

# MIL-DTL-38999, Series II JT

## MIL-DTL-38999, Series I LJT



**MIL-DTL-38999  
Series I LJT**

### Components

Shell components are impact extruded or machined bar stock aluminum. Standard plating on shell components is cadmium over nickel. Many finishes are optional (see "Specifications" page 19). Hermetic seal receptacles are available in carbon steel or stainless steel shells. Dependable 5 key/keyway polarization with bayonet lock coupling is incorporated to aid and assure positive mating.

Insert material is a rigid dielectric with excellent electrical characteristics, providing durable protection for molded-in solder type contacts. Contrasting letter or number designations are used on insert faces.

A fluorinated silicone interfacial seal wafer is featured on the mating face of "crimp type pin" inserts. This assures complete electrical isolation of pins when connector halves are mated. In addition, a main joint gasket is installed in the receptacle for moisture sealing between connector halves. Both features are also available for hermetic receptacles.

### Contacts

Maximum design flexibility is built into the JT/LJT Series, with a minimum of 2 to a maximum of 128 circuits per connector in a wide variety of contact arrangements. Contacts are available in sizes 8, 10, 12, 16, 20, 22, 22D and 22M with standard 50 micro inch minimum gold plating (100 micro inches optional). All socket contacts are probe proof. Crimp type rear removable contacts are featured in JT-R and LJT-R connectors. Solder termination contacts are also available, as well as PCB, wire wrap, thermocouple, fiber optic, coaxial, triaxial and twinax contact options.

### Optional Features

High temperature capability of 392°F is available only in JTS or LJTS crimp type connectors. High temperature versions feature gold plated contacts, high temperature shell plating, stainless steel coupling nut spring, and epoxy inserts/fluorinated silicone grommet combination. Standard temperature capability for both solder and crimp is 302°F.

The JTN or LJTN type connectors are available for N<sub>2</sub>O<sub>4</sub> resistance provided they are mated, and un-grommeted rear faces are suitably protected.

For complete listing and definition of connector types, shell styles and service classes, see How to Order, pages 62 & 63. For information on Fail-Safe Lanyard Release style plugs, see pages 94-96.

Where proof of high reliability and lot control is required, MS approved equivalents to most proprietary JT and LJT connectors are available.

\* MIL-DTL-38999 Series I supersedes MIL-C-38999 Series I.  
MIL-DTL-38999 Series II supersedes MIL-C-38999 Series II.

### Features & Benefits

Amphenol® LJT and JT Series subminiature cylindrical connectors are qualified to MIL-DTL-38999\*, Series I and II respectively. These connectors were developed to meet the needs of the aerospace industry, and provided the impetus for development of the MIL-C-38999 specifications, which has been superseded by MIL-DTL-38999. Meeting or exceeding MIL-DTL-38999 requirements, Amphenol® JT/LJT connectors feature:

- **Lightweight, Space Saving Design**
- **Contact Protection** - 100% scoop-proof LJT design prevents bent pins and short circuits during mating
- **Quick Positive Coupling** - 3 point bayonet lock system
- **Mismating Eliminated** - with 5 key/keyway design
- **Error Proof Alternate Positioning** - insured by different key/keyway locations
- **EMI Shielding** - grounding fingers standard in LJT Series; optional in JT Series
- **Nine Shell Sizes and a Variety of Shell Styles**
- **Contact Options** - size 8, 10, 12, 16, 20, 22M and 22D Crimp, Solder, PCB, Wire wrap, Coax, Twinax, Triax, Thermocouple, Fiber Optic and Filter
- **Fixed Solder Contacts** - Amphenol MIL-DTL-38999 Series I LJT and II JT, are available in solder versions as both Commercial and Military qualified to MIL-DTL-27599
- **Hermetic** - air leakage limited to 1 X 10<sup>-7</sup> cm<sup>3</sup> per second optional
- **"Breakaway" Lanyard Release Style** - available in LJT plugs. Provides quick disconnect of the connector plug and receptacle with axial pull on the lanyard. See pages 94-96.
- **Inventory Support Commonality** - uses standard MIL-DTL-38999 contacts, insert arrangements and application tools.
- **RoHS Compliant Product Available** - Consult Amphenol Aerospace Operations.



**MIL-DTL-38999  
Series II JT**

### 38999

|             |
|-------------|
| III         |
| HD          |
| Dualok      |
| II          |
| I           |
| SJT         |
| Accessories |
| Aquacon     |
| Herm/Seal   |
| PCB         |

|              |
|--------------|
| HIGH SPEED   |
| Fiber Optics |
| Contacts     |
| Connectors   |
| Cables       |

|            |
|------------|
| EMI Filter |
| Transient  |

|          |
|----------|
| 26482    |
| Matrix 2 |

|               |
|---------------|
| 83723 III     |
| Matrix I Pyle |

|       |
|-------|
| 26500 |
| Pyle  |

|                           |
|---------------------------|
| 5015                      |
| Crimp Rear Release Matrix |

|         |
|---------|
| 22992   |
| Class I |

|             |
|-------------|
| Back-Shells |
|-------------|

|         |
|---------|
| Options |
| Others  |

## Easy Steps to build a commercial part number... Series I and II

# Commercial

1. 2. 3. 4. 5. 6. 7.

| Connector Series I | Type II | Shell Style | Service Class | Shell Size-Insert Arrangement | Contact Type | Alternate Position | Strain Relief/Finish Variation Suffix |       |
|--------------------|---------|-------------|---------------|-------------------------------|--------------|--------------------|---------------------------------------|-------|
| LJT                | JT      | 00          | RT            | 9-35                          | P            | B                  | SR                                    | (014) |

### Step 1. Select a Connector Type

1. 2. 3. 4. 5. 6. 7.

| Connector Type | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|-------------------------|--------------|--------------------|--------------------|
| JT             |             |               |                         |              |                    |                    |

| Series I | Series II | Designates                                       |
|----------|-----------|--------------------------------------------------|
|          | JT        | Standard Junior Tri-Lock                         |
| LJT      |           | Long Junior Tri-Lock                             |
| LJTS     | JTS       | High temperature connector                       |
| LJTN     | JTN       | Chemical and fuel resistant                      |
|          | JTL       | Miniature mounting dimensions                    |
|          | JTLN      | Miniature mounting dimensions-Chemical resistant |
|          | JTLS      | Miniature mounting dimensions- High temperature  |
| LJTPQ    | JTPQ      | Back panel mounted wall mounting receptacle      |
| LJTP     | JTP       | Back panel mounted box mounting receptacle       |
| LJTPN    | JTPN      | Back panel mounted-Chemical resistant            |
| LJTPS    | JTPS      | Back panel mounted-High temperature              |
|          | JTG       | Plug with grounding fingers*                     |
|          | JTNG      | Plug with grounding fingers* -Chemical resistant |

\*Grounding fingers standard on all LJT plugs

### Step 2. Select a Shell Style

1. 2. 3. 4. 5. 6. 7.

| Connector Type | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|-------------------------|--------------|--------------------|--------------------|
|                | 00          |               |                         |              |                    |                    |

| JT<br>JTS<br>JTN<br>LJT<br>LJTS<br>LJTN | JTL<br>JTLN<br>JTLS | JTPQ<br>JTP<br>JTPN<br>JTPS<br>LJTPQ<br>LJTP<br>LJTPN<br>LJTPS | JTG<br>JTNG | Designates                                            |
|-----------------------------------------|---------------------|----------------------------------------------------------------|-------------|-------------------------------------------------------|
| 00                                      |                     | 00                                                             |             | Wall mount receptacle (Hermetic option)               |
| 01                                      |                     |                                                                |             | Line mount receptacle (Non-hermetic)                  |
| 02                                      |                     | 02                                                             |             | Box mount receptacle (Hermetic Option except for LJT) |
| 06                                      |                     |                                                                | 06          | Straight plug (Non-hermetic)                          |
| 07                                      | 07                  |                                                                |             | Jam nut receptacle (Hermetic Option)                  |
| 08                                      |                     |                                                                | 08          | 90 degree plug (Non-hermetic)                         |
| I                                       |                     |                                                                |             | Solder mount receptacle (hermetic)                    |

#### Series I LJT

#### Series II JT



Wall Mounting Receptacle



Wall Mounting Receptacle



Line Receptacle



Box Mounting Receptacle



Jam Nut Receptacle



Straight Plug



Straight Plug



Jam Nut Receptacle



Solder Mounting Receptacle



90° Plug



Lanyard Release Plug  
(See pages 94-96 for ordering)



Solder Mounting Receptacle

# MIL-DTL-38999/ 27599, Series II JT MIL-DTL-38999/ 27599, Series I LJT



## How to Order (Commercial)

### Step 3. Select a Service Class

| 1.             | 2.          | 3.            | 4.                      | 5.           | 6.                 | 7.                 |
|----------------|-------------|---------------|-------------------------|--------------|--------------------|--------------------|
| Connector Type | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|                |             | <b>RX</b>     |                         |              |                    |                    |

| JT     | JTS | JTN | JTG JTNG | LJTS | LJT | Solder Contacts/Connectors                                                                                                                                          |
|--------|-----|-----|----------|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P      |     | P   |          |      | P   | Potting applications: These connectors are supplied with a potting boot. All shells are designed with integral features to retain potting boots.                    |
| A      |     | A   | A        |      |     | General Applications (JT only molded in solder type contacts)                                                                                                       |
| A (SR) |     |     |          |      |     | Threaded rear design with strain relief†                                                                                                                            |
| C      |     |     |          |      | C   | Pressurized applications                                                                                                                                            |
| C (SR) |     |     |          |      |     | Threaded rear design with strain relief.†                                                                                                                           |
| H      | H   |     |          |      | H   | Hermetic applications- Fused compression glass sealed inserts. Leakage rate less than .01 micron cu. ft./hr. (1 x 10 <sup>-7</sup> cc/sec.) at 15 psi differential. |
| Y      | Y   |     |          | Y    | Y   | Same as "H" with interfacial seal.                                                                                                                                  |
| T      |     |     |          |      | T   | MIL-DTL-27599 applications-general duty, pressurized (receptacle only) (LJT only molded in solder type contacts)                                                    |

| JT<br>JTN<br>JTG<br>JTNG<br>JTPQ<br>LJT<br>JTPQ<br>LJTPQ | JTS | JTLS | JTL<br>JTLN<br>LJTP | LJTS | JTPS<br>LJTPS | Crimp Contacts/Connectors                                                                                                                                  |
|----------------------------------------------------------|-----|------|---------------------|------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RP                                                       | RP  | RP   | RP                  |      |               | Potting crimp applications. Supplied with spacer grommet and potting boot.††                                                                               |
| RE                                                       | RE  | RE   | RE                  | RE   | RE            | Environmental crimp applications. Supplied with a grommet and compression nut.† Can be supplied with strain relief integral with compression nut "RE(SR)". |
| RT                                                       | RT  |      | RT                  | RT   | RT            | Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells.                                       |

† Not applicable to box mounting style or LJT Series I.

†† Not applicable to box mounting style.

### Step 4. Select a Shell Size & Insert Arrangement see page 6-9

First number represents Shell Size,  
second number is the Insert Arrangement.

| 1.             | 2.          | 3.            | 4.                      | 5.           | 6.                 | 7.                 |
|----------------|-------------|---------------|-------------------------|--------------|--------------------|--------------------|
| Connector Type | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|                |             |               | <b>22-2</b>             |              |                    |                    |

### Step 5. Select a Contact Type

| 1.             | 2.          | 3.            | 4.                      | 5.           | 6.                 | 7.                 |
|----------------|-------------|---------------|-------------------------|--------------|--------------------|--------------------|
| Connector Type | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|                |             |               |                         | <b>P</b>     |                    |                    |

|   | Designates      |
|---|-----------------|
| P | Pin Contacts    |
| S | Socket Contacts |

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH  
SPEED

Fiber  
Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class I

Back-  
Shells

Options  
Others

### How to Order (Commercial)

38999

III

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Dualok

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Release  
Matrix

22992  
Class I

Back-  
Shells

Options  
Others

| 1.             | 2.          | 3.            | 4.                         | 5.           | 6.                    | 7.                    |
|----------------|-------------|---------------|----------------------------|--------------|-----------------------|-----------------------|
| Connector Type | Shell Style | Service Class | Shell Size<br>Insert Arrg. | Contact Type | Alternate<br>Position | Special<br>Variations |
|                |             |               |                            |              | A                     |                       |

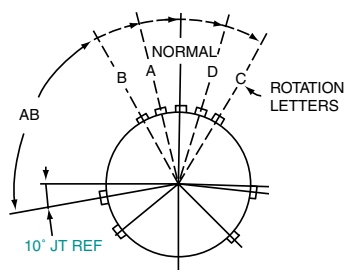
#### Step 6. Select an Alternate Keying Position

"A" designates Alternate keying connector assembly. Other basic alternate keys are "B", "C" and "D". No letter required for normal rotation (no rotation) position.

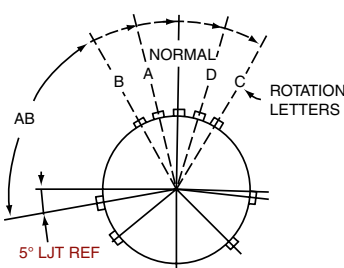
A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The AB angle for a given connector is the same whether it contains pins or sockets. Only the master key/keyway rotates in the shell, and the minor keys are fixed.

AB angles shown are viewed from the front face of the connector, a receptacle is shown below. The angles for the plug are exactly the same except the direction of rotation is opposite of that shown for the receptacle.

The "N" designation is not referenced in part number, it is omitted.



RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY (front face of receptacle shown)



RELATIVE POSSIBLE POSITION OF ROTATED MASTER KEYWAY (front face of receptacle shown)

#### JT Key/Keyway Rotation

| AB ANGLE OF ROTATION (Degrees) |        |     |     |      |      |
|--------------------------------|--------|-----|-----|------|------|
| Shell Size                     | Normal | A   | B   | C    | D    |
| 8                              | 100°   | 82° | -   | -    | 118° |
| 10                             | 100°   | 86° | 72° | 128° | 114° |
| 12                             | 100°   | 80° | 68° | 132° | 120° |
| 14                             | 100°   | 79° | 66° | 134° | 121° |
| 16                             | 100°   | 82° | 70° | 130° | 118° |
| 18                             | 100°   | 82° | 70° | 130° | 118° |
| 20                             | 100°   | 82° | 70° | 130° | 118° |
| 22                             | 100°   | 85° | 74° | 126° | 115° |
| 24                             | 100°   | 85° | 74° | 126° | 115° |

#### LJT Key/Keyway Rotation

| AB ANGLE OF ROTATION (Degrees) |        |     |     |      |      |
|--------------------------------|--------|-----|-----|------|------|
| Shell Size                     | Normal | A   | B   | C    | D    |
| 9                              | 95°    | 77° | -   | -    | 113° |
| 11                             | 95°    | 81° | 67° | 123° | 109° |
| 13                             | 95°    | 75° | 63° | 127° | 115° |
| 15                             | 95°    | 74° | 61° | 129° | 116° |
| 17                             | 95°    | 77° | 65° | 125° | 113° |
| 19                             | 95°    | 77° | 65° | 125° | 113° |
| 21                             | 95°    | 77° | 65° | 125° | 113° |
| 23                             | 95°    | 80° | 69° | 121° | 110° |
| 25                             | 95°    | 80° | 69° | 121° | 110° |

| 1.             | 2.          | 3.            | 4.                          | 5.           | 6.                 | 7.                 |
|----------------|-------------|---------------|-----------------------------|--------------|--------------------|--------------------|
| Connector Type | Shell Style | Service Class | Shell Size-<br>Insert Arrg. | Contact Type | Alternate Position | Special Variations |
|                |             |               |                             |              |                    | ( )                |

#### Step 7. Select a Strain Relief Option or Finish Variation Suffix

Strain Relief Options: "SR" designates a strain relief clamp. Strain reliefs are available only on Service Class "A", "C" and "RE" (see step 3. Service Class)

Finish Variation Suffix: See finish variations available in table to your right.

| Finish                                     | Military Finish Data | Finish Suffix | Finish Plus "SR" Suffix |
|--------------------------------------------|----------------------|---------------|-------------------------|
| Cadmium plated nickel base 175°C           | A                    |               | (SR)                    |
| Olive drab cadmium plate nickel base 175°C | B                    | (014)         | (386)                   |
| Electroless nickel 200°C                   | F                    | (023)         | (424)                   |
| Electroless nickel, space compatible 200°C |                      | (453)         | (467)                   |
| Anodic coating (Alumilite) 200°C           | C                    | (005)         | (300)                   |
| Chromate treated (Iridite 14-2) 125°C      |                      | (011)         | (344)                   |
| Passivated steel 200°C                     | E                    | -             | -                       |
| Nickel-PTFE 175°C                          |                      | (038)         |                         |

## How to Order (Military)

## Easy Steps to build a Military part number... Series I and II

### Military

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                        |
|-----------|---------------|------------|--------|--------------------|------------------------|---------------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Keying Position |
| MS27473   | E             | 14         | A      | 18                 | P                      | A                         |

### Step 1. Choose your Military Connector Type

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|--------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
| MS27473   |               |            |        |                    |                        |                    |

| Series II JT  |                                                     | Series I LJT  |                                                     |
|---------------|-----------------------------------------------------|---------------|-----------------------------------------------------|
| MIL-DTL-38999 |                                                     | MIL-DTL-38999 |                                                     |
| MS27472       | Crimp Wall Mount Receptacle                         | MS27466       | Crimp Wall Mount Receptacle                         |
| MS27497       | Crimp Wall Mount Receptacle (Back Panel Mounting)   | MS27656       | Crimp Wall Mount Receptacle (Back Panel Mounting)   |
| MS27499       | Crimp Box Mounting Receptacle                       | MS27496       | Crimp Box Mounting Receptacle                       |
| MS27513       | Crimp Box Mounting Receptacle with grommet          | MS27505       | Crimp Box Mounting Receptacle (Back Panel Mounting) |
| MS27508       | Crimp Box Mounting Receptacle (Back Panel Mounting) | MS27467       | Crimp Straight Plug                                 |
| MS27473       | Crimp Straight Plug                                 | MS27468       | Crimp Jam Nut Receptacle                            |
| MS27484       | Crimp Straight Plug with Grounding Fingers          | MS27469       | Hermetic Wall Mounting Receptacle                   |
| MS27474       | Crimp Jam Nut Receptacle                            | MS27470       | Hermetic Jam Nut Receptacle                         |
| MS27500       | Crimp 90° plug                                      | MS27471       | Hermetic Solder Mounting Receptacle                 |
| MS27475       | Hermetic Wall Mounting Receptacle                   | MIL-DTL-27599 |                                                     |
| MS27476       | Hermetic Box Mounting Receptacle                    | MS20026       | Solder Wall Mounting Receptacle                     |
| MS27477       | Hermetic Jam Nut Receptacle                         | MS20027       | Solder Line Receptacle                              |
| MS27478       | Hermetic Solder Mounting Receptacle                 | MS20028       | Solder Straight Plug                                |
| MIL-DTL-27599 |                                                     | MS20029       | Solder Jam Nut Receptacle                           |
| MS27334       | Solder Wall Mount Receptacle                        |               |                                                     |
| MS27335       | Solder Box Mounting Receptacle                      |               |                                                     |
| MS27336       | Solder Straight Plug                                |               |                                                     |
| MS27337       | Solder Jam Mounting Receptacle                      |               |                                                     |

### Step 2. Select a Military Service Class

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|--------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
|           | E             |            |        |                    |                        |                    |

| Military | Service Class                                                                                                                                                                                                                                |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E        | Environmental crimp applications. Supplied with a grommet and compression nut.† Can be supplied with strain relief integral with compression nut "RE(SR)". (JT Series only). Box Mount versions using spacer grommets are not environmental. |
| P        | Potting crimp applications. Supplied with spacer grommet and potting boot.††                                                                                                                                                                 |
| T        | Environmental applications. Supplied without rear accessories. Design provides serrations on rear threads of shells. (Not applicable to solder type or hermetics)                                                                            |
| Y        | Hermetically interfacial seal                                                                                                                                                                                                                |

† Not applicable to box mounting style or LJT Series I.

†† Not applicable to box mounting style.

38999

III

HD

Duallok

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38999

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Fiber Optics

Contacts Connectors Cables

EMI Filter Transient

26482 Matrix 2

83723 III Matrix | Pyle

26500 Pyle

5015 Cimp Rear Release Matrix

22992 Class I

Back-Shells

Options Others

**Step 3 & 5. Select a Shell Size and Insert Arrangement from Pages 6-9**

| 1.        | 2.            | 3.         | 4.        | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|-----------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | 4. Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
|           |               | 14         |           | 18                 |                        |                    |

Shell Size & Insert Arrangement are on pages 6-9. First number represents Shell Size, second number is the Insert Arrangement. Place Shell Size in box 3 and Insert Arrangement in box 5.

