” designate that insert is rotated in its shell from the “normal” position. No letter required for normal (no rotation) position.

* This connector style is sometimes referred to as a cable connecting “plug”. It does, however, mate with either a straight or 90 degree plug.

For ordering Miniature Breakaway PT-SE Crimp connectors see pg. 38.

# Amphenol® PT-CE, SP-CE
## bayonet coupling, crimp termination




**Amphenol® CE crimp type miniature connectors provide performance and versatility needed for applications demanding high reliability and crimp removable contacts. These crimp contacts are rear insertable/front release and are held in position by a nylon wafer retention system.**

The SP-CE Series is a modification of the PT-CE, providing special shells with a wide mounting flange for back panel mounting.

A corrosion resistant electrically conductive finish of cadmium plate with an olive drab chromate after-treatment is used on the PT-CE. The SP-CE is given a durable nonconductive hard anodic "Alumilite"® coating which provides abrasion protection and resistance to corrosion.

Shell components for these versions are aluminum. The dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating with no chance of cross plugging. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical isolation of the contact in the insert.

Both pins and sockets are machined form a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design.

Breakaway style plug is available in PT-CE crimp.

The PT-CE and SP-CE Series are intermateable and intermountable with all existing Miniature Cylindrical Series connectors except for the threaded coupling PC Series.

Refer to pages 4-11 for insert arrangement availability.

* This connector style is sometimes referred to as a cable connecting "plug." It does, however, mate with a straight or 90 degree plug.

## PT-CE, SP-CE

| Contact Specifications | | | | |
|---|---|---|---|---|
| Contact Size | Test Current | Maximum Millivolt Drop† | Crimp Well Diameter | Minimum Well Depth |
| 20 | 7.5 | 55 | .045 $^{+.002}_{-.001}$ | .359 |
| 16 | 13.0 | 49 | .063 $^{+.004}_{-.001}$ | .234 |

| Service Rating | | | | | |
|---|---|---|---|---|---|
| Service Rating | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482

## PT-CE, and SP-CE Service Classes

PT-CE and SP-CE Connectors are available in the three service classes listed below.

"CE" Open wire sealing – environmental resistant, with a nut and grommet for moisture proofing individual wires.

"CE" (SR) Strain relief clamp – environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support.

"CP" Translucent nylon boot for retaining customer applied potting compounds; held in place by a threaded ring.

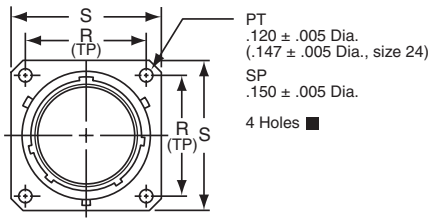
Breakaway style - see page 48.

**"CE"**
**open wire seal**

**"CE" (SR)**
**strain relief**

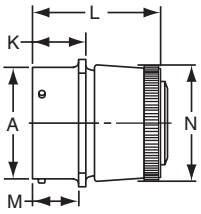
**"CP"**
**potting boot**

# PT00 CE
# SP00 CE
## wall mounting receptacle



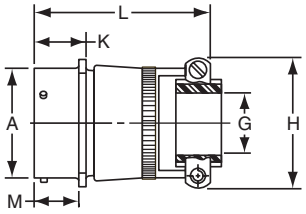

**TERMINATION ASSEMBLIES**

**"CE" Open Wire Seal**



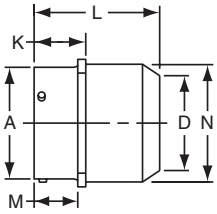

**PT00CE-XX-XXX**
**SP00CE-XX-XXX**

**"CE" (SR) Strain Relief**




**PT00CE-XX-XXX (SR)**
**SP00CE-XX-XXX (SR)**

**"CP" Potting Boot**



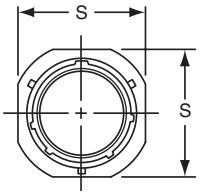

**PT00CP-XX-XXX**
**SP00CP-XX-XXX**

To complete part number see how to order on page 49.
■ (MMC) located within .005 Dia. of (TP)

| Shell Size | Receptacle Front View | | | | Receptacle Side View | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R (TP) | | S ±.016 | | A Dia. +.001 −.005 | K +.025 −.010 | | M +.010 −.000 | | Class "CE" | | Class "CE" (SR) | | | Class "CP" | | |
| | PT | SP | PT | SP | | PT | SP | PT | SP | L Max. | N Dia. Max. | G Dia. | H Max. | L Max. | D Dia. | L Max. | N Dia. Max. |
| 6 | .469 | .641 | .688 | .953 | .348 | .493 | .524 | .431 | .462 | 1.468 | .440 | – | – | – | – | – | – |
| 8 | .594 | .734 | .812 | 1.047 | .473 | .493 | .524 | .431 | .462 | 1.468 | .560 | .125 | .797 | 2.031 | .327 | 1.683 | .608 |
| 10 | .719 | .812 | .938 | 1.125 | .590 | .493 | .524 | .431 | .462 | 1.468 | .685 | .188 | .859 | 2.031 | .444 | 1.683 | .734 |
| 12 | .812 | .938 | 1.031 | 1.250 | .750 | .493 | .524 | .431 | .462 | 1.468 | .813 | .312 | .984 | 2.031 | .558 | 1.683 | .858 |
| 14 | .906 | 1.031 | 1.125 | 1.344 | .875 | .493 | .524 | .431 | .462 | 1.468 | .930 | .375 | 1.109 | 2.031 | .683 | 1.683 | .984 |
| 16 | .969 | 1.125 | 1.219 | 1.438 | 1.000 | .493 | .524 | .431 | .462 | 1.468 | 1.057 | .500 | 1.172 | 2.156 | .808 | 1.683 | 1.110 |
| 18 | 1.062 | 1.203 | 1.312 | 1.516 | 1.125 | .493 | .524 | .431 | .462 | 1.468 | 1.175 | .625 | 1.422 | 2.156 | .909 | 1.683 | 1.234 |
| 20 | 1.156 | 1.297 | 1.438 | 1.672 | 1.250 | .650 | .650 | .556 | .556 | 1.562 | 1.301 | .625 | 1.422 | 2.266 | 1.034 | 1.750 | 1.360 |
| 22 | 1.250 | 1.375 | 1.562 | 1.750 | 1.375 | .650 | .650 | .556 | .556 | 1.562 | 1.428 | .750 | 1.609 | 2.266 | 1.159 | 1.750 | 1.484 |
| 24 | 1.375 | 1.500 | 1.688 | 1.875 | 1.500 | .683 | .683 | .589 | .589 | 1.625 | 1.555 | .800 | 1.703 | 2.328 | 1.284 | 1.782 | 1.610 |

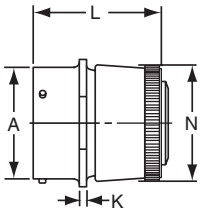
All dimensions for reference only.

# PT01 CE
## cable connecting receptacle



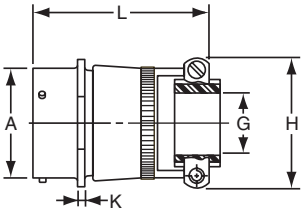

**TERMINATION ASSEMBLIES**

**"CE" Open Wire Seal**



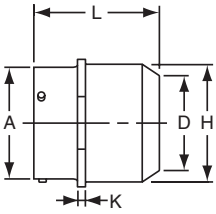

**PT01CE-XX-XXX**
**SP01CE-XX-XXX**

**"CE" (SR) Strain Relief**




**PT01CE-XX-XXX (SR)**
**SP01CE-XX-XXX (SR)**

**"CP" Potting Boot**



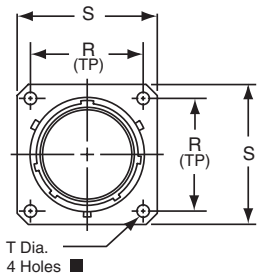

**PT01CP-XX-XXX**

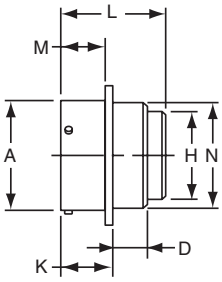
Note:This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.
To complete part number see how to order on page 49.

| Shell Size | Receptacle Front View | Receptacle Side View | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Class "CE" | | Class "CE" (SR) | | | Class "CP" | | |
| | S ±.016 | A Dia. +.001 –.005 | K ±.016 | L Max. | N Dia. | G Dia. | H Dia. | L Max. | D Dia. Min. | L Max. | N Dia. Max. |
| 6 | .688 | .348 | .094 | 1.468 | .440 | – | – | – | – | – | – |
| 8 | .812 | .473 | .094 | 1.468 | .560 | .125 | .797 | 1.982 | .327 | 1.702 | .608 |
| 10 | .938 | .590 | .094 | 1.468 | .685 | .188 | .859 | 1.982 | .444 | 1.702 | .734 |
| 12 | 1.031 | .750 | .094 | 1.468 | .813 | .312 | .984 | 1.982 | .558 | 1.702 | .858 |
| 14 | 1.125 | .875 | .094 | 1.468 | .930 | .375 | 1.109 | 1.982 | .683 | 1.702 | .984 |
| 16 | 1.219 | 1.000 | .094 | 1.468 | 1.057 | .500 | 1.172 | 2.114 | .808 | 1.702 | 1.110 |
| 18 | 1.312 | 1.125 | .094 | 1.468 | 1.175 | .625 | 1.422 | 2.114 | .909 | 1.702 | 1.234 |
| 20 | 1.438 | 1.250 | .115 | 1.562 | 1.301 | .625 | 1.422 | 2.207 | 1.034 | 1.796 | 1.360 |
| 22 | 1.562 | 1.375 | .115 | 1.562 | 1.428 | .750 | 1.609 | 2.207 | 1.159 | 1.796 | 1.484 |
| 24 | 1.688 | 1.500 | .115 | 1.625 | 1.555 | .800 | 1.703 | 2.219 | 1.284 | 1.827 | 1.610 |

All dimensions for reference only.

# PT02 CE
# SP02 CE
## box mounting receptacle



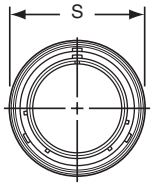

**PT02CE-XX-XXX**
**SP02CE-XX-XXX**
**PT02CP-XX-XXX**
**SP02CP-XX-XXX**

To complete part number see how to order on page 49.
■ (MMC) located within .005 of (TP)

| Shell Size | Receptacle Front View | | | | | | Receptacle Side View | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | R | | S ±.016 | | T Dia. ±.005 | | A Dia +.001 −.005 | D | | H Dia. Max. | K +.025 −.010 | | L Max. | M +.010 −.000 | | N Dia. Max. |
| | PT | SP | PT | SP | PT | SP | | PT | SP | | PT | SP | | PT | SP | |
| 8 | .594 | .734 | .812 | 1.047 | .120 | .150 | .473 | .344 | .312 | .317 | .493 | .524 | 1.250 | .431 | .462 | .449 |
| 10 | .719 | .812 | .938 | 1.125 | .120 | .150 | .590 | .344 | .312 | .441 | .493 | .524 | 1.250 | .431 | .462 | .573 |
| 12 | .812 | .938 | 1.031 | 1.250 | .120 | .150 | .750 | .344 | .312 | .566 | .493 | .524 | 1.250 | .431 | .462 | .699 |
| 14 | .906 | 1.031 | 1.125 | 1.344 | .120 | .150 | .875 | .344 | .312 | .683 | .493 | .524 | 1.250 | .431 | .462 | .823 |
| 16 | .969 | 1.125 | 1.219 | 1.438 | .120 | .150 | 1.000 | .344 | .312 | .808 | .493 | .524 | 1.250 | .431 | .462 | .949 |
| 18 | 1.062 | 1.203 | 1.312 | 1.516 | .120 | .150 | 1.125 | .344 | .312 | .899 | .493 | .524 | 1.250 | .431 | .462 | 1.073 |
| 20 | 1.156 | 1.297 | 1.438 | 1.672 | .120 | .150 | 1.250 | .406 | .406 | 1.034 | .650 | .650 | 1.312 | .556 | .556 | 1.199 |
| 22 | 1.250 | 1.375 | 1.562 | 1.750 | .120 | .150 | 1.375 | .406 | .406 | 1.155 | .650 | .650 | 1.312 | .556 | .556 | 1.323 |
| 24 | 1.375 | 1.500 | 1.688 | 1.875 | .147 | .150 | 1.500 | .436 | .436 | 1.279 | .683 | .683 | 1.312 | .589 | .589 | 1.449 |

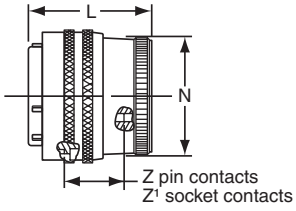
All dimensions for reference only.

# PT06 CE
# SP06 CE
## straight plug



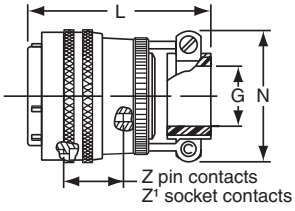

**TERMINATION ASSEMBLIES**

**"CE" Open Wire Seal**



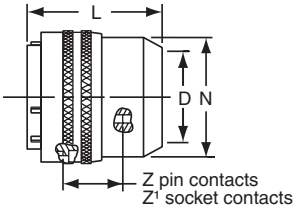

**PT06CE-XX-XXX**
**SP06CE-XX-XXX**

**"CE" (SR) Strain Relief**




**PT06CE-XX-XXX (SR)**
**SP06CE-XX-XXX (SR)**

**"CP" Potting Boot**



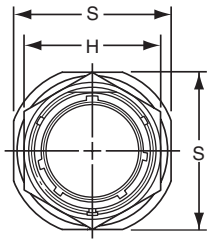

**PT06CP-XX-XXX**
**SP06CP-XX-XXX**

To complete part number see how to order on page 49.

| Shell Size | Plug Front View | Plug Side View | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | S Dia. Max. | Z +.035 –.040 | Z[1] +.035 –.040 | Class "CE" | | Class "CE" (SR) | | | Class "CP" | | |
| | | | | L Max. | N Dia. | G Dia. | H Max. | L Max. | D Dia. | L Max. | N Dia. Max. |
| 6 | .609 | .772 | .631 | 1.457 | .440 | – | – | – | – | – | – |
| 8 | .734 | .772 | .631 | 1.457 | .560 | .125 | .797 | 2.019 | .327 | 1.707 | .608 |
| 10 | .844 | .772 | .631 | 1.457 | .685 | .188 | .859 | 2.019 | .444 | 1.707 | .734 |
| 12 | 1.016 | .772 | .631 | 1.457 | .813 | .312 | .984 | 2.019 | .558 | 1.707 | .858 |
| 14 | 1.141 | .772 | .631 | 1.457 | .930 | .375 | 1.109 | 2.019 | .683 | 1.707 | .984 |
| 16 | 1.266 | .772 | .631 | 1.457 | 1.057 | .500 | 1.172 | 2.144 | .808 | 1.707 | 1.110 |
| 18 | 1.375 | .772 | .631 | 1.457 | 1.175 | .625 | 1.422 | 2.144 | .909 | 1.707 | 1.234 |
| 20 | 1.516 | .710 | .569 | 1.487 | 1.301 | .625 | 1.422 | 2.175 | 1.034 | 1.707 | 1.360 |
| 22 | 1.641 | .710 | .569 | 1.487 | 1.428 | .750 | 1.609 | 2.175 | 1.159 | 1.707 | 1.484 |
| 24 | 1.761 | .710 | .569 | 1.550 | 1.555 | .800 | 1.703 | 2.237 | 1.284 | 1.832 | 1.610 |

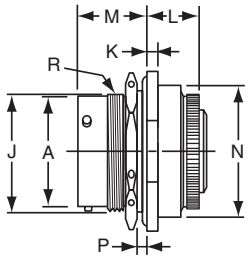
All dimensions for reference only.

