Introduction

For many years, Aero Electric has been making mil circular connectors, and for nearly just as long, we have been supplying them with pc tail contacts. From all the applications we have supported with our pc tail connectors, and all the engineers we have worked with, we have finally taken all that we have learned and created a full product offering.

This product line is made in accordance with MIL-DTL-38999 and MIL-DTL-26482. This family of connectors offers multiple receptacle shell styles, and is available in several materials, such as aluminum, stainless steel, and for extreme corrosion environments, aluminum nickel bronze. The plating options are extensive as well, and that includes electroless nickel, olive drab cadmium, bright cadmium, hard anodized, black nickel, Zinc nickel, and Teflon nickel.

Features

1. Clinch nut options for more secure mounting to the panel
2. Stand-off with helicoils for best practice when supporting the pcb to the connector
3. Shell to PC board connection to allow for another ground path, if needed
4. Slots on the shells to allow for aqueous wash to run through and clean post wave soldering

AEP65-104
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Part Number Development

### Aero Prefix Development

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AEP65-101 and -102 Dimensional Data

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* for AEP65-101

Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.

**Standard PC Tail Diameters**

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AEP65-101 Receptacle Connector, Wall Mount

AEP65-102 Receptacle Connector, Wall Mount with Clinch Nuts

* Standard PC tail extension length. For optional lengths, 229-234 for further information
Part Number Development

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<th>Aero Prefix</th>
<th>AEP65-103</th>
<th>F</th>
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<th>35</th>
<th>P</th>
<th>A-</th>
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</table>

**Shell Type**
- **103** = Wall Mount w/ Dual Flange
- **104** = Wall Mount w/ Dual Flange & Clinch Nut

**Material Finish**
- **F** = Aluminum, Electroless Nickel
- **B** = Aluminum, Olive Drab Cadmium Over Nickel
- **BN** = Aluminum, Black Nickel, (RoHS)
- **T** = Aluminum, Teflon Nickel, (RoHS), (consult factory for availability)
- **Z** = Aluminum, Black Zinc Nickel, (RoHS), (consult factory for availability)

**Shell Size**
- A=9, B=11, C=13, D=15, E=17, F=19, G=21, H=23, J=25

**Insert Arrangement**
Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

**Contact Style**
- **P** = Pin
- **S** = Socket

**Polarization (Keying)**
- **A, B, C, D or E** = Alternate

**Options (Aero Modification Number)**
- ***Consult factory for other modifications

### AEP65-103 and -104 Dimesional Data

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.

### Standard PC Tail Diameters

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AEP65-103 Receptacle Connector, Wall Mount with Dual Flange

AEP65-104 Receptacle Connector, Wall Mount with Dual Flange and Clinch Nuts

*A Standard PC tail extension length. For optional lengths, 229-234 for further information*
### MIL-DTL-38999 Series III

**Rear, Wall Mounting Receptacle**

**AEP65-105, AEP65-106**

#### Part Number Development

**Aero Prefix**

- **AEP65-**

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**Material Finish**

- **F** = Aluminum, Electroless Nickel
- **B** = Aluminum, Olive Drab Cadmium Over Nickel
- **BN** = Aluminum, Black Nickel, (RoHS)
- **T** = Aluminum, Teflon Nickel, (RoHS), (consult factory for availability)
- **Z** = Aluminum, Black Zinc Nickel, (RoHS), (consult factory for availability)

**Shell Size**

- **A**=9, **B**=11, **C**=13, **D**=15, **E**=17, **F**=19, **G**=21, **H**=23, **J**=25

**Insert Arrangement**

Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

**Contact Style**

- **P** = Pin
- **S** = Socket

**Polarization (Keying)**

- **A, B, C, D or E** = Alternate

**Options (Aero Modification Number)**

- ***Consult factory for other modifications***

#### AEP65-105 and -106 Dimesional Data

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.

#### Standard PC Tail Diameters

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AEP65-105 Receptacle Connector, Wall Mount with Dual Flange

AEP65-106 Receptacle Connector, Wall Mount with Dual Flange and Clinch Nuts

*A Standard PC tail extension length. For optional lengths, 229-234 for further information*
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<td>Contact size 16: 5=.040, 6=.062. (with .065 Min. Stand-Off Dia. for contact size 16)</td>
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<td>C1 = THD size 4-40</td>
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<td>C2 = THD size 6-32</td>
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<td>C3 = THD size M3</td>
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<tr>
<td>Blank = No Clinch Nuts</td>
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AE65-505 Receptacle Connector, Wall Mount with P.C. Contacts with and without Clinch Nuts
### Part Number Development

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<th>512-</th>
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**Material Finish**
- **W** = Aluminum, Olive Drab/Cadmium
- **F** = Aluminum, Electroless Nickel
- **E** = Stainless Steel, Passivated (Non-Firewall)
- **BN** = Aluminum, Black Nickel (RoHS)
- **BZ** = Aluminum, Nickel Bronze (RoHS)