**Step 4. Select a Military Finish**

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|--------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
|           |               |            | A      |                    |                        |                    |

| Finish                                     | Military Finish Data | Finish Suffix | Finish Plus "SR" Suffix |
|--------------------------------------------|----------------------|---------------|-------------------------|
| Cadmium plated nickel base 175°C           | A                    |               | (SR)                    |
| Olive drab cadmium plate nickel base 175°C | B                    | (014)         | (386)                   |
| Electroless nickel 200°C                   | F                    | (023)         | (424)                   |
| Electroless nickel, space compatible 200°C |                      | (453)         | (467)                   |
| Anodic coating (Alumilite) 200°C           | C                    | (005)         | (300)                   |
| Chromate treated (Iridite 14-2) 125°C      |                      | (011)         | (344)                   |
| Passivated steel 200°C                     | E                    | -             | -                       |
| Nickel-PTFE 175°C                          |                      | (038)         |                         |

**Step 6. Select a Military Contact Type**

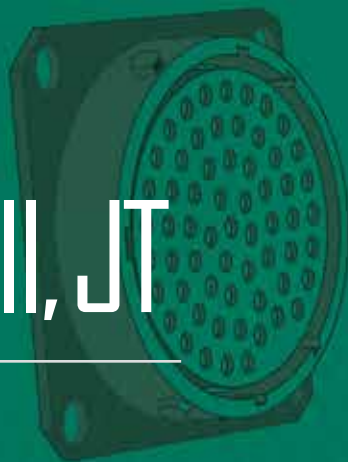
|   | Designates      |
|---|-----------------|
| P | Pin Contacts    |
| S | Socket Contacts |

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|--------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
|           |               |            |        |                    | P                      |                    |

**Step 7. Select an Alternate Keying Position**  
See page 64 for information, No letter required for normal position

| 1.        | 2.            | 3.         | 4.     | 5.                 | 6.                     | 7.                 |
|-----------|---------------|------------|--------|--------------------|------------------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrangement | Contact Style (P or S) | Alternate Position |
|           |               |            |        |                    |                        | A                  |

# Amphenol MIL-DTL-38999, Series II, JT



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- Crimp Straight Plug with Grounding Fingers JTG06R (MS27484). . . . . 74
- Crimp Jam Nut Receptacle JT07R (MS27474) . . . . . 75
- Crimp Jam Nut Receptacle (Miniature Jam Nut Mounting Dimensions) JTL07R . . . . . 76
- Crimp 90° Plug JT08R (MS27500) . . . . . 77
- Hermetic Wall Mounting Receptacle JT00 (MS27475),  
Hermetic Box Mounting Receptacle JT02 (MS27476) . . . . . 78
- Hermetic Jam Nut Receptacle JT07 (MS27477),  
Hermetic Solder Mounting Receptacle JTI (MS27478) . . . . . 79
- Solder Wall Mounting Receptacle JT00 (MS27334),  
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- Solder Straight Plug JT06 (MS27336),  
Solder Straight Plug with Grounding Ring JTG06A . . . . . 81
- Solder Jam Nut Receptacle JT07 (MS27337),  
Solder 90° Plug JT08 . . . . . 82
- Accessories and Tools see 38999 Accessories Section . . . . . 112-114
- Accessories continue on . . . . . 120-124

## MIL-DTL-38999 Series II Typical Markets:

- Military & Commercial Aviation
- Military Vehicles
- Missiles & Ordnance
- C4ISR

**Amphenol**  
Aerospace

38999

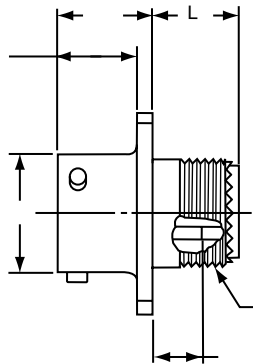
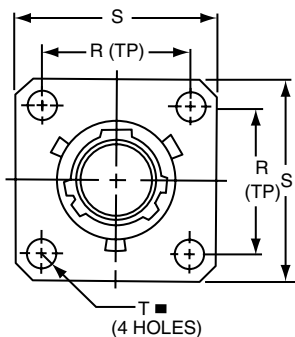
### PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

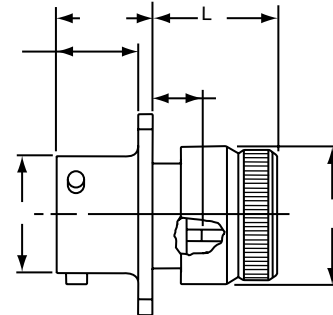
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 00          | RT            | 22-2                     | P            | A                  | (XXX)              |

### Military

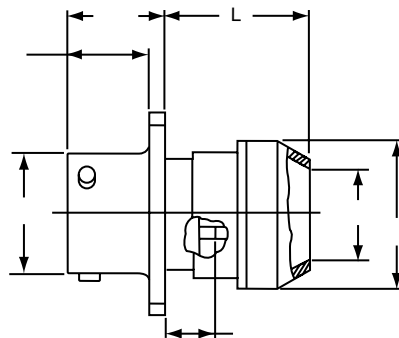
| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27472   | E             | 14         | A      | 18          | P                      | A                  |
| MS27479   | E             | 14         | A      | 18          | P                      | A                  |



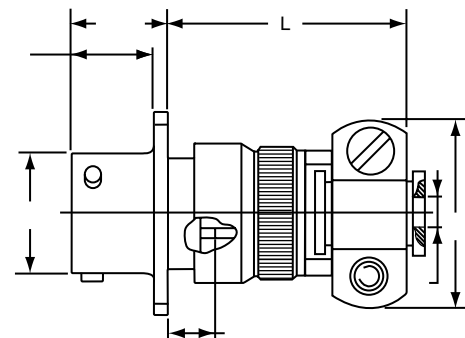
\* JT00RT-XX-XXX(MS27472T)  
\*\* JTS00RT-XX-XXX(MS27479T)  
\*\*\* JTN00RT-XX-XXX



\* JT00RE-XX-XXX (MS27472E)  
\*\* JTS00RE-XX-XXX(MS27479E)  
\*\*\* JTN00RE-XX-XXX



\* JT00RP-XX-XXX(MS27472P)  
\*\* JTS00RP-XX-XXX  
\*\*\* JTN00RP-XX-XXX



\* JT00RE-XX-XXX (SR)  
\*\* JTS00RE-XX-XXX (SR)  
\*\*\* JTN00RE-XX-XXX (SR)

⊕ .005 DIA M

\* Standard Junior Tri-Lock

\*\* High temperature version

\*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

| Shell Size | F Dia. +.010 - .025 | F <sup>1</sup> Dia. ±.010 | L Max. | L <sup>1</sup> Max. | L <sup>2</sup> Max. | L <sup>3</sup> Max. | N +.001 - .005 | R (TP) | S ±.016 | T ±.005 | V Thread UNEF Class 2A (Plated) | KK Max. | KK <sup>1</sup> Dia. Max. | KK <sup>2</sup> Dia. Max. |
|------------|---------------------|---------------------------|--------|---------------------|---------------------|---------------------|----------------|--------|---------|---------|---------------------------------|---------|---------------------------|---------------------------|
| 8          | .125                | .444                      | 1.094  | .609                | .547                | .500                | .473           | .594   | .812    | .120    | .4375-28                        | .812    | .625                      | .578                      |
| 10         | .188                | .558                      | 1.094  | .609                | .547                | .500                | .590           | .719   | .938    | .120    | .5625-24                        | .875    | .750                      | .703                      |
| 12         | .312                | .683                      | 1.094  | .609                | .547                | .500                | .750           | .812   | 1.031   | .120    | .6875-24                        | 1.000   | .875                      | .828                      |
| 14         | .375                | .808                      | 1.344  | .609                | .547                | .500                | .875           | .906   | 1.125   | .120    | .8125-20                        | 1.125   | 1.000                     | .953                      |
| 16         | .500                | .909                      | 1.344  | .609                | .547                | .500                | 1.000          | .969   | 1.219   | .120    | .9375-20                        | 1.188   | 1.125                     | 1.078                     |
| 18         | .625                | 1.034                     | 1.344  | .609                | .547                | .500                | 1.125          | 1.062  | 1.312   | .120    | 1.0625-18                       | 1.438   | 1.250                     | 1.203                     |
| 20         | .625                | 1.159                     | 1.344  | .609                | .547                | .500                | 1.250          | 1.156  | 1.438   | .120    | 1.1875-18                       | 1.438   | 1.375                     | 1.328                     |
| 22         | .750                | 1.284                     | 1.469  | .609                | .547                | .500                | 1.375          | 1.250  | 1.562   | .120    | 1.3125-18                       | 1.625   | 1.500                     | 1.453                     |
| 24         | .800                | 1.409                     | 1.469  | .688                | .547                | .500                | 1.500          | 1.375  | 1.688   | .147    | 1.4375-18                       | 1.719   | 1.625                     | 1.578                     |

All dimensions for reference only.



# JTPQ00R (MS27497) Series II – Crimp

## Wall Mounting Receptacle

(Back Panel Mounting)

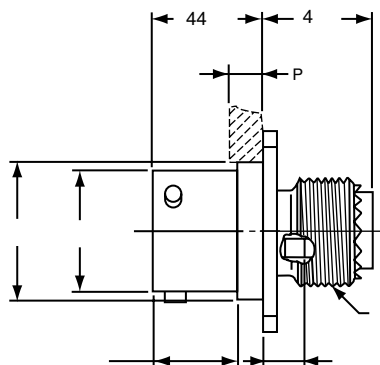
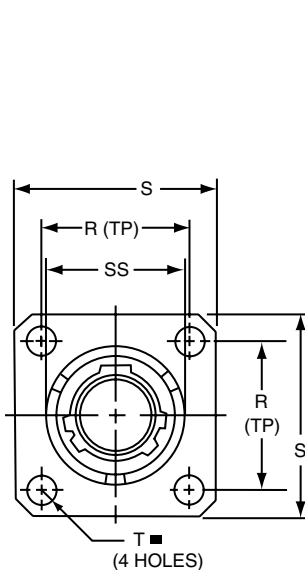
### PART #

Part number reference. To complete, see how to order pages 62-66.

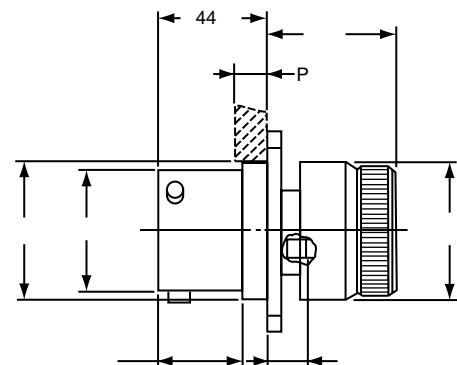
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JTPQ/JTPSQ     | 00          | RT            | 22-2                     | P            | A                  | (XXX)              |

### Military

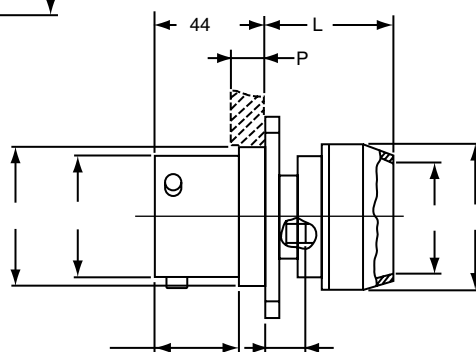
| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27497   | E             | 14         | A      | 18          | P                      | A                  |



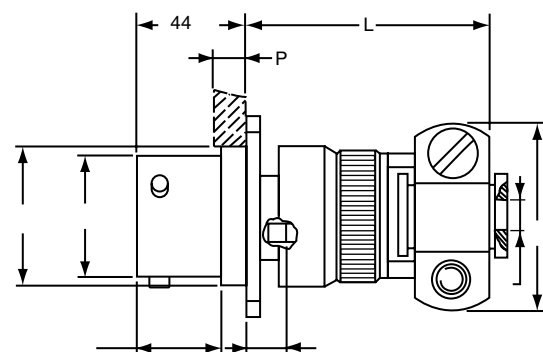
\* JTPQ00RT-XX-XXX (MS27497T)  
\*\* JTPSQ00RT-XX-XXX



\* JTPQ00RE-XX-XXX (MS27497E)



\* JTPQ00RP-XX-XXX (MS27497P)



\* JTPQ00RE-XX-XXX (SR)

⊕ .005 DIA (M)

\* Standard Junior Tri-Lock

\*\* High temperature version

| Shell Size | F Dia. +.010<br>-.025 | F' Dia. ±.010 | L Max. | L' Max. | N +.001<br>-.005 | P Max. Panel Thickness | R (TP) | S ±.016 | T ±.005 | V Thread UNEF Class 2A (Plated) | AD Dia. ±.005 | KK Max. | KK' Dia. Max. | KK² Dia. Max. | SS Dia. +.000<br>-.016 |
|------------|-----------------------|---------------|--------|---------|------------------|------------------------|--------|---------|---------|---------------------------------|---------------|---------|---------------|---------------|------------------------|
| 8          | .125                  | .444          | 1.140  | .468    | .473             | .142                   | .594   | .812    | .120    | .4375-28                        | .516          | .781    | .625          | .578          | .563                   |
| 10         | .188                  | .558          | 1.140  | .468    | .590             | .142                   | .719   | .938    | .120    | .5625-24                        | .633          | .844    | .750          | .703          | .680                   |
| 12         | .312                  | .683          | 1.140  | .468    | .750             | .142                   | .812   | 1.031   | .120    | .6875-24                        | .802          | .969    | .875          | .828          | .859                   |
| 14         | .375                  | .808          | 1.375  | .468    | .875             | .142                   | .906   | 1.125   | .120    | .8125-20                        | .927          | 1.094   | 1.000         | .953          | .984                   |
| 16         | .500                  | .909          | 1.375  | .468    | 1.000            | .142                   | .969   | 1.219   | .120    | .9375-20                        | 1.052         | 1.154   | 1.125         | 1.078         | 1.108                  |
| 18         | .625                  | 1.034         | 1.375  | .468    | 1.125            | .142                   | 1.062  | 1.312   | .120    | 1.0625-18                       | 1.177         | 1.406   | 1.250         | 1.203         | 1.233                  |
| 20         | .625                  | 1.159         | 1.375  | .468    | 1.250            | .142                   | 1.156  | 1.438   | .120    | 1.1875-18                       | 1.302         | 1.406   | 1.375         | 1.328         | 1.358                  |
| 22         | .750                  | 1.284         | 1.516  | .468    | 1.375            | .142                   | 1.250  | 1.562   | .120    | 1.3125-18                       | 1.427         | 1.594   | 1.500         | 1.453         | 1.483                  |
| 24         | .800                  | 1.409         | 1.500  | .540    | 1.500            | .142                   | 1.375  | 1.688   | .147    | 1.4375-18                       | 1.552         | 1.688   | 1.625         | 1.578         | 1.610                  |

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH  
SPEED

Fiber  
Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class I

Back-  
Shells

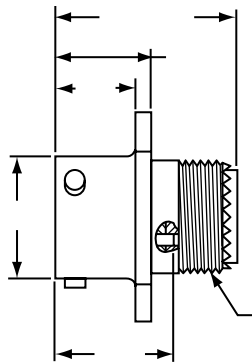
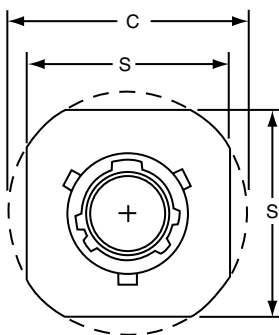
Options  
Others

38999

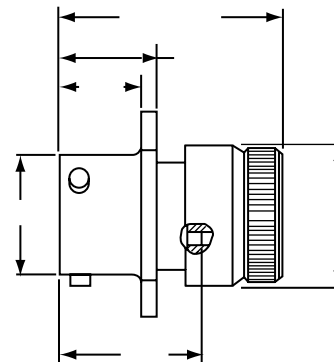
### PART # Commercial

Part number reference. To complete,  
see how to order pages 62-66.

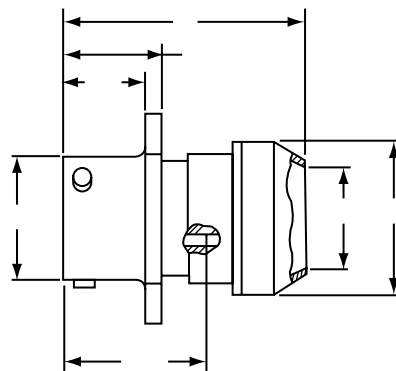
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 01          | RT            | 22-2                     | P            | A                  | (XXX)              |



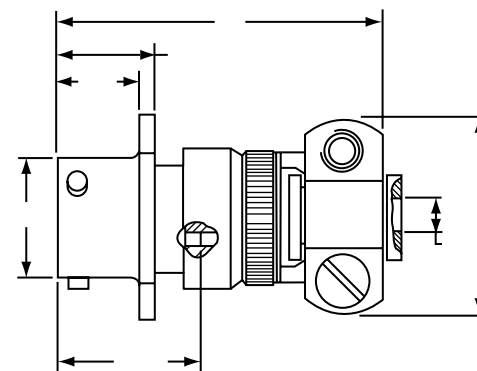
\* JT01RT-XX-XXX  
\*\* JTS01RT-XX-XXX  
\*\*\* JTN01RT-XX-XXX



\* JT01RE-XX-XXX  
\*\* JTS01RE-XX-XXX  
\*\*\* JTN01RE-XX-XXX



\* JT01RP-XX-XXX  
\*\* JTS01RP-XX-XXX  
\*\*\* JTN01RP-XX-XXX



\* JT01RE-XX-XXX (SR)  
\*\* JTS01RE-XX-XXX (SR)  
\*\*\* JTN01RE-XX-XXX (SR)

\* Standard Junior Tri-Lock  
\*\* High temperature version  
\*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

| Shell Size | C Max. | F Dia. +.010 | F <sup>1</sup> Dia. +.010 - .025 | L Max. | L <sup>1</sup> Max. | N Dia. +.001 - .005 | S +.017 - .016 | V Thread UNEF Class 2A (Plated) | KK Dia. Max. | KK <sup>1</sup> Dia. Max. | KK <sup>2</sup> Max. |
|------------|--------|--------------|----------------------------------|--------|---------------------|---------------------|----------------|---------------------------------|--------------|---------------------------|----------------------|
| 8          | .965   | .444         | .125                             | 1.031  | 1.562               | .473                | .812           | .4375-28                        | .578         | .625                      | .812                 |
| 10         | 1.089  | .558         | .188                             | 1.031  | 1.562               | .590                | .938           | .5625-24                        | .703         | .750                      | .875                 |
| 12         | 1.183  | .683         | .312                             | 1.031  | 1.562               | .750                | 1.031          | .6875-24                        | .828         | .875                      | 1.000                |
| 14         | 1.277  | .808         | .375                             | 1.031  | 1.812               | .875                | 1.125          | .8125-20                        | .953         | 1.000                     | 1.125                |
| 16         | 1.371  | .909         | .500                             | 1.031  | 1.812               | 1.000               | 1.219          | .9375-20                        | 1.078        | 1.125                     | 1.188                |
| 18         | 1.465  | 1.034        | .625                             | 1.031  | 1.812               | 1.125               | 1.312          | 1.0625-18                       | 1.203        | 1.250                     | 1.438                |
| 20         | 1.589  | 1.159        | .625                             | 1.031  | 1.812               | 1.250               | 1.438          | 1.1875-18                       | 1.328        | 1.375                     | 1.438                |
| 22         | 1.715  | 1.284        | .750                             | 1.031  | 1.938               | 1.375               | 1.562          | 1.3125-18                       | 1.453        | 1.500                     | 1.625                |
| 24         | 1.838  | 1.409        | .800                             | 1.109  | 1.938               | 1.500               | 1.688          | 1.4375-18                       | 1.578        | 1.625                     | 1.719                |

All dimensions for reference only.

# JT02RE (MS27499) Series II – Crimp

## JT02RE (053) (MS27513)

### Box Mounting Receptacle

#### PART #

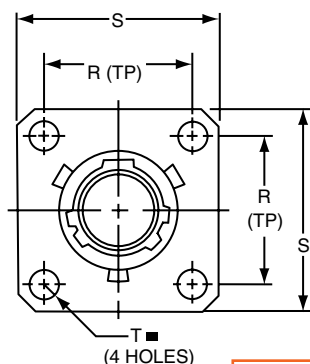
##### Commercial

Part number reference. To complete, see how to order pages 62-66.

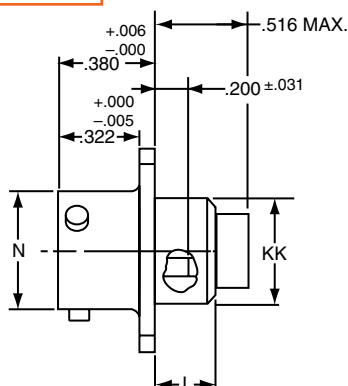
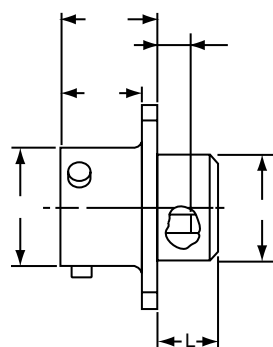
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 02          | RE            | 22-2                     | P            | A                  | (XXX)              |

##### Military

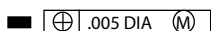
| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27499   | E             | 14         | A      | 18          | P                      | A                  |
| MS27513   | E             | 14         | A      | 18          | P                      | A                  |



- \* JT02RE-XX-XXX (MS27499)
- \*\* JTS02RE-XX-XXX
- \*\*\* JTN02RE-XX-XXX



- \* JT02RE-XX-XXX (053) (MS27513)
- \*\* JTS02RE-XX-XXX (053)
- \*\*\* JTN02RE-XX-XXX (053)



- \* Standard Junior Tri-Lock
- \*\* High temperature version
- \*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

All dimensions for reference only.

NOTE: For applications requiring an environmental seal, please refer to JT00R, page 63.