# PT07 CE
# SP07 CE
## jam nut receptacle



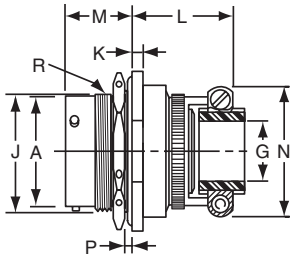

**TERMINATION ASSEMBLIES**

**"CE" Open Wire Seal**



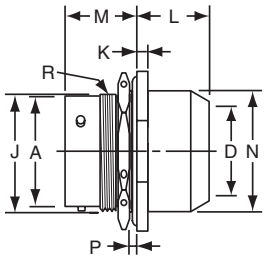

**PT07CE-XX-XXX**
**SP07CE-XX-XXX**

**"CE" (SR) Strain Relief**




**PT07CE-XX-XXX (SR)**
**SP07CE-XX-XXX (SR)**

**"CP" Potting Boot**



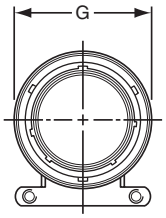

**PT07CP-XX-XX**
**SP07CP-XX-XXX**

To complete part number see how to order on page 49.
All lockwire holes are .044 Dia. Min.

| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Panel Thickness | | Class "CE" | | Class "CE" (SR) | | | Class "CP" | | |
| | H Hex. +.017 −.016 | S ±.016 | A Dia. +.001 −.005 | J Flat +.000 −.010 | K ±.016 | M ±.005 | Min. | Max. | L Max. | N Max. | G Dia. | L Max. | N Max. | D Dia. Min. | L Max. | N Dia. Max. |
| 8 | .750 | .938 | .473 | .530 | .125 | .696 | .062 | .125 | .827 | .730 | .125 | 1.297 | .797 | .327 | .875 | .608 |
| 10 | .875 | 1.062 | .590 | .655 | .125 | .696 | .062 | .125 | .827 | .855 | .188 | 1.297 | .859 | .444 | .875 | .734 |
| 12 | 1.062 | 1.250 | .750 | .818 | .125 | .696 | .062 | .125 | .827 | .980 | .312 | 1.297 | .984 | .558 | .875 | .858 |
| 14 | 1.188 | 1.375 | .875 | .942 | .125 | .696 | .062 | .125 | .827 | 1.105 | .375 | 1.297 | 1.109 | .683 | .875 | .984 |
| 16 | 1.312 | 1.500 | 1.000 | 1.066 | .125 | .696 | .062 | .125 | .827 | 1.230 | .500 | 1.422 | 1.172 | .808 | .875 | 1.110 |
| 18 | 1.438 | 1.625 | 1.125 | 1.191 | .125 | .696 | .062 | .125 | .827 | 1.355 | .625 | 1.422 | 1.422 | .909 | .875 | 1.234 |
| 20 | 1.562 | 1.812 | 1.250 | 1.316 | .156 | .884 | .062 | .250 | .733 | 1.511 | .625 | 1.328 | 1.422 | 1.034 | .969 | 1.360 |
| 22 | 1.688 | 1.938 | 1.375 | 1.441 | .156 | .884 | .062 | .250 | .733 | 1.636 | .750 | 1.328 | 1.609 | 1.159 | .969 | 1.484 |
| 24 | 1.812 | 2.062 | 1.500 | 1.566 | .156 | .917 | .062 | .250 | .762 | 1.761 | .800 | 1.422 | 1.703 | 1.284 | .969 | 1.610 |

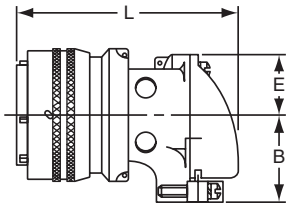
All dimensions for reference only.

# PT08 CE
# SP08 CE
## 90 degree plug

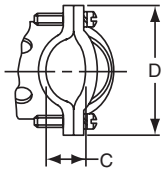



**TERMINATION ASSEMBLIES**

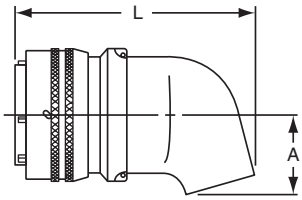
**"CE" Open Wire Seal, "CE" (SR) Strain Relief**



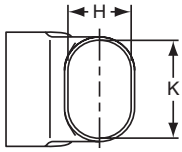

**PT08CE-XX-XXX**
**SP08CE-XX-XXX**
**PT08CE-XX-XXX (SR)**
**SP08CE-XX-XXX (SR)**




**"CP" Potting Boot 75°**




**PT08CP-XX-XXX**
**SP08CP-XX-XXX**




To complete part number see how to order on page 49.
All lockwire holes are .044 Dia. Min.

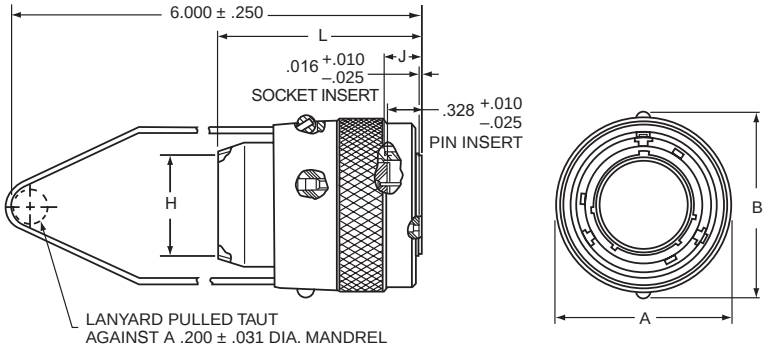
| Shell Size | Plug Front View | Plug Side View | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Class "CE", "CE" (SR) | | | | | Class "CP" | | | |
| | G Dia. Max. | B ±.031 | C +.010 −.025 | D ±.062 | E +.047 −.025 | L ±.057 | A ±.025 | H ±.015 | K ±.015 | L Max. |
| 8 | .796 | .655 | .169 | .941 | .339 | 1.986 | .469 | .312 | .438 | 1.906 |
| 10 | .921 | .749 | .170 | 1.191 | .393 | 2.080 | .547 | .438 | .562 | 2.031 |
| 12 | 1.046 | .812 | .264 | 1.191 | .450 | 2.165 | .625 | .516 | .688 | 2.093 |
| 14 | 1.171 | .905 | .310 | 1.254 | .519 | 2.313 | .734 | .625 | .781 | 2.203 |
| 16 | 1.297 | 1.030 | .330 | 1.316 | .583 | 2.515 | .750 | .656 | .890 | 2.250 |
| 18 | 1.422 | 1.015 | .444 | 1.562 | .621 | 2.623 | .781 | .703 | 1.000 | 2.296 |
| 20 | 1.562 | 1.077 | .510 | 1.625 | .683 | 2.739 | .859 | .766 | 1.125 | 2.343 |
| 22 | 1.672 | 1.139 | .515 | 1.719 | .739 | 2.785 | .906 | .812 | 1.234 | 2.390 |
| 24 | 1.797 | 1.265 | .656 | 1.751 | .797 | 3.024 | 1.169 | .918 | 1.374 | 2.624 |

All dimensions for reference only.

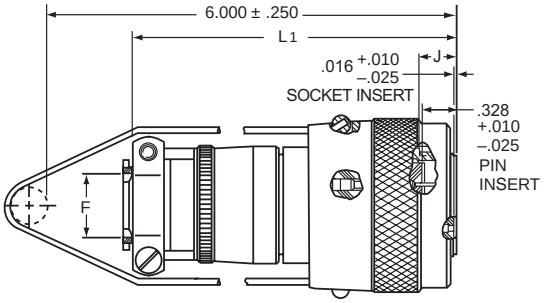
# PT-CE Breakaway
## twist pull plug

The PT-CE miniature breakaway connector has the following design features:

- crimp front release, front removable contacts in "CE" nylon wafer retention system
- 2 styles available: potted termination and environment style with a strain relief
- instant decoupling of plug and receptacle with an axial pull on the lanyard when they are fully mated
- intermateable with standard receptacles
- operating voltage to 900 VAC (RMS) at sea level
- quick positive bayonet coupling and 5 key/keyway polarization




**Breakaway PT-CE with Crimp Contacts,**
**Potted Termination**
**71-2512XX-( )**
**72-2512XX-( )**




**Breakaway PT-CE with Crimp Contacts,**
**Environmental with Strain Relief**
**71-3395XX-( )**
**72-3395XX-( )**

| Part Number* | Part Number* | Shell Size | A Dia. Max. | B Max. | F Dia. ±.016 | H Dia. ±.016 | J ±.010 | L Max. | $L_1$ Max. |
|---|---|---|---|---|---|---|---|---|---|
| 71-251209 | 71-339508 | 8 | .875 | .984 | .125 | .327 | .353 | 1.937 | 2.937 |
| 71-251210 | 71-339510 | 10 | 1.125 | 1.125 | .188 | .444 | .353 | 1.890 | 2.937 |
| 71-251211 | 71-339512 | 12 | 1.281 | 1.406 | .312 | .558 | .353 | 1.906 | 3.000 |
| 71-251212 | 71-339514 | 14 | 1.438 | 1.562 | .375 | .683 | .353 | 1.953 | 3.000 |
| 71-251213 | 71-339516 | 16 | 1.562 | 1.688 | .500 | .808 | .353 | 2.000 | 3.187 |
| 71-251214 | 71-339518 | 18 | 1.718 | 1.844 | .625 | .909 | .353 | 2.031 | 3.375 |
| 71-251215 | 71-339520 | 20 | 1.875 | 2.000 | .625 | 1.034 | .415 | 2.234 | 3.375 |
| 71-251216 | 71-339522 | 22 | 2.031 | 2.188 | .750 | 1.159 | .415 | 2.328 | 3.375 |
| 71-251217 | 71-339524 | 24 | 2.156 | 2.312 | .800 | 1.284 | .415 | 2.359 | 3.625 |

All dimensions for reference only.
* See Finish information below to determine prefix 71 or 72 in part number.
Drawing above shows standard lanyard length.

Order by Amphenol Propriety number as follows (example part number shown):

| 71 | - | 2512 | 50 | - | 32 | P |
|---|---|---|---|---|---|---|
| 1 | | 2 | 3 | | 4 | 5 |

1. Finish
   "71" designates corrosion resistant olive drab cadmium plate
   "72" designates anodic coated (electrically nonconductive-anodic) finish providing extreme wear and corrosion resistance, 500 hr. extended salt spray.
2. Connector Type Identification
   2512XX designates PT-CE plug, crimp, potted termination style
   3395XX designates PT-CE plug, crimp, environmental with strain relief style
3. Shell Size
   See part number columns in chart above for 2 digit number at end that correlates to the shell size. Example: '50' correlates to shell size 18.
4. Insert Arrangement Number
   See insert availability for Miniature Breakaway connectors on page 6. The number following the hyphen is the insert arrangement number.
5. Contact Type/Alternate Insert Rotation
   P designates pin, S designates socket for normal positioning of inserts. When an alternate position of the insert is required to prevent cross-mating a different letter (other than P or S) is used. See page 7 for description of alternate positions; then convert to Amphenol proprietary coding by the chart at right to complete the part number.

| Pin Contacts | | Socket Contacts | |
|---|---|---|---|
| Amphenol Letter | Equates to MS letter | Amphenol Letter | Equates to MS letter |
| G | PW | H | SW |
| I | PX | J | SX |
| K | PY | L | SY |
| M | PZ | N | SZ |

# PT-CE, SP-CE
## how to order



### PT-CE, SP-CE

To more easily illustrate ordering procedure, part number PT00CE-20-41PW (SR) is shown as follows:

| PT | 00 | CE | – | 20 | – | 41 | P | W | (SR) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

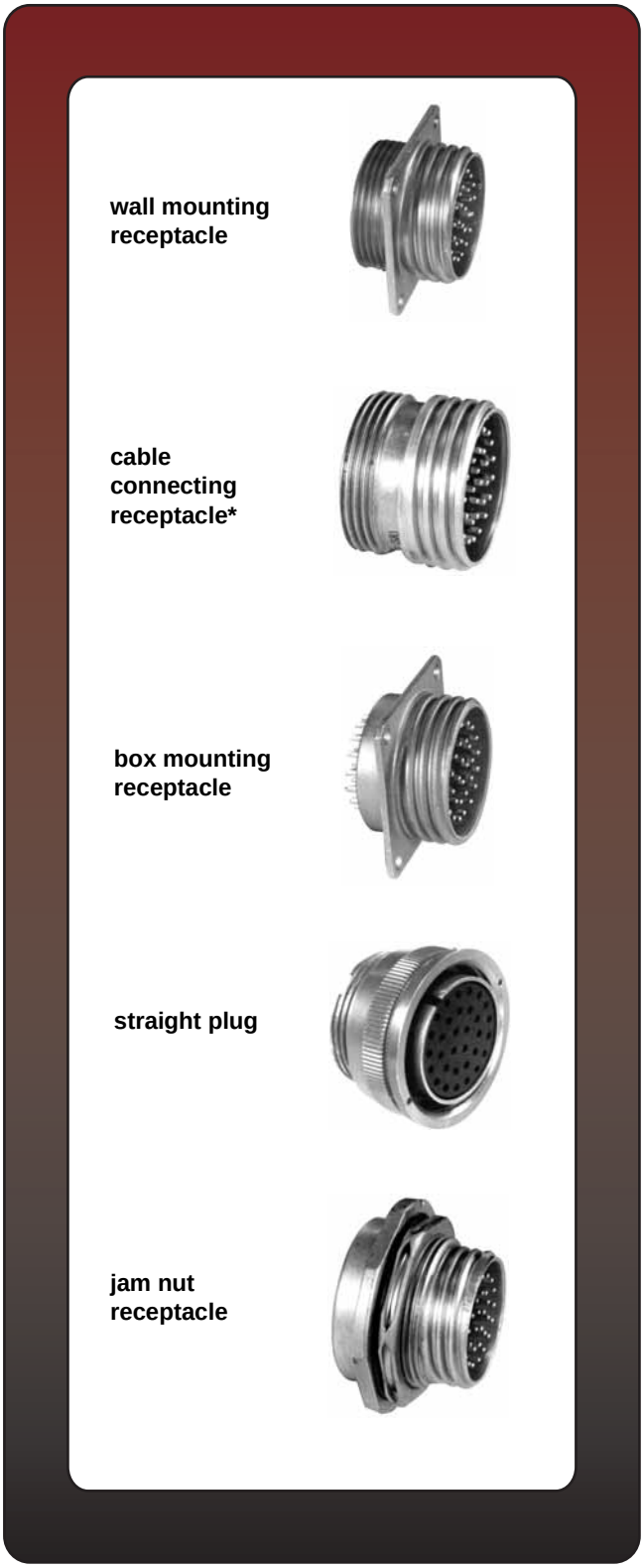
See code below:

1. Connector Type
   "PT" designates standard electrically conductive olive drab cadmium plated bayonet lock connector with crimp contacts
   "SP" designates electrically non-conductive, hard anodic coated bayonet lock connector with large flange and mounting holes for back panel mounting, and crimp contacts.
2. Shell Style
   "00" designates wall mounting receptacle
   "01" designates cable connecting receptacle*
   "02" designates box mounting receptacle
   "06" designates straight plug
   "07" designates jam nut receptacle
   "08" designates 90° plug
3. Service Class
   "CE" designates environmental crimp
   "CP" designates potted type crimp
   Both of the above are Amphenol® proprietary versions of the MIL-C-26482, Series 1 crimp contact connector and offer 7 lbs. contact retention for size 20 contacts; 9 lbs for size 16 contacts.
4. Shell Size
   "20" designates shell size. Shell sizes 6 through 24 available.
5. Insert Arrangement
   Refer to pages 4-11 for insert availability.
   "20 – 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
6. Contacts
   "P" designates pin contacts.
   "S" designates socket contacts.
7. Insert Rotation
   Refer to page 7.
   "W", "X", "Y", "Z" designate that insert is rotated in its shell from the "normal" position. No letter required for normal (no rotation) position.
8. "(SR)" designates strain relief clamp.
   Indicate optional finishes as follows:
   (003) olive drab cadmium plate (standard on "PT")
   (005) anodic coating - Alumilite® (standard on "SP")
   (014) olive drab cadmium plate over nickel
   (023) electroless nickel
   (024) olive drab zinc cobalt plating
   (025) non-conductive black zinc cobalt plating
   (027) conductive black zinc cobalt plating
   (424) electroless nickel finish with strain relief
   (466) olive drab zinc cobalt plating with strain relief
   (470) non-conductive black zinc cobalt plating with strain relief
   (476) conductive black zinc cobalt with strain relief

* This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

For ordering Miniature Breakaway PT-CE Crimp connectors see page 48.

# Amphenol® PC
## threaded coupling and solder termination




**Amphenol® PC Series threaded coupling miniature cylindrical connectors incorporate solder contacts. The PC double stub threaded coupling system cannot be cross threaded, and is mechanically assisted while engaging and disengaging.**

Shell components are aluminum. Bright cadmium plating to QQ-P-416 with a clear chromate after-treatment provides a golden colored conductive finish. Single key/keyway polarization represents maximum simplicity in a design proven in millions of AN connectors.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical insulation of the contacts in the insert.

The PC is intermateable and intermountable within the PC threaded coupling series.

Refer to pages 4-11 for insert arrangement availability.

* This connector style is sometimes referred to as a cable connecting “plug”. It does, however, mate with either a straight or 90 degree plug.

PC-SE and PC-CE, which are threaded coupling and incorporate crimp contacts, are briefly covered on pages 62 and 63. It is necessary to contact Amphenol for ordering information on these types.

## PC

| Contact Specifications | | | | |
|---|---|---|---|---|
| Contact Size | Test Current | Maximum Millivolt Drop† | Solder Well Diameter | Solder Well Depth |
| 20 | 7.5 | 55 | $.046^{+.004}_{-.000}$ | $.125^{+.031}_{-.000}$ |
| 16 | 13.0 | 50 | $.078^{+.005}_{-.003}$ | $.188^{+.031}_{-.000}$ |

| Service Rating | | | | | |
|---|---|---|---|---|---|
| Service Rating | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482

### PC Service Classes

PC connectors are available in the service classes listed below. Each class except the hermetic seal receptacle has one or more means of terminating or supporting a cable or wire bundle.

“A” General duty; back shell is threaded for conduit attachment of MS3057 cable clamp.

“A” (SR) General duty; with strain relief clamp for cable or wire bundle support.

“C” Pressurized receptacle; less than 1 cu. in. per hour leakage at 30 psi over a temperature range of –65°F to +257°F in accordance with BSC-C1P specification.

“E” Environment resistant; with nut and grommet for moisture proofing individual wires.

“E” (SR) Environment resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support.

“P” Translucent nylon boot for retaining customer applied potting compounds; held in place by a threaded ring.

“P” (SR) Strain relief clamp suitable for retaining customer applied potting compounds, with provision for wire support.

“W” Compressing clamp and neoprene gland for moisture proofing multi-conductor jacketed cables. Telescoping sleeves (MS 3420A) can be used to adapt to cables smaller than minimum close down.

“H”* Hermetically sealed with compression glass inserts.