**Shell Size**
- A=9, B=11, C=13, D=15, E=17, F=19, G=21, H=23, J=25

**Insert Arrangement**
Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

**Contact Style**
- **P** = Pin
- **S** = Socket

**Polarization (Keying)**
- A, B, C, D & E (N = Normal)

**Dash Number**
- 1-“L1” Length P.C. Tail Contact
- 2-“L2” Length P.C. Tail Contact
- 3-“L3” Length P.C. Tail Contact
- 4-“L4” Length P.C. Tail Contact
- 5-“L5” Length P.C. Tail Contact

### AE65-512

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<tr>
<th>SHELL SIZE</th>
<th>MS Shell Code</th>
<th>A</th>
<th>B Mfg. Flat</th>
<th>C HEX</th>
<th>D THREAD TRIPLE START</th>
<th>E Thread</th>
<th>F</th>
<th>L1 PCB TAIL Dash 1</th>
<th>L2 PCB TAIL Dash 2</th>
<th>L3 PCB TAIL Dash 3</th>
<th>L4 PCB TAIL Dash 4</th>
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AE65-512 Receptacle Connector, Jam Nut
### MIL-DTL-38999 Series III

**Receptacle Connector, Wall Mount**

**AE6520**

#### Part Number Development

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- **Shell Type**
  - 20 = Wall Mount Receptacle

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- **Material Finish**
  - W = Aluminum, Olive Drab Cadmium Over Nickel
  - F = Aluminum, Olive Drab Cadmium Over Nickel
  - S = Stainless Steel, Electrodeposited Nickel, Firewall
  - K = Stainless Steel, Passivated, Firewall
  - E = Stainless Steel, Passivated (Non-Firewall)
  - BN = Aluminum, Black Nickel (RoHS)
  - BZ = Aluminum, Nickel Bronze (RoHS)

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<td></td>
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</tr>
<tr>
<td>K</td>
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<td></td>
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</tr>
</tbody>
</table>

- **Shell Size**
  - A=9, B=11, C=13, D=15, E=17, F=19, G=21, H=23, J=25

<table>
<thead>
<tr>
<th>Insert Arrangement</th>
<th></th>
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</tbody>
</table>

- **Insert Arrangement**
  - Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

<table>
<thead>
<tr>
<th>Contact Style</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>P</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

- **Contact Style**
  - P = Pin
  - S = Socket

<table>
<thead>
<tr>
<th>Polarization (Keying)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A, B, C, D, E</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(N = Normal)</td>
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</tr>
</tbody>
</table>

| P.C. Tail Diameter   |       |       |       |       |       |       |       |       |       |       |       |       |
|                      | 0=No Size 20 or 22D |       |       |       |       |       |       |       |       |       |       |       |
|                      | 1=.140, 2=.200, 3=.250, 4=.300, 5=.380 |       |       |       |       |       |       |       |       |       |       |       |

- **P.C. Tail Diameter**
  - 0=No Size 20 or 22D
  - Contact size 20 & 22D : 1=.019, 2=.025, 3=.030
  - (with .033 min. stand-off dia. for contact size 22D, with .043 min. stand-off dia. o contact size 20)

<table>
<thead>
<tr>
<th>P.C. Tail Extension</th>
<th></th>
<th></th>
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<tbody>
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</tr>
</tbody>
</table>

- **P.C. Tail Extension**
  - 1=.140, 2=.200, 3=.250, 4=.300, 5=.380

<table>
<thead>
<tr>
<th>Plating</th>
<th></th>
<th></th>
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</tr>
</tbody>
</table>

- **Plating**
  - K = 30 Microinches Gold
  - H = 50 Microinches Gold

<table>
<thead>
<tr>
<th>Stand-Off</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 = No Stand-Off</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>1 = .040 Stand-Off</td>
<td></td>
<td></td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Minimum Solder Dip Length</th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 = No Solder Dip, 1=.100, 2=.150, 3=.200, 4=.250</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>P.C. Tail Diameter</th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = No Size 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact size 16: 5=.040, 6=.062</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

- **P.C. Tail Diameter**
  - Blank = No Size 16
  - Contact size 16: 5=.040, 6=.062
  - (with .065 Min. Stand-Off Dia. for contact size 16)

<table>
<thead>
<tr>
<th>Clinch Nuts (Self-Clincing)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>C1</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>C2</td>
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<tr>
<td></td>
<td>C3</td>
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<td></td>
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</tr>
</tbody>
</table>

- **Clinch Nuts (Self-Clincing)**
  - C1 = THD size 4-40
  - C2 = THD size 6-32
  - C3 = THD size M3
  - Blank = No Clinch Nuts