38999

### PART #

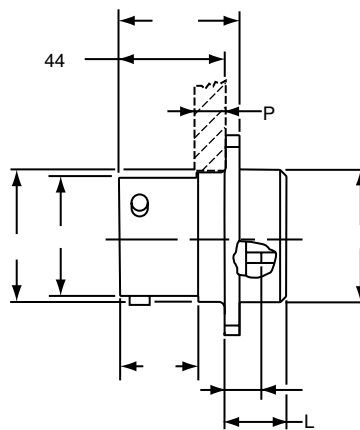
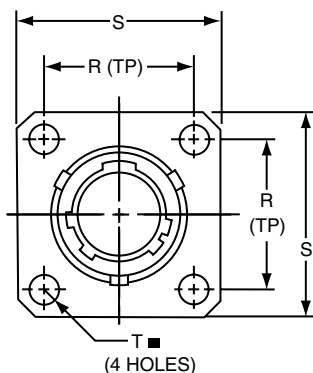
Commercial

Part number reference. To complete,  
see how to order pages 62-66.

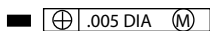
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTPS/JTPN   | 02          | RE            | 22-2                     | P            | A                  | (XXX)              |

Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27508   | E             | 14         | A      | 18          | P                      | A                  |



\* JTP02RE-XX-XXX (MS27508E)  
\*\* JTPS02RE-XX-XXX  
\*\*\*JTPN02RE-XX-XXX



- \* Standard Junior Tri-Lock
- \*\* High temperature version
- \*\*\* Clear iridite finish (gold color),  $N_2O_4$  resistant

| Shell Size | L Max. | N +.001<br>-.005 | P Max.<br>Panel<br>Thickness | R (TP) | S ±.016 | T Dia.<br>±.005 | AD Dia.<br>±.005 | KK Dia.<br>Max. |
|------------|--------|------------------|------------------------------|--------|---------|-----------------|------------------|-----------------|
| 8          | .225   | .473             | .147                         | .594   | .812    | .120            | .516             | .531            |
| 10         | .225   | .590             | .152                         | .719   | .938    | .120            | .633             | .656            |
| 12         | .225   | .750             | .152                         | .812   | 1.031   | .120            | .802             | .828            |
| 14         | .225   | .875             | .152                         | .906   | 1.125   | .120            | .927             | .953            |
| 16         | .225   | 1.000            | .152                         | .969   | 1.219   | .120            | 1.052            | 1.078           |
| 18         | .225   | 1.125            | .152                         | 1.062  | 1.312   | .120            | 1.177            | 1.203           |
| 20         | .225   | 1.250            | .179                         | 1.156  | 1.438   | .120            | 1.302            | 1.328           |
| 22         | .225   | 1.375            | .179                         | 1.250  | 1.562   | .120            | 1.427            | 1.453           |
| 24         | .225   | 1.500            | .169                         | 1.375  | 1.688   | .147            | 1.552            | 1.578           |

# JT06R (MS27473) Series II – Crimp Straight Plug

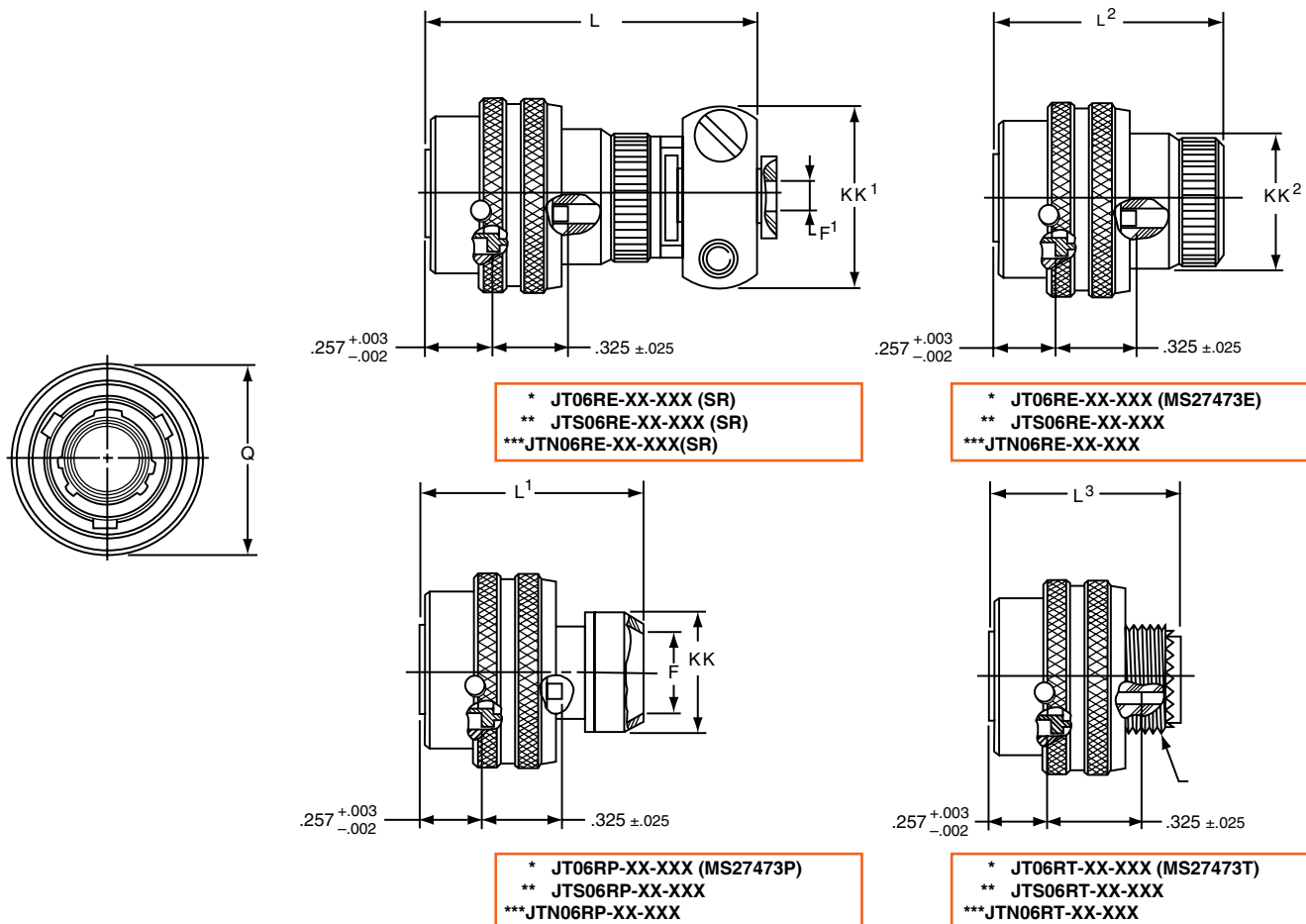
## PART # Commercial

Part number reference. To complete,  
see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 06          | RE            | 22-2                     | P            | A                  | (XXX)              |

## Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27473   | E             | 14         | A      | 18          | P                      | A                  |



- \* Standard Junior Tri-Lock
- \*\* High temperature version
- \*\*\* Clear iridite finish (gold color),  $N_2O_4$  resistant

| Shell Size | F Dia. | F <sup>1</sup> Dia.<br>+.001<br>-.025 | L<br>Max. | L <sup>1</sup><br>Max. | L <sup>2</sup><br>Max. | L <sup>3</sup><br>Max. | Q Dia<br>Max. | V Thread Modified |                        | KK Dia.<br>Max. | KK <sup>1</sup><br>Max. | KK <sup>2</sup><br>Dia.<br>Max. |
|------------|--------|---------------------------------------|-----------|------------------------|------------------------|------------------------|---------------|-------------------|------------------------|-----------------|-------------------------|---------------------------------|
|            |        |                                       |           |                        |                        |                        |               | Class 2A<br>UNEF  | Modified Major<br>Dia. |                 |                         |                                 |
| 8          | .444   | .125                                  | 1.562     | 1.000                  | .938                   | .891                   | .734          | .4375-28          | .421 - .417            | .625            | .812                    | .578                            |
| 10         | .558   | .188                                  | 1.562     | 1.000                  | .938                   | .891                   | .844          | .5625-24          | .542 - .538            | .750            | .875                    | .703                            |
| 12         | .683   | .312                                  | 1.562     | 1.000                  | .938                   | .891                   | 1.016         | .6875-24          | .667 - .663            | .875            | 1.000                   | .828                            |
| 14         | .808   | .375                                  | 1.812     | 1.000                  | .938                   | .891                   | 1.141         | .8125-20          | .791 - .787            | 1.000           | 1.125                   | .953                            |
| 16         | .909   | .500                                  | 1.812     | 1.000                  | .938                   | .891                   | 1.265         | .9375-20          | .916 - .912            | 1.125           | 1.188                   | 1.078                           |
| 18         | 1.034  | .625                                  | 1.812     | 1.000                  | .938                   | .891                   | 1.391         | 1.0625-18         | 1.034 - 1.030          | 1.250           | 1.438                   | 1.203                           |
| 20         | 1.159  | .625                                  | 1.812     | 1.000                  | .938                   | .891                   | 1.500         | 1.1875-18         | 1.158 - 1.154          | 1.375           | 1.438                   | 1.328                           |
| 22         | 1.284  | .750                                  | 1.938     | 1.000                  | .938                   | .891                   | 1.625         | 1.3125-18         | 1.283 - 1.279          | 1.500           | 1.625                   | 1.453                           |
| 24         | 1.409  | .800                                  | 1.938     | 1.062                  | .938                   | .891                   | 1.750         | 1.4375-18         | 1.408 - 1.404          | 1.625           | 1.719                   | 1.578                           |

All dimensions for reference only.

38999

III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

HIGH  
SPEED  
Fiber  
Optics  
Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class I

Back-  
Shells

Options  
Others



38999

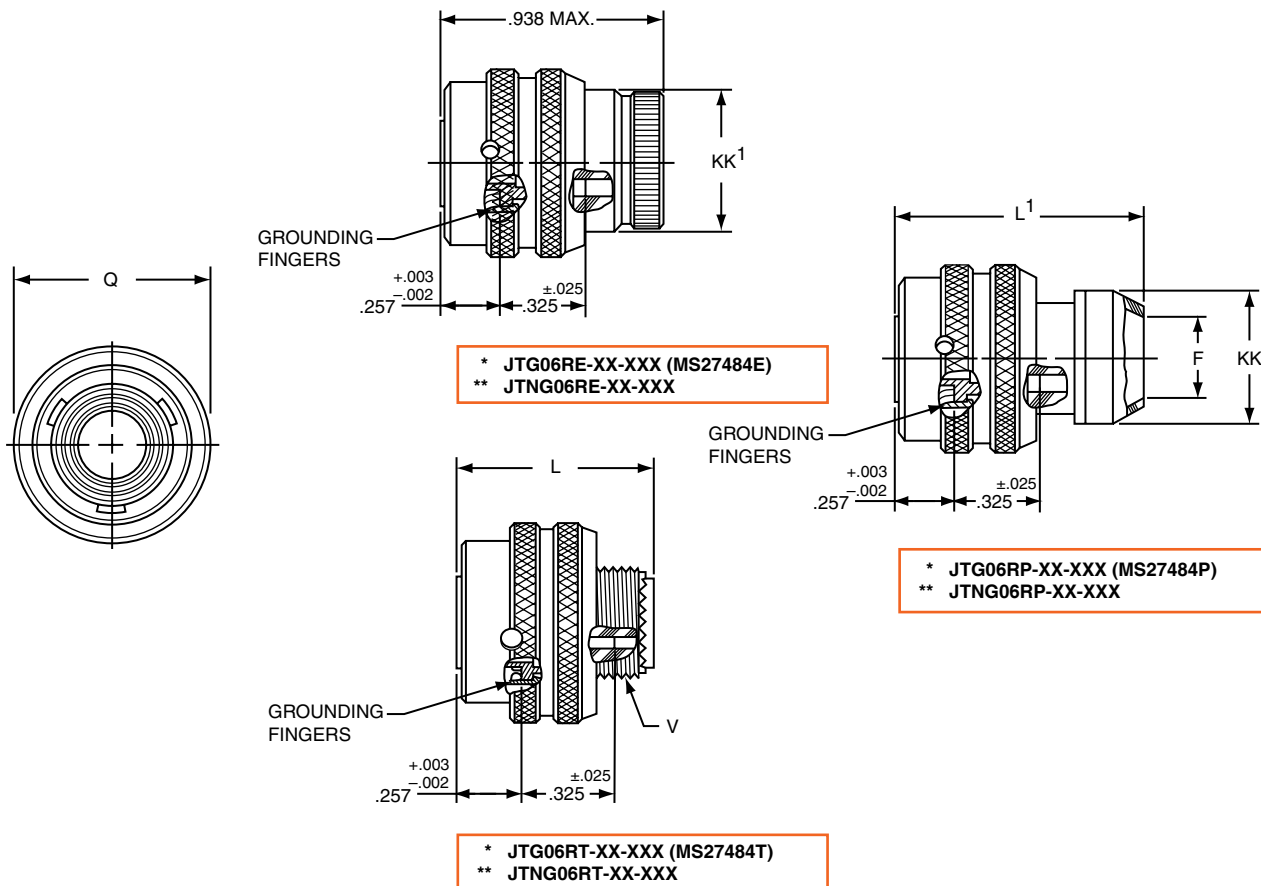
### PART # Commercial

Part number reference. To complete,  
see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JTG/JTNG       | 06          | RE            | 22-2                     | P            | A                  | (XXX)              |

### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27484   | E             | 14         | A      | 18          | P                      | A                  |



\* Plug with grounding fingers  
\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

| Shell Size | F Dia. | L Max. | L <sup>1</sup> Max. | Q Dia Max. | V Thread Modified |                     | KK Dia. Max. | KK <sup>1</sup> Dia. Max. |
|------------|--------|--------|---------------------|------------|-------------------|---------------------|--------------|---------------------------|
|            |        |        |                     |            | Class 2A UNEF     | Modified Major Dia. |              |                           |
| 8          | .444   | .891   | 1.000               | .734       | .4375-28          | .421 – .417         | .625         | .578                      |
| 10         | .558   | .891   | 1.000               | .844       | .5625-24          | .542 – .538         | .750         | .703                      |
| 12         | .683   | .891   | 1.000               | 1.016      | .6875-24          | .667 – .663         | .875         | .828                      |
| 14         | .808   | .891   | 1.000               | 1.141      | .8125-20          | .791 – .787         | 1.000        | .953                      |
| 16         | .909   | .891   | 1.000               | 1.265      | .9375-20          | .916 – .912         | 1.125        | 1.078                     |
| 18         | 1.034  | .891   | 1.000               | 1.391      | 1.0625-18         | 1.034 – 1.030       | 1.250        | 1.203                     |
| 20         | 1.159  | .891   | 1.000               | 1.500      | 1.1875-18         | 1.158 – 1.154       | 1.375        | 1.328                     |
| 22         | 1.284  | .891   | 1.000               | 1.625      | 1.3125-18         | 1.283 – 1.279       | 1.500        | 1.453                     |
| 24         | 1.409  | .891   | 1.062               | 1.750      | 1.4375-18         | 1.408 – 1.404       | 1.625        | 1.578                     |

All dimensions for reference only.

# JT07R (MS27474) Series II – Crimp Jam Nut Receptacle

## PART # Commercial

Part number reference. To complete,  
see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 07          | RE            | 22-2                     | P            | A                  | (XXX)              |

## Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27474   | E             | 14         | A      | 18          | P                      | A                  |

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH  
SPEED

Fiber  
Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

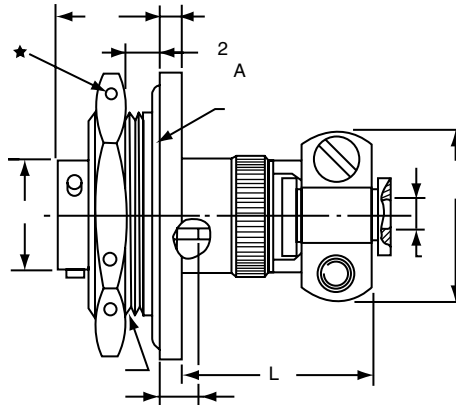
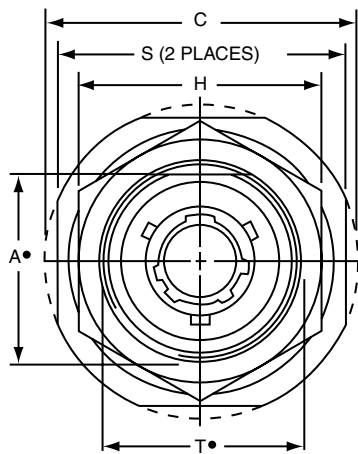
26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

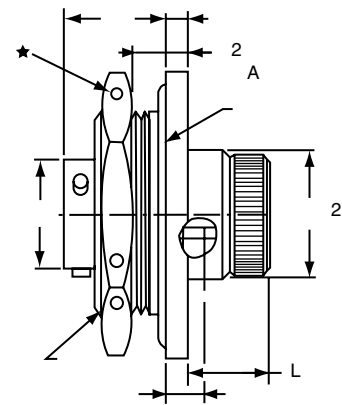
22992  
Class 1

Back-  
Shells

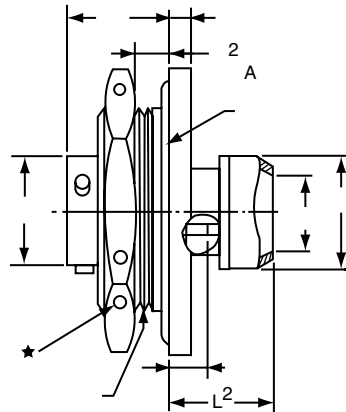
Options  
Others



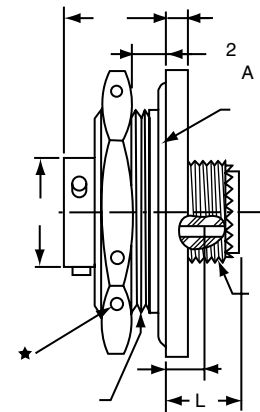
\* JT07RE-XX-XXX (SR)  
\*\*\* JTS07RE-XX-XXX (SR)  
\*\*\*\* JTN07RE-XX-XXX (SR)



\* JT07RE-XX-XXX (MS27474E)  
\*\*\* JTS07RE-XX-XXX  
\*\*\*\* JTN07RE-XX-XXX



\* JT07RP-XX-XXX (MS27474P)  
\*\*\* JTS07RP-XX-XXX  
\*\*\*\* JTN07RP-XX-XXX



\* JT07RT-XX-XXX (MS27474T)  
\*\*\* JTS07RT-XX-XXX  
\*\*\*\* JTN07RT-XX-XXX

- .059 Dia. Min. 3 lockwire holes.  
Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.
- \* Standard Junior Tri-Lock
- \*\* Panel Thickness
- \*\*\* High temperature version
- \*\*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

| Shell Size | A*<br>+.000<br>-.010 | C<br>Max. | F Dia.<br>+.010<br>-.025 | F' Dia. | H Hex<br>+.017<br>-.016 | L<br>Max. | L' Max. | L <sup>2</sup> Max. | L <sup>3</sup> Max. | M<br>±.005 | N Dia.<br>+.001<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | V Thread<br>UNEF<br>Class 2A | Z<br>±.031 | KK<br>Max. | KK <sup>1</sup><br>Dia.<br>Max. | KK <sup>2</sup><br>Max. | RR Thread<br>(Plated)<br>Class 2A |
|------------|----------------------|-----------|--------------------------|---------|-------------------------|-----------|---------|---------------------|---------------------|------------|--------------------------|------------|----------------------|------------------------------|------------|------------|---------------------------------|-------------------------|-----------------------------------|
| 8          | .830                 | 1.390     | .125                     | .444    | 1.062                   | .484      | .453    | .563                | 1.047               | .438       | .473                     | 1.250      | .884                 | .4375-28                     | .144       | .812       | .625                            | .578                    | .8750-20UNEF                      |
| 10         | .955                 | 1.515     | .188                     | .558    | 1.188                   | .484      | .453    | .563                | 1.047               | .438       | .590                     | 1.375      | 1.007                | .5625-24                     | .144       | .875       | .750                            | .703                    | 1.0000-20UNEF                     |
| 12         | 1.084                | 1.640     | .312                     | .683    | 1.312                   | .484      | .453    | .563                | 1.047               | .438       | .750                     | 1.500      | 1.134                | .6875-24                     | .144       | 1.000      | .875                            | .828                    | 1.1250-18UNEF                     |
| 14         | 1.208                | 1.765     | .375                     | .808    | 1.438                   | .484      | .453    | .563                | 1.297               | .438       | .875                     | 1.625      | 1.259                | .8125-20                     | .144       | 1.125      | 1.000                           | .953                    | 1.2500-18UNEF                     |
| 16         | 1.333                | 1.953     | .500                     | .909    | 1.562                   | .484      | .453    | .563                | 1.297               | .438       | 1.000                    | 1.781      | 1.384                | .9375-20                     | .144       | 1.188      | 1.125                           | 1.078                   | 1.3750-18UNEF                     |
| 18         | 1.459                | 2.031     | .625                     | 1.034   | 1.688                   | .484      | .453    | .563                | 1.297               | .438       | 1.125                    | 1.890      | 1.507                | 1.0625-18                    | .144       | 1.438      | 1.250                           | 1.203                   | 1.5000-18UNEF                     |
| 20         | 1.576                | 2.156     | .625                     | 1.159   | 1.812                   | .453      | .422    | .531                | 1.266               | .464       | 1.250                    | 2.016      | 1.634                | 1.1875-18                    | .188       | 1.438      | 1.375                           | 1.328                   | 1.6250-18UNEF                     |
| 22         | 1.701                | 2.280     | .750                     | 1.284   | 2.000                   | .453      | .422    | .531                | 1.391               | .464       | 1.375                    | 2.140      | 1.759                | 1.3125-18                    | .188       | 1.625      | 1.500                           | 1.453                   | 1.7500-18UNS                      |
| 24         | 1.826                | 2.405     | .800                     | 1.409   | 2.125                   | .375      | .422    | .609                | 1.391               | .464       | 1.500                    | 2.265      | 1.884                | 1.4375-18                    | .188       | 1.719      | 1.625                           | 1.578                   | 1.8750-16UN                       |

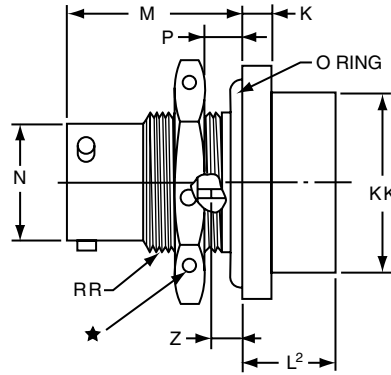
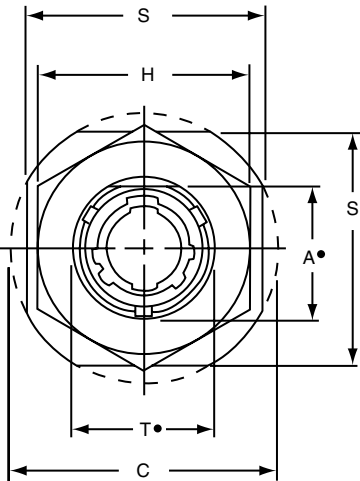
All dimensions for reference only.

