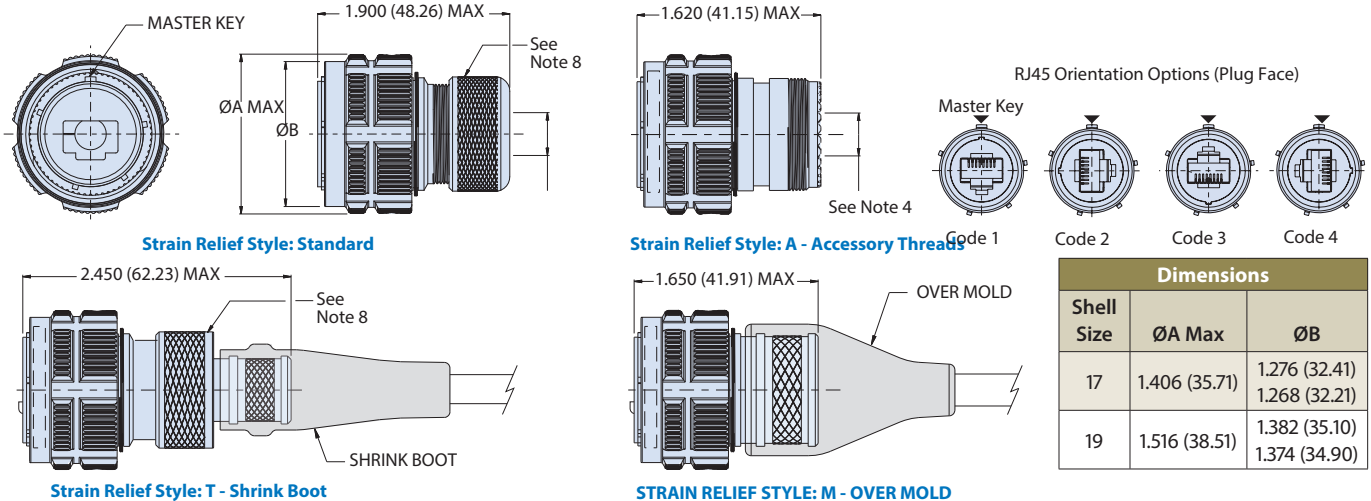


**233-312 Plug with accessory threads**  
**MIL-DTL-38999 Series III**

Part Number Development	
<b>Sample Part Number</b>	<b>233-312</b> <b>NF</b> <b>G6</b> <b>-</b> <b>17</b> <b>6A</b> <b>N</b> <b>1</b>
<b>Series / Basic Part No.</b>	<b>233-312</b> = Cat 6A interface for D38999 type shell
<b>Material/Finish</b>	<b>NF</b> = Aluminum/cadmium olive drag    Contact factory for additional options <b>MT</b> = Aluminum/nickel PTFE <b>ME</b> = Aluminum/electroless nickel <b>ZR</b> = Aluminum/zinc-nickel
<b>Connector Style</b>	<b>G6</b> = Plug
<b>Plug Options</b>	<b>(-)</b> = CAT 6A (28 AWG) <b>A</b> = CAT 6A (22-24 AWG)
<b>Shell Size</b>	<b>17</b> and <b>19</b>
<b>RJ45 Category</b>	<b>6A</b> = Cat 6A
<b>Alternate Polarization</b>	<b>A, B, C, D, E, N</b> = Normal; Per MIL-DTL-38999
<b>RJ45 Orientation</b>	<b>1, 2, 3, 4</b>
<b>Strain Relief Style</b>	<b>A</b> = Accessory threads (accepts standard D38999 backshells) <b>T</b> = Shrink boot <b>M</b> = Over mold <b>Omit</b> for standard
<b>Cable OD</b>	<b>W</b> = Large cable OD up to .400 (10.16) <b>Omit</b> for cable OD .187/.312 (4.75/7.92)



**NOTES**

- | <p>1. Material/finish:</p> <ul style="list-style-type: none"> <li>• Barrel, coupling nut: see part number development. Composite coupling nut no plating required.</li> <li>• Insulators: high grade rigid dielectric/ N.A.</li> <li>• Seals: silicone based elastomer</li> <li>• Hardware: stainless steel/passivated</li> </ul> <p>2. RJ45 plug specifications:</p> <ul style="list-style-type: none"> <li>• RJ45 plug cable maintains shield continuity</li> <li>• RoHS compliant</li> </ul> | <p>Electrical</p> <ul style="list-style-type: none"> <li>• Current rating: 1 amp</li> <li>• D.W.V.: 1000V DC/min</li> <li>• I.R.: 500 Mega ohms minimum @ 1000V DC</li> <li>• Operating temperature range: -20°C to +85°C</li> </ul> <p>3. Meets IP68 in mated condition</p> <p>4. Design accommodates cable outside diameter 0.187 (4.750) to 0.400 (10.16)</p> <p>5. Design accommodates CAT 6A RJ45 modular plugs:<br/>                 (-) = CAT 6A, 28 AWG<br/>                 A = CAT 6A, 22-24 AWG</p> | <p>6. See assembly instructions AI233-312 for cable termination and connector assembly. Assembly instructions to be kitted with each shipment</p> <p>7. CAT 6A modular plugs packaged loose for each plug connector.</p> <p>8. Recommended torque value for different cable outside diameter.</p> <table border="1"> <thead> <tr> <th>Cable OD (in)</th> <th>.187/.225</th> <th>.225/.275</th> <th>.275/.312</th> <th>.312/.400</th> </tr> </thead> <tbody> <tr> <td>Torque (in/lbs)</td> <td>20.6</td> <td>18.3</td> <td>12.6</td> <td>10</td> </tr> </tbody> </table> | Cable OD (in) | .187/.225 | .225/.275 | .275/.312 | .312/.400 | Torque (in/lbs) | 20.6 | 18.3 | 12.6 | 10 |
|---|--|---|---------------|-----------|-----------|-----------|-----------|-----------------|------|------|------|----|
| Cable OD (in)   | .187/.225  | .225/.275   | .275/.312     | .312/.400 |           |           |           |                 |      |      |      |    |
| Torque (in/lbs)   | 20.6   | 18.3  | 12.6          | 10        |           |           |           |                 |      |      |      |    |

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