---
AE6520 Receptacle Connector, Wall Mount

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>SHELL Code</th>
<th>A TYP</th>
<th>B TYP</th>
<th>C TYP</th>
<th>D TYP</th>
<th>E TYP</th>
<th>F THREAD</th>
<th>G TYP</th>
<th>H</th>
<th>J</th>
<th>K Accessory Thread</th>
<th>L P.C TAIL EXTENSION</th>
<th>ØM ± .001 P.C. TAIL DIAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>A</td>
<td>.937</td>
<td>.719</td>
<td>.594</td>
<td>.216</td>
<td>.128</td>
<td>.6250-.1P-.3L</td>
<td>.820</td>
<td>.098 .083</td>
<td>.493</td>
<td>M12X1.0-6g.100R</td>
<td>22D, 20 &amp; 16</td>
<td>22D &amp; 20, 16</td>
</tr>
<tr>
<td>11</td>
<td>B</td>
<td>1.031</td>
<td>.812</td>
<td>.719</td>
<td>.194</td>
<td>.7500-.1P-.3L</td>
<td>.140</td>
<td>200 250 300</td>
<td>.019 .025 .030 .040 .062</td>
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<tr>
<td>13</td>
<td>C</td>
<td>1.126</td>
<td>.906</td>
<td>.812</td>
<td>.194</td>
<td>.8750-.1P-.3L</td>
<td>1.000-.1P-.3L</td>
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<tr>
<td>15</td>
<td>D</td>
<td>1.220</td>
<td>.969</td>
<td>.906</td>
<td>.173</td>
<td>1.187-.1P-.3L</td>
<td>.1.250-.1P-.3L</td>
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<tr>
<td>17</td>
<td>E</td>
<td>1.311</td>
<td>1.062</td>
<td>.969</td>
<td>.194</td>
<td>1.375-.1P-.3L</td>
<td>.1.500-.1P-.3L</td>
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</tr>
<tr>
<td>19</td>
<td>F</td>
<td>1.437</td>
<td>1.156</td>
<td>1.062</td>
<td>.194</td>
<td>1.625-.1P-.3L</td>
<td>.1.790  .1.26 .083 .523</td>
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</tr>
<tr>
<td>21</td>
<td>G</td>
<td>1.563</td>
<td>1.250</td>
<td>1.156</td>
<td>.194</td>
<td>1.811</td>
<td>1.500     .242</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>23</td>
<td>H</td>
<td>1.689</td>
<td>1.375</td>
<td>1.250</td>
<td>.242</td>
<td>2.000</td>
<td>1.625     .242</td>
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</tr>
<tr>
<td>25</td>
<td>J</td>
<td>1.811</td>
<td>1.500</td>
<td>1.375</td>
<td>.242</td>
<td>2.125</td>
<td>1.790     .1.26 .083</td>
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</table>

Connector is shown less clinch nuts

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>N</th>
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<tbody>
<tr>
<td>9</td>
<td>.719</td>
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<tr>
<td>11</td>
<td>.812</td>
</tr>
<tr>
<td>13</td>
<td>.906</td>
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<td>15</td>
<td>.969</td>
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<td>17</td>
<td>1.062</td>
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<tr>
<td>19</td>
<td>1.156</td>
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<td>21</td>
<td>1.250</td>
</tr>
<tr>
<td>23</td>
<td>1.375</td>
</tr>
<tr>
<td>25</td>
<td>1.500</td>
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Connector is shown with clinch nuts and PC Contacts
MIL-DTL-38999 Series III 
Receptacle Connector, Single Hole Mount
AE6524

## Part Number Development

<table>
<thead>
<tr>
<th>Aero Prefix</th>
<th>AE65</th>
<th>24</th>
<th>W</th>
<th>D</th>
<th>19</th>
<th>P</th>
<th>N-</th>
<th>2</th>
<th>4</th>
<th>H</th>
<th>1</th>
<th>3</th>
<th>5</th>
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<tbody>
<tr>
<td>Shell Type</td>
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<tr>
<td>24 = Single Hole Mount Receptacle</td>
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<table>
<thead>
<tr>
<th>Material Finish</th>
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<tbody>
<tr>
<td>W = Aluminum, Olive Drab Cadmium Over Nickel</td>
<td></td>
</tr>
<tr>
<td>F = Aluminum, Olive Drab Cadmium Over Nickel</td>
<td></td>
</tr>
<tr>
<td>S = Stainless Steel, Electrodeposited Nickel, Firewall</td>
<td></td>
</tr>
<tr>
<td>K = Stainless Steel, Passivated, Firewall</td>
<td></td>
</tr>
<tr>
<td>E = Stainless Steel, Passivated (Non-Firewall)</td>
<td></td>
</tr>
<tr>
<td>BN = Aluminum, Black Nickel (RoHS)</td>
<td></td>
</tr>
<tr>
<td>BZ = Aluminum, Nickel Bronze (RoHS)</td>
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<table>
<thead>
<tr>
<th>Shell Size</th>
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<tbody>
<tr>
<td>A=9, B=11, C=13, D=15, E=17, F=19, G=21, H=23, J=25</td>
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<table>
<thead>
<tr>
<th>Insert Arrangement</th>
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<tbody>
<tr>
<td>Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.</td>
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<table>
<thead>
<tr>
<th>Contact Style</th>
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</thead>
<tbody>
<tr>
<td>P = Pin</td>
<td></td>
</tr>
<tr>
<td>S = Socket</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Polarization (Keying)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A, B, C, D &amp; E (N = Normal)</td>
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<table>
<thead>
<tr>
<th>P.C. Tail Diameter</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = No Size 20 or 22D</td>
<td></td>
</tr>
<tr>
<td>Contact size 20 &amp; 22D :</td>
<td></td>
</tr>
<tr>
<td>1 = .019, 2 = .025, 3 = .030, 4 = .027</td>
<td></td>
</tr>
<tr>
<td>(with .040 min. stand-off dia. for contact size 22D, with .060 min. stand-off dia. o contact size 20)</td>
<td></td>
</tr>
<tr>
<td>5 = .019</td>
<td></td>
</tr>
<tr>
<td>(.019 with .046 Min stand-off diameter for contact size 22D)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>P.C. Tail Extension</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = .140, 2 = .200, 3 = .250, 4 = .300, 5 = .080</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>K = 30 Microinches Gold</td>
<td></td>
</tr>
<tr>
<td>H = 50 Microinches Gold</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Stand-Off</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = No Stand-Off</td>
<td></td>
</tr>
<tr>
<td>1 = .040 Stand-Off</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum Solder Dip Length</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>0 = No Solder Dip, 1 = .100, 2 = .150, 3 = .200, 4 = .250, 5 = .080</td>
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<table>
<thead>
<tr>
<th>P.C.Tail Diameter</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = No Size 16</td>
<td></td>
</tr>
<tr>
<td>Contact size 16 : 5 = .040, 6 = .062, 7 = .080</td>
<td></td>
</tr>
<tr>
<td>(with .090 Min. Stand-Off Dia. for contact size 16)</td>
<td></td>
</tr>
</tbody>
</table>
MIL-DTL-38999 Series III
Receptacle Connector, Single Hole Mount
AE6524