38999

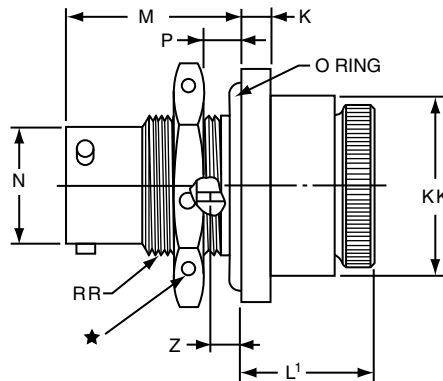
### PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

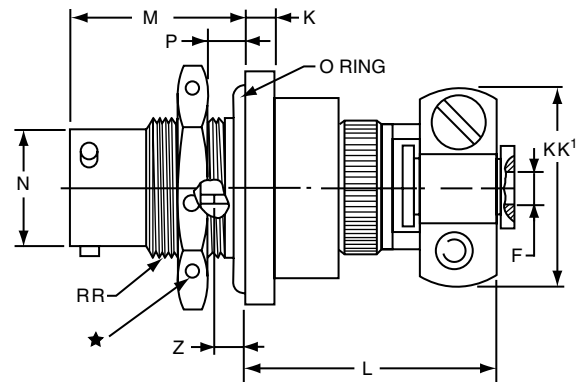
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JTL/JTLS/JTLN  | 07          | RP            | 22-2                     | P            | A                  | (XXX)              |



\* JTL07RP-XX-XXX  
\*\*\* JTLS07RP-XX-XXX  
\*\*\*\* JTLN07RP-XX-XXX



\* JTL07RE-XX-XXX  
\*\*\* JTLS07RE-XX-XXX  
\*\*\*\* JTLN07RE-XX-XXX



\* JTL07RE-XX-XXX (SR)  
\*\*\* JTLS07RE-XX-XXX (SR)  
\*\*\*\* JTLN07RE-XX-XXX (SR)

□ .059 Dia. Min. 3 lockwire holes.

Formed lockwire hole design (6 holes) is optional.

• "D" shaped mounting hole dimensions.

\* Miniature mounting dimensions

\*\*\* High temperature version

\*\*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant

| Shell Size | A*<br>+.000<br>-.010 | C<br>Max. | F Dia.<br>+.010<br>-.025 | H Hex<br>+.017<br>-.016 | K<br>+.011<br>-.010 | L<br>Max. | L¹<br>Max. | L²<br>Max. | M<br>±.005 | N Dia.<br>+.001<br>-.005 | P Panel Thickness |      | S<br>±.016 | T*<br>+.010<br>-.000 | Z<br>±.026 | KK Dia.<br>Max. | KK¹<br>Max. | RR Thread<br>Class 2A |
|------------|----------------------|-----------|--------------------------|-------------------------|---------------------|-----------|------------|------------|------------|--------------------------|-------------------|------|------------|----------------------|------------|-----------------|-------------|-----------------------|
|            |                      |           |                          |                         |                     |           |            |            |            |                          | Min.              | Max. |            |                      |            |                 |             |                       |
| 8          | .542                 | 1.077     | .125                     | .750                    | .125                | 1.062     | .641       | .375       | .630       | .473                     | .062              | .125 | .938       | .572                 | .047       | .688            | .812        | .5625-24UNEF          |
| 10         | .669                 | 1.203     | .188                     | .875                    | .125                | 1.062     | .641       | .375       | .630       | .590                     | .062              | .125 | 1.062      | .697                 | .047       | .812            | .875        | .6875-24UNEF          |
| 12         | .830                 | 1.390     | .312                     | 1.062                   | .125                | 1.062     | .641       | .375       | .630       | .750                     | .062              | .125 | 1.250      | .844                 | .047       | .938            | 1.000       | .8750-20UNEF          |
| 14         | .955                 | 1.515     | .375                     | 1.188                   | .125                | 1.062     | .641       | .375       | .630       | .875                     | .062              | .125 | 1.375      | 1.007                | .047       | 1.062           | 1.125       | 1.0000-20UNEF         |
| 16         | 1.084                | 1.640     | .500                     | 1.312                   | .125                | 1.062     | .641       | .375       | .630       | 1.000                    | .062              | .125 | 1.500      | 1.134                | .047       | 1.188           | 1.188       | 1.1250-18UNEF         |
| 18         | 1.208                | 1.765     | .625                     | 1.438                   | .125                | 1.062     | .641       | .375       | .630       | 1.125                    | .062              | .125 | 1.625      | 1.259                | .047       | 1.312           | 1.438       | 1.2500-18UNEF         |
| 20         | 1.333                | 1.953     | .625                     | 1.562                   | .156                | 1.062     | .703       | .328       | .755       | 1.250                    | .062              | .250 | 1.812      | 1.384                | .172       | 1.469           | 1.438       | 1.3750-18UNEF         |
| 22         | 1.459                | 2.075     | .750                     | 1.688                   | .156                | 1.062     | .703       | .328       | .755       | 1.375                    | .062              | .250 | 1.938      | 1.507                | .172       | 1.594           | 1.625       | 1.5000-18UNEF         |
| 24         | 1.575                | 2.203     | .800                     | 1.812                   | .156                | 1.062     | .703       | .328       | .755       | 1.500                    | .062              | .250 | 2.062      | 1.634                | .172       | 1.719           | 1.719       | 1.6250-18UNEF         |

All dimensions for reference only.

# JT08R (MS27500) Series II – Crimp

90° Plug

## PART #

Commercial

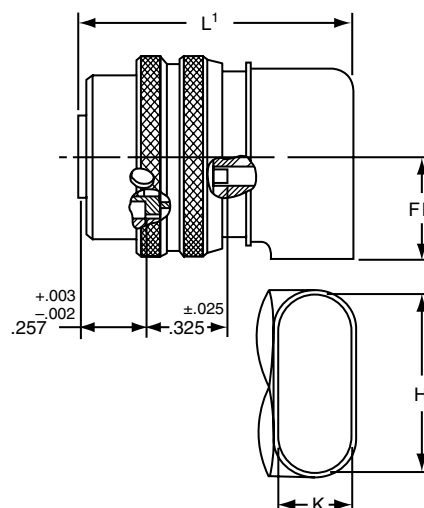
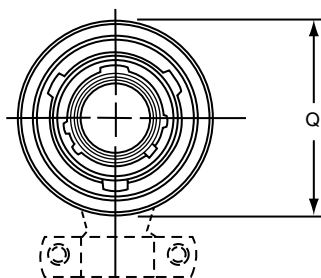
Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS/JTN     | 08          | RP            | 22-2                     | P            | A                  | (XXX)              |

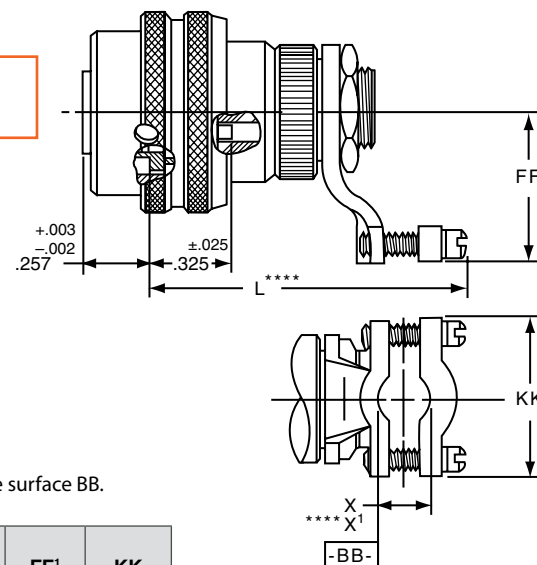
Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27500   | E             | 14         | A      | 18          | P                      | A                  |

\* JT08RP-XX-XXX  
\*\* JTS08RP-XX-XXX  
\*\*\* JTN08RP-XX-XXX



\* JT08RE-XX-XXX (MS27500E)  
\*\* JTS08RE-XX-XXX  
\*\*\* JTN08RE-XX-XXX



- \* Standard Junior Tri-Lock
- \*\* High temperature version
- \*\*\* Clear iridite finish (gold color), N<sub>2</sub>O<sub>4</sub> resistant
- \*\*\*\*Dimensions L and X' are applicable when the end of the screw is flush with the surface BB.

| Shell Size | H ±.010 | K ±.010 | L Max. | L' Max. | Q Dia. Max. | X Min. Cable | X' Max. Cable | FF Max. | FF' Max. | KK Max. |
|------------|---------|---------|--------|---------|-------------|--------------|---------------|---------|----------|---------|
| 8          | .547    | .156    | 1.578  | 1.125   | .734        | .082         | .234          | .438    | .984     | .755    |
| 10         | .709    | .188    | 1.578  | 1.156   | .844        | .082         | .234          | .516    | 1.016    | .755    |
| 12         | .829    | .281    | 1.656  | 1.250   | 1.016       | .114         | .328          | .594    | 1.078    | .817    |
| 14         | 1.000   | .438    | 1.844  | 1.406   | 1.141       | .176         | .457          | .656    | 1.203    | .943    |
| 16         | 1.021   | .500    | 2.000  | 1.469   | 1.265       | .238         | .634          | .719    | 1.265    | 1.067   |
| 18         | 1.145   | .562    | 2.046  | 1.531   | 1.391       | .208         | .614          | .781    | 1.328    | 1.149   |
| 20         | 1.270   | .625    | 2.125  | 1.594   | 1.500       | .302         | .608          | .844    | 1.359    | 1.399   |
| 22         | 1.395   | .688    | 2.250  | 1.656   | 1.625       | .302         | .823          | .906    | 1.421    | 1.399   |
| 24         | 1.520   | .750    | 2.422  | 1.797   | 1.750       | .332         | .853          | .969    | 1.703    | 1.587   |

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class L

Back-  
Shells

Options  
Others

38999

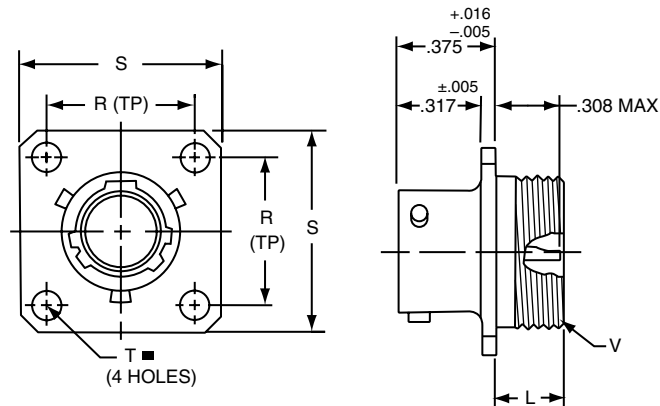
### PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS         | 00          | H             | 22-2                     | P            | A                  | (XXX)              |

### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27475   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27482   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27476   | Y             | 14         | A      | 18          | P                      | A                  |



⊕ .005 DIA (M)

- \* Standard Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

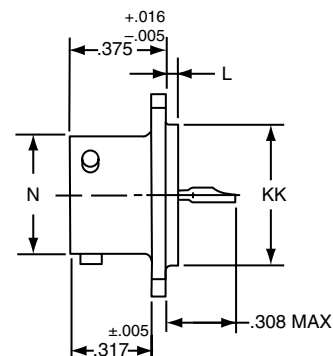
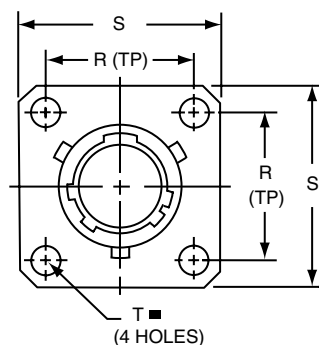
\* JT00H-XX-XXX  
\*\* JT00Y-XX-XXX (MS27475YXXDXXX)  
\*\*\* JTS00Y-XX-XXX (MS27482YXXEXXX)

| Shell Size | L Max. | N +.001 - .005 | R (TP) | S ±.016 | T ±.005 | V Thread Class 2A |
|------------|--------|----------------|--------|---------|---------|-------------------|
| 8          | .234   | .473           | .594   | .812    | .120    | .5625-24UNEF      |
| 10         | .234   | .590           | .719   | .938    | .120    | .6875-24UNEF      |
| 12         | .234   | .750           | .812   | 1.031   | .120    | .8125-20UNEF      |
| 14         | .234   | .875           | .906   | 1.125   | .120    | .9375-20UNEF      |
| 16         | .234   | 1.000          | .969   | 1.219   | .120    | 1.0625-18UNEF     |
| 18         | .234   | 1.125          | 1.062  | 1.312   | .120    | 1.1875-18UNEF     |
| 20         | .234   | 1.250          | 1.156  | 1.438   | .120    | 1.3125-18UNEF     |
| 22         | .234   | 1.375          | 1.250  | 1.562   | .120    | 1.4375-18UNEF     |
| 24         | .313   | 1.500          | 1.375  | 1.688   | .147    | 1.5625-18UNEF     |

## JT02 (MS27476) Series II – Hermetic Box Mounting Receptacle

⊕ .005 DIA (M)

- \* Standard Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

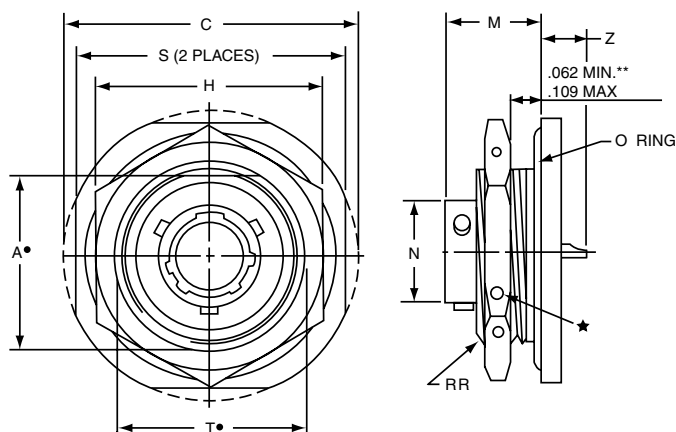


\* JT02H-XX-XXX  
\*\* JT02Y-XX-XXX (MS27476YXXDXXX)  
\*\*\* JTS02Y-XX-XXX (MS27476YXXEXXX)

| Shell Size | L +.006 - .015 | N +.001 - .005 | R (TP) | S ±.016 | T ±.005 | KK +.001 - .005 |
|------------|----------------|----------------|--------|---------|---------|-----------------|
| 8          | .051           | .473           | .594   | .812    | .120    | .562            |
| 10         | .051           | .590           | .719   | .938    | .120    | .672            |
| 12         | .051           | .750           | .812   | 1.031   | .120    | .781            |
| 14         | .051           | .875           | .906   | 1.125   | .120    | .906            |
| 16         | .051           | 1.000          | .969   | 1.219   | .120    | 1.031           |
| 18         | .051           | 1.125          | 1.062  | 1.312   | .120    | 1.156           |
| 20         | .051           | 1.250          | 1.156  | 1.438   | .120    | 1.250           |
| 22         | .080           | 1.375          | 1.250  | 1.562   | .120    | 1.375           |
| 24         | .080           | 1.500          | 1.375  | 1.688   | .147    | 1.500           |

All dimensions for reference only.

# JT07 (MS27477) Series II – Hermetic Jam Nut Receptacle



- \* Standard Junior Tri-Lock
- .059 Dia. Min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.
- \*\* Panel Thickness
- \*\*\* Interfacial seal wafer
- \*\*\*\*High temperature version, interfacial seal wafer with stainless steel shell

## PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTS         | 07          | H             | 22-2                     | P            | A                  | (XXX)              |

## Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27477   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27483   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27478   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27503   | Y             | 14         | A      | 18          | P                      | A                  |

- \* JT07H-XX-XXX
- \*\*\* JT07Y-XX-XX (MS27477YXXDXXX)
- \*\*\*\* JTS07Y-XX-XXX (MS27483YXXEXXX)

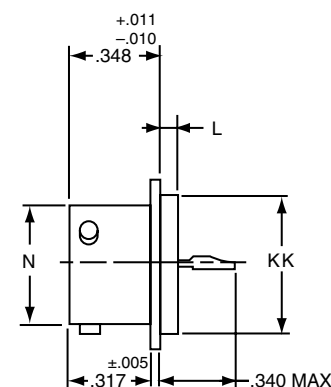
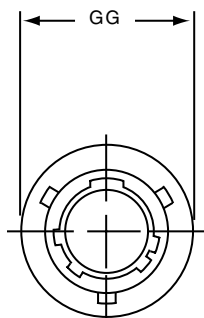
| Shell Size | A*<br>+.000<br>-.010 | C<br>Max. | H<br>+.017<br>-.016 | M<br>±.005 | N<br>+.001<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | Z Max. | RR Thread<br>Class 2A |
|------------|----------------------|-----------|---------------------|------------|---------------------|------------|----------------------|--------|-----------------------|
| 8          | .830                 | 1.390     | 1.062               | .438       | .473                | 1.250      | .884                 | .244   | .8750-20UNEF          |
| 10         | .955                 | 1.515     | 1.188               | .438       | .590                | 1.375      | 1.007                | .244   | 1.0000-20UNEF         |
| 12         | 1.084                | 1.640     | 1.312               | .438       | .750                | 1.500      | 1.134                | .244   | 1.1250-18UNEF         |
| 14         | 1.208                | 1.765     | 1.438               | .438       | .875                | 1.625      | 1.259                | .244   | 1.2500-18UNEF         |
| 16         | 1.333                | 1.953     | 1.562               | .438       | 1.000               | 1.781      | 1.384                | .244   | 1.3750-18UNEF         |
| 18         | 1.459                | 2.031     | 1.688               | .438       | 1.125               | 1.890      | 1.507                | .244   | 1.5000-18UNEF         |
| 20         | 1.576                | 2.156     | 1.812               | .464       | 1.250               | 2.016      | 1.634                | .218   | 1.6250-18UNEF         |
| 22         | 1.701                | 2.280     | 2.000               | .464       | 1.375               | 2.140      | 1.759                | .218   | 1.7500-18UNS          |
| 24         | 1.826                | 2.405     | 2.125               | .464       | 1.500               | 2.265      | 1.884                | .218   | 1.8750-16UN           |

# JTI (MS27478) Series II – Hermetic Solder Mounting Receptacle

- \* Standard Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

- \* JTIH-XX-XXX
- \*\* JTIY-XX-XX (MS27478YXXDXXX)
- \*\*\* JTSIY-XX-XXX (MS27503YXXEXXX)

| Shell Size | L<br>+.011<br>-.010 | N<br>+.001<br>-.005 | GG<br>+.011<br>-.010 | KK<br>+.001<br>-.005 |
|------------|---------------------|---------------------|----------------------|----------------------|
| 8          | .078                | .473                | .687                 | .562                 |
| 10         | .078                | .590                | .797                 | .672                 |
| 12         | .078                | .750                | .906                 | .781                 |
| 14         | .078                | .875                | 1.031                | .906                 |
| 16         | .078                | 1.000               | 1.156                | 1.031                |
| 18         | .078                | 1.125               | 1.281                | 1.156                |
| 20         | .078                | 1.250               | 1.375                | 1.250                |
| 22         | .107                | 1.375               | 1.500                | 1.375                |
| 24         | .107                | 1.500               | 1.625                | 1.500                |



All dimensions for reference only.  
Weld mounting hermetic receptacle also available.  
Consult Amphenol Aerospace for availability and dimensions.

All dimensions for reference only.



