Amphenol® RPT Rugged Miniature Cylindrical Connectors

No. 196-2

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>RPT</th>
<th>05</th>
<th>E</th>
<th>16-8</th>
<th>S</th>
<th>(005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</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
   - (consult Amphenol Industrial for availability of other shell styles)

3. Service Class
   - “E” designates environmental resisting connector

4. Shell Size and Insert Arrangement
   - 16-8 (Shell size 16 with 8 sz. 16 contacts)
   - 20-16 (Shell size 20 with 16 sz. 16 contacts)
   - (consult Amphenol Industrial for availability of other insert arrangements)

5. Contact Type
   - P designates pin, S designates socket

6. Plating Suffix
   - (Anodized)

RPT Connectors for Harsh Environments

Coupling nut shown removed from plug. Connector can be ordered with or without coupling nut.

RPT Connectors are ideal for geophysical and oil exploration usage.
**RPT Connector Shell Styles**

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

![Diagram of In-Line Receptacle](image)

<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 −.0016</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*

![Diagram of Cable Plug with Coupling Nut](image)

<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 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>
</tr>
</tbody>
</table>

### Cable Plug without Coupling Nut ... RPT45*

![Diagram of Cable Plug without Coupling Nut](image)

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Coupling Nut Part Number Purchased Separately</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Without Detent Holes</td>
</tr>
<tr>
<td>16</td>
<td>RPTCN-165</td>
</tr>
<tr>
<td>20</td>
<td>RPTCN-205</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.

For additional information on this product or other Amphenol products contact:
Amphenol Corporation,
Amphenol Industrial Operations
40-60 Delaware Avenue, Sidney, New York 13838-1395
Phone: 1-607-563-5011 or 800-678-0141; Fax: 1-607-563-5351
Web: www.amphenol-industrial.com
Also see Amphenol Miniature Cylindrical Connectors, MIL-C-26482, Series 1 (catalog 12-070).
Also see Amphenol Aerospace and Industrial Product Overview catalog SL-100.

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