**AE6524**

**SHELL SIZE** | **MS Shell Code** | **A TYP ±0.016** | **B MTG. Flat ±0.008** | **C Hex ±0.017** | **E THREAD** | **F THREAD TRIPLE START** | **H ±0.035** | **K Accessory Thread** | **L PC TAIL EXTENSION** | **ØM ±0.001 P.C. TAIL DIAMETERS** |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>A 1.063</td>
<td>.651</td>
<td>.875</td>
<td>M17X1.0-6g.100R</td>
<td>.625-1P-3L</td>
<td></td>
<td>.087</td>
<td>M12X1.0-6g.100R</td>
<td>22D, 20 &amp; 16</td>
<td>22D &amp; 20 16</td>
</tr>
<tr>
<td>11</td>
<td>B 1.252</td>
<td>.751</td>
<td>1.000</td>
<td>M20X1.0-6g.100R</td>
<td>.750-1P-3L</td>
<td></td>
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**AE6524 Receptacle Connector, Single Hole Mount**
Part Number Configuration

Aero Prefix | AEP45- | 101- | F | 21 | 35 | P | A- | ***

Shell Type
101 = Rear Wall Mount
102 = Rear Wall Mount w/ Clinch Nuts

Material Finish
F = Aluminum, Electroless Nickel
B = Aluminum, Olive Drab Cadmium Over Nickel
BN = Aluminum, Black Nickel, (RoHS)
T = Aluminum, Teflon Nickel, (RoHS), (consult factory for availability)
Z = Aluminum, Black Zinc Nickel, (RoHS), (consult factory for availability)

Shell Size
9, 11, 13, 15, 17, 19, 21, 23, 25

Insert Arrangement
Per MIL-STD-1560. See Pages 194-208 for Insert Selection.

Contact Style
P = Pin
S = Socket

Polarization (Keying)
A, B, C, or D (Blank = Normal)

Options (Aero Modification Number)
***Consult factory for other modifications

AEP45-101 and -102 Dimesional Data

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Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
MIL-DTL-38999 Series I
Rear, Wall Mount Receptacle
AEP45-101, AEP45-102

AEP45-101 Receptacle Connector, Rear Wall Mount

AEP45-102 Receptacle Connector, Rear Wall Mount with Clinch Nuts

*A Standard PC tail extension length. For optional lengths, 229-234 for further information*

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### Part Number Development

**Aero Prefix**

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<th>A-</th>
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**Shell Type**

- 103 = Rear Wall Mount w/ Dual Flange
- 104 = Rear Wall Mount w/ Dual Flange & Clinch Nuts

**Material Finish**

- **F** = Aluminum, Electroless Nickel
- **B** = Aluminum, Olive Drab Cadmium Over Nickel
- **BN** = Aluminum, Black Nickel, (RoHS)
- **T** = Aluminum, Teflon Nickel, (RoHS), (consult factory for availability)
- **Z** = Aluminum, Black Zinc Nickel, (RoHS), (consult factory for availability)

**Shell Size**

9, 11, 13, 15, 17, 19, 21, 23, 25

**Insert Arrangement**

Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

**Contact Style**

- **P** = Pin
- **S** = Socket

**Polarization (Keying)**

A, B, C, or D (Blank = Normal)

**Options** (Aero Modification Number)

Consult factory for other modifications

---

### AEP45-103 and -104 Dimensional Data

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP45-103 Receptacle Connector, Rear Wall Mount with Dual Flange

AEP45-104 Receptacle Connector, Rear Wall Mount with Dual Flange and Clinch Nuts

* Standard PC tail extension length. For optional lengths, 229-234 for further information
### Part Number Development

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### AEP45-105 and -106 Dimensional Data