Refer to pages 57-60 for Hermetic Versions within the PC solder series.

**“A”**
**general duty**

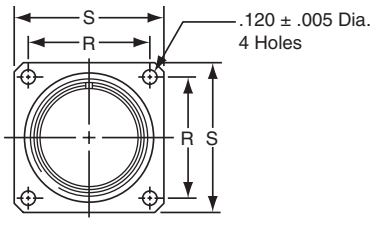
**“E” (SR)**
**strain relief**

**“E” MS / “E”**
**open wire seal**

**“P”, MS / “P”**
**potting boot**

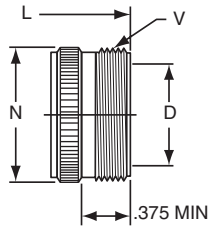
**“W”**
**cable seal**

# PC00
## wall mounting receptacle



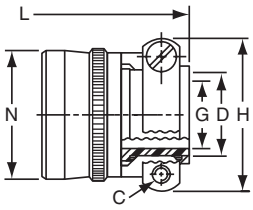

**TERMINATION ASSEMBLIES**

**"A" General Duty/ "C" Pressurized**



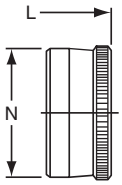

**PC00A-XX-XXX**
**PC00C-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR) Strain Relief**



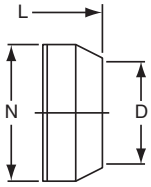

**PC00A-XX-XXX (SR)**
**PC00E-XX-XXX (SR)**

**"E" Open Wire Seal**



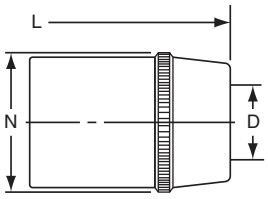

**PC00E-XX-XXX**

**"P" Potting Boot**




**PC00P-XX-XXX**

**"W" Cable Seal**




**PC00W-XX-XXX**

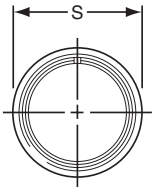
To complete part number see how to order on page 61.

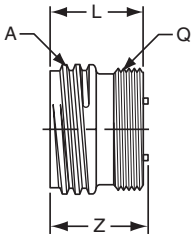
| Shell Size | Receptacle Front View R ±.005 | Receptacle Front View S ±.010 | Receptacle Side View A Thread Class 2A | K Max. | L Max. | M +.000 –.010 | Q Thread Class 2A | Z Max. | Class "A", "C" D Min. | Class "A", "C" L Max. | Class "A", "C" N Max. | Class "A", "C" V Thread Class 2A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | .469 | .688 | .3750 DS | .490 | .875 | .416 | .3125-32 NEF | .466 | .175 | 1.528 | .462 | .3750-32 NEF |
| 8 | .594 | .812 | .5000 DS | .490 | .875 | .416 | .4375-28 UNEF | .466 | .297 | 1.528 | .590 | .5000-28 UNEF |
| 10 | .719 | .938 | .6250 DS | .490 | .875 | .416 | .5625-24 NEF | .466 | .421 | 1.528 | .717 | .6250-24 NEF |
| 12 | .812 | 1.031 | .7500 DS | .490 | .875 | .416 | .6875-24 NEF | .466 | .546 | 1.528 | .834 | .7500-20 UNEF |
| 14 | .906 | 1.125 | .8750 DS | .490 | .875 | .416 | .8125-20 UNEF | .466 | .663 | 1.528 | .970 | .8750-20 UNEF |
| 16 | .969 | 1.219 | 1.0000 DS | .490 | .875 | .416 | .9375-20 UNEF | .466 | .787 | 1.528 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.062 | 1.312 | 1.1250 DS | .490 | .875 | .416 | 1.0625-18 UNEF | .466 | .879 | 1.528 | 1.216 | 1.1875-18 NEF |
| 20 | 1.156 | 1.438 | 1.2500 DS | .584 | 1.031 | .479 | 1.1875-18 NEF | .527 | 1.014 | 1.588 | 1.332 | 1.1875-18 NEF |
| 22 | 1.250 | 1.562 | 1.3750 DS | .584 | 1.031 | .479 | 1.3125-18 NEF | .527 | 1.135 | 1.588 | 1.460 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR) C Thread | D Min. | G Dia. | H Max. | L Max. | N Max. | Class "E" L Max. | N Max. | Class "P" D Min. | L Max. | N Max. | Class "W" D Closed | D Free | L Max. | N Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | – | – | – | – | – | – | 1.250 | .440 | .192 | 1.406 | .484 | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.922 | .550 | 1.250 | .560 | .317 | 1.406 | .608 | .168 | .230 | 1.680 | .547 |
| 10 | 6-32 | .302 | .188 | .875 | 1.922 | .675 | 1.250 | .685 | .434 | 1.406 | .734 | .205 | .312 | 1.680 | .675 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.922 | .803 | 1.250 | .813 | .548 | 1.406 | .858 | .338 | .442 | 1.823 | .812 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.922 | .920 | 1.250 | .930 | .673 | 1.406 | .984 | .416 | .539 | 2.015 | .940 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.250 | 1.057 | .798 | 1.406 | 1.110 | .550 | .616 | 2.231 | 1.067 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.250 | 1.175 | .899 | 1.406 | 1.234 | .600 | .672 | 2.461 | 1.194 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.344 | 1.290 | 1.434 | 1.301 | 1.024 | 1.562 | 1.360 | .635 | .747 | 2.835 | 1.322 |
| 22 | 8-32 | .928 | .750 | 1.719 | 2.344 | 1.418 | 1.434 | 1.430 | 1.149 | 1.562 | 1.484 | .670 | .846 | 2.999 | 1.449 |

All dimensions for reference only.

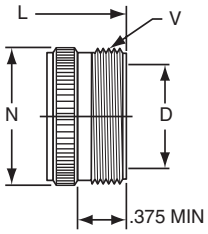
# PC01
## cable connecting receptacle



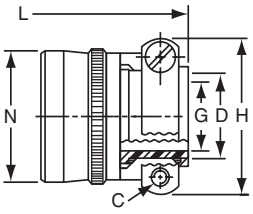

**TERMINATION ASSEMBLIES**

**"A" General Duty**



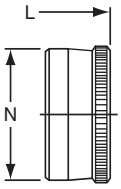

**PC01A-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR) Strain Relief**



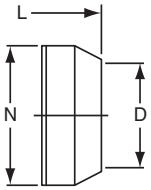

**PC01A-XX-XXX (SR)**
**PC01E-XX-XXX (SR)**
**PC01P-XX-XXX (SR)**

**"E" Open Wire Seal**



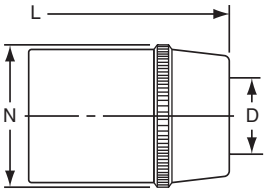

**PC01E-XX-XXX**

**"P" Potting Boot**




**PC01P-XX-XXX**

**"W" Cable Seal**




**PC01W-XX-XXX**

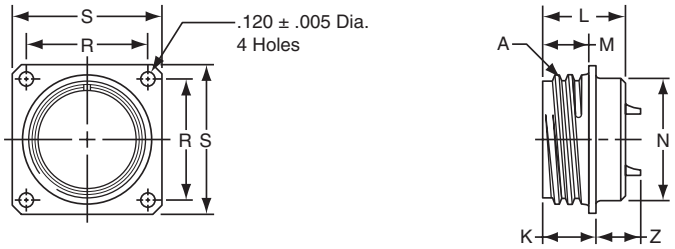
Note: This connector style is sometimes referred to as a cable connecting "plug".
It does, however, mate with either a straight or 90 degree plug.
To complete part number see how to order on page 61.

| Shell Size | Recept. Front View | Receptacle Side View | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Class "E" | | | |
| | S Max. | A Thread Class 2A | L Max. | Q Thread Class 2A | Z Max. | D Min. | L Max. | N Max. | V Thread Class 2A |
| 6 | .442 | .3750 DS | .875 | .3125-32 NEF | .924 | .175 | 1.518 | .462 | .3750-32 NEF |
| 8 | .570 | .5000 DS | .875 | .4375-28 UNEF | .924 | .297 | 1.518 | .590 | .5000-28 UNEF |
| 10 | .697 | .6250 DS | .875 | .5625-24 NEF | .924 | .421 | 1.518 | .717 | .6250-24 NEF |
| 12 | .814 | .7500 DS | .875 | .6875-24 NEF | .924 | .546 | 1.518 | .834 | .7500-20 UNEF |
| 14 | .950 | .8750 DS | .875 | .8125-20 UNEF | .924 | .663 | 1.518 | .970 | .8750-20 UNEF |
| 16 | 1.068 | 1.0000 DS | .875 | .9375-20 UNEF | .924 | .787 | 1.518 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.196 | 1.1250 DS | .875 | 1.0625-18 NEF | .924 | .879 | 1.518 | 1.216 | 1.1875-18 NEF |
| 20 | 1.312 | 1.2500 DS | 1.031 | 1.1875-18 NEF | 1.081 | 1.014 | 1.578 | 1.332 | 1.1875-18 NEF |
| 22 | 1.440 | 1.3750 DS | 1.031 | 1.3125-18 NEF | 1.081 | 1.135 | 1.578 | 1.460 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR) | | | | | | Class "E" | | Class "P" | | | Class "W" | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C Thread | D Min. | G Dia. | H Max. | L Max. | N Max. | L Max. | N Max. | D Min. | L Max. | N Max. | D | | L Max. | N Max. |
| | | | | | | | | | | | | Closed | Free | | |
| 6 | – | – | – | – | – | – | 1.250 | .440 | .192 | 1.406 | .484 | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.922 | .550 | 1.250 | .560 | .317 | 1.406 | .608 | .168 | .230 | 1.680 | .547 |
| 10 | 6-32 | .302 | .188 | .875 | 1.922 | .675 | 1.250 | .685 | .434 | 1.406 | .734 | .205 | .312 | 1.680 | .675 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.922 | .803 | 1.250 | .813 | .548 | 1.406 | .858 | .338 | .442 | 1.823 | .812 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.922 | .920 | 1.250 | .930 | .673 | 1.406 | .984 | .416 | .539 | 2.015 | .940 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.250 | 1.057 | .798 | 1.406 | 1.110 | .550 | .616 | 2.231 | 1.067 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.250 | 1.175 | .899 | 1.406 | 1.234 | .600 | .672 | 2.461 | 1.194 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.344 | 1.290 | 1.434 | 1.301 | 1.024 | 1.562 | 1.360 | .635 | .747 | 2.835 | 1.322 |
| 22 | 8-32 | .928 | .750 | 1.719 | 2.344 | 1.418 | 1.434 | 1.430 | 1.149 | 1.562 | 1.484 | .670 | .846 | 2.999 | 1.449 |

All dimensions for reference only.

# PC02
## box mounting receptacle




**PC02A-XX-XXX**
*** PC02C-XX-XXX**
*** PC02E-XX-XXX**
*** PC02P-XX-XXX**

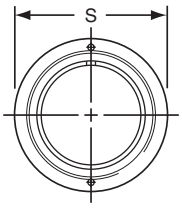
To complete part number see how to order on page 61.

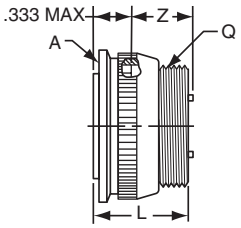
* The PC02 Box Mounting Receptacle is made only to complete a series and no provision is made for accessories or potting on the rear skirt.

| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|
| | R ±.005 | S ±.010 | A Thread Class 2A | K +.020 −.010 | L Max. | M +.010 −.000 | N Max. | Z Max. |
| 6 | .469 | .688 | .3750 DS | .469 | .801 | .406 | .323 | .466 |
| 8 | .594 | .812 | .5000 DS | .469 | .801 | .406 | .449 | .466 |
| 10 | .719 | .938 | .6250 DS | .469 | .801 | .406 | .573 | .466 |
| 12 | .812 | 1.031 | .7500 DS | .469 | .801 | .406 | .699 | .466 |
| 14 | .906 | 1.125 | .8750 DS | .469 | .801 | .406 | .823 | .466 |
| 16 | .969 | 1.219 | 1.0000 DS | .469 | .801 | .406 | .949 | .466 |
| 18 | 1.062 | 1.312 | 1.1250 DS | .469 | .801 | .406 | 1.073 | .466 |
| 20 | 1.156 | 1.438 | 1.2500 DS | .562 | .988 | .469 | 1.199 | .527 |
| 22 | 1.250 | 1.562 | 1.3750 DS | .562 | .988 | .469 | 1.323 | .527 |

All dimensions for reference only.

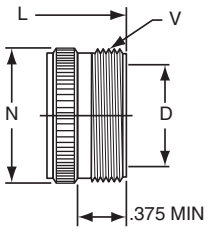
# PC06
## straight plug



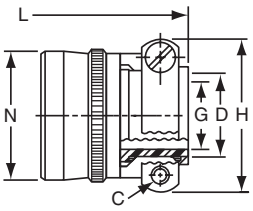

**TERMINATION ASSEMBLIES**

**"A" General Duty**



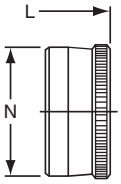

**PC06A-XX-XXX**

**"A" (SR), "E" (SR), "P" (SR) Strain Relief**



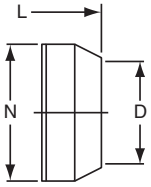

**PC06A-XX-XXX (SR)**
**PC06E-XX-XXX (SR)**
**PC06P-XX-XXX (SR)**

**"E" Open Wire Seal**



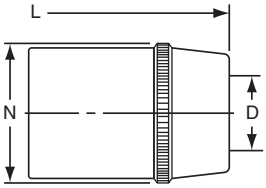

**PC06E-XX-XXX**

**"P" Potting Boot**




**PC06P-XX-XXX**

**"W" Cable Seal**




**PC06W-XX-XXX**

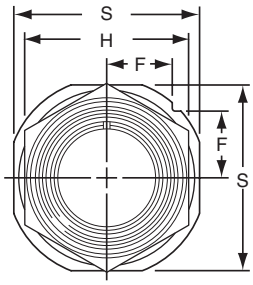
To complete part number see how to order on page 61.

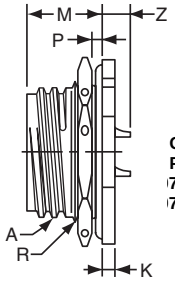
| Shell Size | Plug Front View: S Max. | Plug Side View: A Thread Class 2B | L Max. | Q Thread Class 2A | Z Max. | Class "A": D Min. | Class "A": L Max. | Class "A": N Max. | Class "A": V Thread Class 2A |
|---|---|---|---|---|---|---|---|---|---|
| 6 | .604 | .3750 DS | .875 | .3125-32 NEF | .627 | .175 | 1.534 | .462 | .3750-32 NEF |
| 8 | .729 | .5000 DS | .875 | .4375-28 UNEF | .627 | .297 | 1.534 | .590 | .5000-28 UNEF |
| 10 | .854 | .6250 DS | .875 | .5625-24 NEF | .627 | .421 | 1.534 | .717 | .6250-24 NEF |
| 12 | .979 | .7500 DS | .875 | .6875-24 NEF | .627 | .546 | 1.534 | .834 | .7500-20 UNEF |
| 14 | 1.104 | .8750 DS | .875 | .8125-20 UNEF | .627 | .663 | 1.534 | .972 | .8750-20 UNEF |
| 16 | 1.229 | 1.0000 DS | .875 | .9375-20 UNEF | .627 | .787 | 1.534 | 1.088 | 1.0000-20 UNEF |
| 18 | 1.354 | 1.1250 DS | .875 | 1.0625-18 UNEF | .627 | .879 | 1.534 | 1.216 | 1.1875-18 NEF |
| 20 | 1.478 | 1.2500 DS | 1.031 | 1.1875-18 NEF | .783 | 1.014 | 1.613 | 1.332 | 1.1875-18 NEF |
| 22 | 1.604 | 1.3750 DS | 1.031 | 1.3125-18 NEF | .783 | 1.135 | 1.613 | 1.460 | 1.4375-18 NEF |

| Shell Size | Class "A" (SR), "E" (SR), "P" (SR): C Thread | D Min. | G Dia. | H Max. | L Max. | N Max. | Class "E": L Max. | N Max. | Class "P": D Min. | L Max. | N Max. | Class "W": D Closed | D Free | L Max. | N Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | – | – | – | – | – | – | 1.250 | .440 | .192 | 1.406 | .484 | – | – | – | – |
| 8 | 6-32 | .240 | .125 | .812 | 1.906 | .550 | 1.250 | .560 | .317 | 1.406 | .608 | .168 | .230 | 1.680 | .547 |
| 10 | 6-32 | .302 | .188 | .875 | 1.906 | .675 | 1.250 | .685 | .434 | 1.406 | .734 | .205 | .312 | 1.680 | .675 |
| 12 | 6-32 | .428 | .312 | 1.000 | 1.906 | .803 | 1.250 | .813 | .548 | 1.406 | .858 | .338 | .442 | 1.823 | .812 |
| 14 | 6-32 | .552 | .375 | 1.125 | 1.906 | .920 | 1.250 | .930 | .673 | 1.406 | .984 | .416 | .539 | 2.015 | .940 |
| 16 | 6-32 | .615 | .500 | 1.188 | 2.047 | 1.047 | 1.250 | 1.057 | .798 | 1.406 | 1.110 | .550 | .616 | 2.231 | 1.067 |
| 18 | 8-32 | .740 | .625 | 1.438 | 2.078 | 1.165 | 1.250 | 1.175 | .899 | 1.406 | 1.234 | .600 | .672 | 2.461 | 1.194 |
| 20 | 8-32 | .740 | .625 | 1.438 | 2.250 | 1.290 | 1.434 | 1.301 | 1.024 | 1.562 | 1.360 | .635 | .747 | 2.835 | 1.322 |
| 22 | 8-32 | .928 | .750 | 1.719 | 2.250 | 1.418 | 1.434 | 1.430 | 1.149 | 1.562 | 1.484 | .670 | .846 | 2.999 | 1.449 |

