



**MIL-DTL-26482 SERIES 2 AND CORSAIR PART NUMBER CROSS REFERENCE**

|                        |      |    |   |    |   |   |   |
|------------------------|------|----|---|----|---|---|---|
| <b>Military Prefix</b> | MS34 | 70 | W | 14 | 4 | P | X |
| <b>Corsair Prefix</b>  | CJ09 | 70 | W | 14 | 4 | P | X |

|   |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|
| <b>Shell Configuration</b>  | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| 70 Receptacle, narrow flange                                      |       |       |       |       |       |       |       |
| 71 Receptacle, cable connecting                                   |       |       |       |       |       |       |       |
| 72 Receptacle, wide flange  |       |       |       |       |       |       |       |
| 74 Receptacle, jam nut  |       |       |       |       |       |       |       |
| 75 Plug, RFI grounding  |       |       |       |       |       |       |       |
| 76 Plug, straight   |       |       |       |       |       |       |       |
| <b>Class (materials/finish)</b>                                   | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| A Aluminum, black anodized  |       |       |       |       |       |       |       |
| L Aluminum, electroless nickel                                    |       |       |       |       |       |       |       |
| W Aluminum, olive drab cadmium<br>over electroless nickel         |       |       |       |       |       |       |       |
| S Stainless steel, passivated                                     |       |       |       |       |       |       |       |
| <b>Shell Size</b>   | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| 8, 10, 12, 14, 16, 18, 20, 22, or 24                              |       |       |       |       |       |       |       |
| <b>Insert arrangement</b>   | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Refer to layout patterns per MIL-STD-1669                         |       |       |       |       |       |       |       |
| <b>Contact Type</b>   | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P Pin   |       |       |       |       |       |       |       |
| S Socket  |       |       |       |       |       |       |       |
| A Connector less pins   |       |       |       |       |       |       |       |
| B Connector less sockets  |       |       |       |       |       |       |       |
| <b>Polarization</b>   | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| N Normal (not included in part number)                            |       |       |       |       |       |       |       |
| W, X, Y, or Z Alternate positions,<br>refer to polarization chart |       |       |       |       |       |       |       |

The normal position (N) has the insert centerline coinciding with the centerline of the master key (or keyway) of the shell. The alternate clocking positions (W,X,Y,Z) are accomplished by rotating the pin insert clockwise. The socket insert is rotated counter clockwise.

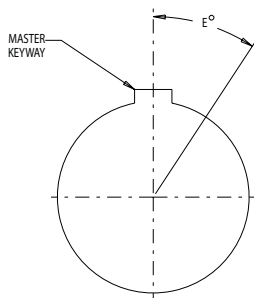


FIGURE 1

Figure 1 illustrates the centerline of the insert rotation clockwise, with the table showing the degree of rotation. Figure 1 looking at the engaging face of the pin insert.

**MIL-DTL-26482 SERIES 2 POLARIZING POSITIONS**

| Insert | E Degrees |     |     |     |     |
|--------|-----------|-----|-----|-----|-----|
|        | N°        | W°  | X°  | Y°  | Z°  |
| 8-2    | 0         | 58  | 122 | --- | 0   |
| 8-3    | 0         | 60  | 210 | --- | --- |
| 8-4    | 0         | 45  | --- | --- | --- |
| 8-33   | 0         | 90  | --- | --- | --- |
| 8-98   | 0         | --- | --- | --- | --- |
| 10-6   | 0         | 90  | --- | --- | --- |
| 10-98  | 0         | 90  | 180 | 240 | 270 |
| 12-3   | 0         | --- | --- | 180 | --- |
| 12-8   | 0         | 90  | 112 | 203 | 292 |
| 12-10  | 0         | 60  | 155 | 270 | 295 |
| 14-4   | 0         | 45  | --- | --- | --- |
| 14-5   | 0         | 40  | 92  | 184 | 273 |
| 14-9   | 0         | 15  | 90  | 180 | 240 |
| 14-12  | 0         | 43  | 90  | --- | --- |
| 14-15  | 0         | 17  | 110 | 155 | 234 |
| 14-18  | 0         | 15  | 90  | 180 | 270 |
| 14-19  | 0         | 30  | 165 | 315 | --- |
| 14-22  | 0         | 45  | --- | --- | --- |
| 16-8   | 0         | 54  | 152 | 180 | 331 |
| 16-14  | 0         | 25  | 78  | 180 | 240 |
| 16-23  | 0         | 158 | 270 | --- | --- |
| 16-26  | 0         | 60  | --- | 275 | 338 |
| 16-95  | 0         | 25  | 90  | 153 | --- |
| 16-99  | 0         | 66  | 156 | 223 | 340 |