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP45-105 Receptacle Connector, Jam Nut Mount

AEP45-106 Receptacle Connector, Jam Nut Mount with Dual Flange

* Standard PC tail extension length. For optional lengths, 229-234 for further information

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## Part Number Development

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| Insert Arrangement | | | | | | |
| Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection. | | | | | | |

| Contact Style | | | | | | |
| P = Pin | | | | | | |
| S = Socket | | | | | | |

| Polarization (Keying) | | | | | | |
| A, B, C, or D (Blank = Normal) | | | | | | |

| Options (Aero Modification Number) | | | | | | |
| ***Consult factory for other modifications | | | | | | |

### AEP55-101 and -102 Dimesional Data

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<th>ØD MAX</th>
<th>ØE ±.003</th>
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### Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP55-101 Receptacle Connector, Rear Wall Mount

AEP55-102 Receptacle Connector, Rear Wall Mount with Clinch Nuts

* Standard PC tail extension length. For optional lengths, 229-234 for further information

www.conesys.com sales@aero-electric.com
## Part Number Development

### Aero Prefix

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<th>P</th>
<th>A-</th>
<th>***</th>
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### Shell Type

- **103** = Rear Wall Mount w/ Dual Flange
- **104** = Rear Wall Mount w/ Dual Flange & Clinch Nuts

### Material Finish

- **F** = Aluminum, Electroless Nickel
- **B** = Aluminum, Olive Drab Cadmium Over Nickel
- **BN** = Aluminum, Black Nickel, (RoHS)
- **T** = Aluminum, Teflon Nickel, (RoHS), (consult factory for availability)
- **Z** = Aluminum, Black Zinc Nickel, (RoHS), (consult factory for availability)

### Shell Size

- 8, 10, 12, 14, 16, 18, 20, 22, 24

### Insert Arrangement

Per MIL-STD-1560. See Pages 194 Thru 208 for Insert Selection.

### Contact Style

- **P** = Pin
- **S** = Socket

### Polarization (Keying)

- **A, B, C, or D** (Blank = Normal)

### Options (Aero Modification Number)

***Consult factory for other modifications

## AEP55-103 and -104 Dimensionsal Data

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## Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP55-103 Receptacle Connector, Rear Wall Mount with Dual Flange

AEP55-104 Receptacle Connector, Rear Wall Mount with Dual Flange and Clinch Nuts

* Standard PC tail extension length. For optional lengths, 229-234 for further information

www.conesys.com sales@aero-electric.com
**MIL-DTL-38999 Series II**
**Rear, Jam Nut Receptacle**
**AEP55-105, AEP55-106**

### Part Number Development

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<tr>
<td>F = Aluminum, Electroless Nickel</td>
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<td>B = Aluminum, Olive Drab Cadmium Over Nickel</td>
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### AEP55-105 and -106 Dimensional Data

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### Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP55-105 Receptacle Connector, Jam Nut Mount

NOTE: ARRANGEMENT 170A, PIN FRONT SHOWN FOR REFERENCE.

AEP55-106 Receptacle Connector, Jam Nut Mount with Dual Flange

* Standard PC tail extension length. For optional lengths, 229-234 for further information

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Circular Connectors - PCB Contacts
MIL-DTL-38999 Series I, II and III
Insert Arrangements - Per MIL-STD-1560

The following table lists the most commonly used insert arrangements for printed circuit board applications using MIL-DTL-38999 circular connectors. Specific dimensional illustrations are included on the following pages for each of the insert arrangements in the table. For availability of other insert arrangements or for application support, please consult Conesys/Aero Electric Connector.

<table>
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<th>Series I</th>
<th>Series II</th>
<th>Series III</th>
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<th>Contact Size</th>
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<td>10-35</td>
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*For information on size 12 or larger PC Tail contacts, please consult Conesys/Aero-Electric Connector.

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<td>550 V RMS</td>
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<td>500 V RMS</td>
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** To be used by designer only as a guide.
Circular Connectors - PCB Contacts
MIL-DTL-38999 Series I, II and III
Insert Arrangements - Per MIL-STD-1560

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<th>MIL-DTL-38999 Series I</th>
<th>MIL-DTL-38999 Series II</th>
<th>MIL-DTL-38999 Series III</th>
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<th>Contact Size</th>
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Front face of pin insert shown

<table>
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<th>Contact Positions</th>
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Contact Locations

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
Circular Connectors - PCB Contacts
MIL-DTL-38999 Series I, II and III
Insert Arrangements

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Contact Locations

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Circular Connectors - PCB Contacts
MIL-DTL-38999 Series I, II and III
Insert Arrangements

<table>
<thead>
<tr>
<th>Connector Type</th>
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### Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II and III**

**Insert Arrangements**

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**Front face of pin insert shown**

Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.