38999

### PART #

Commercial

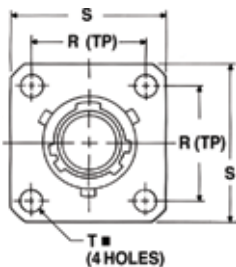
Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTN         | 00          | P             | 22-2                     | P            | A                  | (XXX)              |

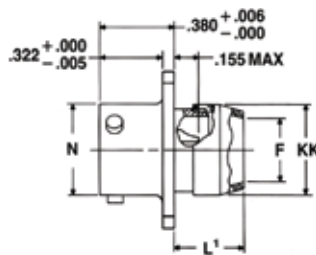
### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27334   | P             | 14         | A      | 18          | P                      | A                  |
| MS27335   | T             | 14         | A      | 18          | P                      | A                  |

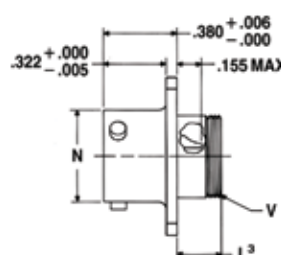
Military qualified to MIL-DTL-27599



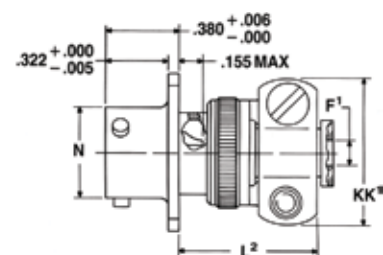
⊕ .005 DIA (M)



\*JT00P-XX-XXX (MS27334P)  
\*JT00P-XX-XXX



\*JT00A-XX-XXX  
\*JT00C-XX-XXX (MS27334T)  
\*JT00A-XX-XXX  
\*JT00C-XX-XXX



\*JT00A-XX-XXX(SR)  
\*JT00A-XX-XXX(SR)  
\*JT00C-XX-XXX(SR)

\* Standard Junior Tri-Lock

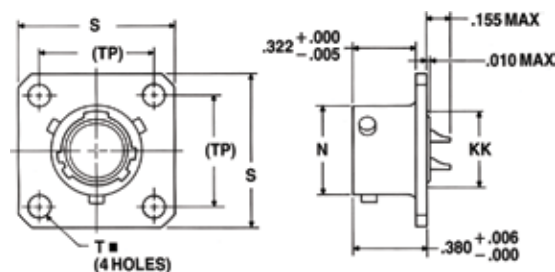
NOTE: For availability of back panel mounting types, consult Amphenol Aerospace.

| Shell Size | F Dia. Min. | F¹ +.010 / -.025 | L¹ Max. | L² Max. | L³ Max. | N +.001 / -.005 | R (TP) | S ±.016 | T ±.005 | V Thread Modified |                     | KK Dia. Max. | KK¹ Max. |
|------------|-------------|------------------|---------|---------|---------|-----------------|--------|---------|---------|-------------------|---------------------|--------------|----------|
|            |             |                  |         |         |         |                 |        |         |         | Size Class 2A     | Modified Major Dia. |              |          |
| 8          | .312        | .125             | .422    | .734    | .234    | .473            | .594   | .812    | .120    | .4375-28UNEF      | .421 - .417         | .500         | .812     |
| 10         | .429        | .188             | .422    | .734    | .234    | .590            | .719   | .938    | .120    | .5625-24UNEF      | .542 - .538         | .625         | .875     |
| 12         | .543        | .312             | .422    | .734    | .234    | .750            | .812   | 1.031   | .120    | .6875-24UNEF      | .667 - .663         | .750         | 1.000    |
| 14         | .668        | .375             | .422    | .797    | .234    | .875            | .906   | 1.125   | .120    | .8125-20UNEF      | .791 - .787         | .875         | 1.125    |
| 16         | .793        | .500             | .422    | .797    | .234    | 1.000           | .969   | 1.219   | .120    | .9375-20UNEF      | .916 - .912         | 1.000        | 1.188    |
| 18         | .894        | .625             | .422    | .797    | .234    | 1.125           | 1.062  | 1.312   | .120    | 1.0625-18UNEF     | 1.034 - 1.030       | 1.109        | 1.438    |
| 20         | 1.019       | .625             | .422    | .859    | .234    | 1.250           | 1.156  | 1.438   | .120    | 1.1875-18UNEF     | 1.158 - 1.154       | 1.234        | 1.438    |
| 22         | 1.144       | .750             | .422    | .859    | .234    | 1.375           | 1.250  | 1.562   | .120    | 1.3125-18UNEF     | 1.283 - 1.279       | 1.359        | 1.625    |
| 24         | 1.269       | .800             | .422    | .922    | .313    | 1.500           | 1.375  | 1.688   | .147    | 1.4375-18UNEF     | 1.408 - 1.404       | 1.484        | 1.719    |

## JT02 (MS27335) Series II – Solder

Military qualified to MIL-DTL-27599

### Box Mounting Receptacle



\*JT02P-XX-XXX  
\*JT02A-XX-XXX  
\*JT02C-XX-XXX (MS27335T)  
\*JT02P-XX-XXX  
\*JT02A-XX-XXX  
\*JT02C-XX-XXX

⊕ .005 DIA (M)

\* Standard Junior Tri-Lock

NOTE: For availability of back panel mounting types, consult Amphenol Aerospace.

| Shell Size | N +.001 / -.005 | R (TP) | S ±.016 | T ±.005 | KK Max. |
|------------|-----------------|--------|---------|---------|---------|
| 8          | .473            | .594   | .812    | .120    | .391    |
| 10         | .590            | .719   | .938    | .120    | .508    |
| 12         | .750            | .812   | 1.031   | .120    | .622    |
| 14         | .875            | .906   | 1.125   | .120    | .749    |
| 16         | 1.000           | .969   | 1.219   | .120    | .872    |
| 18         | 1.125           | 1.062  | 1.312   | .120    | .976    |
| 20         | 1.250           | 1.156  | 1.438   | .120    | 1.101   |
| 22         | 1.375           | 1.250  | 1.562   | .120    | 1.226   |
| 24         | 1.500           | 1.375  | 1.688   | .147    | 1.351   |

All dimensions for reference only.

# JT06 (MS27336) Series II – Solder Straight Plug

**Military qualified to MIL-DTL-27599**

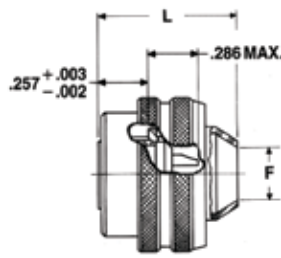
## PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

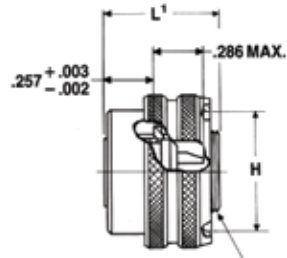
| Connector Type  | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|-----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTN/JTG/JTNG | 06          | A             | 22-2                     | P            | A                  | (XXX)              |

## Military

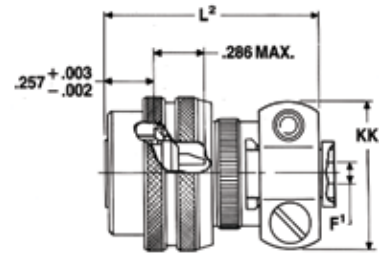
| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27336   | P             | 14         | A      | 18          | P                      | A                  |



\*JT06P-XX-XXX (MS27336P)  
\*JTN06P-XX-XXX



\*JT06A-XX-XXX (MS27336T)  
\*JTN06A-XX-XXX



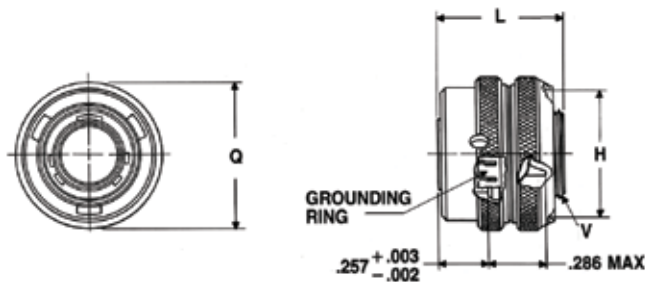
\*JT06A-XX-XXX(SR)  
\*JTN06A-XX-XXX(SR)

\*Standard Junior Tri-Lock

| Shell Size | F Min. | F <sup>1</sup> +.010 - .025 | H +.010 - .001 | L Max. | L <sup>1</sup> Max. | L <sup>2</sup> Max. | Q Max. | V Thread Modified |                     | KK Max. |
|------------|--------|-----------------------------|----------------|--------|---------------------|---------------------|--------|-------------------|---------------------|---------|
|            |        |                             |                |        |                     |                     |        | Size Class 2A     | Modified Major Dia. |         |
| 8          | .312   | .125                        | .635           | .812   | .625                | 1.109               | .734   | .4375-28UNEF      | .421 - .417         | .812    |
| 10         | .429   | .188                        | .734           | .812   | .625                | 1.109               | .844   | .5625-24UNEF      | .542 - .538         | .875    |
| 12         | .543   | .312                        | .870           | .812   | .625                | 1.109               | 1.016  | .6875-24UNEF      | .667 - .663         | 1.000   |
| 14         | .668   | .375                        | .996           | .812   | .625                | 1.172               | 1.141  | .8125-20UNEF      | .791 - .787         | 1.125   |
| 16         | .793   | .500                        | 1.122          | .828   | .625                | 1.172               | 1.265  | .9375-20UNEF      | .916 - .912         | 1.188   |
| 18         | .894   | .625                        | 1.246          | .828   | .625                | 1.172               | 1.391  | 1.0625-18UNEF     | 1.034 - 1.030       | 1.438   |
| 20         | 1.019  | .625                        | 1.372          | .828   | .625                | 1.234               | 1.500  | 1.1875-18UNEF     | 1.158 - 1.154       | 1.438   |
| 22         | 1.144  | .750                        | 1.496          | .828   | .625                | 1.234               | 1.625  | 1.3125-18UNEF     | 1.283 - 1.279       | 1.625   |
| 24         | 1.269  | .800                        | 1.622          | .906   | .688                | 1.297               | 1.750  | 1.4375-18UNEF     | 1.408 - 1.404       | 1.719   |

**Military qualified to MIL-DTL-27599**

## JTG06A Series II – Solder Straight Plug (With Grounding Ring)



\*JTG06A-XX-XXX  
\*\*JTN06A-XX-XXX

\* Plug with grounding fingers

\*\* Coupling nut is clear iridite finish (gold color), shell and grounding fingers are gold plated N<sub>2</sub>O<sub>4</sub> resistant.

| Shell Size | H Dia. +.010 - .001 | L Max. | Q Dia. Max. | V Thread Modified |                     |
|------------|---------------------|--------|-------------|-------------------|---------------------|
|            |                     |        |             | Size Class 2A     | Modified Major Dia. |
| 8          | .635                | .625   | .734        | .4375-28UNEF      | .421 - .417         |
| 10         | .734                | .625   | .844        | .5625-24UNEF      | .542 - .538         |
| 12         | .870                | .625   | 1.016       | .6875-24UNEF      | .667 - .663         |
| 14         | .996                | .625   | 1.141       | .8125-20UNEF      | .791 - .787         |
| 16         | 1.122               | .625   | 1.265       | .9375-20UNEF      | .916 - .912         |
| 18         | 1.246               | .625   | 1.391       | 1.0625-18UNEF     | 1.034 - 1.030       |
| 20         | 1.372               | .625   | 1.500       | 1.1875-18UNEF     | 1.158 - 1.154       |
| 22         | 1.496               | .625   | 1.625       | 1.3125-18UNEF     | 1.283 - 1.279       |
| 24         | 1.622               | .688   | 1.750       | 1.4375-18UNEF     | 1.408 - 1.404       |

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear Release Matrix

22992  
Class 1

Back-Shell

Options  
Others

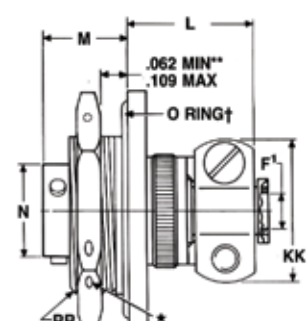
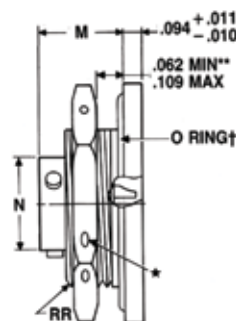
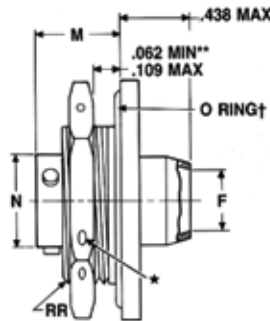
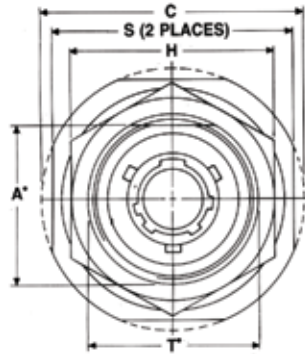
38999

### PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| JT/JTN         | 07          | A             | 22-2                     | P            | A                  | (XXX)              |

Military qualified to MIL-DTL-27599



- \* .059 dia. min. 3 lockwire holes
- \* "D" shaped mounting hole dimensions.
- \* Standard Junior Tri-Lock
- \*\* Panel thickness
- † O Ring not furnished with MS27337

\*JT07P-XX-XXX (MS27337P)  
\*JT07P-XX-XXX

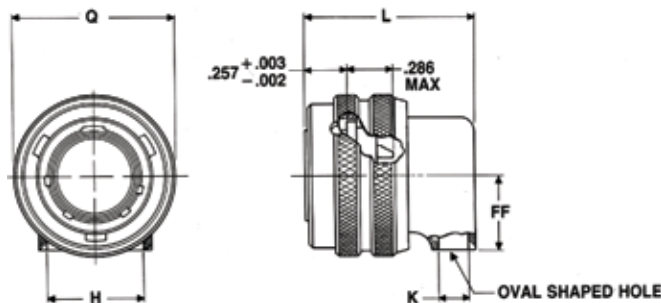
\*JT07A-XX-XXX  
\*JT07C-XX-XXX  
\*JTN07A-XX-XXX  
\*JTN07C-XX-XXX

\*JT07A-XX-XXX(SR)  
\*JTN07A-XX-XXX(SR)  
\*JTN07C-XX-XXX(SR)

| Shell Size | A*<br>+.000<br>-.010 | C<br>Max. | F<br>Min. | F1<br>+.010<br>-.025 | H<br>+.017<br>-.016 | L<br>Max. | M<br>±.005 | N<br>+.001<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | KK<br>Max. | RR<br>Thread<br>Class 2A |
|------------|----------------------|-----------|-----------|----------------------|---------------------|-----------|------------|---------------------|------------|----------------------|------------|--------------------------|
| 8          | .830                 | 1.390     | .312      | .125                 | 1.062               | .666      | .438       | .473                | 1.250      | .884                 | .812       | .8750-20UNEF             |
| 10         | .955                 | 1.515     | .429      | .188                 | 1.188               | .666      | .438       | .590                | 1.375      | 1.007                | .875       | 1.0000-20UNEF            |
| 12         | 1.084                | 1.640     | .543      | .312                 | 1.312               | .666      | .438       | .750                | 1.500      | 1.134                | 1.000      | 1.1250-18UNEF            |
| 14         | 1.208                | 1.765     | .668      | .375                 | 1.438               | .729      | .438       | .875                | 1.625      | 1.259                | 1.125      | 1.2500-18UNEF            |
| 16         | 1.333                | 1.953     | .793      | .500                 | 1.562               | .729      | .438       | 1.000               | 1.781      | 1.384                | 1.188      | 1.3750-18UNEF            |
| 18         | 1.459                | 2.031     | .894      | .625                 | 1.688               | .729      | .438       | 1.125               | 1.890      | 1.507                | 1.438      | 1.5000-18UNEF            |
| 20         | 1.576                | 2.156     | 1.019     | .625                 | 1.812               | .765      | .464       | 1.250               | 2.016      | 1.634                | 1.438      | 1.6250-18UNEF            |
| 22         | 1.701                | 2.280     | 1.144     | .750                 | 2.000               | .765      | .464       | 1.375               | 2.140      | 1.759                | 1.625      | 1.7500-18UNS             |
| 24         | 1.826                | 2.405     | 1.269     | .800                 | 2.125               | .828      | .464       | 1.500               | 2.265      | 1.884                | 1.719      | 1.8750-16UN              |

## JT08 Series II – Solder 90° Plug

Military qualified to MIL-DTL-27599



\*JT08P-XX-XXX  
\*JTN08P-XX-XXX

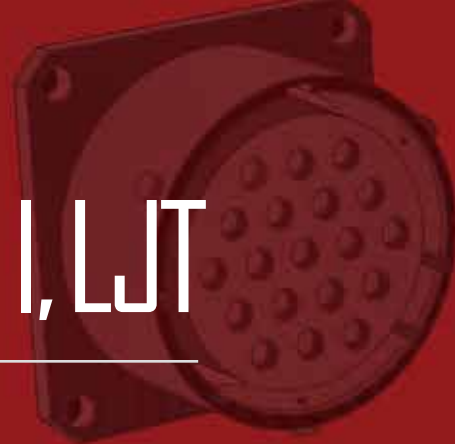
\*To complete order number see page 62.

| Shell Size | H<br>Min. | K<br>Min. | L<br>Max. | Q<br>Max. | FF<br>Max. |
|------------|-----------|-----------|-----------|-----------|------------|
| 8          | .396      | .126      | .891      | .734      | .391       |
| 10         | .532      | .141      | .906      | .844      | .438       |
| 12         | .694      | .173      | .938      | 1.016     | .516       |
| 14         | .814      | .266      | 1.031     | 1.141     | .594       |
| 16         | .985      | .423      | 1.188     | 1.265     | .656       |
| 18         | 1.006     | .485      | 1.250     | 1.391     | .719       |
| 20         | 1.130     | .547      | 1.312     | 1.500     | .781       |
| 22         | 1.255     | .610      | 1.375     | 1.625     | .844       |
| 24         | 1.380     | .673      | 1.516     | 1.750     | .906       |

All dimensions for reference only.

# Amphenol

## MIL-DTL-38999, Series I, LJT



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### MIL-DTL-38999 Series I Typical Markets:

- Military & Commercial Aviation
- Military Vehicles
- Missiles & Ordnance
- C4ISR

**Amphenol**  
Aerospace

38999

### PART #

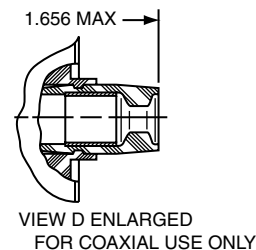
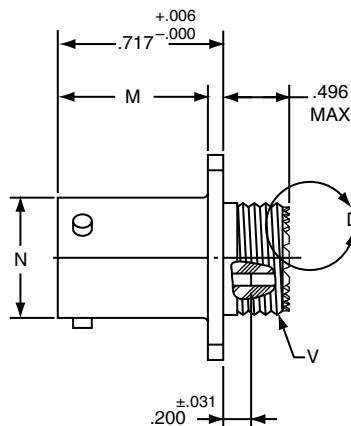
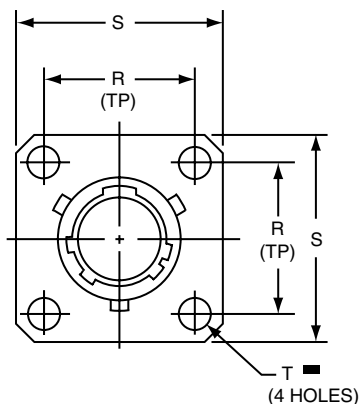
#### Commercial

Part number reference. To complete, see how to order pages 62-66.

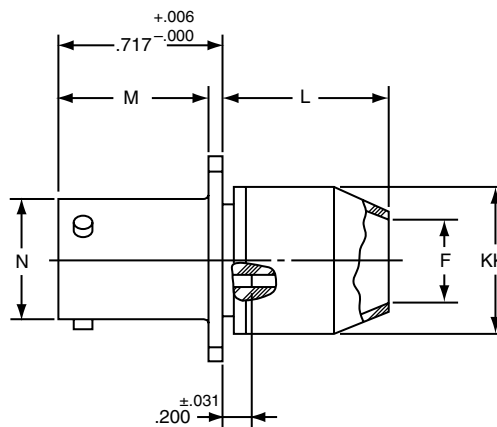
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 00          | RE            | 22-2                     | P            | A                  | (XXX)              |

#### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27466   | E             | 14         | A      | 18          | P                      | A                  |



LJT00RE-XX-XXX (MS27466E)  
LJT00RT-XX-XXX (MS27466T)



LJT00RP-XX-XXX (MS27466P)

⊕ .005 DIA ⊗

| Shell Size | F Dia. ±.010 | L Max. | M +.000 - .005 | N +.001 - .005 | R (TP) | S ±.016 | T Dia. ±.005 | V Thread Class 2A (Plated) | KK Dia. Max |
|------------|--------------|--------|----------------|----------------|--------|---------|--------------|----------------------------|-------------|
| 9          | .444         | .813   | .632           | .572           | .719   | .938    | .128         | .4375-28 UNEF              | .608        |
| 11         | .558         | .813   | .632           | .700           | .812   | 1.031   | .128         | .5625-24 UNEF              | .734        |
| 13         | .683         | .813   | .632           | .850           | .906   | 1.125   | .128         | .6875-24 UNEF              | .858        |
| 15         | .808         | .813   | .632           | .975           | .969   | 1.219   | .128         | .8125-20 UNEF              | .984        |
| 17         | .909         | .813   | .632           | 1.100          | 1.062  | 1.312   | .128         | .9375-20 UNEF              | 1.110       |
| 19         | 1.034        | .813   | .632           | 1.207          | 1.156  | 1.438   | .128         | 1.0625-18 UNEF             | 1.234       |
| 21         | 1.159        | .906   | .602           | 1.332          | 1.250  | 1.562   | .128         | 1.1875-18 UNEF             | 1.360       |
| 23         | 1.284        | .906   | .602           | 1.457          | 1.375  | 1.688   | .147         | 1.3125-18 UNEF             | 1.484       |
| 25         | 1.409        | .906   | .602           | 1.582          | 1.500  | 1.812   | .147         | 1.4375-18 UNEF             | 1.610       |

All dimensions for reference only.