All dimensions for reference only

# PC07
## jam nut receptacle

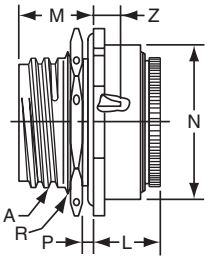



**General Duty/**
**Pressurized Receptacle**
**7A-XX-XXX**
**7C-XX-XXX**

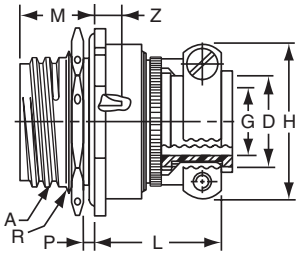
**TERMINATION ASSEMBLIES**

**"E" Open Wire Seal**



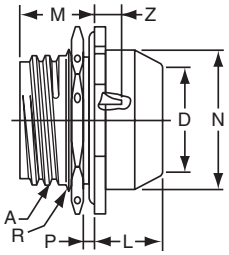

**PC07E-XX-XXX**

**"A" (SR), "E" (SR) Strain Relief**




**PC07A-XX-XXX (SR)**
**PC07E-XX-XXX (SR)**

**"P" Potting Boot**




**PC07P-XX-XXX**

To complete part number see how to order on page 61.

| Shell Size | Receptacle Front View | | | Receptacle Side View Class "A", "C" | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | F ±.010 | H Hex ±.016 | S ±.010 | A Thread Class 2A | K +.016 –.010 | M ±.010 | P Panel Thickness Min. | P Panel Thickness Max. | R Thread Class 2A | Z Max. |
| 6 | .286 | .625 | .812 | .3750 DS | .125 | .671 | .062 | .125 | .4375-28 UNEF | .232 |
| 8 | .331 | .750 | .938 | .5000 DS | .125 | .671 | .062 | .125 | .5625-24 NEF | .232 |
| 10 | .375 | .875 | 1.062 | .6250 DS | .125 | .671 | .062 | .125 | .6875-24 NEF | .232 |
| 12 | .442 | 1.062 | 1.250 | .7500 DS | .125 | .671 | .062 | .125 | .8750-20 UNEF | .232 |
| 14 | .486 | 1.188 | 1.375 | .8750 DS | .125 | .671 | .062 | .125 | 1.0000-20 UNEF | .232 |
| 16 | .530 | 1.312 | 1.500 | 1.0000 DS | .125 | .671 | .062 | .125 | 1.1250-18 NEF | .232 |
| 18 | .573 | 1.438 | 1.625 | 1.1250 DS | .125 | .671 | .062 | .125 | 1.2500-18 NEF | .232 |
| 20 | .641 | 1.562 | 1.812 | 1.2500 DS | .156 | .797 | .062 | .250 | 1.3750-18 NEF | .262 |
| 22 | .685 | 1.688 | 1.938 | 1.3750 DS | .156 | .797 | .062 | .250 | 1.5000-18 NEF | .262 |

| Shell Size | Class "E" | | Class "A" (SR), "E" (SR) | | | | | Class "P" | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | L Max. | N Max. | C Thread | G Dia. | H Max. | L Max. | P Min. | D Min. | L Max. | N Max. |
| 6 | .692 | .605 | – | – | – | – | – | .192 | .665 | .484 |
| 8 | .692 | .730 | 6-32 | .125 | .812 | 1.096 | .240 | .317 | .665 | .608 |
| 10 | .692 | .855 | 6-32 | .188 | .875 | 1.096 | .302 | .434 | .665 | .734 |
| 12 | .692 | .980 | 6-32 | .312 | 1.000 | 1.096 | .428 | .548 | .665 | .858 |
| 14 | .692 | 1.105 | 6-32 | .375 | 1.125 | 1.096 | .552 | .673 | .665 | .984 |
| 16 | .692 | 1.230 | 6-32 | .500 | 1.188 | 1.228 | .651 | .798 | .665 | 1.110 |
| 18 | .692 | 1.355 | 8-32 | .625 | 1.438 | 1.228 | .740 | .899 | .665 | 1.234 |
| 20 | .754 | 1.511 | 8-32 | .625 | 1.438 | 1.291 | .740 | 1.024 | .790 | 1.360 |
| 22 | .754 | 1.636 | 8-32 | .750 | 1.625 | 1.291 | .928 | 1.149 | .790 | 1.484 |

All dimensions for reference only

# PC
# hermetic

**Three shell styles are available in the hermetic PC threaded series:**

- **PCIH**
- **PC02H**
- **PC07H**

These hermetic connectors are available with solder cup or flat eyelet pin contacts. Socket contacts are available in some versions. Other design characteristics of the PC hermetic connector series are as follows:

Shell Size: 6 thru 22. (tin plated)

Contact count: 2 through 65. Refer to pages 4 and 5 for insert availability for hermetics.

Current: 5.0 amp, each #20 contact;
10 amp, each #16 contact;
17 amp, each #12 contact.

Contacts: Fabricated from high nickel alloy and tin plated.

Dielectric Withstanding Voltage (sea level):
1500 volts (RMS) 60 cps Service Rating I;
2300 volts (RMS) 60 cps Service Rating II.

Compression glass inserts, permanently lettered.

Helium Leakage: Less than 1.0 X $10^{-6}$ cc/sec. at 15 psi differential.

Physical Shock: 100 G's.

Vibration: Exceeds MIL-E-5272 Procedure II.

Thermal Shock: No deterioration or failure after 5 cycles at –55 °F to +257°F.

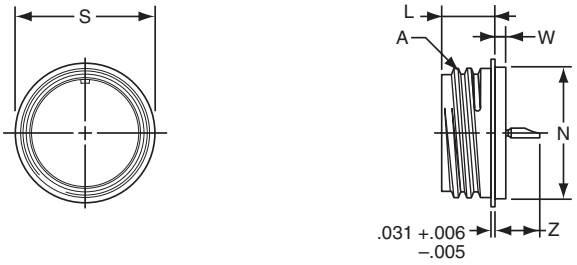
Refer to pages 4-11 for insert arrangement availability.

**solder mounting receptacle**

**box mounting receptacle**

**jam nut receptacle**

# PCIH
## hermetic solder mounting receptacle



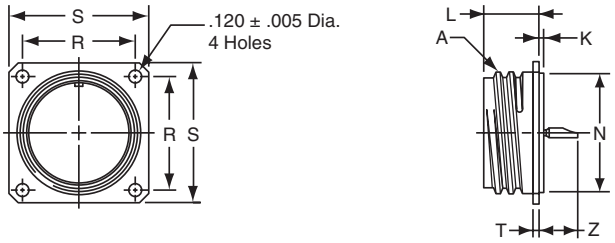

*** PCIH-XX-XXX**
**** PCIY-XX-XXX**

To complete part number see how to order on page 61.
* Solder cup pin contacts without interfacial seal.
** Solder cup pin contacts with interfacial seal

| Shell Size | Receptacle Front View | Receptacle Side View | | | | |
|---|---|---|---|---|---|---|
| | S Dia. Max. | A Thread Class 2A | L +.025 –.016 | N Dia. +.000 –.005 | W +.011 –.010 | Z Max. |
| 6 | .511 | .3750 DS | .422 | .438 | .094 | .387 |
| 8 | .636 | .5000 DS | .422 | .562 | .094 | .387 |
| 10 | .761 | .6250 DS | .422 | .672 | .094 | .387 |
| 12 | .855 | .7500 DS | .422 | .781 | .094 | .387 |
| 14 | .980 | .8750 DS | .422 | .906 | .094 | .387 |
| 16 | 1.105 | 1.0000 DS | .422 | 1.031 | .094 | .387 |
| 18 | 1.229 | 1.1250 DS | .422 | 1.156 | .094 | .387 |
| 20 | 1.323 | 1.2500 DS | .422 | 1.250 | .094 | .387 |
| 22 | 1.439 | 1.3750 DS | .422 | 1.375 | .125 | .418 |

All dimensions for reference only.

# PC02H
## hermetic box mounting receptacle



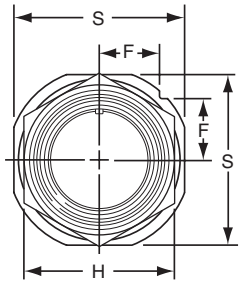

*** PC02H-XX-XXX**
**** PC02Y-XX-XXX**

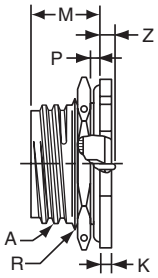
To complete part number see how to order on page 61.
* Solder cup pin contacts without interfacial seal.
** Solder cup pin contacts with interfacial seal

| Shell Size | Receptacle Front View | | Receptacle Side View | | | | | |
|---|---|---|---|---|---|---|---|---|
| | R ±.005 | S ±.010 | A Thread Class 2A | K ±.016 | L +.010 –.000 | N Dia. +.000 –.005 | T ±.010 | Z Max. |
| 6 | .469 | .688 | .3750 DS | .047 | .469 | .438 | .062 | .344 |
| 8 | .594 | .812 | .5000 DS | .047 | .469 | .562 | .062 | .344 |
| 10 | .719 | .938 | .6250 DS | .047 | .469 | .672 | .062 | .344 |
| 12 | .812 | 1.031 | .7500 DS | .047 | .469 | .781 | .062 | .344 |
| 14 | .906 | 1.125 | .8750 DS | .047 | .469 | .906 | .062 | .344 |
| 16 | .969 | 1.219 | 1.0000 DS | .047 | .469 | 1.031 | .062 | .344 |
| 18 | 1.062 | 1.312 | 1.1250 DS | .047 | .469 | 1.156 | .062 | .344 |
| 20 | 1.156 | 1.438 | 1.2500 DS | .047 | .469 | 1.250 | .062 | .344 |
| 22 | 1.250 | 1.562 | 1.3750 DS | .078 | .469 | 1.375 | .062 | .377 |

All dimensions for reference only.

# PC07H
## hermetic jam nut receptacle




*** PC07H-XX-XXX**
**** PC07Y-XX-XXX**

To complete part number see how to order on page 61.
* Solder cup pin contacts without interfacial seal.
** Solder cup pin contacts with interfacial seal

| Shell Size | Receptacle Front View | | | Receptacle Side View | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | F +.010 | H Hex. ±.016 | S +.010 | A Thread Class 2A | K +.000 –.016 | M ±.020 | Panel Thickness Min | Panel Thickness Max. | R Thread Class 2A | Z +.010 |
| 6 | .286 | .625 | .812 | .3750 DS | .094 | .671 | .062 | .125 | .4375-28 UNEF | .129 |
| 8 | .331 | .750 | .938 | .5000 DS | .094 | .671 | .062 | .125 | .5625-24 NEF | .129 |
| 10 | .375 | .875 | 1.062 | .6250 DS | .094 | .671 | .062 | .125 | .6875-24 NEF | .129 |
| 12 | .442 | 1.062 | 1.250 | .7500 DS | .094 | .671 | .062 | .125 | .8750-20 UNEF | .129 |
| 14 | .486 | 1.188 | 1.375 | .8750 DS | .094 | .671 | .062 | .125 | 1.0000-20 UNEF | .129 |
| 16 | .530 | 1.312 | 1.500 | 1.0000 DS | .094 | .671 | .062 | .125 | 1.1250-18 NEF | .129 |
| 18 | .573 | 1.438 | 1.625 | 1.1250 DS | .094 | .671 | .062 | .125 | 1.2500-18 NEF | .129 |
| 20 | .641 | 1.562 | 1.812 | 1.2500 DS | .125 | .797 | .062 | .250 | 1.3750-18 NEF | .034 |
| 22 | .685 | 1.688 | 1.938 | 1.3750 DS | .125 | .797 | .062 | .250 | 1.5000-18 NEF | .034 |

All dimensions for reference only.

# PC
# how to order

### PC

To more easily illustrate ordering procedure, part number PC00A-20-41PW (SR) is shown as follows:

| PC | 00 | A | – | 20 | – | 41 | P | W | (SR) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

See code below:

1. Connector Type
   "PC" designates bright cadmium plated with clear chromate after treatment, threaded coupling connector with solder contacts
2. Shell Style
   "00" designates wall mounting receptacle
   "01" designates cable connecting receptacle†
   "02" designates box mounting receptacle
   "06" designates straight plug
   "07" designates jam nut receptacle
   "I" designates solder-mount receptacle (hermetic only)
3. Service Class
   "A" designates general duty back shell
   "C" designates pressurized receptacle
   "E" designates environmental resisting open wire seal with grommet and nut
   "P" designates potted with potting boot
   "W" designates clamp assembly for moisture proofing, multi-jacketed cables
   "H" designates hermetic* seal (without interfacial seal)
   "Y" designates hermetic* seal (with interfacial seal)
4. Shell Size
   "20" designates shell size. Shell sizes 6 through 24 available.
5. Insert Arrangement
   Refer to pages 4-11 for insert availability.
   "20 – 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
6. Contacts
   "P" designates pin contacts.
   "S" designates socket contacts.
7. Insert Rotation
   Refer to page 7.
   "W", "X", "Y", "Z" designate that insert is rotated in its shell from the "normal" position. No letter required for normal (no rotation) position.
8. "(SR)" designates strain relief clamp.
   Indicate optional finishes as follows:
   (001) bright cadmium (standard on "PC")
   (003) olive drab cadmium plate
   (005) anodic coating - Alumilite®
   (011) chromate treated (Iridite 14-2)
   (014) olive drab cadmium plate over nickel
   (023) electroless nickel

* Hermetic connectors are supplied with tin plated shells.

† This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

# Amphenol® PC-SE, PC-CE
## threaded coupling and crimp termination

**Amphenol® PC-SE Series threaded coupling miniature cylindrical connectors incorporate crimp contacts in a spring tower retention system.**

**Amphenol® PC-CE Series threaded coupling miniature cylindrical connectors incorporate crimp contacts in a nylon wafer retention system to maintain contact position.**

**The PC double stub threaded coupling system cannot be cross threaded, and is mechanically assisted while engaging and disengaging.**

Shell components are aluminum. Bright cadmium plating to QQ-P-416 with a clear chromate after-treatment provides a golden colored conductive finish. Single key/keyway polarization represents maximum simplicity in a design proven in millions of AN connectors.

Both pins and sockets are machined from a copper alloy and are gold plated. This gold plating eliminates contact corrosion and offers an indefinite shelf life. Socket contacts for these series are a closed entry design.

Both the insert and main joint gasket are molded from resilient neoprene. This provides excellent moisture sealing at the gasket and superior electrical insulation of the contacts in the insert.

The PC-SE and PC-CE are only intermateable and intermountable within the PC threaded coupling series.

Shell style drawing pages are not shown in this catalog for the PC-SE and PC-CE styles. If connector drawings are needed please contact Amphenol for assistance. Shell styles are currently available in these series as follows:

- PC00-SE, wall mounting receptacle
- PC01-SE, cable connecting receptacle
- PC02-SE, box mounting receptacle
- PC06-SE, straight plug
- PC08-SE, 90 degree plug
- PC06-CE straight plug (will mate with PC-SE receptacles and PC solder receptacles)

Please contact Amphenol for complete information, as there may be limitations in shell sizes within the PC-SE and PC-CE series.

Refer to pages 4-11 for insert arrangement availability.

* This connector style is sometimes referred to as a cable connecting “plug”. It does, however, mate with either a straight or 90 degree plug.

### PC-SE. PC-CE

| Contact Specifications | | | | |
|---|---|---|---|---|
| Contact Size | Test Current | Maximum Millivolt Drop† | Crimp Well Diameter | Minimum Well Depth |
| 20 | 7.5 | 55 | .049 ±.001 | .267 |
| 16 | 13.0 | 49 | .067 ±.001 | .236 |
| 12 | 23.0 | 42 | .100 ±.002 | .236 |

| Service Rating | | | | | |
|---|---|---|---|---|---|
| Service Rating | Recommended Operating AC Voltage at Sea Level | Test Voltage AC (RMS), 60 cps | | | |
| | | Sea Level | 50,000 ft. | 70,000 ft. | 110,000 ft. |
| I | 600 | 1,500 | 500 | 375 | 200 |
| II | 1,000 | 2,300 | 750 | 500 | 200 |

† Silver plated wire per MIL-C-26482

### PC-SE and PC-CE Service Classes

PC-SE and PC-CE connectors are available in the three service classes listed below.