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### Circular Connectors - PCB Contacts

#### MIL-DTL-38999 Series I, II and III

**Insert Arrangements**

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<th>Connector Type</th>
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MIL-DTL-38999 Series I, II and III
Insert Arrangements

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Front face of pin insert shown

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MIL-DTL-38999 Series I, II and III
Insert Arrangements

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Front face of pin insert shown

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Front face of pin insert shown

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**Contact Locations**

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### Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
## Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II and III Insert Arrangements**

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<th>MIL-DTL-38999 Series III</th>
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### Contact Locations

- **Contact Position**
- **Location**
  - **X-Axis**
  - **Y-Axis**

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**Circular Connectors - PCB Contacts**  
**MIL-DTL-38999 Series I, II and III**  
**Insert Arrangements**

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>MIL-DTL-38999 Series I</th>
<th>MIL-DTL-38999 Series II</th>
<th>MIL-DTL-38999 Series III</th>
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<th>Contact Size</th>
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Front face of pin insert shown

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
## Circular Connectors - PCB Contacts
### MIL-DTL-38999 Series I, II and III
#### Insert Arrangements

<table>
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<tr>
<th>Connector Type</th>
<th>MIL-DTL-38999 Series I</th>
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<th>MIL-DTL-38999 Series III</th>
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Front face of pin insert shown

![Diagram showing insert arrangements and dimensions](image_url)

Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
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### MIL-DTL-38999 Series I, II and III
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### Contact Locations

**Front face of pin insert shown**

![Diagram of Contact Locations]

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### Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II and III**

#### Insert Arrangements

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>MIL-DTL-38999 Series I</th>
<th>MIL-DTL-38999 Series II</th>
<th>MIL-DTL-38999 Series III</th>
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<th>Contact Size</th>
<th>Service Rating</th>
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<tbody>
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#### Contact Locations

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<tr>
<th>Contact Position</th>
<th>Location</th>
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<th>Y-Axis</th>
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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on pages 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
Circular Connectors - PCB Contacts  
MIL-DTL-38999 Series I, II and III  
Insert Arrangements

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.

www.conesys.com  
sales@aero-electric.com
## Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II and III**

### Insert Arrangements

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
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AEP15-101 and -102 Dimensional Data

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Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP15-101 Receptacle Connector, Wall Mount

AEP15-102 Receptacle Connector, Wall Mount with Clinch Nuts

* Standard PC tail extension length. For optional lengths, see pages 229-234 for further information
**MIL-DTL-26482 Series II**  
**Wall Mounting Receptacle**  
**AEP15-103, AEP15-104**

### Part Number Development

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### AEP15-103 and -104 Dimesional Data

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### Standard PC Tail Diameters

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.
AEP15-103 Receptacle Connector, Wall Mount with Dual Flange

AEP15-104 Receptacle Connector, Wall Mount with Dual Flange and Clinch Nuts

* Standard PC tail extension length. For optional lengths, see pages 229-234 for further information
# MIL-DTL-26482 Series II
## Jam Nut Receptacle
### AEP15-105, AEP15-106

## Part Number Configuration

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Alternate PC Tail diameters and lengths are available. Refer to PC Tail Specification section starting on 229-234 for further information, or consult Conesys/Aero Electric Connector for application support.

### Standard PC Tail Diameters

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</tbody>
</table>
AEP15-105 Receptacle Connector, Jam Nut

AEP15-106 Receptacle Connector, Jam Nut with Dual Flange

* Standard PC tail extension length. For optional lengths, see pages 229-234 for further information

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Circular Connectors - PCB Contacts

MIL-DTL-26482

Insert Arrangements - Per MIL-STD-1669

The following table lists the most commonly used insert arrangements for printed circuit board applications using MIL-DTL-26482 circular connectors. Specific dimensional illustrations are included on the following pages for each of the insert arrangements in the table. For availability of other insert arrangements or for application support, please consult Conesys/Aero Electric Connector.

*For information on size 12 or larger PC Tail contacts, please consult Conesys/Aero-Electric Connector.

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<td>20-24</td>
<td>I</td>
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<td>I</td>
<td>41</td>
<td>41</td>
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<td>II</td>
<td>21</td>
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*For information on size 12 or larger PC Tail contacts, please consult Conesys/Aero-Electric Connector.

Voltage Rating

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<th>Suggested Operating Voltage**</th>
<th>Test Voltage Sea Level</th>
<th>Test Voltage 50,000 Ft.</th>
<th>Test Voltage 70,000 Ft.</th>
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<td>DC</td>
<td>AC (RMS)</td>
<td>DC</td>
<td>AC (RMS)</td>
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<tr>
<td></td>
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<td>1,275</td>
<td>2,300</td>
<td>750</td>
<td>500</td>
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** To be used by designer only as a guide.
### Connector Type

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<th>Number of Contacts</th>
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Front face of pin insert shown

![Diagram](image1)

### Contact Locations

<table>
<thead>
<tr>
<th>Contact Position</th>
<th>Location</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>A</td>
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<tr>
<td>B</td>
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</table>

### Connector Type

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Front face of pin insert shown

![Diagram](image2)

### Contact Locations

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<td>B</td>
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<tr>
<td>C</td>
<td>-.056</td>
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</table>

Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
Circular Connectors - PCB Contacts
MIL-DTL-26482 Series II
Insert Arrangements

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<thead>
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Front face of pin insert shown