| Insert | E Degrees |     |     |     |     |
|--------|-----------|-----|-----|-----|-----|
|        | N°        | W°  | X°  | Y°  | Z°  |
| 18-8   | 0         | 180 | --- | --- | --- |
| 18-11  | 0         | 62  | 119 | 241 | 340 |
| 18-30  | 0         | 180 | 193 | 285 | 350 |
| 18-32  | 0         | 85  | 138 | 222 | 265 |
| 18-85  | 0         | 45  | 90  | 180 | 240 |
| 18-88  | 0         | 12  | 45  | 168 | 202 |
| 20-16  | 0         | 238 | 318 | 333 | 347 |
| 20-24  | 0         | 70  | 145 | 215 | 290 |
| 20-27  | 0         | 72  | 144 | 216 | 288 |
| 20-39  | 0         | 63  | 144 | 252 | 333 |
| 20-41  | 0         | 45  | 126 | 225 | --- |
| 20-90  | 0         | 18  | 60  | 240 | 270 |
| 22-12  | 0         | --- | --- | --- | --- |
| 22-19  | 0         | 15  | 90  | 225 | 308 |
| 22-21  | 0         | 16  | 135 | 175 | 349 |
| 22-32  | 0         | 72  | 145 | 215 | 288 |
| 22-34  | 0         | 62  | 142 | 218 | 298 |
| 22-41  | 0         | 39  | 135 | 264 | --- |
| 22-55  | 0         | 30  | 142 | 226 | 314 |
| 22-95  | 0         | 26  | 180 | 266 | --- |
| 22-96  | 0         | 19  | 41  | --- | --- |
| 24-19  | 0         | 30  | 165 | 315 | --- |
| 24-27  | 0         | 45  | 110 | 140 | 225 |
| 24-31  | 0         | 90  | 225 | 255 | --- |
| 24-61  | 0         | 90  | 180 | 270 | 324 |



**GENERAL SPECIFICATIONS**

Rear release contact retention system.  
 9 shell sizes (8 to 24) in 49 insert arrangements utilizing contact sizes 20, 16, and 12 gage crimp contacts per MIL-C-39029.  
 Bayonet coupling mechanism.  
 Polarization by insert rotation, per MIL-STD-1669.  
**Operating temperature range:**  
 -55 degrees C (-67 degrees F) to 200 degrees C (392 degrees F).

Environmental Fluorosilicone Elastomers

Refer to page 27 for additional contact and tooling information.

**VOLTAGE RATING**

| ALTITUDE   | WORKING VOLTAGE, AC, RMS |                   |                         |
|------------|--------------------------|-------------------|-------------------------|
|            | Service Rating I         | Service Rating II | Service Rating Shielded |
| Sea Level  | 600                      | 1000              | 500 volts, dc           |
| 70,000 ft. | 300                      | 450               | ---                     |

The following insert arrangements have a Service Rating II.  
 12-3 14-5 16-8 18-11 20-16 22-21 24-19  
 All others have a Service Rating I.