“SE” Open wire sealing - environmental resistant, with a nut and grommet for moisture proofing individual wires

“SE” (SR) Strain relief clamp - environmental resistant strain relief clamp and grommet for moisture proofing individual wires; provides added wire bundle support

“SP” Translucent nylon boot for retaining customer applied potting compounds; held in place by a threaded ring

**“SE”**
**open wire seal**

**“SE” (SR)**
**strain relief**

**“SP”**
**potting boot**

# PC-SE, PC-CE
## how to order

### PC-SE, PC-CE

To more easily illustrate ordering procedure, part number PC-SE00A-20-41PW (SR) is shown as follows:

| PC-SE | 00 | SP | – | 20 | – | 41 | P | W | (SR) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | 6 | 7 | 8 |

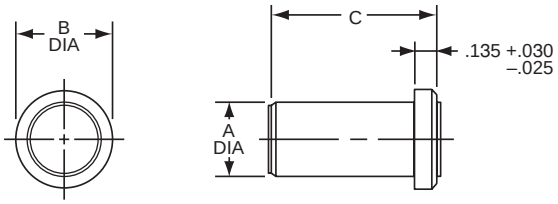
See code below:

1. Connector Type
   "PC-SE" designates bright cadmium plated with clear chromate after treatment, threaded coupling connector with crimp contacts, incorporating a spring tower retention system
   "PC-CE" designates bright cadmium plated with clear chromate after treatment, threaded coupkling connector with crimp contacts, incorporating a nylon waftr retention system to maintain contact postion
2. Shell Styles PC-SE - consult Amphenol for availability.
   "00" designates wall mounting receptacle
   "01" designates cable connecting receptacle†
   "02" designates box mounting receptacle
   "06" designates straight plug
   "08" designates 90 degree plug
2. Shell Style PC-CE - consult Amphenol for availability.
   "06" designates straight plug
3. Service Class
   "SE" designates environmental crimp
   "SP" designates potted type crimp
   Both of the above are Amphenol® proprietary versions of the MIL-C-26482, Series 1 crimp contact connector and offer 7 lbs. contact retention for size 20 contacts; 9 lbs for size 16 contacts.)
4. Shell Size
   "20" designates shell size. Please contact Amphenol for complete information, as there may be limitations in shell sizes with the PC-SE and PC-CE series.
5. Insert Arrangement
   Refer to pages 4-11 for insert availability.
   "20 – 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
6. Contacts
   "P" designates pin contacts.
   "S" designates socket contacts.
7. Insert Rotation
   Refer to page 7.
   "W", "X", "Y", "Z" designate that insert is rotated in its shell from the "normal" position. No letter required for normal (no rotation) position.
8. "(SR)" designates strain relief clamp.
   Indicate optional finishes as follows:
   (001) bright cadmium (standard on "PC")
   (003) olive drab cadmium plate
   (005) anodic coating - Alumilite®
   (011) chromate treated (Iridite 14-2)
   (014) olive drab cadmium plate over nickel
   (023) electroless nickel

† This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

# PT, SP, PC

## accessories – sealing plugs, flange gaskets, potting boots

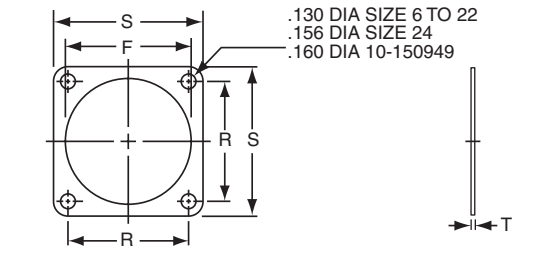



**SEALING PLUG**
**MS27488-XX**
**10-405996-XX**

### SEALING PLUGS – FOR PT, SP, PC

| Contact Size | Amphenol® Part Number | MS Number | A Dia. ±.010 | B Dia. ±.005 | C ±.010 | Color Code |
|---|---|---|---|---|---|---|
| 12 | 10-405996-12 | MS27488-12 | .121 | .171 | .564 | Yellow |
| 16 | 10-405996-16 | MS27488-16 | .083 | .133 | .564 | Blue |
| 20 | 10-405996-20 | MS27488-20 | .060 | .090 | .564 | Red |

How to Order: Order by 10- (Proprietary) or MS part number as shown in chart above.

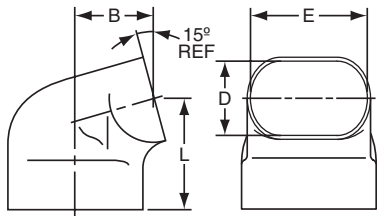



**MOUNTING FLANGE GASKET**
**10-101949-XX**
**10-150949-XX**

### MOUNTING FLANGE GASKETS – FOR PT, SP, PC

| Shell Size | PT, PC 10-101949 R ±.010 | PT, PC 10-101949 S ±.010 | SP 10-150949 R ±.010 | SP 10-150949 S ±.010 | PT, SP, PC 10-101949 10-150949 F +.016 –.000 | PT, SP, PC 10-101949 10-150949 T ±.008 |
|---|---|---|---|---|---|---|
| 6 | .469 | .688 | .641 | .953 | .375 | .024 |
| 8 | .594 | .812 | .734 | 1.047 | .500 | .024 |
| 10 | .719 | .938 | .812 | 1.125 | .625 | .024 |
| 12 | .813 | 1.031 | .938 | 1.250 | .750 | .024 |
| 14 | .906 | 1.125 | 1.031 | 1.344 | .875 | .024 |
| 16 | .969 | 1.219 | 1.125 | 1.438 | 1.000 | .024 |
| 18 | 1.063 | 1.312 | 1.203 | 1.516 | 1.125 | .024 |
| 20 | 1.156 | 1.438 | 1.297 | 1.672 | 1.250 | .024 |
| 22 | 1.250 | 1.563 | 1.375 | 1.750 | 1.375 | .024 |
| 24 | 1.375 | 1.688 | 1.500 | 1.875 | 1.500 | .024 |

How to Order: For PT, PC: 10-101949-XX (complete order number with desired shell size).
For SP: 10-150949-XX (complete order number with desired shell size).




**75° POTTING BOOT**
**10-101988-XX**

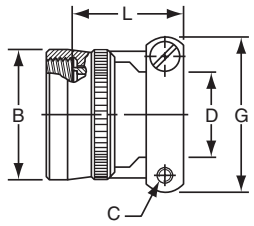
### 75° POTTING BOOTS – FOR PT, SP, PC

| Shell Size | B Max. | D ±.015 | E ±.015 | L Max. |
|---|---|---|---|---|
| 8 | .433 | .312 | .438 | .766 |
| 10 | .493 | .438 | .562 | .830 |
| 12 | .552 | .516 | .688 | .861 |
| 14 | .643 | .625 | .781 | .916 |
| 16 | .658 | .656 | .890 | .936 |
| 18 | .689 | .703 | 1.000 | .959 |
| 20 | .750 | .766 | 1.125 | 1.052 |
| 22 | .794 | .812 | 1.234 | 1.073 |
| 24 | 1.070 | .918 | 1.374 | 1.310 |

How to Order: 10-101988-XX (complete order number with desired shell size).

All dimensions for reference only.

# PT, SP, PC
## accessories – clamps



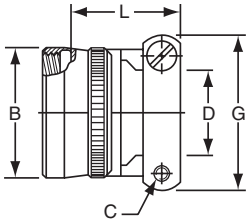

**CLASS "E" STRAIN RELIEF CLAMP**
**10-101971-XX**

### CLASS "E" STRAIN RELIEF CLAMP – FOR PT, SP, PC

| Shell Size | B Max. | C Thread Class 2B | D Min. | G Max. | L Max. |
|---|---|---|---|---|---|
| 8 | .550 | 6-32 NC | .240 | .812 | .930 |
| 10 | .675 | 6-32 NC | .302 | .875 | .930 |
| 12 | .803 | 6-32 NC | .428 | 1.000 | .930 |
| 14 | .920 | 6-32 NC | .552 | 1.125 | .930 |
| 16 | 1.047 | 6-32 NC | .615 | 1.188 | 1.062 |
| 18 | 1.165 | 8-32 NC | .740 | 1.438 | 1.062 |
| 20 | 1.291 | 8-32 NC | .740 | 1.438 | 1.093 |
| 22 | 1.418 | 8-32 NC | .928 | 1.719 | 1.093 |
| 24 | 1.533 | 8-32 NC | .928 | 1.719 | 1.093 |

How to Order: 10-101971-XX X
Add desired shell size
Add desired finish suffix†
"1" designates bright cadmium with clear chromate
"3" designates olive drab cadmium
"5" designates Alumilite®

Not for use with jam nut style connectors.



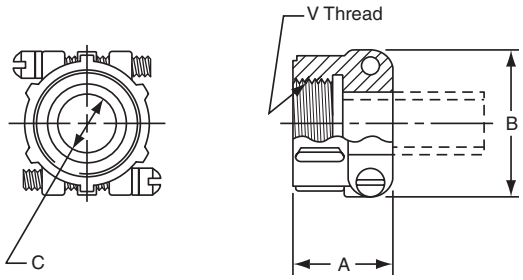

**CLASSES "A" & "P" STRAIN RELIEF CLAMP**
**10-101980-XX**

### CLASSES "A" & "P" STRAIN RELIEF CLAMP – FOR PT, SP, PC

| Shell Size | B Max. | C Thread Class 2B | D Min. | G Max. | L +.010 –.020 |
|---|---|---|---|---|---|
| 8 | .540 | 6-32 NC | .240 | .812 | .843 |
| 10 | .665 | 6-32 NC | .302 | .875 | .843 |
| 12 | .793 | 6-32 NC | .428 | 1.000 | .843 |
| 14 | .910 | 6-32 NC | .552 | 1.125 | .843 |
| 16 | 1.037 | 6-32 NC | .614 | 1.188 | .975 |
| 18 | 1.155 | 8-32 NC | .740 | 1.438 | .975 |
| 20 | 1.281 | 8-32 NC | .740 | 1.438 | 1.007 |
| 22 | 1.408 | 8-32 NC | .928 | 1.719 | 1.007 |
| 24 | 1.533 | 8-32 NC | .938 | 1.719 | 1.007 |

How to Order: 10-101980-XX X
Add desired shell size
Add desired finish suffix†
"1" designates bright cadmium with clear chromate
"3" designates olive drab cadmium
"5" designates Alumilite®

Not for use with jam nut style connectors.




**CLASS "A" CABLE CLAMP**
**97-3057-XXXX**

### CLASS "A" CABLE CLAMPS – FOR PT, SP, PC

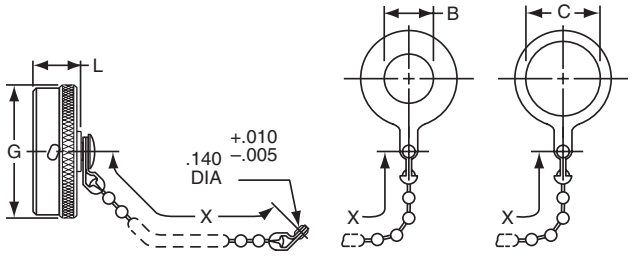
| Shell Size | Amphenol® Part Number | A ±.031 | B Max. | C Dia. Min. | V Thread |
|---|---|---|---|---|---|
| 10 | 97-3057-1004 | .795 | .842 | .3125 | .6250-24 |
| 12 | 97-3057-1007 | .850 | .995 | .4375 | .7500-20 |
| 14 | 97-3057-1008 | .920 | 1.120 | .5625 | .8750-20 |
| 16 | 97-3057-1010 | .920 | 1.216 | .6250 | 1.0000-20 |
| 18/20 | 97-3057-1012 | .927 | 1.403 | .7500 | 1.1875-18 |
| 22/24 | 97-3057-1016 | 1.015 | 1.683 | .9375 | 1.4375-18 |

How to Order: Order by 97-3057-XXXX number listed above. Standard finish is olive drab zinc alloy. Consult Amphenol, Sidney, NY for alternate finishes.

† Standard accessory finishes are "1" bright cadmium with clear chromate for PC types, "3" olive drab cadmium for PT and MS/PT types, "5" Alumilite® for SP types. Electroless nickel plating is also available on some items; consult Amphenol, Sidney, NY

All dimensions for reference only.

# PT, SP, MS/PT
## accessories – protection caps




**RECEPTACLE PROTECTION CAP FOR PT, SP, MS/PT CONNECTORS**

**10-101960-XXX MS3181-XXX (Wall Receptacle)**

**10-101961-XXX (Cable Connecting Receptacle)**

**10-101964-XXX MS3181-XXX (Jam Nut Receptacle)**

### RECEPTACLE PROTECTION CAPS – FOR PT, SP, MS/PT

| Shell Size | B Dia. +.010 –.000 | C Dia. +.010 –.000 | G Dia. Max. | L +.020 –.000 | X Std. & MS RA, CA, NA | X MS only RAL/CAL/NAL |
|---|---|---|---|---|---|---|
| 6 | .328 | .454 | .577 | .563 | 3.000 | 5.000 |
| 8 | .454 | .578 | .706 | .563 | 3.000 | 5.000 |
| 10 | .578 | .703 | .816 | .563 | 3.000 | 5.000 |
| 12 | .703 | .891 | 1.000 | .563 | 3.500 | 5.000 |
| 14 | .844 | 1.016 | 1.128 | .563 | 3.500 | 5.000 |
| 16 | .969 | 1.141 | 1.257 | .563 | 3.500 | 5.000 |
| 18 | 1.094 | 1.266 | 1.367 | .563 | 3.500 | 5.000 |
| 20 | 1.219 | 1.391 | 1.496 | .563 | 4.000 | 5.000 |
| 22 | 1.343 | 1.516 | 1.624 | .563 | 4.000 | 5.000 |
| 24 | 1.453 | 1.614 | 1.747 | .603 | 4.000 | 5.000 |

How to Order Proprietary Receptacle Caps:

Wall Receptacle Caps: 10-101960- XX X
Cable Connecting Receptacle Caps: 10-101961- XX X
Jam Nut Receptacle Caps: 10-101964- XX X

Add desired shell size

Add desired finish suffix†

"1" designates bright cadmium with clear chromate
"3" designates olive drab cadmium
"5" designates Alumilite®

Proprietary caps are supplied with standard bead chains only (as shown in drawing at left). For other chain options, an MS version cap should be ordered.

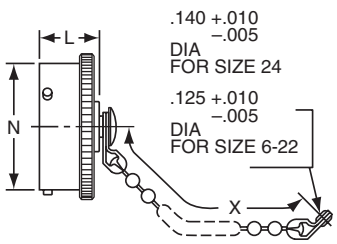
How to Order MS Version Receptacle Caps:

Wall Receptacle Caps: MS3181- XX -CA for sash chain
-CAL for long sash chain
-RA for rope chain
-RAL for long rope chain

Jam Nut Recept. Caps: MS3181- XX -NA for sash chain
-NAL for long sash chain

Shell size

MS versions are supplied with standard anodize finish only. For other finish options a proprietary cap should be ordered.




**PLUG PROTECTION CAP FOR PT, SP, MS/PT CONNECTORS**
**MS3180-XXX**
**10-101957-XXX**

### PLUG PROTECTION CAPS – FOR PT, SP, MS/PT

| Shell Size | N Dia. +.001 –.005 | L Dia. +.025 –.015 | X Std. & MS CA, RA | X MS only CAL/RAL |
|---|---|---|---|---|
| 6 | .348 | .532 | 3.000 | 5.000 |
| 8 | .473 | .532 | 3.000 | 5.000 |
| 10 | .590 | .532 | 3.000 | 5.000 |
| 12 | .750 | .532 | 3.500 | 5.000 |
| 14 | .875 | .532 | 3.500 | 5.000 |
| 16 | 1.000 | .532 | 3.500 | 5.000 |
| 18 | 1.125 | .532 | 3.500 | 5.000 |
| 20 | 1.250 | .594 | 4.000 | 5.000 |
| 22 | 1.375 | .594 | 4.000 | 5.000 |
| 24 | 1.500 | .627 | 4.000 | 5.000 |

How to Order Proprietary Plug Caps: 10-101957-XX X

Add desired shell size

Add desired finish suffix†

"1" designates bright cadmium with clear chromate
"3" designates olive drab cadmium
"5" designates Alumilite®

Proprietary caps are supplied with standard bead chains only (as shown in drawing at left). For other chain options an MS version cap should be ordered.

How to Order MS Version Plug Caps: MS3180- XX -CA for sash chain
-CAL for long sash chain
-RA for rope chain
-RAL for long rope chain

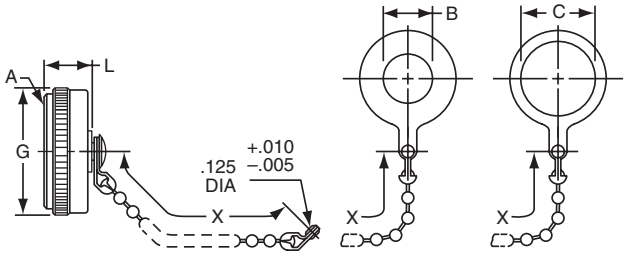
Shell size

MS versions are supplied with standard anodize finish only. For other finish options a proprietary cap should be ordered.

† Standard accessory finishes are "1" bright cadmium with clear chromate for PC types, "3" olive drab cadmium for PT and MS/PT types, "5" Alumilite® for SP types. Electroless nickel plating is also available on some items; consult Amphenol, Sidney, NY

All dimensions for reference only.