# LJTPQ00R (MS27656) Series I – Crimp

## Wall Mounting Receptacle

(Back Panel Mounting)

### PART #

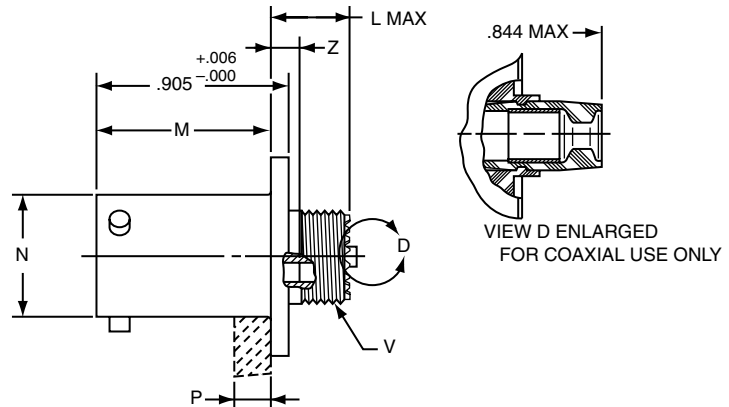
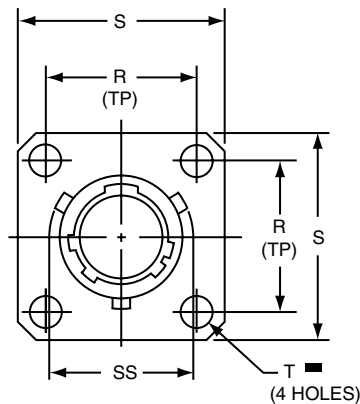
Commercial

Part number reference. To complete, see how to order pages 62-66.

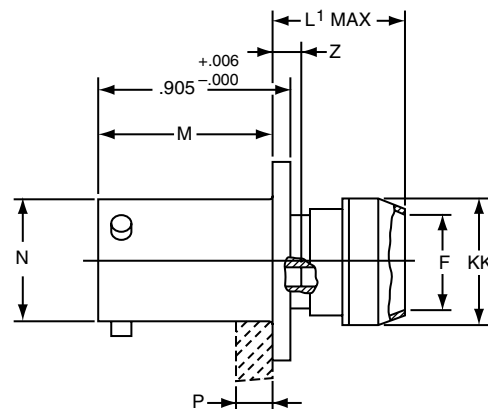
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJTPQ          | 00          | RE            | 22-2                     | P            | A                  | (XXX)              |

### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27656   | E             | 14         | A      | 18          | P                      | A                  |



LJTPQ00RE-XX-XXX (MS27656E)  
LJTPQ00RT-XX-XXX (MS27656T)



LJTPQ00RP-XX-XXX (MS27656P)

⊕ .005 DIA (M)

| Shell Size | F Dia. ±.010 | L Max. | L' Max. | M +.000 - .005 | N Dia. | P Max. Panel Thickness | R (TP) | S ±.011 - .010 | T Dia. ±.005 | V Thread Class 2A (Plated) | Z Max | KK Dia. Max | SS Dia. +.000 - .016 |
|------------|--------------|--------|---------|----------------|--------|------------------------|--------|----------------|--------------|----------------------------|-------|-------------|----------------------|
| 9          | .444         | .453   | .641    | .820           | .572   | .234                   | .719   | .938           | .128         | .4375-28 UNEF              | .138  | .625        | .662                 |
| 11         | .558         | .453   | .641    | .820           | .700   | .234                   | .812   | 1.031          | .128         | .5625-24 UNEF              | .138  | .750        | .810                 |
| 13         | .683         | .453   | .641    | .820           | .850   | .234                   | .906   | 1.125          | .128         | .6875-24 UNEF              | .138  | .875        | .960                 |
| 15         | .808         | .453   | .641    | .820           | .975   | .234                   | .969   | 1.219          | .128         | .8125-20 UNEF              | .138  | 1.000       | 1.085                |
| 17         | .909         | .453   | .641    | .820           | 1.100  | .234                   | 1.062  | 1.312          | .128         | .9375-20 UNEF              | .138  | 1.125       | 1.210                |
| 19         | 1.034        | .453   | .641    | .820           | 1.207  | .234                   | 1.156  | 1.438          | .128         | 1.0625-18 UNEF             | .138  | 1.250       | 1.317                |
| 21         | 1.159        | .484   | .672    | .790           | 1.332  | .204                   | 1.250  | 1.562          | .128         | 1.1875-18 UNEF             | .168  | 1.375       | 1.442                |
| 23         | 1.284        | .484   | .672    | .790           | 1.457  | .204                   | 1.375  | 1.688          | .147         | 1.3125-18 UNEF             | .168  | 1.500       | 1.567                |
| 25         | 1.409        | .484   | .672    | .790           | 1.582  | .193                   | 1.500  | 1.812          | .147         | 1.4375-18 UNEF             | .168  | 1.625       | 1.692                |

All dimensions for reference only.

Note: MS27656 superseded MS 27515.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear Release Matrix

22992  
Class I

Back-  
Shells

Options  
Others

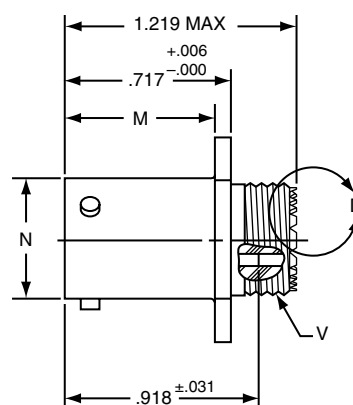
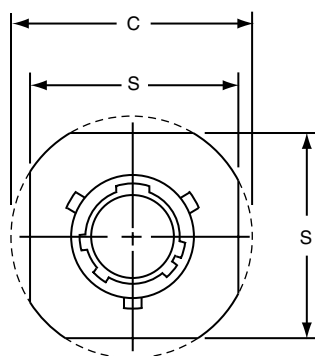


38999

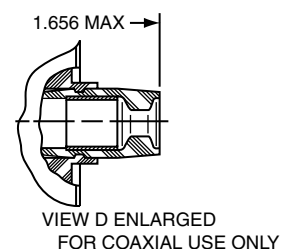
### PART # Commercial

Part number reference. To complete,  
see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 01          | RE            | 22-2                     | P            | A                  | (XXX)              |



LJT01RE-XX-XXX  
LJT01RT-XX-XXX



| Shell Size | C Max. | M +.000<br>-.005 | N +.001<br>-.005 | S ±.016 | V Thread Class 2A<br>(Plated) |
|------------|--------|------------------|------------------|---------|-------------------------------|
| 9          | 1.094  | .632             | .572             | .938    | .4375-28 UNEF                 |
| 11         | 1.188  | .632             | .700             | 1.031   | .5625-24 UNEF                 |
| 13         | 1.281  | .632             | .850             | 1.125   | .6875-24 UNEF                 |
| 15         | 1.375  | .632             | .975             | 1.219   | .8125-20 UNEF                 |
| 17         | 1.469  | .632             | 1.100            | 1.312   | .9375-20 UNEF                 |
| 19         | 1.594  | .632             | 1.207            | 1.438   | 1.0625-18 UNEF                |
| 21         | 1.719  | .602             | 1.332            | 1.562   | 1.1875-18 UNEF                |
| 23         | 1.844  | .602             | 1.457            | 1.688   | 1.3125-18 UNEF                |
| 25         | 1.969  | .602             | 1.582            | 1.812   | 1.4375-18 UNEF                |

All dimensions for reference only.

# LJT02R (MS27496) – Crimp (Box Mount Recept.)

## LJTP02R (MS27505) – Crimp

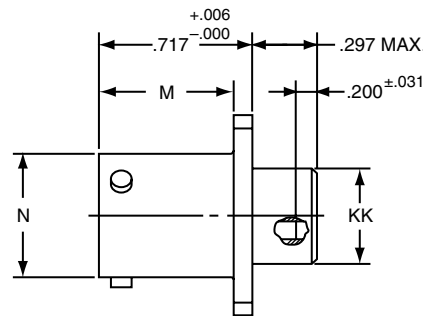
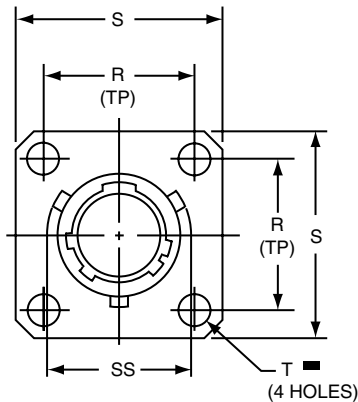
### Box Mounting Receptacle (Back Panel Mounting)

**PART #** Part number reference. To complete, see how to order pages 62-66.  
**Commercial**

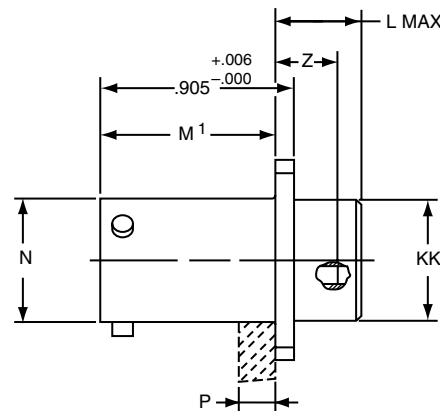
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT/LJTP       | 02          | RE            | 22-2                     | P            | A                  | (XXX)              |

**Military**

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27496   | E             | 14         | A      | 18          | P                      | A                  |
| MS27505   | E             | 14         | A      | 18          | P                      | A                  |



LJT02RE-XX-XXX (MS27496E)



LJTP02RE-XX-XXX (MS27505E)

⊕ .005 DIA (M)

| Shell Size | L Max. | M +.000<br>-.005 | M' +.001<br>-.005 | N Dia +.001<br>-.005 | P Max. Panel Thickness | R (TP) | S +.011<br>-.010 | T Dia. ±.005 | Z ±.031 | KK Dia. +.006<br>-.005 | SS Dia. +.000<br>-.016 |
|------------|--------|------------------|-------------------|----------------------|------------------------|--------|------------------|--------------|---------|------------------------|------------------------|
| 9          | .203   | .632             | .820              | .572                 | .234                   | .719   | .938             | .128         | .107    | .433                   | .662                   |
| 11         | .203   | .632             | .820              | .700                 | .234                   | .812   | 1.031            | .128         | .107    | .557                   | .810                   |
| 13         | .203   | .632             | .820              | .850                 | .234                   | .906   | 1.125            | .128         | .107    | .676                   | .960                   |
| 15         | .203   | .632             | .820              | .975                 | .234                   | .969   | 1.219            | .128         | .107    | .801                   | 1.085                  |
| 17         | .203   | .632             | .820              | 1.100                | .234                   | 1.062  | 1.312            | .128         | .107    | .926                   | 1.210                  |
| 19         | .203   | .632             | .820              | 1.207                | .234                   | 1.156  | 1.438            | .128         | .107    | 1.032                  | 1.317                  |
| 21         | .234   | .602             | .790              | 1.332                | .204                   | 1.250  | 1.562            | .128         | .137    | 1.157                  | 1.442                  |
| 23         | .234   | .602             | .790              | 1.457                | .204                   | 1.375  | 1.688            | .147         | .137    | 1.282                  | 1.567                  |
| 25         | .234   | .602             | .790              | 1.582                | .193                   | 1.500  | 1.812            | .147         | .137    | 1.407                  | 1.692                  |

All dimensions for reference only.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH SPEED

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class L

Back-  
Shells

Options  
Others

38999

### PART #

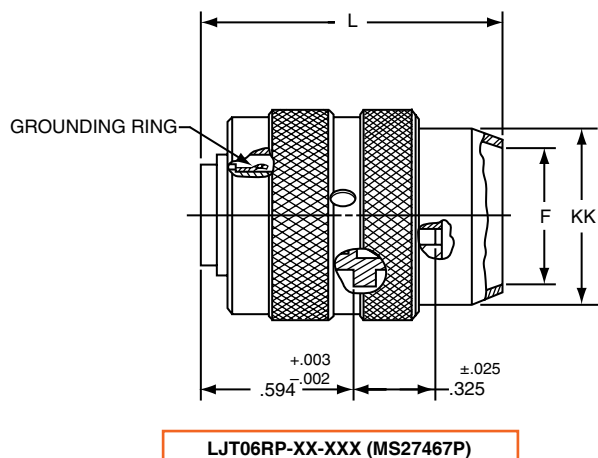
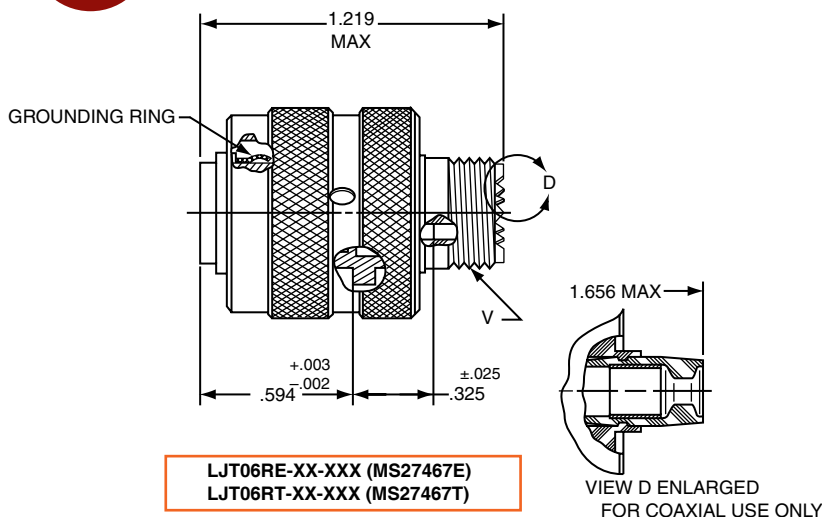
Commercial

Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 06          | RE            | 22-2                     | P            | A                  | (XXX)              |

### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27467   | E             | 14         | A      | 18          | P                      | A                  |



| Shell Size | F Dia. ±.010 | L Max. | Q Max. | V Thread Class 2A (Plated) | KK Dia. Max. |
|------------|--------------|--------|--------|----------------------------|--------------|
| 9          | .444         | 1.531  | .844   | .4375-28 UNEF              | .608         |
| 11         | .528         | 1.531  | .969   | .5625-24 UNEF              | .734         |
| 13         | .683         | 1.531  | 1.141  | .6875-24 UNEF              | .858         |
| 15         | .808         | 1.531  | 1.266  | .8125-20 UNEF              | .984         |
| 17         | .909         | 1.531  | 1.391  | .9375-20 UNEF              | 1.110        |
| 19         | 1.034        | 1.531  | 1.500  | 1.0625-18 UNEF             | 1.234        |
| 21         | 1.159        | 1.625  | 1.625  | 1.1875-18 UNEF             | 1.360        |
| 23         | 1.284        | 1.625  | 1.750  | 1.3125-18 UNEF             | 1.484        |
| 25         | 1.409        | 1.625  | 1.875  | 1.4375-18 UNEF             | 1.610        |

All dimensions for reference only.

# LJT07R (MS27468) Series I – Crimp Jam Nut Receptacle

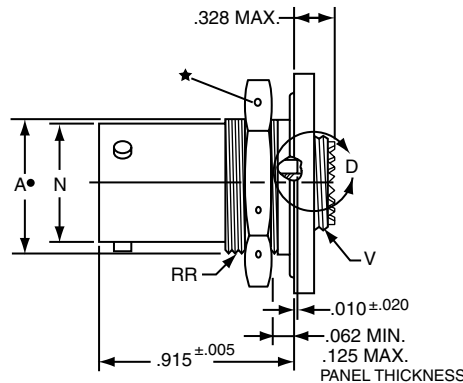
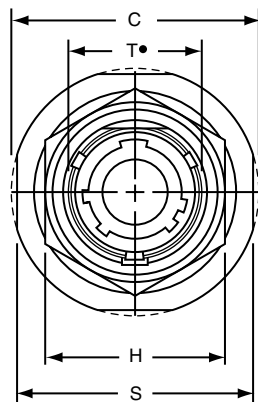
## PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

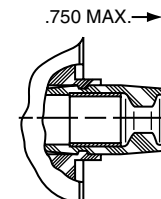
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 07          | RE            | 22-2                     | P            | A                  | (XXX)              |

## Military

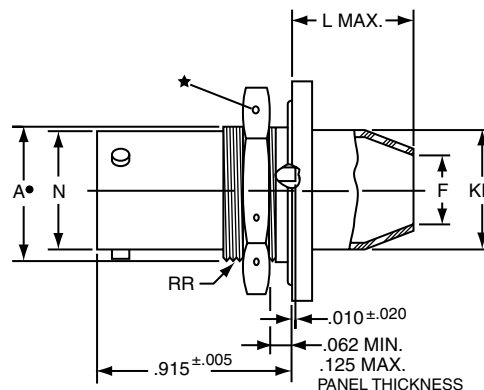
| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27498   | E             | 14         | A      | 18          | P                      | A                  |



LJT07RE-XX-XXX (MS27468E)  
LJT07RT-XX-XXX (MS27468T)



VIEW D ENLARGED  
FOR COAXIAL USE ONLY



LJT07RP-XX-XXX (MS27468P)

- .059 Dia. Min. 3 lockwire holes.
- Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.

| Shell Size | A*<br>+.000<br>-.010 | C Max. | F Dia.<br>±.010 | H Hex<br>+.017<br>-.016 | L<br>Max. | N<br>+.001<br>-.005 | S ±.016 | T*<br>+.010<br>-.000 | V Thread Class 2A<br>(Plated) | KK Dia.<br>Max. | RR Thread<br>Class 2A (Plated) |
|------------|----------------------|--------|-----------------|-------------------------|-----------|---------------------|---------|----------------------|-------------------------------|-----------------|--------------------------------|
| 9          | .669                 | 1.199  | .444            | .875                    | .625      | .572                | 1.062   | .697                 | .4375-28 UNEF                 | .608            | .6875-24 UNEF                  |
| 11         | .769                 | 1.386  | .558            | 1.000                   | .625      | .700                | 1.250   | .822                 | .5625-24 UNEF                 | .734            | .8125-20 UNEF                  |
| 13         | .955                 | 1.511  | .683            | 1.188                   | .625      | .850                | 1.375   | 1.007                | .6875-24 UNEF                 | .858            | 1.0000-20 UNEF                 |
| 15         | 1.084                | 1.636  | .808            | 1.312                   | .625      | .975                | 1.500   | 1.134                | .8125-20 UNEF                 | .984            | 1.1250-18 UNEF                 |
| 17         | 1.208                | 1.761  | .909            | 1.438                   | .625      | 1.100               | 1.625   | 1.259                | .9375-20 UNEF                 | 1.110           | 1.2500-18 UNEF                 |
| 19         | 1.333                | 1.949  | 1.034           | 1.562                   | .656      | 1.207               | 1.812   | 1.384                | 1.0625-18 UNEF                | 1.234           | 1.3750-18 UNEF                 |
| 21         | 1.459                | 2.073  | 1.159           | 1.688                   | .750      | 1.332               | 1.938   | 1.507                | 1.1875-18 UNEF                | 1.360           | 1.5000-18 UNEF                 |
| 23         | 1.580                | 2.199  | 1.284           | 1.812                   | .750      | 1.457               | 2.062   | 1.634                | 1.3125-18 UNEF                | 1.484           | 1.6250-18 UNEF                 |
| 25         | 1.709                | 2.323  | 1.409           | 2.000                   | .750      | 1.582               | 2.188   | 1.759                | 1.4375-18 UNEF                | 1.610           | 1.7500-18 UNS                  |

All dimensions for reference only.

38999

III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

HIGH  
SPEED  
Fiber Optics  
Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2  
83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class I

Back-  
Shells

Options  
Others

38999

|             |
|-------------|
| III         |
| HD          |
| Dualok      |
| II          |
| I           |
| SJT         |
| Accessories |
| Aquacon     |
| Herm/Seal   |
| PCB         |

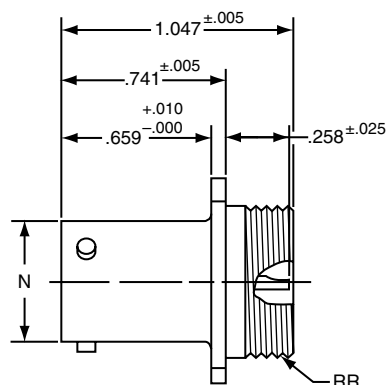
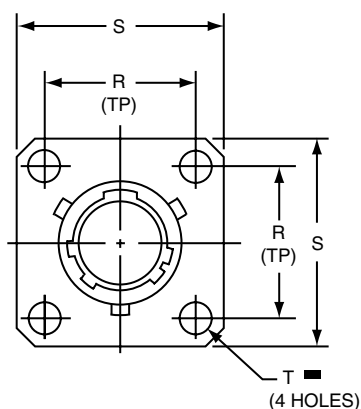
### PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

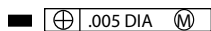
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT/LJTS       | 00          | Y             | 22-2                     | P            | A                  | (XXX)              |

### Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27469   | Y             | 14         | D      | 18          | P                      | A                  |



- \* LJT00H-XX-XXX
- \*\* LJT00Y-XX-XXX (MS27469YXXD)
- \*\*\* LJTS00Y-XX-XXX (MS27469YXXE)



- \* Long Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

| Shell Size | N Dia. +.001<br>-.005 | R (TP) | S ±.016 | T Dia. ±.005 | RR Thread Class 2A |
|------------|-----------------------|--------|---------|--------------|--------------------|
| 9          | .572                  | .719   | .938    | .128         | .6875-24 UNEF      |
| 11         | .700                  | .812   | 1.031   | .128         | .8125-20 UNEF      |
| 13         | .850                  | .906   | 1.125   | .128         | .9375-20 UNEF      |
| 15         | .975                  | .969   | 1.219   | .128         | 1.0625-18 UNEF     |
| 17         | 1.100                 | 1.062  | 1.312   | .128         | 1.1875-18 UNEF     |
| 19         | 1.207                 | 1.156  | 1.438   | .128         | 1.3125-18 UNEF     |
| 21         | 1.332                 | 1.250  | 1.562   | .128         | 1.4375-18 UNEF     |
| 23         | 1.457                 | 1.375  | 1.688   | .147         | 1.5625-18 UNEF     |
| 25         | 1.582                 | 1.500  | 1.812   | .147         | 1.6875-18 UNEF     |

All dimensions for reference only.