**CONTACTS**

| Gage | Military Part Number | Wire Range | Test Current |
|------|----------------------|------------|--------------|
| 20   | M39029/4-110 PIN     | 20-24      | 7.5 amps     |
|      | M39029/5-115 SOCKET  |            |              |
| 16   | M39029/4-111 PIN     | 16-20      | 13.0 amps    |
|      | M39029/5-116 SOCKET  |            |              |
| 12   | M39029-4-113 PIN     | 12-14      | 23 amps      |
|      | M39029-5-118 SOCKET  |            |              |

**INSTALLING / REMOVING TOOLS (PLASTIC)**

| Gage | Military Part Number | Size |
|------|----------------------|------|
| 20   | M81969/14-02         | 20   |
| 16   | M81969/14-03         | 16   |
| 12   | M81969/14-04         | 12   |

**SEALING PLUGS**

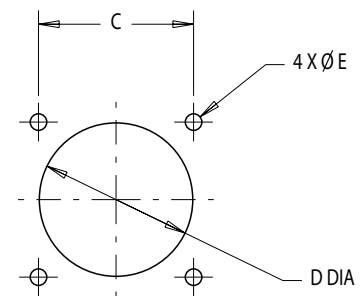
| Military Part Number |
|----------------------|
| MS27488-20-2         |
| MS27488-16-2         |
| MS27488-12-2         |

**MIL-DTL-26482 SERIES 2**

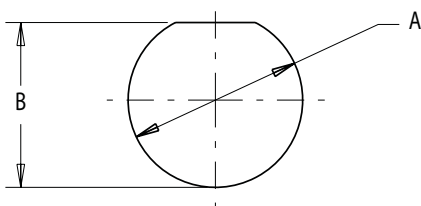
**RECEPTACLE PANEL CUTOUTS**

**M3470 RECEPTACLE, NARROW FLANGE**

**M3472 RECEPTACLE, WIDE FLANGE**



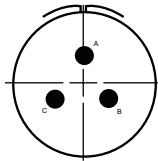
**MS3474 RECEPTACLE, JAM NUT**



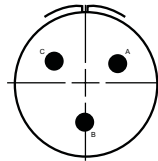
| Shell Size | Jam Nut Receptacle |          | Square Flange Mount Receptacles |                      |              |              |
|------------|--------------------|----------|---------------------------------|----------------------|--------------|--------------|
|            | A ± .005           | B ± .005 | Narrow Flange C ± .005          | Wide Flange C ± .005 | DIA D ± .005 | DIA E ± .005 |
| 8          | 0.572              | 0.536    | 0.594                           | 0.734                | 0.568        | 0.120        |
| 10         | 0.697              | 0.661    | 0.719                           | 0.812                | 0.685        | 0.120        |
| 12         | 0.895              | 0.824    | 0.812                           | 0.938                | 0.864        | 0.120        |
| 14         | 1.010              | 0.948    | 0.906                           | 1.031                | 0.989        | 0.120        |
| 16         | 1.135              | 1.072    | 0.969                           | 1.125                | 1.113        | 0.120        |
| 18         | 1.260              | 1.197    | 1.062                           | 1.203                | 1.238        | 0.120        |
| 20         | 1.385              | 1.322    | 1.156                           | 1.297                | 1.363        | 0.120        |
| 22         | 1.510              | 1.447    | 1.250                           | 1.375                | 1.488        | 0.120        |
| 24         | 1.635              | 1.572    | 1.375                           | 1.500                | 1.615        | 0.147        |



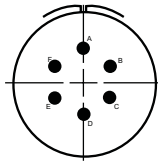
**MIL-DTL-26482 SERIES 2 INSERT PATTERNS PER MIL-STD-1669**  
**CAVITY IDENTIFICATION SHOWN FOR FRONT FACE**  
**OF PIN AND REAR FACE OF SOCKET INSERTS**