# PC
## accessories – protection caps




**RECEPTACLE PROTECTION CAP FOR PC CONNECTORS**

**10-101950-XXX (Wall Receptacle)** **10-101951-XXX (Cable Connecting Receptacle)** **10-101956-XXX (Jam Nut Receptacle)**

### RECEPTACLE PROTECTION CAPS – FOR PC

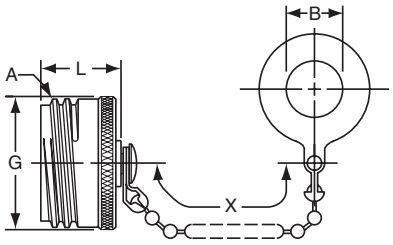
| Shell Size | A Thread Class 2B | B Dia. +.010 –.000 | C Dia. +.010 –.000 | G Max. | L Max. | X ±.250 |
|---|---|---|---|---|---|---|
| 6 | .3750 DS | .328 | .454 | .520 | .448 | 3.000 |
| 8 | .5000 DS | .454 | .578 | .648 | .448 | 3.000 |
| 10 | .6250 DS | .578 | .703 | .776 | .448 | 3.000 |
| 12 | .7500 DS | .703 | .891 | .902 | .448 | 3.500 |
| 14 | .8750 DS | .844 | 1.016 | 1.030 | .448 | 3.500 |
| 16 | 1.0000 DS | .969 | 1.141 | 1.157 | .448 | 3.500 |
| 18 | 1.1250 DS | 1.094 | 1.266 | 1.284 | .448 | 3.500 |
| 20 | 1.2500 DS | 1.219 | 1.391 | 1.412 | .448 | 4.000 |
| 22 | 1.3750 DS | 1.343 | 1.516 | 1.507 | .448 | 4.000 |

How to Order Proprietary Receptacle Caps for PC connectors only:

Wall Receptacle Caps: 10-101950- XX X
Cable Connecting Receptacle Caps: 10-101951- XX X
Jam Nut Receptacle Caps: 10-101956- XX X

Add desired shell size
Add desired finish suffix†
"1" designates bright cadmium with clear chromate (standard for PC)
"3" designates olive drab cadmium
"5" designates Alumilite®

Caps for PC connectors are supplied only in proprietary versions with standard bead chains only (as shown in drawing at left).




**PLUG PROTECTION CAP FOR PC CONNECTORS 10-101955-XXX**

### PLUG PROTECTION CAPS – FOR PC

| Shell Size | A Thread Class 2A | B +.010 –.000 | G Max. | L Max. | X ±.250 |
|---|---|---|---|---|---|
| 6 | .3750 DS | .328 | .399 | .557 | 3.000 |
| 8 | .5000 DS | .454 | .526 | .557 | 3.000 |
| 10 | .6250 DS | .578 | .643 | .557 | 3.000 |
| 12 | .7500 DS | .703 | .770 | .557 | 3.500 |
| 14 | .8750 DS | .844 | .897 | .557 | 3.500 |
| 16 | 1.0000 DS | .969 | 1.025 | .557 | 3.500 |
| 18 | 1.250 DS | 1.094 | 1.152 | .557 | 3.500 |
| 20 | 1.2500 DS | 1.219 | 1.279 | .557 | 4.000 |
| 22 | 1.3750 DS | 1.343 | 1.416 | .557 | 4.000 |

How to Order Proprietary Plug Caps for PC only: 10-101955-XX X

Add desired shell size
Add desired finish suffix†
"1" designates bright cadmium with clear chromate (standard for (PC)
"3" designates olive drab cadmium
"5" designates Alumilite®

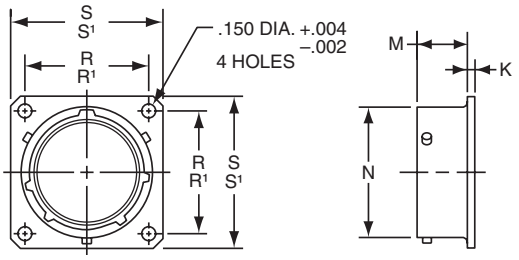
Caps for PC connectors are supplied only in proprietary versions with standard bead chains only (as shown in drawing at left).

† Standard accessory finishes are "1" bright cadmium with clear chromate for PC types, "3" olive drab cadmium for PT and MS/PT types, "5" Alumilite® for SP types. Electroless nickel plating is also available on some items; consult Amphenol, Sidney, NY

All dimensions for reference only.

# PT, SP, PC

## accessories – dummy receptacles, “O” rings, plastic dust caps



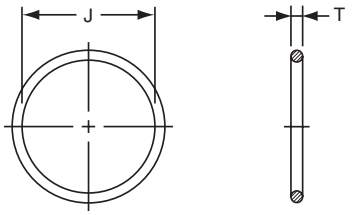

**DUMMY RECEPTACLE**
**FOR PT, SP, MS/PT CONNECTORS**
**MS3115-XXX**
**10-150921-XXX**

### DUMMY RECEPTACLES – FOR PT, SP, MS/PT

| Shell Size | K ±.010 | M +.030 –.000 | N +.001 –.005 | Proprietary Version R ±.005 | Proprietary Version S ±.010 | MS Version R¹ (TP) | MS Version S¹ (TP) |
|---|---|---|---|---|---|---|---|
| 8 | .062 | .462 | .473 | .734 | 1.047 | .594 | .828 |
| 10 | .062 | .462 | .590 | .812 | 1.125 | .719 | .954 |
| 12 | .062 | .462 | .750 | .938 | 1.250 | .812 | 1.047 |
| 14 | .062 | .462 | .875 | 1.031 | 1.344 | .906 | 1.141 |
| 16 | .062 | .462 | 1.000 | 1.125 | 1.438 | .969 | 1.234 |
| 18 | .062 | .462 | 1.125 | 1.203 | 1.516 | 1.062 | 1.328 |
| 20 | .062 | .556 | 1.250 | 1.297 | 1.672 | 1.156 | 1.453 |
| 22 | .062 | .556 | 1.375 | 1.375 | 1.750 | 1.250 | 1.578 |
| 24 | .062 | .589 | 1.500 | 1.500 | 1.875 | 1.375 | 1.703 |

How to Order Proprietary Dummy Receptacles: 10-150921-XX X
- Add desired shell size
- Add desired finish suffix†
  - “1” designates bright cadmium with clear chromate
  - “3” designates olive drab cadmium
  - “5” designates Alumilite®

How to Order MS Version Dummy Receptacles: MS3115-XX X
- Add desired shell size
- Add desired finish suffix†
  - -A designates Alumilite®
  - -L designates electroless nickel
  - -W designates olive drab cadmium




**NEOPRENE “O” RING**
**FOR PC CONNECTORS**
**10-101937-XX**

### NEOPRENE “O” RINGS – FOR PC

| Shell Size | Amphenol® Part Number | J Dia. ±.010 | T Dia. ±.003 |
|---|---|---|---|
| 6 | 10-101937-6 | .172 | .031 |
| 8 | 10-101937-8 | .328 | .031 |
| 10 | 10-101937-10 | .406 | .031 |
| 12 | 10-101937-12 | .531 | .031 |
| 14 | 10-101937-14 | .641 | .031 |
| 16 | 10-101937-16 | .781 | .031 |
| 18 | 10-101937-18 | .906 | .031 |
| 20 | 10-101937-20 | .984 | .031 |
| 22 | 10-101937-22 | 1.109 | .031 |

How to order “O” rings: Order by 10- (Proprietary) only as shown in chart above.

### PLASTIC DUST CAPS

#### FOR PT, SP

| Shell Size | Plug Plastic Dust Cap | Receptacle Plastic Dust Cap |
|---|---|---|
| 6 | 10-70500-8 | 10-70506-8S |
| 8 | 10-70506-12 | 10-70506-10 |
| 10 | 10-70500-12 | 10-70506-12 |
| 12 | 10-70506-16 | 10-70506-14 |
| 14 | 10-70506-18 | 10-70506-16 |
| 16 | 10-70506-20 | 10-70506-18 |
| 18 | 10-70506-22 | 10-70506-20 |
| 20 | 10-70506-24 | 10-79506-22 |
| 22 | 10-70524-1 | 10-70506-24 |
| 24 | 10-70506-28 | 10-70524-1 |

#### FOR PC

| Shell Size | Plug Plastic Dust Cap | Receptacle Plastic Dust Cap |
|---|---|---|
| 6 | 10-70576-6 | 10-70576-8 |
| 8 | 10-70576-8 | 10-70500-8 |
| 10 | 10-70500-8 | 10-70500-10 |
| 12 | 10-70500-10 | 10-70500-12 |
| 14 | 10-70500-12 | 10-70500-14 |
| 16 | 10-70500-14 | 10-70500-16 |
| 18 | 10-70576-18 | 10-70500-18 |
| 20 | 10-70576-20 | 10-70500-20 |
| 22 | 10-70576-22 | 10-70500-22 |

How to Order Plastic Dust Caps:

To the basic order number add the dust cap size to match connector plug or receptacle shell size, as shown in the tables above.
Example: 10-70506-12 would be the correct order number for a plastic dust cap for a PT00 receptacle, shell size 10.

All dimensions for reference only.

# Application Tools
## “SE”, “CE”

The following data includes information pertaining to the application tools for crimping, inserting and removing size 20, 16, and 12 contacts incorporated in Amphenol® Miniature Cylindrical Connectors.

All crimping tools included are the “full cycling” type, and when used as specified by the manufacturer, provide reliable crimped wire to contact termination.

Tool frames and turret heads are available from approved tool manufacturers; consult Amphenol, Sidney, NY for listings.

Assembly instructions are available online at www.amphenol-aerospace.com
See the following:
L-786 for SE assembly instructions
L-658 for CE assembly instructions
L-555 for solder type instructions

### CRIMPING TOOLS

**FOR PT-SE, SP-SE, PC-SE, MS/PT-SE (MIL-C-26482, Series 1) Connectors**

| Contact Size | MS Tool Part Number | |
|---|---|---|
| | Tool Frame | Turret Head |
| 20 | M22520/1-01 | M22520/1-02 |
| 16 | M22520/1-01 | M22520/1-02 |
| 12 | M22520/1-01 | M22520/1-02 |

**FOR PT-CE, SP-CE, PC-CE (Proprietary) Connectors**

| Contact Size | MS Tool Part Number | |
|---|---|---|
| | Tool Frame | Turret Head |
| 20 | M22520/1-01* | * |
| 16 | M22520/1-01* | * |

* Use Daniels TH254 or equivalent

### INSERTION/REMOVAL TOOLS

**FOR PT-SE, SP-SE, PC-SE, MS/PT-SE (MIL-C-26482, Series 1) Connectors**

| Contact Size | Insertion Tool | | | Removal Tool | |
|---|---|---|---|---|---|
| | Amphenol® Contact Insertion Pliers | Amphenol® Contact Insertion Tool | MS Part Number Contact Insertion Tool | Amphenol® Contact Removal Tool | MS Part Number Contact Removal Tool |
| 20 | 11-8107-20 | 11-7401-20 | M81969/17-03 | 11-7880-20 | M81969/19-07 |
| 16 | 11-8107-16 | 11-7401-16 | M81969/17-04 | 11-7880-16 | M81969/19-08 |
| 12 | – | – | M81969/17-05 | – | M81969/19-09 |

**FOR PT-CE, SP-CE, PC-CE (Proprietary) Connectors**

| Contact Size | Insertion/Removal Tool | |
|---|---|---|
| | Contact Insertion Pliers | Contact Removal Tool Kit |
| 20 | 11-6782 | 11-6900 |
| 16 | 11-6781 | 11-6900 |

# Contacts - Power and Thermocouple Crimp
## for miniature cylindrical connectors

The following tables provide part number information for crimp contacts used in Amphenol® Miniature Cylindrical Connectors. For additional information, consult Amphenol, Sidney, NY.

**CRIMP CONTACTS for MIL-C-26482, Series 1 (PT-SE, SP-SE) Connectors**

| Contact Size | Accommodates Wire Size | Pins | | Sockets | |
|---|---|---|---|---|---|
| | | MS Number | Amphenol® Proprietary Number | MS Number | Amphenol® Proprietary Number |
| 20 | 20, 22 & 24 AWG | M39029/31-240 | 10-314980-20P | M39029/32-259 | LP-597820-355 |
| 16 | 16, 18 & 20 AWG | M39029/31-228 | 10-314980-16P | M39029/32-247 | 10-257982-16F |
| 12 | 12 & 14 AWG | M39029/31-235 | 10-807100-125 | M39029/32-254 | 10-807103-125 |
| 20-16 | 16 AWG | | 10-330930-20F | | 10-807155-205 |
| 16-20 | 20 AWG | | 10-330932-16F | | 10-330933-16F |
| 12-10 | 12 AWG | | 10-330938-12F | | 10-330939-12F |

**CRIMP CONTACTS for PT-CE (Proprietary) Connectors**

| Contact Size | Accommodates Wire Size | Pins | Sockets |
|---|---|---|---|
| | | Amphenol® Proprietary Number | Amphenol® Proprietary Number |
| 20 | 20, 22 & 24 AWG | 10-189000-20F | 10-597817-351 |
| 20-16 | 16 AWG | 10-195962-20F | 10-195963-20F |
| 16 | 16, 18 & 20 AWG | 10-189004-16F | 10-189006-16F |

**THERMOCOUPLE CONTACTS for Miniature Connectors**

| Size | Material | Pins Proprietary Part Number | | Sockets Proprietary Part Number | |
|---|---|---|---|---|---|
| | | CE | SE | CE | SE |
| 16 Crimp Termination | Chromel | 10-252900-21P | 10-330940-21P | 10-252900-21S | 10-330940-21S |
| | Alumel | 10-252900-22P | 10-330940-22P | 10-252900-22S | 10-330940-22S |
| | Iron | | | | |
| | Constantan | | | | |
| 20 Crimp Termination | Chromel | 10-252900-1P | 10-330940-1P | 10-252900-1S | 10-330940-1S |
| | Alumel | 10-252900-2P | 10-330940-2P | 10-252900-2S | 10-330940-2S |
| | Iron | 10-252900-3P | 10-330940-3P | 10-252900-3S | 10-330940-3S |
| | Constantan | 10-252900-4P | 10-330940-4P | 10-252900-4S | 10-330940-4S |
| 20 Solder Termination†† | Chromel | 10-314910-1P | | 10-314910-1S | |
| | Alumel | 10-314910-2P | | 10-314910-2S | |
| | Iron | 10-314910-3P | | 10-314910-3S | |
| | Constantan | 10-314910-4P | | 10-314910-4S | |

†† Listed are insertable/removable contacts; however, it is intended that contacts be terminated with solder. For additional thermocouple contact information, consult Amphenol, Sidney, NY.

See L-776 for thermocouple contact termination instructions. These are online at www.amphenol-aerospace.com

For PCB contacts for miniature connectors, see page 20.

# Coaxial Contacts
## for miniature cylindrical connectors

Amphenol® Miniature Connectors can incorporate shielded coax contacts. The Miniature family is built around MIL-C-26482 specifications, with Mil-approved and proprietary styles offered. Normal operating voltage for Miniature cylindricals with power only contacts is up to 1,000 VAC (RMS) at sea level.

**Miniature Cylindricals offer these features for contact termination flexibility:**

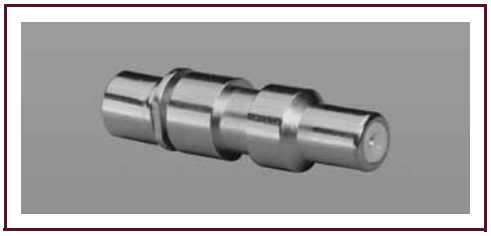
- Several insert arrangements that can incorporate:
  - Size 8 & 12 Crimp Coax contacts for Crimp type
  - Size 8 & 12 Solder Coax contacts for Solder type
- Wide selection of connector shell styles and sizes
- Standard power contact options within the various connector styles include: solder type, crimp front release, crimp rear release
- Coax contacts are designed to the same high performance standards as power contacts. Coax and power contacts may be intermixed with no degradation of connector reliability.
- No mis-mating or cross-plugging with insert rotation and keyway polarization.

**GENERAL ORDERING INFORMATION**

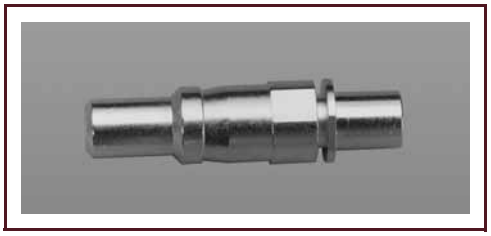
Amphenol Miniature Cylindricals are normally supplied with a full complement of power contacts, separately packaged. Coax contacts are ordered by part number as referenced in the part number charts on the following pages of this catalog, and are substituted for the power contacts at the time of the cable or equipment assembly. If the application is for coax only, the connector may be ordered *less contacts* and no power contacts will be supplied.
Installation instructions for the coax contacts for Miniature Connectors are provided in Amphenol documents as follows: L-633 for solder type; L-613 for SE type; L-660 for CE type.

HOW TO ORDER:

A. Select the coax contacts designed for the cable being used from the applicable charts in this catalog for each Miniature type (solder, SE or CE).
B. Select a connector insert from those shown on pages60-63 which will accommodate the quantity and size of coaxial contacts needed plus any power contacts required. Note: Size 8S and 12S contacts are used with connector inserts through shell size 18 only. For larger connector shell sizes, use size 8L contacts.
C. Determine the Miniature Cylindrical type, shell style, finish, service class and insert rotation required for your application.
D. Consult Amphenol, Sidney NY with the pertinent cable, contact, insert arrangement and connector style choices for complete connector part number.



