MIL-DTL-38999 Series III Nickel Aluminium Bronze

The TV series is the highest performance MIL-DTL-38999 connector offered by Amphenol Ltd and features a quick-release tri-start coarse threaded coupling nut with anti-vibration mechanism and 100% scoop proof contact protection.

Amphenol Ltd's TVRB range of CECC-75-201-002 compliant Nickel Aluminium Bronze circular connectors were originally developed for marine applications as this tough shell material offers a high degree of corrosion resistance.

More recently these connectors are increasingly being used for ground based applications as they are RoHS compliant, non-reflective and highly durable. The rugged un-plated finish also offers excellent resistance to sand and dust in desert environments, and excellent water resistance in humid conditions. Derived from the MIL-DTL-38999 series III specification, the connectors are completely intermateable and interchangeable with other series III products.

Amphenol Ltd also supplies a complete range of Nickel Aluminium Bronze backshells and protective caps to complement this series of connectors providing environmental and EMC protection.

Amphenol Ltd's Nickel Aluminium Bronze series is widely used in all salt-water applications in commercial marine and naval environments where high corrosion resistance, environmental sealing and high vibration endurance are required.

Key Features

- **Technology.** Quick release triple start threaded coupling nut, anti-vibration mechanism, scoop-proof contact protection.
- **Mechanical.** Over 100 insert arrangements, 9 different shell sizes, 5 different contact sizes, high power, high density and high speed and fibre options, crimp and poke home contacts or pintail PCB contacts, up to 128 ways.
- **Environmental.** RoHS compliant, Operating temperature -65°C to +200°C.
  - 2000hrs salt spray, Vibration - Sinusodial 60g, 140 to 2000Hz.
  - 500+ Mating cycles Environmentally sealed.
- Fluid resistant
Nickel Aluminium Bronze

Where traditional plating finishes can quickly be eroded by sand and dust revealing weaker base materials, Nickel Aluminium Bronze will remain robust in the harshest of environments.

Most complimentary styles of connectors are also available in Marine Aluminium Bronze, depending upon the needs of the application - Lanyard release connectors, breakaway, push and pull, through-bulkhead, hermetically sealed, PCB dual flange and filtered solutions can all be readily supplied - Please consult the factory with any specific requirements that you may have.

Amphenol Ltd also has in-house facilities to design, prototype and build customised cable assemblies to deliver a complete interconnect solution.

Ordering Information

eg. TVPS00RB-11-35SA(WXXX)

<table>
<thead>
<tr>
<th>Series</th>
<th>Shell Size</th>
<th>Contact</th>
<th>Class</th>
<th>Shell Size and Insert Arrangement</th>
<th>Contact style</th>
<th>Keyway</th>
<th>Deviation Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-</td>
<td>PS00 = Wall mount receptacle PS02 = Box mount receptacle S07 = Jam nut receptacle</td>
<td>R = Removable Contacts</td>
<td>B = Nickel Aluminium Bronze</td>
<td>See D39999 catalogue for all available options. e.g 09-35 11-35 13-98 15-97 etc</td>
<td>P = Pin Contact S = Socket Contact</td>
<td>N</td>
<td>L/C = Less Contact W02 = Drilled, Tapped, Flange W03 = Pin-tail Contacts</td>
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<tr>
<td>M/DTL-39999</td>
<td>S06 = Grounded plug</td>
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<td>Series III</td>
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(WXXX) = deviation code if applicable

Typical Applications

- External Battlefield Communications
- Naval Marine
- Commercial Marine
- High vibration and EMI/RFI environments
- Highly abrasive environments
- Highly corrosive environments

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