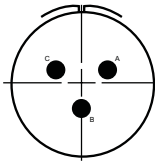
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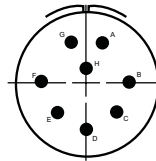
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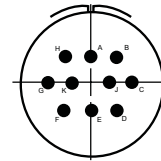
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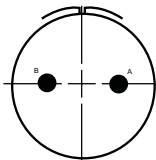
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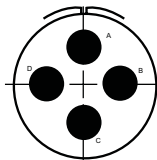
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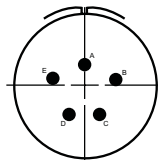
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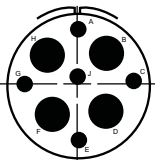
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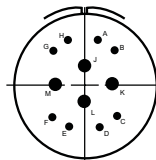
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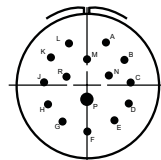
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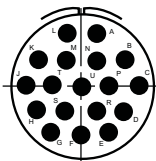
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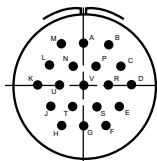
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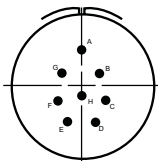
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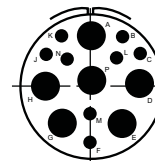
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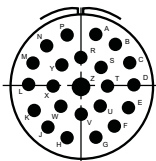
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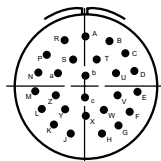
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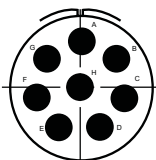
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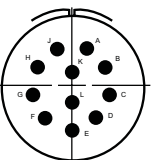
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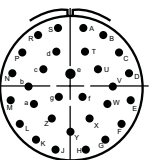
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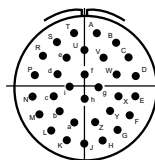
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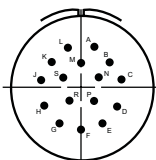
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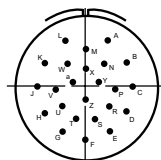
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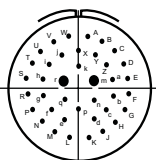
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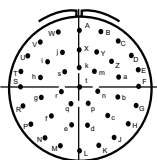
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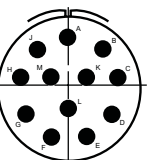
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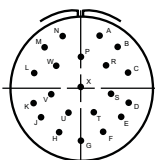
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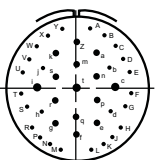
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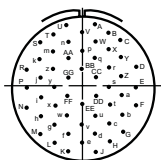
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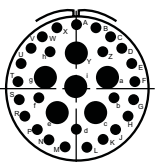
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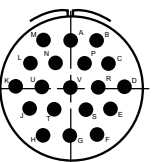
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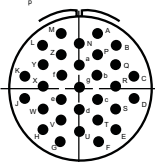
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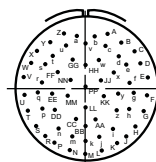
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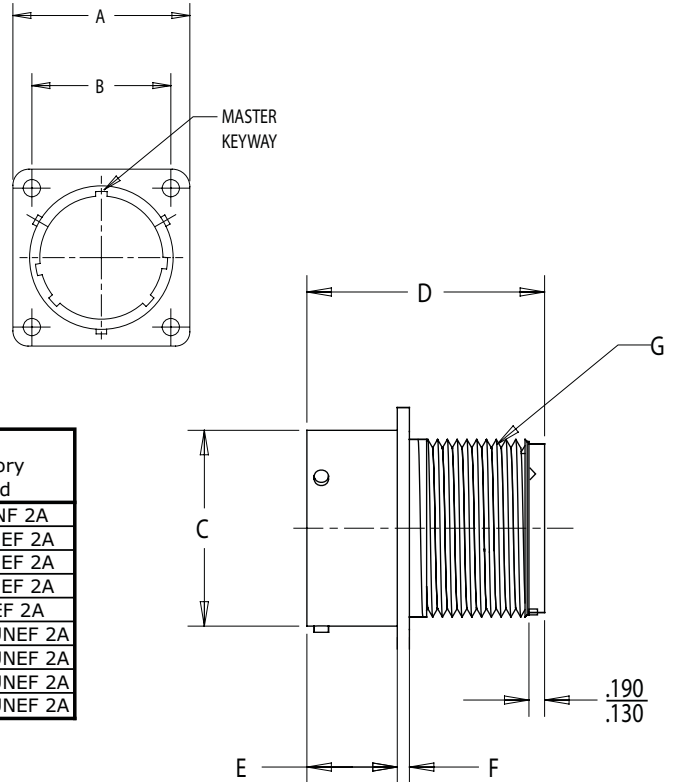
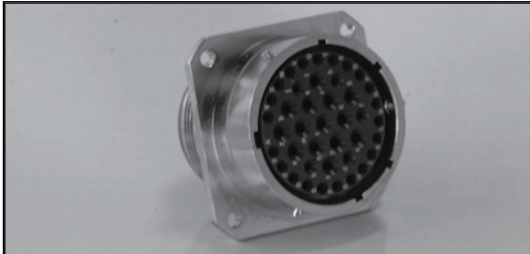
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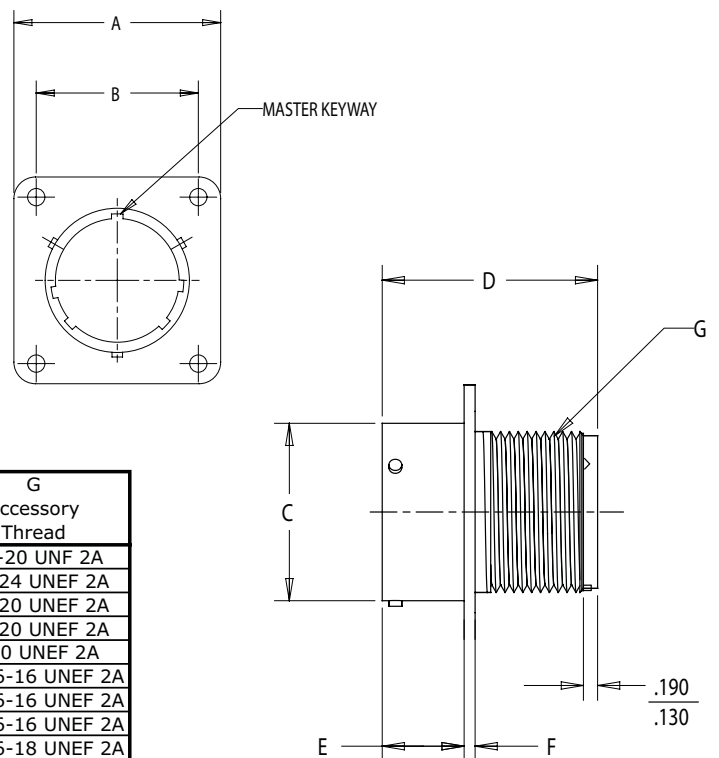


