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

1. **Connector Type**
   - **Series I**: LJT
   - **Series II**: JT

2. **Shell Style**
   - **Series I**: LJT
   - **Series II**: JT

3. **Service Class**
   - **Series I**: 00
   - **Series II**: RT

4. **Shell Size Insert Arrangement**
   - **Series I**: 9-35

5. **Contact Type**
   - **Series I**: P

6. **Alternate Position**
   - **Series I**: B

7. **Strain Relief/Finish Variation Suffix**
   - **Series I**: SR (014)

**Step 1. Select a Connector Type**

**Series I LJT**
- **Designates**
  - **JT**: Standard Junior Tri-Lock
  - **LJT**: Long Junior Tri-Lock
  - **LJTS**: JT Standard Junior Tri-Lock–Line mount receptacle
  - **LJTN**: JT Standard Junior Tri-Lock–Jam nut receptacle
  - **LJTPQ**: JT Standard Junior Tri-Lock–90° plug
  - **LJTP**: Standard Junior Tri-Lock–Solder mounting receptacle
  - **LJTPN**: Standard Junior Tri-Lock–Box mounting receptacle
  - **LJTPS**: Standard Junior Tri-Lock–90° Jam nut receptacle
  - **LTG**: Plug with grounding fingers
  - **JTNG**: Plug with grounding fingers—Chemical resistant

**Series II JT**
- **Designates**
  - **Wall Mounting Receptacle**
  - **Line Receptacle**
  - **Box Mounting Receptacle**
  - **Straight Plug**
  - **Jam Nut Receptacle**
  - **Solder Mounting Receptacle**
  - **90° Plug**
  - **Lanyard Release Plug**

*Grounding fingers standard on all LJT plugs*

**Step 2. Select a Shell Style**

**Series I LJT**
- **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)
  - **1**: Solder mount receptacle (hermetic)

**Series II JT**

*See pages 94-96 for ordering*
How to Order (Commercial)

Step 3. Select a Service Class

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

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

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

Step 5. Select a Contact Type

Designates

<table>
<thead>
<tr>
<th>Designates</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
</tr>
<tr>
<td>S</td>
</tr>
</tbody>
</table>
**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.

**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.
How to Order (Military)

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

Military

1. Choose your Military Connector Type

<table>
<thead>
<tr>
<th>MS Number</th>
<th>Service Class</th>
<th>Shell Size</th>
<th>Finish</th>
<th>Insert Arrangement</th>
<th>Contact Style (P or S)</th>
<th>Alternate Keying Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS27473</td>
<td>E</td>
<td>14</td>
<td>A</td>
<td>18</td>
<td>P</td>
<td>A</td>
</tr>
</tbody>
</table>

Series II JT

- MS27472 Crimp Wall Mount Receptacle
- MS27497 Crimp Wall Mount Receptacle (Back Panel Mounting)
- MS27499 Crimp Box Mounting Receptacle
- MS27513 Crimp Box Mounting Receptacle with grommet
- MS27508 Crimp Box Mounting Receptacle (Back Panel Mounting)
- MS27473 Crimp Straight Plug
- MS27484 Crimp Straight Plug with Grounding Fingers
- MS27474 Crimp Jam Nut Receptacle
- MS27500 Crimp 90° plug
- MS27475 Hermetic Wall Mounting Receptacle
- MS27476 Hermetic Box Mounting Receptacle
- MS27477 Hermetic Jam Nut Receptacle
- MS27478 Hermetic Solder Mounting Receptacle

**MIL-DTL-38999/27599**

Series I LJT

- MS27466 Crimp Wall Mount Receptacle
- MS27656 Crimp Wall Mount Receptacle (Back Panel Mounting)
- MS27496 Crimp Box Mounting Receptacle
- MS27505 Crimp Box Mounting Receptacle (Back Panel Mounting)
- MS27467 Crimp Straight Plug
- MS27468 Crimp Jam Nut Receptacle
- MS27469 Hermetic Wall Mounting Receptacle
- MS27470 Hermetic Jam Nut Receptacle
- MS27471 Hermetic Solder Mounting Receptacle

**MIL-DTL-38999/**

Step 2. Select a Military Service Class

<table>
<thead>
<tr>
<th>MS Number</th>
<th>Service Class</th>
<th>Shell Size</th>
<th>Finish</th>
<th>Insert Arrangement</th>
<th>Contact Style (P or S)</th>
<th>Alternate Keying Position</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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**

<table>
<thead>
<tr>
<th>Finish</th>
<th>Military Finish Data</th>
<th>Finish Suffix</th>
<th>Finish Plus “SR” Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Cadmium plated nickel base 175°C</td>
<td></td>
<td>(SR)</td>
</tr>
<tr>
<td>B</td>
<td>Olive drab cadmium plated nickel base 175°C</td>
<td>(014)</td>
<td>(386)</td>
</tr>
<tr>
<td>F</td>
<td>Electroless nickel 200°C</td>
<td>(023)</td>
<td>(424)</td>
</tr>
<tr>
<td>F</td>
<td>Electroless nickel, space compatible 200°C</td>
<td>(453)</td>
<td>(467)</td>
</tr>
<tr>
<td>C</td>
<td>Anodic coating (Alumilite) 200°C</td>
<td>(005)</td>
<td>(300)</td>
</tr>
<tr>
<td>C</td>
<td>Chromate treated (Iridite 14-2) 125°C</td>
<td>(011)</td>
<td>(344)</td>
</tr>
<tr>
<td>E</td>
<td>Passivated steel 200°C</td>
<td>-</td>
<td>-</td>
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<tr>
<td>E</td>
<td>Nickel-PTFE 175°C</td>
<td>(038)</td>
<td></td>
</tr>
</tbody>
</table>

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

Designates

<table>
<thead>
<tr>
<th>Designates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Pin Contacts</td>
</tr>
<tr>
<td>S</td>
<td>Socket Contacts</td>
</tr>
</tbody>
</table>

**Step 7. Select an Alternate Keying Position**

See page 64 for information. No letter required for normal position.

<table>
<thead>
<tr>
<th>MS Number</th>
<th>Service Class</th>
<th>Shell Size</th>
<th>Finish</th>
<th>Insert Arrangement</th>
<th>Contact Style (P or S)</th>
<th>Alternate Position</th>
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<tr>
<td></td>
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