HIGH SPEED  
Fiber Optics  
Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

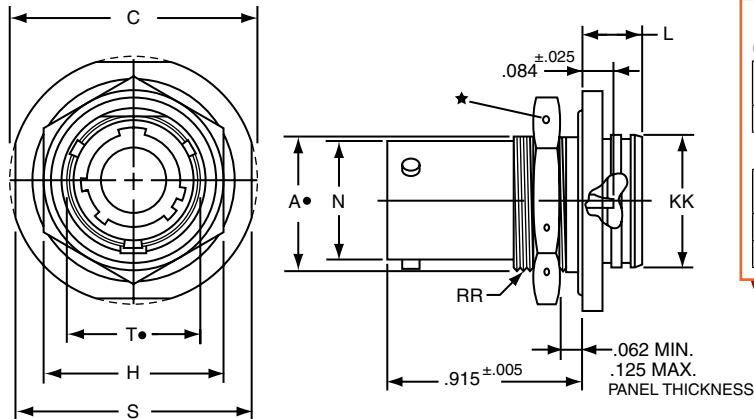
5015  
Crimp Rear Release Matrix

22992  
Class L

Back-  
Shells

Options  
Others

# LJT07 (MS27470) Series I – Hermetic Jam Nut Receptacle



## PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT/LJTS       | H           | RE            | 22-2                     | P            | A                  | (XXX)              |

## Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS27470   | Y             | 14         | A      | 18          | P                      | A                  |
| MS27471   | Y             | 14         | A      | 18          | P                      | A                  |

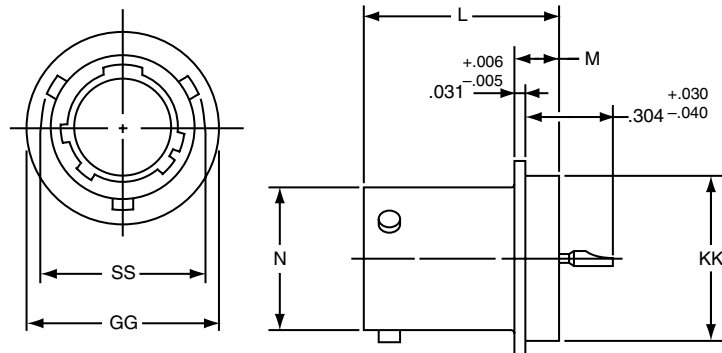
| Shell Size | A*<br>+.000<br>-.010 | C Max. | H Hex<br>+.017<br>-.016 | L Max. | N<br>+.000<br>-.005 | S<br>±.016 | T*<br>+.010<br>-.000 | KK<br>+.011<br>-.000 | RR Thread<br>Class 2A (Plated) |
|------------|----------------------|--------|-------------------------|--------|---------------------|------------|----------------------|----------------------|--------------------------------|
| 9          | .669                 | 1.199  | .875                    | .297   | .572                | 1.062      | .697                 | .642                 | .6875-24 UNEF                  |
| 11         | .769                 | 1.386  | 1.000                   | .297   | .700                | 1.250      | .822                 | .766                 | .8125-20 UNEF                  |
| 13         | .955                 | 1.511  | 1.188                   | .297   | .850                | 1.375      | 1.007                | .892                 | 1.0000-20 UNEF                 |
| 15         | 1.084                | 1.636  | 1.312                   | .297   | .975                | 1.500      | 1.134                | 1.018                | 1.1250-18 UNEF                 |
| 17         | 1.208                | 1.761  | 1.438                   | .297   | 1.100               | 1.625      | 1.259                | 1.142                | 1.2500-18 UNEF                 |
| 19         | 1.333                | 1.949  | 1.562                   | .328   | 1.207               | 1.812      | 1.384                | 1.268                | 1.3750-18 UNEF                 |
| 21         | 1.459                | 2.073  | 1.688                   | .328   | 1.332               | 1.938      | 1.507                | 1.392                | 1.5000-18 UNEF                 |
| 23         | 1.580                | 2.199  | 1.812                   | .328   | 1.457               | 2.062      | 1.634                | 1.518                | 1.6250-18 UNEF                 |
| 25         | 1.709                | 2.328  | 2.000                   | .328   | 1.582               | 2.188      | 1.759                | 1.642                | 1.7500-18 UNS                  |

All dimensions for reference only.

- \* LJT07H-XX-XXX
- \*\* LJT07Y-XX-XXX (MS27470YXXD)
- \*\*\* LJTS07Y-XX-XXX (MS27470YXXE)

- .059 Dia. Min. 3 lockwire holes. Formed lockwire hole design (6 holes) is optional.
- "D" shaped mounting hole dimensions.
- \* Long Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

# LJTI (MS27471) Series I – Hermetic Solder Mounting Receptacle



- \* Long Junior Tri-Lock
- \*\* Interfacial seal wafer
- \*\*\* High temperature version, interfacial seal wafer with stainless steel shell

| Shell Size | N Dia.<br>+.001<br>-.005 | SS Dia.<br>+.000<br>-.016 | L +.011<br>-.000 | M<br>+.006<br>-.005 | GG Dia.<br>+.011<br>-.010 | KK Dia.<br>+.001<br>-.005 |
|------------|--------------------------|---------------------------|------------------|---------------------|---------------------------|---------------------------|
| 9          | .572                     | .662                      | .789             | .125                | .750                      | .672                      |
| 11         | .700                     | .810                      | .789             | .125                | .844                      | .781                      |
| 13         | .850                     | .960                      | .789             | .125                | .969                      | .906                      |
| 15         | .975                     | 1.085                     | .789             | .125                | 1.094                     | 1.031                     |
| 17         | 1.100                    | 1.210                     | .789             | .125                | 1.218                     | 1.156                     |
| 19         | 1.207                    | 1.317                     | .789             | .125                | 1.312                     | 1.250                     |
| 21         | 1.332                    | 1.442                     | .789             | .125                | 1.438                     | 1.375                     |
| 23         | 1.457                    | 1.567                     | .821             | .156                | 1.563                     | 1.500                     |
| 25         | 1.582                    | 1.692                     | .821             | .156                | 1.688                     | 1.625                     |

All dimensions for reference only.

Weld mounting hermetic receptacle also available.

Consult Amphenol Aerospace for availability and dimensions.

- \* LJTIH-XX-XXX
- \*\* LJTIY-XX-XXX (MS27471YXXD)
- \*\*\* LJTSIY-XX-XXX (MS27471YXXE)

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

HIGH  
SPEED

Fiber  
Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482

Matrix 2

83723 III

Matrix | Pyle

26500

Pyle

5015

Crimp Rear  
Release  
Matrix

22992

Class I

Back-  
Shells

Options  
Others



38999

### PART #

Commercial

Part number reference. To complete, see how to order pages 62-66.

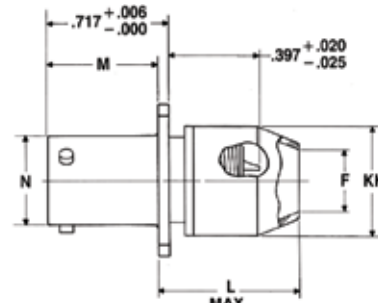
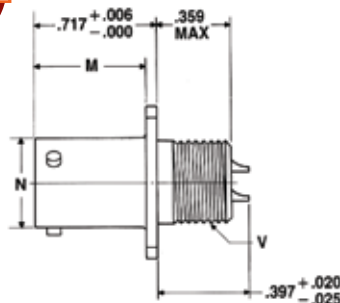
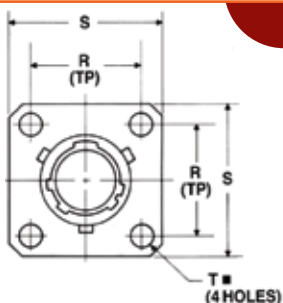
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 00          | P             | 22-2                     | P            | A                  | (XXX)              |

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS20026   | T             | 14         | A      | 18          | P                      | A                  |
| MS20027   | T             | 14         | A      | 18          | P                      | A                  |

Military qualified to MIL-DTL-27599

LJT00T-XX-XXX (MS20026T)

LJT00P-XX-XXX

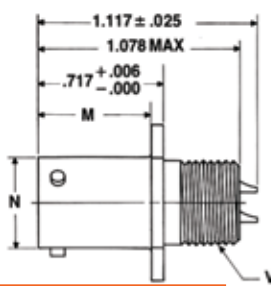
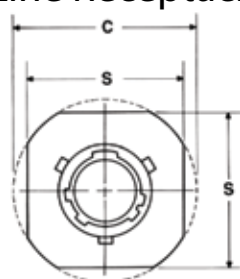


NOTE: For availability of back panel mounting types, check with nearest sales office or call Amphenol Aerospace.

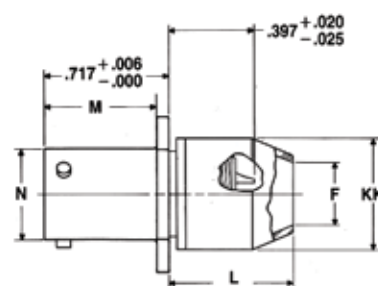
| Shell Size | F Dia. | L Max. | M +.000<br>-.005 | N +.001<br>-.005 | R (TP) | S ±.016 | T Dia.<br>±.005 | V Thread Class 2A<br>UNEF (Plated) | KK Dia.<br>Max. |
|------------|--------|--------|------------------|------------------|--------|---------|-----------------|------------------------------------|-----------------|
| 9          | .327   | .625   | .632             | .572             | .719   | .938    | .128            | .4375-28                           | .608            |
| 11         | .444   | .625   | .632             | .700             | .812   | 1.031   | .128            | .5625-24                           | .734            |
| 13         | .558   | .625   | .632             | .850             | .906   | 1.125   | .128            | .6875-24                           | .858            |
| 15         | .683   | .625   | .632             | .975             | .969   | 1.219   | .128            | .8125-20                           | .984            |
| 17         | .808   | .625   | .632             | 1.100            | 1.062  | 1.312   | .128            | .9375-20                           | 1.110           |
| 19         | .909   | .625   | .632             | 1.207            | 1.156  | 1.438   | .128            | 1.0625-18                          | 1.234           |
| 21         | 1.034  | .703   | .602             | 1.332            | 1.250  | 1.562   | .128            | 1.1875-18                          | 1.360           |
| 23         | 1.159  | .703   | .602             | 1.457            | 1.375  | 1.688   | .147            | 1.3125-18                          | 1.484           |
| 25         | 1.284  | .703   | .602             | 1.582            | 1.500  | 1.812   | .147            | 1.4375-18                          | 1.610           |

## LJT01 (MS20027) Series I – Solder Line Mounting Receptacle

Military qualified to MIL-DTL-27599



LJT01T-XX-XXX (MS20027T)



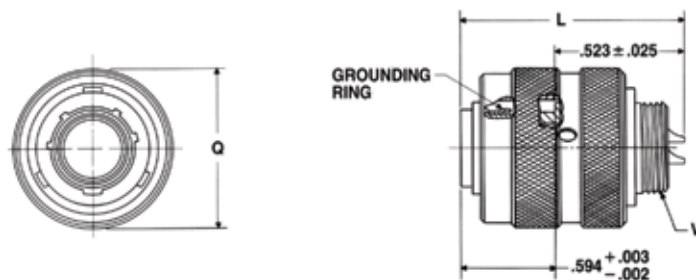
LJT01P-XX-XXX

| Shell Size | C Max. | F Dia. | L Max. | M +.000<br>-.005 | N +.001<br>-.005 | S ±.016 | V Thread Class 2A<br>UNEF (Plated) | KK Dia.<br>Max. |
|------------|--------|--------|--------|------------------|------------------|---------|------------------------------------|-----------------|
| 9          | 1.094  | .327   | .625   | .632             | .572             | .938    | .4375-28                           | .608            |
| 11         | 1.188  | .444   | .625   | .632             | .700             | 1.031   | .5625-24                           | .734            |
| 13         | 1.281  | .558   | .625   | .632             | .850             | 1.125   | .6875-24                           | .858            |
| 15         | 1.375  | .683   | .625   | .632             | .975             | 1.219   | .8125-20                           | .984            |
| 17         | 1.469  | .808   | .625   | .632             | 1.100            | 1.312   | .9375-20                           | 1.110           |
| 19         | 1.594  | .909   | .625   | .632             | 1.207            | 1.438   | 1.0625-18                          | 1.234           |
| 21         | 1.719  | 1.034  | .703   | .602             | 1.332            | 1.562   | 1.1875-18                          | 1.360           |
| 23         | 1.844  | 1.159  | .703   | .602             | 1.457            | 1.688   | 1.3125-18                          | 1.484           |
| 25         | 1.969  | 1.284  | .703   | .602             | 1.582            | 1.812   | 1.4375-18                          | 1.610           |

All dimensions for reference only.

# LJT06 (MS20028) Series I – Solder Straight Plug

**Military qualified to MIL-DTL-27599**



## PART # Commercial

Part number reference. To complete, see how to order pages 62-66.

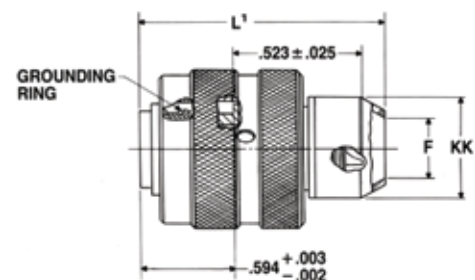
| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| LJT            | 06          | T             | 22-2                     | P            | A                  | (XXX)              |

## Military

| MS Number | Service Class | Shell Size | Finish | Insert Arrg | Contact Style (P or S) | Alternate Position |
|-----------|---------------|------------|--------|-------------|------------------------|--------------------|
| MS20028   | T             | 14         | A      | 18          | P                      | A                  |
| MS20029   | T             | 14         | A      | 18          | P                      | A                  |

**LJT06T-XX-XXX (MS20028T)**

| Shell Size | F Dia. | L Max. | L <sup>1</sup> Max. | Q Max. | V Thread Class 2A UNEF (Plated) | KK Dia. Max. |
|------------|--------|--------|---------------------|--------|---------------------------------|--------------|
| 9          | .327   | 1.128  | 1.488               | .844   | .4375-28                        | .608         |
| 11         | .444   | 1.128  | 1.488               | .969   | .5625-24                        | .734         |
| 13         | .558   | 1.128  | 1.488               | 1.141  | .6875-24                        | .858         |
| 15         | .683   | 1.128  | 1.488               | 1.266  | .8125-20                        | .984         |
| 17         | .808   | 1.128  | 1.488               | 1.391  | .9375-20                        | 1.110        |
| 19         | .909   | 1.128  | 1.488               | 1.500  | 1.0625-18                       | 1.234        |
| 21         | 1.034  | 1.128  | 1.566               | 1.625  | 1.1875-18                       | 1.360        |
| 23         | 1.159  | 1.128  | 1.566               | 1.750  | 1.3125-18                       | 1.484        |
| 25         | 1.284  | 1.191  | 1.644               | 1.875  | 1.4375-18                       | 1.610        |



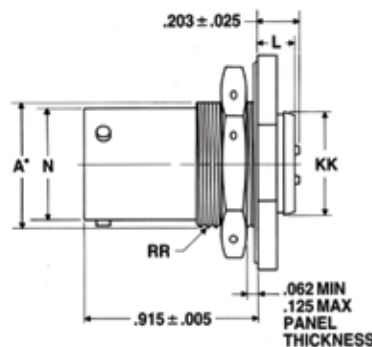
**LJT06P-XX-XXX**

# LJT07 (MS20029) Series I – Solder Jam Nut Receptacle

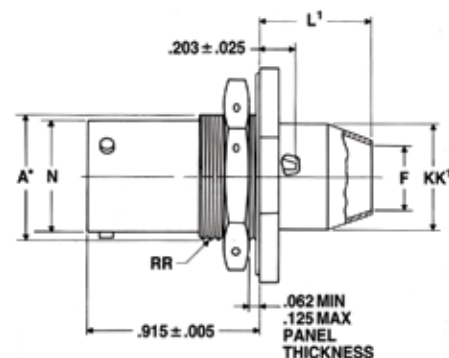
**Military qualified to MIL-DTL-27599**



- "D" shaped mounting hole dimensions



**LJT07T-XX-XXX (MS20029T)**



**LJT07P-XX-XXX (MS20029P)**

| Shell Size | A <sup>•</sup> +.000 / -.010 | C Max. | F Dia. | H Hex +.017 / -.016 | L Max. | L <sup>1</sup> Max. | N +.001 / -.005 | S ±.016 | T <sup>•</sup> +.010 / -.000 | KK +.011 / -.000 | KK <sup>1</sup> Dia. Max. | RR Thread Class 2A (Plated) |
|------------|------------------------------|--------|--------|---------------------|--------|---------------------|-----------------|---------|------------------------------|------------------|---------------------------|-----------------------------|
| 9          | .669                         | 1.199  | .327   | .875                | .234   | .625                | .572            | 1.062   | .697                         | .516             | .608                      | .6875-24UNEF                |
| 11         | .769                         | 1.386  | .444   | 1.000               | .234   | .625                | .700            | 1.250   | .822                         | .642             | .734                      | .8125-20UNEF                |
| 13         | .955                         | 1.511  | .558   | 1.188               | .234   | .625                | .850            | 1.375   | 1.007                        | .766             | .858                      | 1.0000-20UNEF               |
| 15         | 1.084                        | 1.636  | .683   | 1.312               | .234   | .625                | .975            | 1.500   | 1.134                        | .892             | .984                      | 1.1250-18UNEF               |
| 17         | 1.208                        | 1.761  | .808   | 1.438               | .234   | .625                | 1.100           | 1.625   | 1.259                        | 1.018            | 1.110                     | 1.2500-18UNEF               |
| 19         | 1.333                        | 1.949  | .909   | 1.562               | .266   | .625                | 1.207           | 1.812   | 1.384                        | 1.142            | 1.234                     | 1.3750-18UNEF               |
| 21         | 1.459                        | 2.073  | 1.034  | 1.688               | .266   | .656                | 1.332           | 1.938   | 1.507                        | 1.268            | 1.360                     | 1.5000-18UNEF               |
| 23         | 1.580                        | 2.199  | 1.159  | 1.812               | .266   | .750                | 1.457           | 2.062   | 1.634                        | 1.392            | 1.484                     | 1.6250-18UNEF               |
| 25         | 1.709                        | 2.323  | 1.284  | 2.000               | .266   | .750                | 1.582           | 2.188   | 1.759                        | 1.518            | 1.610                     | 1.7500-18UNS                |

All dimensions for reference only.