**Solder Coax Contact**
**for use in Miniature Solder Type Connectors**



**Pin Crimp Coax Contact**
**for use in Miniature Crimp SE Type Connectors**

**Socket Crimp Coax Contact**
**for use in Miniature Crimp SE Type Connectors**

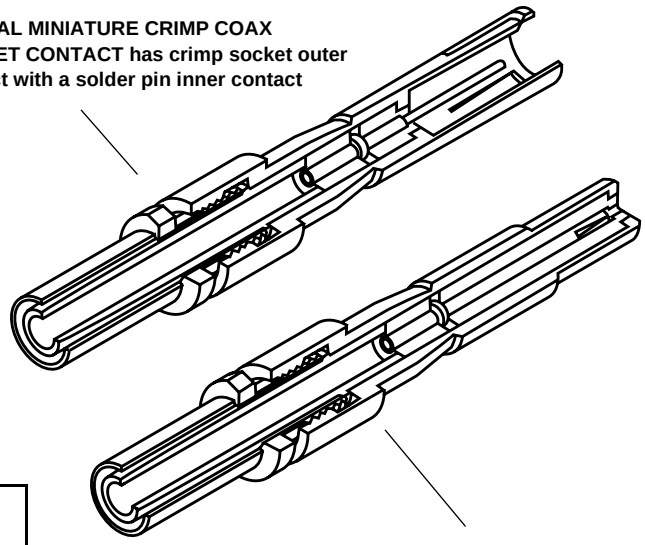
# Coaxial Contacts
## for miniature cylindrical connectors, cont.

**Amphenol® Coaxial Contacts** designed for use in Miniature Cylindrical Connectors offer the same durability advantages and design benefits for reliable interconnection as the Amphenol coax contacts used in high performance D38999 connectors. A variety of military and commercial shielded cables are accommodated within the miniature cylindrical series. Amphenol supplies coax contacts for solder, crimp SE and crimp CE connector styles.

Other features of the coax for miniature cylindricals include:

- Miniature coax design has an outside nut within the assembly for fast, reliable assembly of contact to cable.
- All types feature solder style inner contacts and crimp style outer contacts for reliable cable termination
- Miniature coax crimp type contacts are designed for use in Miniature crimp series connectors
- Miniature coax solder type contacts are designed for use in Miniature solder series connectors. These come pre-installed into the solder connector.

**TYPICAL MINIATURE CRIMP COAX SOCKET CONTACT has crimp socket outer contact with a solder pin inner contact**



**TYPICAL MINIATURE CRIMP COAX PIN CONTACT has crimp pin outer contact with a solder socket inner contact**

**TYPICAL ELECTRICAL PERFORMANCE**
**Size 8 and 12 Coax Contacts**

Contact Resistance:
Center @ 1 Amp, 170 millivolts max. voltage drop @ 25°C
Outer @ 12 Amps, 150 millivolts max. voltage drop @ 25°C

Dielectric Withstanding Voltage:
Size 8: 1,300 VAC Rms @ sea level
Size 12: 1,000 VAC Rms @ sea level
Size 8 & 12: 250 VAC Rms @ 50,000 ft.

Insulation Resistance
5,000 megohms minimum @ 25°C

Typical VSWR for size 8 & 12 PT-SE Types II & III only:
1.2 + .12F (GHz) up to 10 GHz

**EXPLANATION OF TYPE CLASSIFICATIONS:**
PT-SE Type I is moisture seal design with internal O-ring.

PT-SE Type II is 50 ohm impedance matched version. Contacts terminated to other than 50 ohm cables are therefore not matched.

PT-SE Type III is 50 ohm contact, non-serviceable after assembly

Solder and CE Types are non-impedance matched contacts.

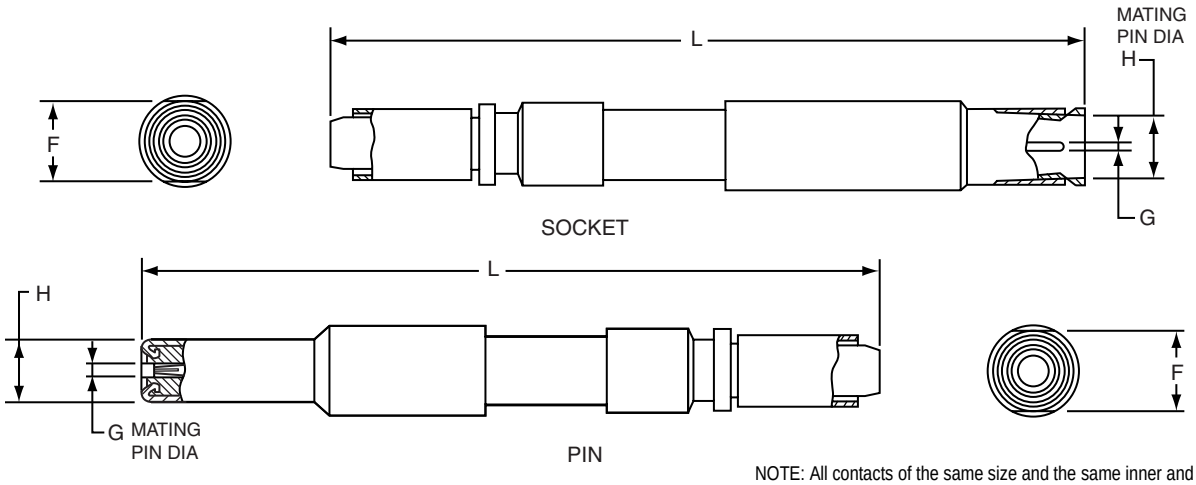
**CONTACT FINISHES:**

| Suffix | Finish |
|---|---|
| 1 | 0.00020 min. silver over copper flash |
| 2 | 0.00005 min. gold (Knoop hardness 130-200) over silver |
| 3 | 0.00010 min. gold (Knoop hardness 130-200) over silver |
| 4 | 0.00010 min. gold (Knoop hardness 130-200) over copper |
| 5 | 0.00005 min. gold (Knoop hardness 130-200) over nickel |
| E | 0.00005 min. gold (Knoop hardness 90 max.) over copper |
| F | 0.00005 min. gold (Knoop hardness 130-200) over copper |
| H | 0.00010 min. gold (Knoop hardness 130-200) over copper |

# Coaxial Contacts

## for miniature cylindrical connectors, cont.

### solder (MIL-C-26482 Series 1 type) - application data




NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

**SOLDER COAX CONTACTS**
**For use in Miniature Solder Type Connectors: PT, SP, MS/PT and PC Styles**

| Cable | Contact Part Number | | Contact Size | Dimensional Data (See Drawings above) | | | | | Crimp Ferrule Tools | | | Retainer Nut Wrench |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | G Dia. | H Dia. ±0.001 | F Across Flats ±0.004 | L Length Ref. | | | | | |
| | Pin | Socket | | | | | Pin | Socket | MIL-T-22910/7-1 Tool Use with Die Part Number | MIL-C-22520/5-01 Tool Use with Die Part Number | MIL-C-22520/10-01 Tool Use with Die Part Number | |
| RG-58C/U, RG-141A/U, RG-303/U | 21-33020-2 | 21-33019-2 | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | M22910/7-15 (*B*) | M22520/5-05 (*B*) M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 |
| RG-59B/U, RG-62A/U, RG-62B/U, RG-210/U | 21-33020-1 | 21-33019-1 | 8L | 0.040 ± 0.001 | 0.219 | 0.280 | 1.176 | 1.177 | M22910/7-18 (*B*) | M22520/5-45 (*B*) | | 11-8676-3 |
| | 21-33020-3 | 21-33019-3 | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | | | | |
| RG-142B/U, Times MI51115 | 21-33020-7* | 21-33019-7* | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | M22910/7-16 (*B*) | M22520/5-43 (*B*) | | 11-8676-2 |
| RG-161/U, RG-174A/U, RG-179B/U, RG-187A/U, RG-188A/U, RG-316/U | 21-33020-32* | 21-33019-32* | 12S | 0.0300 ± 0.0005 | 0.140 | 0.172 | 1.092 | 1.093 | M22910/7-12 (*B*) | M22520/5-03 (*A*) M22520/5-08 (*A*) M22520/5-35 (*B*) | M22520/10-05 (*A*) | 11-8676-1 |
| RG-178B/U | 21-33020-4 | 21-33019-4* | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | M22910/7-11 (*B*) | M22520/5-03 (*B*) M22520/5-33 (*B*) | M22520/10-05 (*B*) | 11-8676-2 |
| RG-196A/U | 21-33020-31† | 21-33061-31*† | 12S | 0.0300 ± 0.0005 | 0.140 | 0.172 | 1.092 | 1.093 | M22910/7-11 (*B*) | M22520/5-03 (*B*) M22520/5-33 (*B*) | M22520/10-05 (*B*) | 11-8676-1 |
| RG-180B/U, RG-195A/U, Raychem 5022D1312-9 | 21-33020-5* | 21-33019-5* | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | M22910/7-15 (*B*) | M22520/5-05 (*B*) M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 |
| Raychem 5021D1331-9 | 21-33020-6* | 21-33019-6* | 8S | 0.040 ± 0.001 | 0.219 | 0.280 | 1.114 | 1.115 | M22910/7-15 (*B*) | M22520/5-05 (*B*) M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 |
| Thermatics 2929-29 | 21-33020-33 | 21-33061-33 | 12S | 0.0200 ± 0.0005 | 0.140 | 0.172 | 1.092 | 1.093 | M22910/7-13 (*B*) | M22520/5-37 (*B*) | | 11-8676-1 |

NOTE: Contacts can be ordered by part numbers given in chart

NOTE: Size 8S and 12S contacts are used with connector inserts through shell size 18 only. For larger connector shell sizes, use size 8L contacts.

CONTACT FINISH: For all contacts in this series feature 0.000050 minimum gold (Knoop hardness 130-200).

* Consult Amphenol, Sidney NY for availability

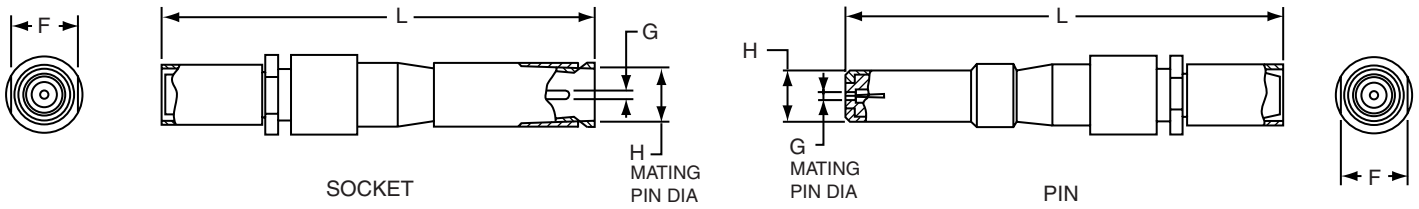
CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

† 21-33020-31 and 21-33061-31 only mate with each other

# Coaxial Contacts

## for miniature cylindrical connectors, cont.

### crimp SE (MIL-C-26482 Series 1 type) - application data




NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

**SE CRIMP COAX CONTACTS**
**For use in Miniature Crimp Type Connectors: PT-SE, SP-SE, MS/PT-SE and PC-SE Styles**

| Cable | Contact Part Number | | Contact Size | Type (See Pg. 23) | Finish on Mating Parts (See Pg. 23) | Dimensional Data (See Drawings above) | | | | | Crimp Ferrule Tools | | | Retainer Nut Wrench | Installation Tools | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | G Dia. | H Dia. ±0.001 | F Across Flats ±0.004 | L Length Ref. | | MIL-T-22910/7-1 Tool Use with Die Part Number | MIL-C-22520/5-01 Tool Use with Die Part Number | MIL-C-22520/10-0 Tool Use with Die Part Number | | Insertion | Removal |
| | Pin | Socket | | | | | | | Pin | Socket | | | | | | |
| RG-55B/U, RG-142A/U, RG-142B/U, RG-223/U | 21-33012-21<br>21-33012-25 | 21-33011-21<br>21-33011-25 | 8<br>8 | I<br>II | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-17 (*B*) | M22520/5-05 (*A*)<br>M22520/5-19 (*B*) | M22520/10-07 (*A*) | 11-8676-2 | 11-8369-5<br>11-8660-5 | 11-7880-8<br>11-8154-1 |
| | 21-33038-21<br>21-33038-25* | 21-33037-21<br>21-33037-25 | 8<br>8 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-21( )*<br>21-33138-25( )* | 21-33137-21( )*<br>21-33137-25( )* | 8<br>8 | I<br>II | ** | | | | | | | | | | | |
| RG-58C/U, RG-141A/U, RG-303/U | 21-33012-22<br>21-33012-26 | 21-33011-22<br>21-33011-26 | 8<br>8 | I<br>II | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-15 (*B*) | M22520/5-05 (*B*)<br>M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-22*<br>21-33038-26* | 21-33037-22<br>21-33037-26* | 8<br>8 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-22( )*<br>21-33138-26( )* | 21-33137-22( )<br>21-33137-26( )* | 8<br>8 | I<br>II | ** | | | | | | | | | | | |
| RG-59B/U, RG-62A/U, RG-62B/U, RG-210/U | 21-33012-36 | 21-33011-36 | 8 | II | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-18 (*B*) | M22520/5-45 (*B*) | | 11-8676-3 | 11-8369-5<br>11-8660-5 | 11-7880-8<br>11-8154-1 |
| | 21-33038-36* | 21-33037-36 | 8 | II | 4 | | | | | | | | | | | |
| | 21-33138-36( )* | 21-33137-36( ) | 8 | II | ** | | | | | | | | | | | |
| RG-140/U, RG-302/U | 21-33012-37* | 21-33011-37* | 8 | II | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-17 (*B*) | M22520/5-05 (*A*)<br>M22520/5-19 (*B*) | M22520/10-07 (*A*) | 11-8676-2 | 11-8369-5<br>11-8660-5 | 11-7880-8<br>11-8154-1 |
| | 21-33038-37* | 21-33037-37* | 8 | II | 4 | | | | | | | | | | | |
| | 21-33138-37( )* | 21-33137-37( )* | 8 | II | ** | | | | | | | | | | | |
| RG-161/U, RG-174A/U, RG-179B/U, RG-187A/U, RG-188A/U, RG-316/U | 21-33012-34<br>21-33012-30 | 21-33011-34<br>21-33011-30 | 8<br>8 | I<br>II | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-12 (*B*) | M22520/5-03 (*A*)<br>M22520/5-08 (*A*)<br>M22520/5-35 (*B*) | M22520/10-05 (*A*) | 11-8676-2 | 11-8369-2<br>11-8660-2 | 11-7880-8<br>11-8154-1 |
| | 21-33038-34<br>21-33038-30 | 21-33037-34<br>21-33037-30 | 8<br>8 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-34( )*<br>21-33138-30( )* | 21-33137-34( )*<br>21-33137-30( )* | 8<br>8 | I<br>II | ** | | | | | | | | | | | |
| | 21-33012-1<br>21-33012-4 | 21-33011-1<br>21-33011-4 | 12<br>12 | I<br>II | 2 | 0.0200 ±0.0005 | 0.128 | 0.172 | 1.092 | 1.072 | | | | 11-8676-1 | | 11-7880-12<br>11-8154-2 |
| | 21-33038-1*<br>21-33038-4 | 21-33037-1*<br>21-33037-4* | 12<br>12 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-1( )*<br>21-33138-4( )* | 21-33137-1( )<br>21-33137-4( )* | 12<br>12 | I<br>II | ** | | | | | | | | | | | |
| RG-178B/U, RG-196A/U | 21-33012-35 | 21-33011-35 | 8 | I | 2 | 0.0355 ±0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-11 (*B*) | M22520/5-03 (*B*)<br>M22520/5-33 (*B*) | M22520/10-05 (*A*) | 11-8676-2 | 11-8369-1<br>11-8660-1 | 11-7880-8<br>11-8154-1 |
| | 21-33038-35 | 21-33037-35 | 8 | I | 4 | | | | | | | | | | | |
| | 21-33138-35( )* | 21-33137-35( )* | 8 | I | ** | | | | | | | | | | | |
| | 21-33012-3*<br>21-33012-5 | 21-33011-3*<br>21-33011-5 | 12<br>12 | I<br>II | 2 | 0.0200 ± 0.0005 | 0.128 | 0.172 | 1.092 | 1.072 | | | | 11-8676-1 | | 11-7880-12<br>11-8154-2 |
| | 21-33038-3*<br>21-33038-5 | 21-33037-3*<br>21-33037-5* | 12<br>12 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-3( )*<br>21-33138-5( )* | 21-33137-3( )*<br>21-33137-5( )* | 12<br>12 | I<br>II | ** | | | | | | | | | | | |

NOTE: Contacts can be ordered by part numbers given in chart

** See finish options for SE crimp Miniature contacts listed on page 70. Replace the parenthesis of the contact part number with the finish suffix number. However, you should consult Amphenol, Sidney, NY regarding the availability of all finish choices for each part.