**MS3470 NARROW FLANGE RECEPTACLE**



| Shell Size | A<br>Max. | B<br>± .005 | C<br>- .006 | D<br>Max. | E<br>-.031 | F<br>±.016 | G<br>Accessory<br>Thread |
|------------|-----------|-------------|-------------|-----------|------------|------------|--------------------------|
| 8          | 0.828     | 0.594       | 0.474       | 1.215     | 0.462      | 0.062      | 1/2-20 UNF 2A            |
| 10         | 0.954     | 0.719       | 0.591       | 1.215     | 0.462      | 0.062      | 5/8-24 UNEF 2A           |
| 12         | 1.047     | 0.812       | 0.751       | 1.215     | 0.462      | 0.062      | 3/4-20 UNEF 2A           |
| 14         | 1.141     | 0.906       | 0.876       | 1.215     | 0.462      | 0.062      | 7/8-20 UNEF 2A           |
| 16         | 1.234     | 0.969       | 1.001       | 1.215     | 0.462      | 0.062      | 1-20 UNEF 2A             |
| 18         | 1.328     | 1.062       | 1.126       | 1.215     | 0.462      | 0.062      | 1 1/16-16 UNEF 2A        |
| 20         | 1.453     | 1.156       | 1.251       | 1.275     | 0.587      | 0.094      | 1 3/16-16 UNEF 2A        |
| 22         | 1.578     | 1.250       | 1.376       | 1.275     | 0.587      | 0.094      | 1 5/16-16 UNEF 2A        |
| 24         | 1.703     | 1.375       | 1.501       | 1.275     | 0.620      | 0.094      | 1 7/16-18 UNEF 2A        |