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<tbody>
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<tr>
<td>A</td>
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<td>B</td>
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<td>C</td>
<td>+.056</td>
</tr>
<tr>
<td>D</td>
<td>+.056</td>
</tr>
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Connector Type | MIL-DTL-26482 Series II | Number of Contacts | Contact Size | Service Rating |
<table>
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Front face of pin insert shown

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<tbody>
<tr>
<td>Contact Position</td>
<td>X-Axis</td>
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<tr>
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<td>B</td>
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<tr>
<td>C</td>
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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
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MIL-DTL-26482 Series II
Insert Arrangements

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Front face of pin insert shown

<table>
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<table>
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Front face of pin insert shown

<table>
<thead>
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<tbody>
<tr>
<td>Contact Position</td>
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<tr>
<td>A</td>
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<tr>
<td>B</td>
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<tr>
<td>C</td>
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<tr>
<td>D</td>
</tr>
<tr>
<td>E</td>
</tr>
<tr>
<td>F</td>
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Circular Connectors - PCB Contacts
MIL-DTL-26482 Series II
Insert Arrangements

<table>
<thead>
<tr>
<th>Connector Type</th>
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<th>Number of Contacts</th>
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<th>Service Rating</th>
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<tr>
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Front face of pin insert shown

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</thead>
<tbody>
<tr>
<td></td>
<td>X-Axis</td>
</tr>
<tr>
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<td>.094</td>
</tr>
<tr>
<td>B</td>
<td>0.000</td>
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<tr>
<td>C</td>
<td>-.094</td>
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Circular Connectors - PCB Contacts

MIL-DTL-26482 Series II
Insert Arrangements

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>MIL-DTL-26482 Series II</th>
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Front face of pin insert shown

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<th>Location</th>
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<tbody>
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<td>A</td>
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<tr>
<td>C</td>
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<td>D</td>
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Contact Locations

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Front face of pin insert shown

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<tr>
<td>B</td>
<td>+.195</td>
</tr>
<tr>
<td>C</td>
<td>+.260</td>
</tr>
<tr>
<td>D</td>
<td>+.195</td>
</tr>
<tr>
<td>E</td>
<td>+.130</td>
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<td>F</td>
<td>.000</td>
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<tr>
<td>G</td>
<td>-.130</td>
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<td>-.260</td>
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</table>

Contact Locations

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www.conesys.com

sales@aero-electric.com
Circular Connectors - PCB Contacts
MIL-DTL-26482 Series II
Insert Arrangements

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>MIL-DTL-26482 Series II</th>
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Front face of pin insert shown

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<tr>
<td>D</td>
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<tr>
<td>E</td>
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<tr>
<td>F</td>
<td>+.130</td>
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<tr>
<td>G</td>
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<td>H</td>
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Contact Locations

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<th>Location</th>
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<tr>
<td>L</td>
<td>-.195</td>
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<td>-.130</td>
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<td>-.065</td>
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Front face of pin insert shown

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<td>C</td>
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Contact Locations

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Circular Connectors - PCB Contacts
MIL-DTL-26482 Series II
Insert Arrangements

<table>
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<th>Connector Type</th>
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Front face of pin insert shown

<table>
<thead>
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<th>Location</th>
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<tbody>
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<tr>
<td>G</td>
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<tr>
<td>H</td>
<td>+.067</td>
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<tr>
<td>J</td>
<td>-.067</td>
</tr>
<tr>
<td>K</td>
<td>-.189</td>
</tr>
<tr>
<td>L</td>
<td>-.278</td>
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<tr>
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<td>-.319</td>
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<td>N</td>
<td>-.305</td>
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Contact Locations

<table>
<thead>
<tr>
<th>Contact Locations</th>
<th>Location</th>
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<tbody>
<tr>
<td>Contact Position</td>
<td>X-Axis</td>
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Front face of pin insert shown

<table>
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<th>Contact Locations</th>
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MIL-DTL-26482 Series II
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<tr>
<th>Connector Type</th>
<th>MIL-DTL-26482 Series II</th>
<th>Number of Contacts</th>
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<th>Service Rating</th>
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Front face of pin insert shown

<table>
<thead>
<tr>
<th>Contact Position</th>
<th>Location</th>
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Alternate PC tail diameters are available. Refer to PC tail specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
## Circular Connectors - PCB Contacts

### MIL-DTL-26482 Series II

#### Insert Arrangements

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### Contact Locations

#### Contact Locations

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.

www.conesys.com  – 224 –  sales@aero-electric.com
Circular Connectors - PCB Contacts
MIL-DTL-26482 Series II
Insert Arrangements

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
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MIL-DTL-26482 Series II
Insert Arrangements

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Front face of pin insert shown

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
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MIL-DTL-26482 Series II
Insert Arrangements

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Front face of pin insert shown

Contact Locations

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Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
Circular Connectors - PCB Contacts

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Insert Arrangements

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Front face of pin insert shown

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<td>+.200</td>
</tr>
<tr>
<td>HH</td>
<td>JJ</td>
<td>+.105</td>
<td>+.094</td>
</tr>
<tr>
<td>JJ</td>
<td>KK</td>
<td>+.135</td>
<td>-.041</td>
</tr>
<tr>
<td>KK</td>
<td>LL</td>
<td>0.000</td>
<td>-.132</td>
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<td>MM</td>
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<td>-.041</td>
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<td>NN</td>
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<td>NN</td>
<td>PP</td>
<td>0.000</td>
<td>0.000</td>
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</table>