**38999**

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

**HIGH SPEED**

Fiber Optics

Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear  
Release  
Matrix

22992  
Class 1

Back-  
Shells

Options  
Others

38999

### INSERT AVAILABILITY

| Shell Size /<br>Insert<br>Arrangement | Service<br>Rating | Total<br>Contacts | Contact Size |    |    |    |            |            |             |
|---------------------------------------|-------------------|-------------------|--------------|----|----|----|------------|------------|-------------|
|                                       |                   |                   | 22D          | 20 | 16 | 12 | 12<br>Coax | 8<br>Coax* | 8<br>Twinax |
| 11-2                                  | I                 | 2                 |              |    | 2  |    |            |            |             |
| 11-35                                 | M                 | 13                | 13           |    |    |    |            |            |             |
| 11-98                                 | I                 | 6                 |              | 6  |    |    |            |            |             |
| 13-4                                  | I                 | 4                 |              |    | 4  |    |            |            |             |
| 13-8                                  | I                 | 8                 |              | 8  |    |    |            |            |             |
| 13-35                                 | M                 | 22                | 22           |    |    |    |            |            |             |
| 13-98                                 | I                 | 10                |              | 10 |    |    |            |            |             |
| 15-5                                  | II                | 5                 |              |    | 5  |    |            |            |             |
| 15-15                                 | I                 | 15                |              | 14 | 1  |    |            |            |             |
| 15-18                                 | I                 | 18                |              | 18 |    |    |            |            |             |
| 15-19                                 | I                 | 19                |              | 19 |    |    |            |            |             |
| 15-35                                 | M                 | 37                | 37           |    |    |    |            |            |             |
| 15-97                                 | I                 | 12                |              | 8  | 4  |    |            |            |             |
| 17-6                                  | I                 | 6                 |              |    |    | 6  |            |            |             |
| 17-8                                  | II                | 8                 |              |    | 8  |    |            |            |             |
| 17-26                                 | I                 | 26                |              | 26 |    |    |            |            |             |
| 17-35                                 | M                 | 55                | 55           |    |    |    |            |            |             |
| 17-99                                 | I                 | 23                |              | 21 | 2  |    |            |            |             |
| 19-11                                 | II                | 11                |              |    | 11 |    |            |            |             |
| 19-32                                 | I                 | 32                |              | 32 |    |    |            |            |             |
| 19-35                                 | M                 | 66                | 66           |    |    |    |            |            |             |
| 21-11                                 | I                 | 11                |              |    |    | 11 |            |            |             |
| 21-16                                 | II                | 16                |              |    | 16 |    |            |            |             |
| 21-35                                 | M                 | 79                | 79           |    |    |    |            |            |             |
| 21-39                                 | I                 | 39                |              | 37 | 2  |    |            |            |             |
| 21-41                                 | I                 | 41                |              | 41 |    |    |            |            |             |
| 23-21                                 | II                | 21                |              |    | 21 |    |            |            |             |
| 23-35                                 | M                 | 100               | 100          |    |    |    |            |            |             |
| 23-53                                 | I                 | 53                |              | 53 |    |    |            |            |             |
| 23-54                                 | M                 | 53                | 40           |    | 9  | 4  |            |            |             |
| 23-55                                 | I                 | 55                |              | 55 |    |    |            |            |             |
| 25-4                                  | I                 | 56                |              | 48 | 8  |    |            |            |             |
| 25-19                                 | I                 | 19                |              |    |    | 19 |            |            |             |
| 25-20                                 | N                 | 30                |              | 10 | 13 |    | 4          |            | 3           |
| 25-24                                 | I                 | 24                |              |    | 12 | 12 |            |            |             |
| 25-29                                 | I                 | 29                |              |    | 29 |    |            |            |             |
| 25-35                                 | M                 | 128               | 128          |    |    |    |            |            |             |
| 25-43                                 | I                 | 43                |              | 23 | 20 |    |            |            |             |
| 25-46                                 | I                 | 46                |              | 40 | 4  |    |            | 2*         |             |
| 25-61                                 | I                 | 61                |              | 61 |    |    |            |            |             |

**TABLE I**  
**INSERT ARRANGEMENT CODE**

| Basic Part Number | MIL-DTL-38999 Insert Arrangement |
|-------------------|----------------------------------|
| 88/91-538808      | 11-99                            |
| 06                | 11-35                            |
| 07                | 11-98                            |
| 10                | 13-4                             |
| 11                | 13-8                             |
| 13                | 13-98                            |
| 14                | 13-35                            |
| 18                | 15-5                             |
| 22                | 15-18                            |
| 19                | 15-19                            |
| 20                | 15-35                            |
| 27                | 17-6                             |
| 28                | 17-8                             |
| 29                | 17-26                            |
| 30                | 17-35                            |
| 31                | 17-99                            |
| 37                | 19-11                            |
| 39                | 19-32                            |
| 40                | 19-35                            |
| 47                | 21-11                            |
| 48                | 21-16                            |
| 49                | 21-35                            |
| 50                | 21-41                            |
| 51                | 21-39                            |
| 57                | 23-21                            |
| 58                | 23-35                            |
| 59                | 23-53                            |
| 60                | 23-55                            |
| 66                | 25-19                            |
| 74                | 25-4                             |
| 67                | 25-29                            |
| 68                | 25-35                            |
| 69                | 25-43                            |
| 70                | 25-61                            |
| 71                | 25-46                            |
| 72                | 25-2                             |

**TABLE II**  
**LANYARD**  
**LENGTH**  
**CODES**

| Lanyard Length<br>(in.) ±.250 | MS     | Commercial<br>Code |
|-------------------------------|--------|--------------------|
| 4.000                         |        | 40                 |
| 4.250                         |        | 41                 |
| 4.500                         |        | 42                 |
| 4.750                         |        | 43                 |
| 5.000                         |        | 50                 |
| 5.250                         |        | 51                 |
| 5.500                         |        | 52                 |
| 5.750                         |        | 53                 |
| 6.000                         | No     | 60                 |
| 6.250                         | Code   | 61                 |
| 6.500                         |        | 62                 |
| 6.750                         | Std.   | 63                 |
| 7.000                         | Length | 70                 |
| 7.250                         | 6.250  | 71                 |
| 7.500                         |        | 72                 |
| 7.750                         |        | 73                 |
| 8.000                         |        | 80                 |
| 8.250                         |        | 81                 |
| 8.500                         |        | 82                 |
| 8.750                         |        | 83                 |
| 9.000                         |        | 90                 |
| 9.250                         |        | 91                 |
| 9.500                         |        | 92                 |
| 9.750                         |        | 93                 |

#### LJT Lanyard Separation Forces

| Shell Size                 | Straight Plug<br>(lbs. max.) | 15 Degree<br>Pull (lbs.<br>Max.) |
|----------------------------|------------------------------|----------------------------------|
| 11<br>13<br>15             | 45                           | 55                               |
| 17<br>19<br>21<br>23<br>25 | 90                           | 100                              |

\* For RG 180/U and RG 195/U cables only. (Check Amphenol Aerospace, Sidney, NY for other cable applications). For availability of other insert arrangements and accessories consult Amphenol Aerospace.

# Series I, LJT Breakaway Fail Safe

## Lanyard Release Plug How to Order, cont.

### HOW TO ORDER - BY MILITARY PART NUMBER FAIL SAFE MS27661

| 1.        | 2.            | 3.         | 4.     | 5.           | 6.            | 7.                 |
|-----------|---------------|------------|--------|--------------|---------------|--------------------|
| MS Number | Service Class | Shell Size | Finish | Insert Arrg. | Contact Style | Alternate Position |
| MS27661   | T             | 17         | B      | 35           | P             | A                  |

#### 1. MS27661 Number

MS Number designates MIL-DTL-38999, Series I  
LJT Lanyard Release Plug

#### 2. Select a Service Class

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| <b>E</b> | For environmental crimp applications (inactive for new design)                |
| <b>T</b> | For environmental crimp applications with serrations on rear threads of shell |

#### 3. Select a Shell Size

MIL-DTL-38999, sizes 11 through 25, see chart on page 94.

#### 4. Select a Finish

|          |                                                                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b> | Designates corrosion resistant olive drab cadmium plated aluminum, 500 hour extended salt spray, EMI shielding effectiveness -50dB @ 10 GHz specification min., 175°C |
| <b>F</b> | Designates electroless nickel plated aluminum, 48 hour salt spray, EMI shielding effectiveness -65dB @ 10 GHz 500 specification min., 200°C                           |

These are standard finishes. Consult Amphenol Aerospace for variations.

#### 5. Select an Insert Arrangement

MIL-DTL-38999, see insert identification chart on page 94.

#### 6. Select a Contact Style

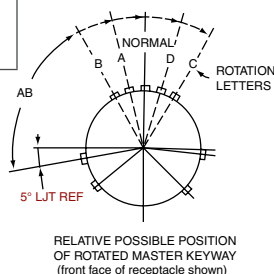
|          |                                                      |
|----------|------------------------------------------------------|
| <b>P</b> | Designates Lanyard Release plug with pin contacts    |
| <b>S</b> | Designates Lanyard Release plug with socket contacts |

#### 7. Alternate Keying Position

For alternate position of connector (to prevent cross-mating) see LJT key/keyway rotation below.  
(No letter is required for normal)

##### LJT Key/Keyway Rotation

| AB ANGLE OF ROTATION (Degrees) |        |     |     |      |      |
|--------------------------------|--------|-----|-----|------|------|
| Shell Size                     | Normal | A   | B   | C    | D    |
| 9                              | 95°    | 77° | -   | -    | 113° |
| 11                             | 95°    | 81° | 67° | 123° | 109° |
| 13                             | 95°    | 75° | 63° | 127° | 115° |
| 15                             | 95°    | 74° | 61° | 129° | 116° |
| 17                             | 95°    | 77° | 65° | 125° | 113° |
| 19                             | 95°    | 77° | 65° | 125° | 113° |
| 21                             | 95°    | 77° | 65° | 125° | 113° |
| 23                             | 95°    | 80° | 69° | 121° | 110° |
| 25                             | 95°    | 80° | 69° | 121° | 110° |



### HOW TO ORDER - BY COMMERCIAL PART NUMBER FAIL SAFE 88-5388 OR 91-5388

| 1.     | 2.                            | 3.                              | 4.                  | 5.                                        |
|--------|-------------------------------|---------------------------------|---------------------|-------------------------------------------|
| Finish | Connector Type Identification | Shell Size & Insert Arrangement | Lanyard Length Code | Contact Type Alternate Rotation of Insert |
| 88     | 5388                          | 29                              | 40                  | P                                         |

#### 1. Select a Finish

|           |                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>88</b> | Designates corrosion resistant olive drab cadmium plate over nickel, 500 hour extended salt spray, EMI -50dB @ 10 GHz specification min., 175°C |
| <b>91</b> | Designates electroless nickel plated aluminum, optimum EMI shielding effectiveness -65dB @ 10 GHz specification min., 48 hour salt spray, 200°C |

These are standard finishes. Consult Amphenol Aerospace, Sidney, NY for variations.

#### 2. Connector Type Identification

|             |                                                             |
|-------------|-------------------------------------------------------------|
| <b>5388</b> | Designates MIL-DTL-38999, Series I LJT Lanyard Release Plug |
|-------------|-------------------------------------------------------------|

#### 3. Select a Shell Size and Insert Arrangement

Shell sizes are MIL-DTL-38999, Series III from sizes 11 thru 25. The basic part number selected specifies the insert arrangement. See Table I (page 94) for coded part number that correlates to insert arrangement.

#### 4. Select a Lanyard Length Code

See Table II (page 94) for lanyard length code number.

#### 5. Select a Contact Type/Alternate Rotation of Insert

|          |                                                      |
|----------|------------------------------------------------------|
| <b>P</b> | Designates Lanyard Release plug with pin contacts    |
| <b>S</b> | Designates Lanyard Release plug with socket contacts |

When an alternate position of the connector is required to prevent cross-mating, a different letter (other than P or S) is used. See alternate positioning for LJT (to your left), then convert to Amphenol commercial coding by the following chart below.

| Pin Contacts |                 | Socket Contacts |                 |
|--------------|-----------------|-----------------|-----------------|
| MS Letter    | Amphenol Letter | MS Letter       | Amphenol Letter |
| P            | P (normal)      | S               | S (normal)      |
| PA           | E               | SA              | F               |
| PB           | R               | SB              | T               |
| PC           | W               | SC              | X               |
| PD           | Y               | SD              | Z               |

**38999**

III  
HD  
Dualok  
II  
I  
SJT  
Accessories  
Aquacon  
Herm/Seal  
PCB

HIGH SPEED  
Fiber Optics  
Contacts  
Connectors  
Cables

EMI Filter  
Transient

26482  
Matrix 2

83723 III  
Matrix | Pyle

26500  
Pyle

5015  
Crimp Rear Release Matrix

22992  
Class I

Back-Shell

Options  
Others

38999

**Amphenol LJT Breakaway Fail Safe Connectors provide unequalled performance in environments requiring instant disengagement.**

Designed to provide quick disconnect of a connector plug and receptacle with an axial pull on the lanyard, the “Breakaway” Fail Safe connector family offers a wide range of electrical and mechanical features:

- Instant decoupling and damage free separation
- Completely intermateable with standard LJT receptacles
- Inventory support commonality through the use of standard insert arrangements and contacts

Breakaway un-mating is initiated by applying a pull force to the lanyard which causes the operating sleeve on the plug to move away from the receptacle. Coupling segments on the plug then move away from the mating receptacle while expanding, thus releasing the receptacle. After completion of the un-mating sequence, spring compression returns the sleeve and segments to their original positions. Un-mating of the plug may also be accomplished by normal rotation of the coupling ring without affecting the breakaway capability.

**The LJT Breakaway Fail Safe connector features which provide EMI EMP shielding in excess of MIL-DTL-38999 Series I requirements:**

- Solid metal-to-metal coupling
- EMI grounding fingers
- Conductive finishes

Contact Amphenol Aerospace for more information on breakaway, quick-disconnect connectors. Other Amphenol cylindrical families (MIL-DTL-38999 Series III, MIL-DTL-26482, MIL-DTL-83723) also offer breakaway quick-disconnect connectors.

## PART #

**Part number reference. To complete, see how to order pages 95.**

| Connector Type | Shell Style | Service Class | Shell Size & Insert Arrg | Contact Type | Alternate Position | Special Variations |
|----------------|-------------|---------------|--------------------------|--------------|--------------------|--------------------|
| <b>88/91</b>   | <b>5388</b> | <i>T</i>      | <i>22-2</i>              | <i>P</i>     | <i>A</i>           | <i>(XXX)</i>       |

## Military

| MS Number      | Service Class | Shell Size | Finish   | Insert Arrg | Contact Style (P or S) | Alternate Position |
|----------------|---------------|------------|----------|-------------|------------------------|--------------------|
| <b>MS27661</b> | <b>T</b>      | <b>14</b>  | <b>A</b> | <b>18</b>   | <b>P</b>               | <b>A</b>           |

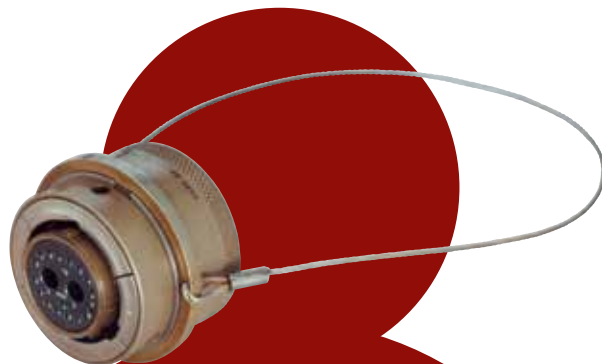
# LJT Fail Safe 88-5388/91-5388 (MS27661)

## Lanyard Release Plug

\* To complete order number see page 95.

| Shell Size | A Dia. Max. | B Max. | D Max. Accessory Dia. | L Max. | V Thread UNEF Class 2A (Plated) |
|------------|-------------|--------|-----------------------|--------|---------------------------------|
| 11         | 1.393       | 1.797  | .740                  | 1.703  | .5625-24                        |
| 13         | 1.558       | 1.969  | .926                  | 1.703  | .6875-24                        |
| 15         | 1.669       | 2.078  | 1.051                 | 1.703  | .8125-20                        |
| 17         | 1.797       | 2.203  | 1.176                 | 1.703  | .9375-20                        |
| 19         | 1.926       | 2.323  | 1.300                 | 1.703  | 1.0625-18                       |
| 21         | 2.054       | 2.469  | 1.426                 | 1.703  | 1.1875-18                       |
| 23         | 2.183       | 2.594  | 1.551                 | 1.703  | 1.3125-18                       |
| 25         | 2.293       | 2.703  | 1.676                 | 1.766  | 1.4375-18                       |

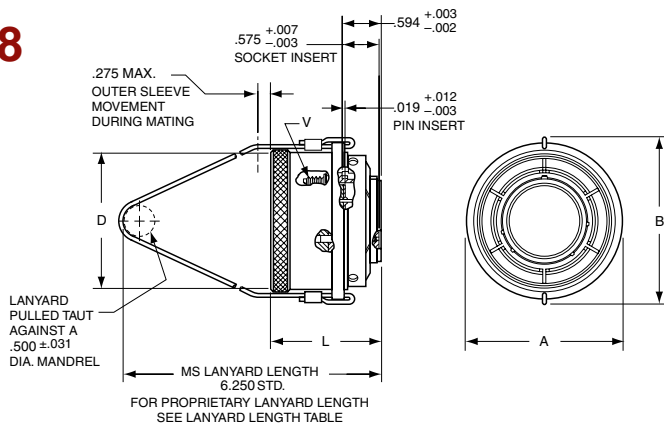
All dimensions for reference only.



## LJT Breakaway Fail Safe

In addition to standard Breakaway connectors, Amphenol also manufactures custom breakaway connectors including those with:

- Increased pull-force capability
- Custom lanyard lengths and backshells
- Low force separation capabilities
- Low insertion/separation force contacts
- Non-cadmium finishes
- Custom JT Series Breakaway designs have been developed for special applications; however the LJ Series is recommended over the JT Series for the quick-disconnect breakaway style.



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## Amphenol:

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[LJT06RE-25-29P\(SRLC\)](#) [LJT06RE-25-29S\(SRLC\)](#) [LJT06RE-25-29SB\(SRLC\)](#) [LJT06RE-25-29PC\(SRLC\)](#) [LJT06RE-25-35SA\(SRLC\)](#) [LJT06RE-25-35P\(SRLC\)](#) [LJT06RE-25-35PC\(SRLC\)](#) [LJT06RE-25-35SD\(SRLC\)](#) [LJT06RE-25-37P\(SRLC\)](#) [LJT06RE-25-43SA\(SRLC\)](#) [LJT06RE-25-43S\(SRLC\)](#) [LJT06RE-25-46PA\(SRLC\)](#) [LJT06RE-25-46SA\(SRLC\)](#) [LJT06RE-25-46S\(SRLC\)](#) [LJT06RE-25-46SC\(SRLC\)](#) [LJT06RE-25-61PA\(SRLC\)](#) [LJT06RE-25-61SC\(SRLC\)](#) [LJT07RE-9-6SC\(SRLC\)](#) [LJT07RE-9-35S\(SRLC\)](#) [LJT07RE-9-35SC\(SRLC\)](#) [LJT07RE-9-44S\(SRLC\)](#) [LJT07RE-9-98PA\(SRLC\)](#) [LJT07RE-9-98PB\(SRLC\)](#) [LJT07RE-9-98S\(SRLC\)](#) [LJT07RE-9-98SC\(SRLC\)](#) [LJT07RE-11-4PA\(SRLC\)](#) [LJT07RE-11-4PB\(SRLC\)](#) [LJT07RE-11-4S\(SRLC\)](#) [LJT07RE-11-4SC\(SRLC\)](#) [LJT07RE-11-4SD\(SRLC\)](#) [LJT07RE-11-5PA\(SRLC\)](#) [LJT07RE-11-5PC\(SRLC\)](#) [LJT07RE-11-5PD\(SRLC\)](#) [LJT07RE-11-13P\(SRLC\)](#) [LJT07RE-11-13PD\(SRLC\)](#) [LJT07RE-11-35P\(SRLC\)](#) [LJT07RE-11-35S\(SRLC\)](#) [LJT07RE-11-35PD\(SRLC\)](#) [LJT07RE-11-98P\(SRLC\)](#) [LJT07RE-11-98S\(SRLC\)](#) [LJT07RE-11-98SB\(SRLC\)](#) [LJT07RE-11-98SC\(SRLC\)](#) [LJT07RE-11-98PD\(SRLC\)](#) [LJT07RE-11-99P\(SRLC\)](#) [LJT07RE-11-99PB\(SRLC\)](#) [LJT07RE-11-99PD\(SRLC\)](#) [LJT07RE-13-3PA\(SRLC\)](#) [LJT07RE-13-3PC\(SRLC\)](#) [LJT07RE-13-4PB\(SRLC\)](#) [LJT07RE-13-8PA\(SRLC\)](#) [LJT07RE-13-8PB\(SRLC\)](#) [LJT07RE-13-8PC\(SRLC\)](#) [LJT07RE-13-8SC\(SRLC\)](#) [LJT07RE-13-22PA\(SRLC\)](#) [LJT07RE-13-22PC\(SRLC\)](#) [LJT07RE-13-22SC\(SRLC\)](#) [LJT07RE-13-22SD\(SRLC\)](#) [LJT07RE-13-35PA\(SRLC\)](#) [LJT07RE-13-35PB\(SRLC\)](#) [LJT07RE-13-35SC\(SRLC\)](#) [LJT07RE-13-98PA\(SRLC\)](#) [LJT07RE-13-98P\(SRLC\)](#) [LJT07RE-13-98PB\(SRLC\)](#) [LJT07RE-13-98SB\(SRLC\)](#) [LJT07RE-13-98SC\(SRLC\)](#) [LJT07RE-15-5PA\(SRLC\)](#) [LJT07RE-15-5P\(SRLC\)](#) [LJT07RE-15-5PB\(SRLC\)](#) [LJT07RE-15-15PA\(SRLC\)](#) [LJT07RE-15-15SA\(SRLC\)](#) [LJT07RE-15-15PC\(SRLC\)](#) [LJT07RE-15-15PD\(SRLC\)](#) [LJT07RE-15-15SD\(SRLC\)](#) [LJT07RE-15-18PA\(SRLC\)](#) [LJT07RE-15-18PB\(SRLC\)](#) [LJT07RE-15-19PA\(SRLC\)](#) [LJT07RE-15-19PB\(SRLC\)](#) [LJT07RE-15-19PC\(SRLC\)](#) [LJT07RE-15-35PA\(SRLC\)](#) [LJT07RE-15-35PB\(SRLC\)](#) [LJT07RE-15-35SB\(SRLC\)](#) [LJT07RE-15-35SD\(SRLC\)](#) [LJT07RE-15-37PA\(SRLC\)](#) [LJT07RE-15-37P\(SRLC\)](#) [LJT07RE-15-37PB\(SRLC\)](#) [LJT07RE-15-68PA\(SRLC\)](#) [LJT07RE-15-68PB\(SRLC\)](#) [LJT07RE-15-68PC\(SRLC\)](#) [LJT07RE-15-97SA\(SRLC\)](#) [LJT07RE-15-97SB\(SRLC\)](#) [LJT07RE-15-97PD\(SRLC\)](#) [LJT07RE-17-6SA\(SRLC\)](#) [LJT07RE-17-6S\(SRLC\)](#) [LJT07RE-17-6PD\(SRLC\)](#) [LJT07RE-17-8SA\(SRLC\)](#) [LJT07RE-17-8S\(SRLC\)](#)