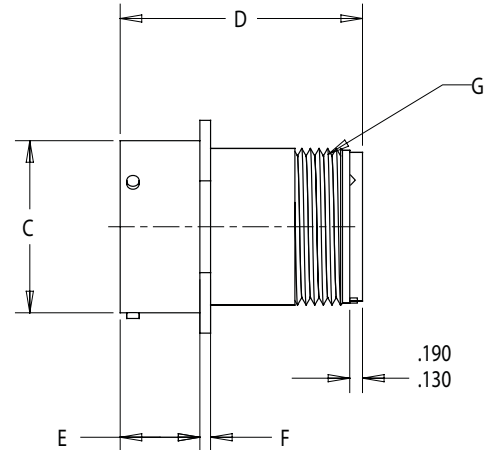
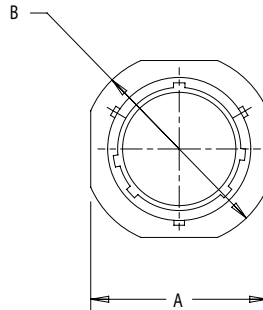
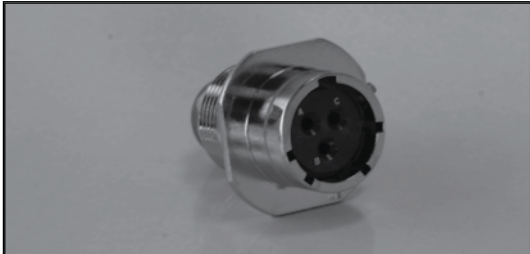
**MS3472 WIDE FLANGE RECEPTACLE**



| Shell Size | A<br>Max. | B<br>± .005 | C<br>- .006 | D<br>Max. | E<br>-.031 | F<br>±.016 | G<br>Accessory<br>Thread |
|------------|-----------|-------------|-------------|-----------|------------|------------|--------------------------|
| 8          | 1.065     | 0.734       | 0.474       | 1.215     | 0.493      | 0.062      | 1/2-20 UNF 2A            |
| 10         | 1.141     | 0.812       | 0.591       | 1.215     | 0.493      | 0.062      | 5/8-24 UNEF 2A           |
| 12         | 1.266     | 0.938       | 0.751       | 1.215     | 0.493      | 0.062      | 3/4-20 UNEF 2A           |
| 14         | 1.360     | 1.031       | 0.876       | 1.215     | 0.493      | 0.062      | 7/8-20 UNEF 2A           |
| 16         | 1.453     | 1.125       | 1.001       | 1.215     | 0.493      | 0.062      | 1-20 UNEF 2A             |
| 18         | 1.532     | 1.203       | 1.126       | 1.215     | 0.493      | 0.062      | 1 1/16-16 UNEF 2A        |
| 20         | 1.688     | 1.297       | 1.251       | 1.275     | 0.587      | 0.094      | 1 3/16-16 UNEF 2A        |
| 22         | 1.766     | 1.375       | 1.376       | 1.275     | 0.587      | 0.094      | 1 5/16-16 UNEF 2A        |
| 24         | 1.891     | 1.500       | 1.501       | 1.275     | 0.620      | 0.094      | 1 7/16-18 UNEF 2A        |

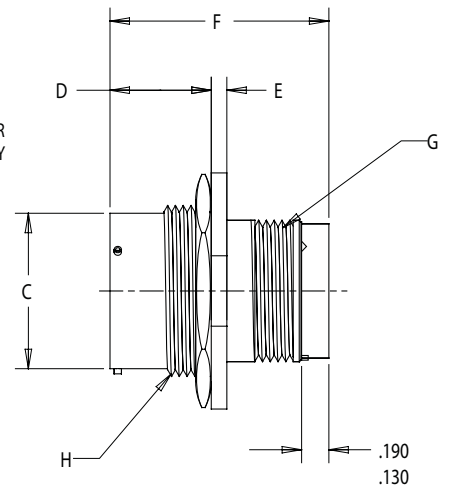
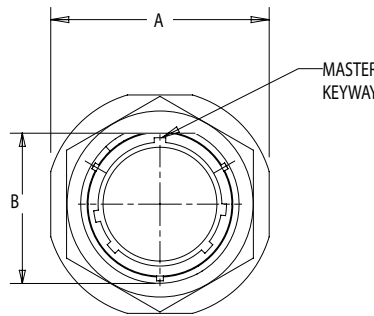