* Consult Amphenol, Sidney NY for availability

CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

# Coaxial Contacts

## for miniature cylindrical connectors, cont.

### crimp SE (MIL-C-26482 Series 1 type) - application data, cont.

NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

**SE CRIMP COAX CONTACTS**
**For use in Miniature Crimp Type Connectors: PT-SE, SP-SE, MS/PT-SE and PC-SE Styles**

| Cable | Contact Part Number | | Contact Size | Type (See Pg. 23) | Finish on Mating Parts (See Pg. 23) | Dimensional Data (See Drawings pg. 25) | | | | | Crimp Ferrule Tools | | | Retainer Nut Wrench | Installation Tools | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | G Dia. | H Dia. ±0.001 | F Across Flats ±0.004 | L Length Ref. | | | | | | Insertion | Removal |
| | Pin | Socket | | | | | | | Pin | Socket | MIL-T-22910/7-1 Tool Use with Die Part Number | MIL-C-22520/5-01 Tool Use with Die Part Number | MIL-C-22520/10-0 Tool Use with Die Part Number | | | |
| RG-180B/U, RG-195A/U | 21-33012-24<br>21-33012-46* | 21-33011-24<br>21-33011-46* | 8<br>8 | I<br>II | 2 | 0.0355 ± 0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22520/7-15 (*B*) | M22520/5-05 (*B*)<br>M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-24<br>21-33038-46* | 21-33037-24<br>21-33037-46* | 8<br>8 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-24( )*<br>21-33138-46( )* | 21-33137-24( )*<br>21-33137-46( )* | 8<br>8 | I<br>II | ** | | | | | | | | | | | |
| Raychem 9527E1118, RG-180B/U, RG-195A/U | 21-33106-40( ) | 21-33105-40( ) | 12 | III | ** | 0.0200 ± 0.0005 | 0.128 | | 0.899 | 0.879 | Daniels GS200 Tool with G2P330 or M22520/31-01 Tool with Positioner M22520/31-02 | | | | 11-8674-12 | 11-7880-12<br>11-8154-2 |
| RG-188 or RG-316 Double Braid | 21-33012-6*<br>21-33012-7* | 21-33011-6*<br>21-33011-7* | 12<br>12 | I<br>II | 2 | 0.0200 ± 0.0005 | 0.128 | 0.172 | 1.092 | 1.072 | M22910/7-13 (*B*) | M22520/5-37 (*B*) | | 11-8676-1 | 11-8369-2<br>11-8660-2 | 11-7880-12<br>11-8154-2 |
| | 21-33038-6*<br>21-33038-7* | 21-33037-6*<br>21-33037-7* | 12<br>12 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-6( )*<br>21-33138-7( )* | 21-33137-6( )*<br>21-33137-7( )* | 12<br>12 | I<br>II | ** | | | | | | | | | | | |
| Thermax 50C-25A-DS-1 | 21-33012-44 | 21-33011-44 | 8 | II | 2 | 0.0355 ± 0.0010 | 0.128 | 0.280 | 1.156 | 1.144 | | | | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-44* | 21-33037-44* | 8 | II | 4 | | | | | | | | | | | |
| | 21-33138-44( )* | 21-33137-44( )* | 8 | II | ** | | | | | | | | | | | |
| RG-195 Double Braid | 21-33012-28 | 21-33011-28 | 8 | I | 2 | 0.0355 ± 0.0010 | 0.128 | 0.280 | 1.156 | 1.144 | M22910/7-16 (*B*) | M22520/5-43 (*B*) | | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-28* | 21-33037-28* | 8 | I | 4 | | | | | | | | | | | |
| | 21-33138-28( )* | 21-33137-28( )* | 8 | I | ** | | | | | | | | | | | |
| RG-122/U, Raychem 5022E5111 | 21-33012-23<br>21-33012-27 | 21-33011-23<br>21-33011-27 | 8<br>8 | I<br>II | 2 | 0.0355 ± 0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22520/7-15 (*B*) | M22520/5-05 (*B*)<br>M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-23*<br>21-33038-27 | 21-33037-23*<br>21-33037-27 | 8<br>8 | I<br>II | 4 | | | | | | | | | | | |
| | 21-33138-23( )*<br>21-33138-27( )* | 21-33137-23( )*<br>21-33137-27( )* | 8<br>8 | I<br>II | ** | | | | | | | | | | | |
| Raychem 9530D5314 | 21-33012-31 | 21-33011-31 | 8 | I | 2 | | | | | | | | | | | |
| | 21-33038-31 | 21-33037-31 | 8 | I | 4 | | | | | | | | | | | |
| | 21-33138-31( )* | 21-33137-31( )* | 8 | I | ** | | | | | | | | | | | |
| Raychem 9527A1317 | 21-33012-39 | 21-33011-39 | 8 | II | 2 | 0.0355 ± 0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-15 (*B*) | M22520/5-05 (*B*)<br>M22520/5-41 (*B*) | M22520/10-07 (*B*) | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7880-8<br>11-8154-1 |
| | 21-33038-39* | 21-33037-39* | 8 | II | 4 | | | | | | | | | | | |
| | 21-33138-39( )* | 21-33137-39( )* | 8 | II | ** | | | | | | | | | | | |
| Raychem 7527A1318 | 21-33012-40* | 21-33011-40 | 8 | II | 2 | 0.0355 ± 0.0010 | 0.218 | 0.280 | 1.156 | 1.144 | M22910/7-12 (*B*) | M22520/5-03 (*A*)<br>M22520/5-08 (*A*)<br>M22520/5-35 (*B*) | M22520/10-05 (*A*) | 11-8676-2 | 11-8369-2<br>11-8660-2 | 11-7880-8<br>11-8154-1 |
| | 21-33038-40* | 21-33037-40* | 8 | II | 4 | | | | | | | | | | | |
| | 21-33138-40* | 21-33137-40( )* | 8 | II | ** | | | | | | | | | | | |
| Westrex 199-49-1, Tensolite 30850/87T-1 | 21-33012-43 | 21-33011-43 | 12 | II | 2 | 0.0200 ± 0.0005 | 0.128 | 0.172 | 1.092 | 1.072 | M22910/7-11 (*B*) | M22520/5-03 (*B*)<br>M22520/5-33 (*B*) | M22520/10-05 (*B*) | 11-8676-1 | 11-8369-1<br>11-8660-1 | 11-7880-12<br>11-8154-2 |
| | 21-33038-43 | 21-33037-43 | 12 | II | 4 | | | | | | | | | | | |
| | 21-33138-43( )* | 21-33137-43( )* | 12 | II | ** | | | | | | | | | | | |

NOTE: Contacts can be ordered by part numbers given in chart

** See finish options for SE crimp Miniature contacts listed on page 70. Replace the parenthesis of the contact part number with the finish suffix number. However, you should consult Amphenol, Sidney, NY regarding the availability of all finish choices for each part number.

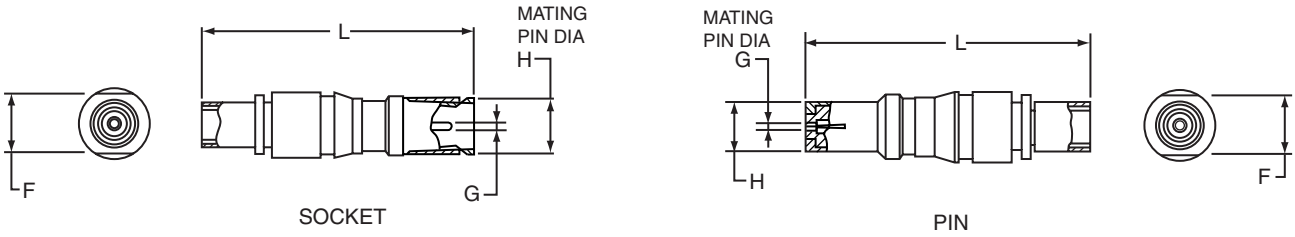
* Consult Amphenol, Sidney NY for availability

CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

# Coaxial Contacts

## for miniature cylindrical connectors, cont.

### crimp CE (MIL-C-26482 Series 1 type) - application data




NOTE: All contacts of the same size and the same inner and outer contact diameters (G & H) will mate with each other.

**CE CRIMP COAX CONTACTS**
**For use in Miniature Crimp Type Connectors: PT-CE, SP-CE and PC-CE Styles**

| Cable | Contact Part Number | | Contact Size | Dimensional Data (See Drawings above) | | | | | Crimp Ferrule Tools | | | Retainer Nut Wrench | Installation Tools | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | G Dia. ± 0.001 | H Dia. ±0.001 | F Across Flats ±0.004 | L Length Ref. | | | | | | | |
| | Pin | Socket | | | | | Pin | Socket | MIL-T-22910/7-1 Tool Use with Die Part Number | MIL-C-22520/5-01 Tool Use with Die Part Number | MIL-C-22520/10-01 Tool Use with Die Part Number | | Insertion | Removal |
| RG-58C/U, RG-141A/U, RG-303/U | 21-33024-1 | 21-33023-1 | 8 | 0.040 | 0.219 | 0.280 | 1.239 | 1.285 | M22910/7-15 *(B)* | M22520/5-01 *(B)*<br>M22520/5-41 *(B)* | M22520/10-07 *(B)* | 11-8676-2 | 11-8369-4<br>11-8660-4 | 11-7310 |
| RG-178B/U, RG-196A/U | 21-33024-2 | 21-33023-2 | 8 | 0.040 | 0.219 | 0.280 | 1.039 | 1.085 | M22910/7-11 *(B)* | M22520/5-03 *(B)*<br>M22520/5-33 *(B)* | M22520/10-05 *(B)* | 11-8676-2 | 11-8369-1<br>11-8660-1 | 11-7310 |

NOTE: Contacts can be ordered by part numbers given in chart

* Consult Amphenol, Sidney NY for availability

CONTACT FINISH: for all contacts in this series feature 0.000050 minimum gold (Knoop hardness 130-200).

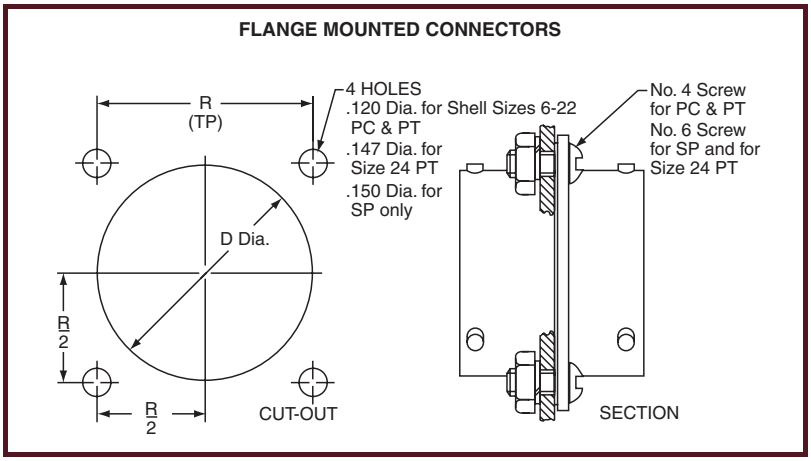
CRIMPING TOOLS: Italicized letters in parenthesis that follow positioner part numbers indicate applicable die closure. Commercial equivalents with the same die closure dimension may be used.

# Mounting Recommendations
## for miniature cylindrical connectors

### FLANGE MOUNTED CONNECTORS

All flange mounting PC and PT connectors use standard MS mounting dimensions. They cannot be back panel mounted due to coupling clearance. The PTB (thru-bulkhead) type connector must also be back panel mounted on one side. Flange gaskets are available for both series, see page 64.

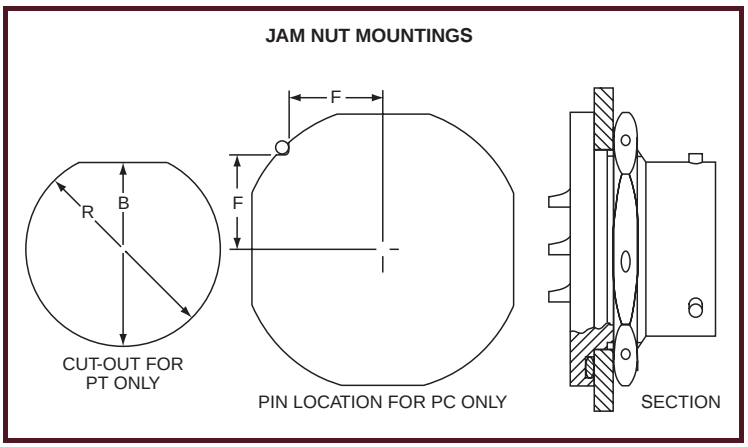
| Shell Size | R (TP) | | D Dia. | |
|---|---|---|---|---|
| | PC & PT | SP | PC & PT | SP |
| 6 | .469 | .641 | .323 | .439 |
| 8 | .594 | .734 | .449 | .563 |
| 10 | .719 | .812 | .573 | .680 |
| 12 | .812 | .938 | .699 | .859 |
| 14 | .906 | 1.031 | .823 | .984 |
| 16 | .969 | 1.125 | .949 | 1.108 |
| 18 | 1.062 | 1.203 | 1.073 | 1.233 |
| 20 | 1.156 | 1.297 | 1.199 | 1.358 |
| 22 | 1.250 | 1.375 | 1.323 | 1.483 |
| 24 | 1.375 | – | 1.449 | – |




### JAM NUT MOUNTINGS

The jam nut design has become very popular because it allows bench wiring of harness assemblies. The labor saving often offsets the added cost of the jam nut receptacle which is due to the self contained “O” ring and the extra nut. The PC series mounts in a round hole and can be pinned to prevent rotation. The PT series mounts in a “D” mounting hole and does not require pinning.

| Shell Size | R +.010 −.000 | B +.000 −.010 | F ±.010 | P Panel Thickness | |
|---|---|---|---|---|---|
| | | | | Min. | Max. |
| 6 | .447 | .420 | .286 | .062 | .125 |
| 8 | .572 | .542 | .331 | .062 | .125 |
| 10 | .697 | .669 | .375 | .062 | .125 |
| 12 | .884 | .830 | .442 | .062 | .125 |
| 14 | 1.007 | .955 | .486 | .062 | .125 |
| 16 | 1.134 | 1.084 | .530 | .062 | .125 |
| 18 | 1.259 | 1.208 | .573 | .062 | .125 |
| 20 | 1.384 | 1.333 | .641 | .062 | .250 |
| 22 | 1.507 | 1.459 | .685 | .062 | .250 |
| 24 | 1.634 | 1.575 | – | .062 | .250 |

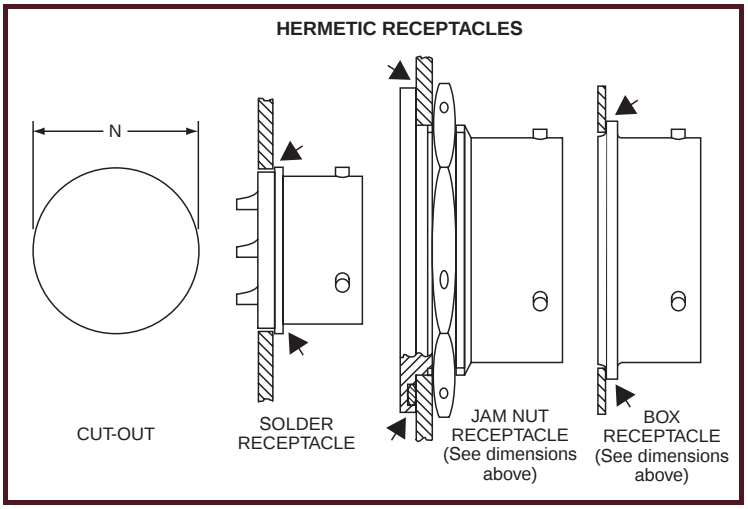



### HERMETIC RECEPTACLE MOUNTINGS

This series must be mounted in such a way as to preserve the hermetic seal provided by the glass insert. Mounting data for box and jam nut receptacles is given above. Cut-out required for solder mounting receptacles (N) is given below.

| Shell Size | N Max. |
|---|---|
| 6 | .458 |
| 8 | .582 |
| 10 | .692 |
| 12 | .801 |
| 14 | .926 |
| 16 | 1.051 |
| 18 | 1.176 |
| 20 | 1.395 |
| 22 | 1.375 |

The finish of each of these hermetic receptacles is fused electro-deposited tin for easy solderability, and protected by a special lacquer for optimum shelf life. The lacquer will not interfere with any soldering operation.
Low temperature solder should be used and the addition of a solder fillet at arrow points on drawing at right is recommended. Care must be taken that the operating temperature of the final assembly does not rise above the melt-



# Other Amphenol Miniature Cylindrical Connectors

**MIL-C-26482, Series 2**

MIL-C-26482, Series 2 connectors are provided with the Amphenol®/Matrix® family of miniature cylindricals These are bayonet coupling type, and they feature crimp contacts that are rear insertable and rear releasable.

There are six shell styles available and 34 insert arrangements. Military part numbers of the Matrix MIL-C-26482 family include the following:

MS3470 wall mounting receptacle with narrow flange
MS3472 wall mounting receptacle with wide flange
MS3471 cable connecting receptacle
MS3474 jam nut receptacle
MS3476 straight plug
MS3475 plug with RFI grounding fingers

See catalog 12-071 for more information.

**Geophysical Miniature Cylindricals**

Designed for the Geophysical industry's rugged environments, the Amphenol® Geophysical Series connector has custom features that provide reliability in extreme temperature and moisture conditions.

The unique shell design provides stronger shells along with an anodized (nonconductive) finish for greater salt, corrosion and abrasion resistance. Coupling nuts are manufactured with round detent holes and are sold separately for greater customer flexibility. See product data sheet #146.

**RJ Field Bayonet MIL-C-26482 Cylindricals**

Amphenol PCD division provides MIL-C-26482 bayonet coupling cylindrical connectors with an RJ45 Ethernet interface*. These are designed for use in all levels of harsh environments from industrial to mil-aero applications providing IP67 protection from dust, fluids, vibration, shock and traction. The Amphenol® RJ Field allows the use of Ethernet Class D/Cat 5 and Cat 5e connections for 10 BaseT, 100 Base TX, or 1000 BaseT networks. It works with any standard RJ45 cordset with no extra tooling. It also offers reinforced EMI protection.

For more information go online to www.rjfield.com or ask for the Field Series brochure.

* Other Field Series products are available through Amphenol PCD. These include RJF TV within MIL-DTL-38999 Series III threaded coupling connectors, and RJF 544 within ECTA push-pull plastic shell coupling.

**MIL-C-26482**
**Series 2**

**Geophysical**
**Miniature Cylindricals**

**RJ Field Bayonet**
**MIL-C-26482 Cylindricals**

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

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ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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