SERIES 390

BacNav OFS

Outstanding repositionable backshell for harsh-environment applications

Designed for use in rugged shipboard applications as well as military ground systems such as armored vehicles, the Glenair BacNav OFS delivers outstanding mechanical, electrical, and environmental performance. The innovative design incorporates an environmentally-sealed, EMI shielded core with a locking pivot that facilitates cable routing and eliminates the need to stock discrete straight, 45° and 90° variants of standard wire sealing, strain relief, and EMI shield termination backshells. Built to withstand the handling abuse that topside and below-deck electrical and fiber optic interconnect systems are routinely subjected to by ham-fisted sailors and marines, the BacNav OFS is purpose-designed to deliver life-of-ship and life-of-system performance and durability. Available for the broad range of power, signal, and fiber optic connector systems—including MIL-PRF-28876 and MIL-PRF-64266 (fiber optics) to MIL-DTL-28840, ASS0151, and more—BacNav OFS meets every current requirement for backshell-equipped connectorized cabling.

- Easy repositioning from straight, 45° and 90° cable-exit orientations
- Submersible performance without the need for shrink boots
- Durable, flexible EMI/RFI and environmentally-sealed core with locking-pivot Swing-Arm™ frame
- Accommodates power, signal and fiber optic jacketed cables
- Reposition terminated cables with no impact on signal integrity or system performance
- Easy repeatable assembly process using standard tools

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SERIES 390

BacNav OFS repositionable harsh-environment backshell
Outstanding, flexible performance

BacNav OFS is the only fully-sealed EMI/RFI backshell and strain relief device that delivers fast and easy cable angle configuration in the field—using a common 7/64” hex wrench, and without decoupling from the connector and/or cable. The sealed, flexible connector backshell adjusts to straight, 45° and 90° cable angles with zero impact on signal integrity or system performance.

<table>
<thead>
<tr>
<th>PERFORMANCE DATA</th>
<th>DESCRIPTION</th>
<th>REQUIREMENT</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetic permeability</td>
<td>Less than 2.0µ</td>
<td>EIA-364-54</td>
<td></td>
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<tr>
<td>Shell conductivity</td>
<td>&lt; 2.5 milliohms</td>
<td>EIA-364-83</td>
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<tr>
<td>Salt spray (corrosion)</td>
<td>No exposure of basis material as defined in AIR4789 for 500 hours</td>
<td>EIA 364-26</td>
<td></td>
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<tr>
<td>Vibration</td>
<td>CIT &lt;0.5dB No discontinuities No damage</td>
<td>MIL-STD-167-1A (SHIPS), paragraph 5.1.2.4.6 (endurance test)</td>
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<tr>
<td>Shock</td>
<td>CIT &lt;0.5dB No discontinuities No damage</td>
<td>MIL-S-901D, grade A, Class 1</td>
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<tr>
<td>Water pressure</td>
<td>10 meters for 48 hours (IP68)</td>
<td>QTP-384</td>
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<tr>
<td>Cable pullout</td>
<td>No slippage exceeding 1/8” CIT &lt;0.5dB</td>
<td>EIA 364-38</td>
<td>TIA-455-6</td>
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<tr>
<td>Coupling thread strength</td>
<td>No damage at 3X magnification</td>
<td>AS85049 (Heavy Duty)</td>
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<tr>
<td>External bending moment</td>
<td>300-750 in-lbs (size dependant)</td>
<td>AS85049 (Heavy Duty) QTP-384</td>
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<tr>
<td>Fluid immersion</td>
<td>No changes detrimental to performance</td>
<td>EIA 364-10</td>
<td></td>
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<tr>
<td>Insertion loss</td>
<td>MIL-STD-1678-2 Appendix C, Table 2101 C-I</td>
<td>TIA-455-34 Method A</td>
<td></td>
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<tr>
<td>Cable seal flexing</td>
<td>100 cycles/axis</td>
<td>TIA-455-1</td>
<td></td>
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<tr>
<td>Twist</td>
<td>50 cycles • No damage/leaks</td>
<td>TIA-455-36</td>
<td></td>
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<tr>
<td>Impact</td>
<td>8 drops • No damage detrimental to performance</td>
<td>TIA-455-2 Method B</td>
<td></td>
</tr>
<tr>
<td>Crush</td>
<td>7 cycles 1,250 N (281 lbs)</td>
<td>TIA-455-26</td>
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<tr>
<td>Thermal Shock</td>
<td>5 cycles -40°C to +85°C (-40°F to +185°F)</td>
<td>TIA-455-71</td>
<td></td>
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<tr>
<td>Temp/humidity cycling</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-5 Method B</td>
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<tr>
<td>Temperature cycling</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-3</td>
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<tr>
<td>Life Aging</td>
<td>10 cycles</td>
<td>QTP-384-F</td>
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<tr>
<td>Freezing water immersion</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-98</td>
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<tr>
<td>Sand and dust</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-35</td>
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<tr>
<td>Modified SO2/salt spray</td>
<td>240 hours • No damage detrimental to performance</td>
<td>ASTM G85 + Annex A4</td>
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</tbody>
</table>

(1) Tested with MIL-PRF-28876 Multi-mode Fiber-Optic connectors
(2) Tested with Cadmium/Olive-Drab finish option (code NF)