**MS3471 RECEPTACLE, IN LINE**



| Shell Size | A<br>Max. | B<br>+ .020 | C<br>+ .003 | D<br>Max. | E         | F<br>±.016 | G<br>Accessory<br>Thread |
|------------|-----------|-------------|-------------|-----------|-----------|------------|--------------------------|
| 8          | 0.828     | 0.938       | 0.471       | 1.405     | .462/.431 | 0.062      | 1/2-20 UNF-2A            |
| 10         | 0.954     | 1.062       | 0.588       | 1.405     | .462/.431 | 0.062      | 5/8-24 UNEF-2A           |
| 12         | 1.047     | 1.156       | 0.748       | 1.405     | .462/.431 | 0.062      | 3/4-20 UNEF-2A           |
| 14         | 1.141     | 1.250       | 0.873       | 1.405     | .462/.431 | 0.062      | 7/8-20 UNEF-2A           |
| 16         | 1.234     | 1.344       | 0.998       | 1.405     | .462/.431 | 0.062      | 1-20 UNEF-2A             |
| 18         | 1.328     | 1.438       | 1.123       | 1.405     | .462/.431 | 0.062      | 1 1/16-18 UNEF-2A        |
| 20         | 1.453     | 1.562       | 1.248       | 1.465     | .587/.556 | 0.094      | 1 3/16-18 UNEF-2A        |
| 22         | 1.578     | 1.688       | 1.373       | 1.465     | .587/.556 | 0.094      | 1 5/16-18 UNEF-2A        |
| 24         | 1.703     | 1.812       | 1.498       | 1.465     | .620/.589 | 0.094      | 1 7/16-18 UNEF-2A        |

**MS3474 JAM NUT RECEPTACLE**

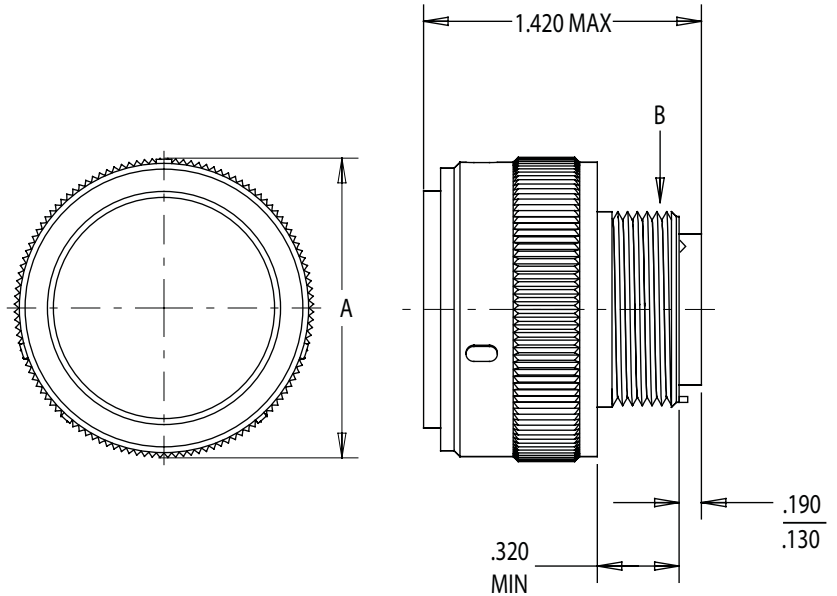
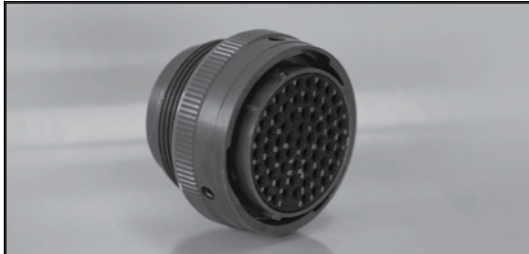