Alternate PC Tail diameters are available. Refer to PC Tail Specification section starting on 229-234. Dimensional data for the most common insert patterns for the PCB applications are shown. For availability of other insert arrangements, please consult Conesys/Aero-Electric Connector.
### Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II, III, and MIL-DTL-26482 Series II**

**PC Tail Lengths**

Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214). To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 Thru 234. Select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of 0.019" and pc-tail length of 0.110" is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further information or assistance.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
<th>Tolerance</th>
<th>Tail Length</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 22 Pin</td>
<td>Standard Config.</td>
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<td>+/- .001</td>
<td>0.250</td>
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<td>+/- .001</td>
<td>0.110</td>
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<td>Size 22 Pin</td>
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<td>+/- .001</td>
<td>0.130</td>
<td>+/- .020</td>
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<td>Size 22 Pin</td>
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<td>+/- .001</td>
<td>0.150</td>
<td>+/- .020</td>
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<td>0.210</td>
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<td>+/- .001</td>
<td>0.230</td>
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<td>+/- .001</td>
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<td>+/- .001</td>
<td>0.510</td>
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</tbody>
</table>
# Circular Connectors - PCB Contacts

**MIL-DTL-38999 Series I, II, III, and MIL-DTL-26482 Series II**

**PC Tail Lengths**

Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214). To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 Thru 234 select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of .0019” and pc-tail length of 0.110” is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further information or assistance.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
<th>Tolerance</th>
<th>Tail Length</th>
<th>Tolerance</th>
</tr>
</thead>
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<td>Size 22 Socket</td>
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<td>+/- .001</td>
<td>0.250</td>
<td>+/- .020</td>
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<td>+/- .001</td>
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<td>+/- .020</td>
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<td>+/- .001</td>
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<tr>
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<td>0.150</td>
<td>+/- .020</td>
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<td>+/- .001</td>
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<td>+/- .001</td>
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Circular Connectors - PCB Contacts
MIL-DTL-38999 Series I, II, III, and MIL-DTL-26482 Series II
PC Tail Lengths

Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214. To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 Thru 234 select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of .0019” and pc-tail length of 0.110” is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further inofrmation or assistance.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
<th>Tolerance</th>
<th>Tail Length</th>
<th>Tolerance</th>
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<td>+/- .001</td>
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<td>+/- .001</td>
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<td>+/- .001</td>
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<td>+/- .020</td>
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<td>+/- .001</td>
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<td>+/- .020</td>
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</table>
Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214. To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 Thru 234 select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of .0019” and pc-tail length of 0.110” is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further information or assistance.

<table>
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<tr>
<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
<th>Tolerance</th>
<th>Tail Length</th>
<th>Tolerance</th>
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<td>0.250</td>
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<td>+/- .001</td>
<td>0.110</td>
<td>+/- .020</td>
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<tr>
<td>Size 20 Socket</td>
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<td>0.019</td>
<td>+/- .001</td>
<td>0.130</td>
<td>+/- .020</td>
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<td>+/- .001</td>
<td>0.150</td>
<td>+/- .020</td>
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<td>+/- .001</td>
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<td>+/- .020</td>
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<td>+/- .001</td>
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<td>+/- .020</td>
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<tr>
<td>Size 20 Socket</td>
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<td>+/- .001</td>
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<tr>
<td>Size 20 Socket</td>
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<td>+/- .001</td>
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<td>+/- .001</td>
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</tr>
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<td>+/- .001</td>
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## Circular Connectors - PCB Contacts

### MIL-DTL-38999 Series I, II, III, and MIL-DTL-26482 Series II

### PC Tail Lengths

Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214). To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 Thru 234 select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of .0019" and pc-tail length of 0.110" is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further information or assistance.

<table>
<thead>
<tr>
<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
<th>Tolerance</th>
<th>Tail Length</th>
<th>Tolerance</th>
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<td>Standard Config.</td>
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<td>+/- .020</td>
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<td>+/- .020</td>
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Circular Connectors - PCB Contacts

MIL-DTL-38999 Series I, II, III, and MIL-DTL-26482 Series II

PC Tail Lengths

Standard contact length and diameter is identified on the main page for each PCB connector series/style (see pages 167 to 192 and 209 to 214. To choose an alternate contact length or diameter, locate the preferred length and diameter of contact in the tables on pages 229 thru 234. Select the modification code dash number specified for that contact configuration. Add the modification code to the end of the connector part number created from the part number builder.

For example: A connector using size 22 pin contacts in the standard configuration (standard diameter and length) would not require any modification to the part number. However, if a size 22 pin contact with a diameter of .0019" and pc-tail length of 0.110" is required, the connector part number needs to be specified with a -1101 added to the end of the part number to specify the specific length and diameter required by the designer. Consult factory for further information or assistance.

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<th>Contact</th>
<th>Modification Code</th>
<th>Diameter</th>
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<th>Tail Length</th>
<th>Tolerance</th>
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