Amphenol® RPT Rugged Miniature Cylindrical Connectors

Amphenol® RPT Ruggedized Miniature Connectors

Designed with a stronger shell and reinforced keyway to perform in the harsh environments of the Geophysical Market.

- Machined shells for increased strength; 3 point bayonet coupling
- IP67 rated
- Anodized (nonconductive) shells for greater salt, corrosion and abrasion resistance
- Coupling nuts with or without round detent holes
- Solder contacts
- Available currently in shell sizes 16 & 20

RPT Connector Performance

Temperature rating: –55°C min., 125°C max.
Salt spray: 48 hr. unmated
Meets environmental requirements of MIL-C-26482G
Not intermateable with MIL-C-26482, Series 1
RPT Connector How to Order
Ordering procedure is illustrated by coded part number RPT05E16-8S(005) as shown below:

<table>
<thead>
<tr>
<th>Character</th>
<th>Code</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPT</td>
<td>05</td>
<td>E</td>
<td>16-8</td>
<td>S</td>
<td>(005)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Connector Type
   RPT designates Amphenol Rugged Miniature Cylindrical Connectors with bayonet coupling

2. Shell Style
   04 designates in-line receptacle
   05 designates cable plug with coupling nut, less hardware
   45 designates cable plug without coupling nut, less hardware

3. Service Class
   "E" designates environmental resisting connector

4. Shell Size and Insert Arrangement
   16-8 (Shell size 16 with 8 size. 16 contacts)
   20-16 (Shell size 20 with 16 size. 16 contacts)

5. Contact Type
   P designates pin, S designates socket

6. Plating Suffix
   (Anodized)

RPT Connector Shell Styles

In-Line Receptacle..........RPT04*

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>L Max.</th>
<th>V Thread Plated Class 2A</th>
<th>S ±.016</th>
<th>SS Dia. +.000 −.016</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1.031</td>
<td>1.000-20 UNEF</td>
<td>1.410</td>
<td>1.297</td>
</tr>
<tr>
<td>20</td>
<td>1.188</td>
<td>1.250-18 UNEF</td>
<td>1.630</td>
<td>1.510</td>
</tr>
</tbody>
</table>

Cable Plug with Coupling Nut........RPT05*

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>A +.000 −.005</th>
<th>L Ref.</th>
<th>Q Ref.</th>
<th>V Thread Plated Class 2A</th>
<th>S Dia. Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1.174</td>
<td>.916</td>
<td>.947</td>
<td>1.000-20 UNEF</td>
<td>1.500</td>
</tr>
<tr>
<td>20</td>
<td>1.390</td>
<td>1.069</td>
<td>1.099</td>
<td>1.250-18 UNEF</td>
<td>1.700</td>
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</tbody>
</table>

Cable Plug without Coupling Nut... RPT45*

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Without Detent Holes</th>
<th>With Detent Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>RPTCN-165</td>
<td>RPTCN-H165</td>
</tr>
<tr>
<td>20</td>
<td>RPTCN-205</td>
<td>RPTCN-H205</td>
</tr>
</tbody>
</table>

*To complete order number see how to order on front.
All dimensions for reference only.

For availability of wall mount receptacle style or jam nut receptacle style connectors, and additional insert arrangements, consult Amphenol Industrial.

Also see Amphenol Miniature Cylindrical Connectors, MIL-C-26482, Series 1 (catalog 12-070-15).
Also see Amphenol Aerospace and Industrial Product Overview catalog SL-100.

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