| Shell Size | A<br>Max. | B<br>± .005 | C<br>+ .006 | D     | E     | F<br>Max. | G<br>Accessory<br>Thread | H<br>Mounting<br>Thread |
|------------|-----------|-------------|-------------|-------|-------|-----------|--------------------------|-------------------------|
| 8          | 0.954     | 0.525       | 0.468       | 0.707 | 0.113 | 1.405     | 1/2-20 UNF-2A            | 9/16-24 UNEF-2A         |
| 10         | 1.078     | 0.650       | 0.585       |       |       | 1.405     | 5/8-24 UNEF-2A           | 11/16-24 UNEF-2A        |
| 12         | 1.266     | 0.813       | 0.745       |       |       | 1.405     | 3/4-20 UNEF-2A           | 7/8-20 UNEF-2A          |
| 14         | 1.391     | 0.937       | 0.870       | 0.658 | 0.086 | 1.405     | 7/8-20 UNEF-2A           | 1-20 UNEF-2A            |
| 16         | 1.516     | 1.061       | 0.995       |       |       | 1.405     | 1-20 UNEF-2A             | 1 1/8-18 UNEF-2A        |
| 18         | 1.641     | 1.186       | 1.220       | 0.772 | 0.148 | 1.405     | 1 1/16-18 UNEF-2A        | 1 1/4-18 UNEF-2A        |
| 20         | 1.828     | 1.311       | 1.245       |       |       | 1.465     | 1 3/16-18 UNEF-2A        | 1 3/8-18 UNEF-2A        |
| 22         | 1.954     | 1.436       | 1.370       |       |       | 1.465     | 1 5/16-18 UNEF-2A        | 1 1/2-18 UNEF-2A        |
| 24         | 2.078     | 1.561       | 1.495       | 0.721 | 0.096 | 1.465     | 1 7/16-18 UNEF-2A        | 1 5/8-18 UNEF-2A        |



**MS3475 PLUG, RFI GROUNDING**

**MS3476 PLUG, STANDARD**

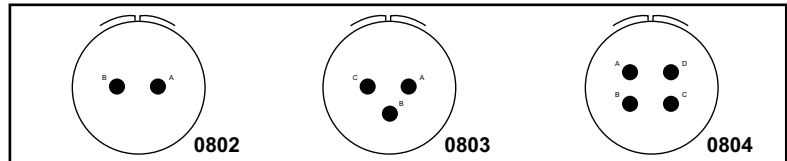


| Shell Size | A Max. | B Accessory Thread |
|------------|--------|--------------------|
| 8          | 0.782  | 1/2-20 UNEF-2A     |
| 10         | 0.926  | 5/8-24 UNEF-2A     |
| 12         | 1.043  | 3/4-20 UNEF-2A     |
| 14         | 1.183  | 7/8-20 UNEF-2A     |
| 16         | 1.305  | 1-20 UNEF-2A       |
| 18         | 1.391  | 1 1/16-18 UNEF-2A  |
| 20         | 1.531  | 1 3/16-18 UNEF-2A  |
| 22         | 1.656  | 1 5/15-18 UNEF-2A  |
| 24         | 1.777  | 1 7/16-18 UNEF-2A  |

**MIL-C-26482 TYPE REAR RELEASE PLUGS**

(Corsair CJ series intermateable with MIL-C-26482 Solder or Hermetic pin receptacles)

These three insert layouts, are not qualified to MIL-C-26482 Series 2. However, they are rear release and meet all of the appropriate parameters of Series II, thus providing a higher level of environmental capabilities.



**CONTACT AND TOOLING INFORMATION**

| Contact Part Number  | Crimp Tool        | Turret            | Insertion/Removal Tool |
|----------------------|-------------------|-------------------|------------------------|
| SOCKET: 244-2001-009 | M22520/1-01       | M22520/1-02       | M81969/14-01           |
| PIN: 264-2001-009    | or<br>M22520/2-02 | or<br>M22520/2-02 |                        |

**ORDERING NOMENCLATURE**

