ADVANCED PERFORMANCE

Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors

Testing Specifications

<table>
<tr><th>Description</th><th>Requirement</th><th>Procedure</th></tr>
<tr><td>Contact Resistance</td><td>Low level: the low signal level contact resistance of mated contact pairs shall be measured in accordance with VG95234-1 (Para. 5.10.1).

CONTACT RESISTANCE
<table><tr><th>Contact Size</th><th>Contact Resistance (mΩ Max.)</th></tr><tr><td>16</td><td>6</td></tr><tr><td>12</td><td>3</td></tr><tr><td>8</td><td>1</td></tr><tr><td>4</td><td>0.5</td></tr><tr><td>1/0</td><td>0.2</td></tr></table></td><td>VG95234-1</td></tr>
<tr><td>Contact Retention</td><td>CONTACT RETENTION
<table><tr><th>Contact Size</th><th>Min. Pounds</th></tr><tr><td>16</td><td>25</td></tr><tr><td>12</td><td>30</td></tr><tr><td>8</td><td>50</td></tr><tr><td>4</td><td>60</td></tr><tr><td>1/0</td><td>75</td></tr></table></td><td>EIA-364-29 MethodB</td></tr>
<tr><td>Current Rating</td><td>CURRENT RATING
<table><tr><th>Contact Size</th><th>Rated Current (20°C)</th><th>Rated Current (80°C)</th></tr><tr><td>16</td><td>25</td><td>15</td></tr><tr><td>12</td><td>50</td><td>28</td></tr><tr><td>8</td><td>90</td><td>70</td></tr><tr><td>4</td><td>160</td><td>130</td></tr><tr><td>1/0</td><td>300</td><td>250</td></tr><tr><td>2/0</td><td>330</td><td>280</td></tr></table></td><td>EIA-364-70</td></tr>
<tr><td>Dielectric Withstanding Voltage at Sea Level</td><td>Service Rating E
No breakdown or flashover at
4000 Vac RMS - 50 Hz
2 mA max. leakage current

Service Rating B
No breakdown or flashover at
4500 Vac RMS - 50 Hz
2 mA max. leakage current</td><td>MIL-DTL-5015H</td></tr>
</table>

© 2020 Glenair, Inc • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • U.S. CAGE code 06324 • Super ITS™ catalog
Dimensions in millimeter (inches) are subject to change without notice.

Testing Specifications

Description	Requirement	Procedure
Dynamic Corrosion	The connectors shall be subjected at 50 cycles of mating/unmating then at XXX hours of salt spray (see platings limit for the hour of test) and then another 50 cycles of mating/unmating shall be performed. Connectors shall show no exposure of the base metal. Connectors shall meet DWV, contact resistance, shell to shell resistance.	MIL-DTL-5015H
High Impact Shock	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after vibration test. 3 shocks for each direction; 50G, 11ms (VG95234 and SAE AS 50151C)	MIL-DTL-38999L
Ingress Protection, Mated	IPX8 rating IPX9K rating.	IEC-60529 DIN 40050-9
Insert Retention	Unmated connector. 100 ± 5 pounds per square inch with a 25 pounds minimum force.	MIL-DTL-38999L
Insulation Resistance at Ambient Temperature	The measure of the insulation resistance shall be done with 500 Vdc. Insulation resistance shall be greater than 5G ohm	MIL-DTL-5015H
Insulation Resistance at Elevated Temperature	The measure of the insulation resistance shall be done after 30 min at 200°C with 500 Vdc. Insulation resistance shall be greater than 1000 MΩ.	EIA-364-21
Mechanical Durability, at Ambient Temperature	The connectors shall be subjected at 2000 cycles of mating/unmating.	MIL-DTL-5015H

© 2020 Glenair, Inc • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • U.S. CAGE code 06324 • Super ITS™ catalog
Dimensions in millimeter (inches) are subject to change without notice.

Testing Specifications

Description	Requirement	Procedure
Moisture Resistance	In accordance with EIA-364-31 method IV. The insulation resistance shall be not less than 100 MΩ.	MIL-DTL-5015H
Operating Temperature	See plating operating temperature.	
Shell Conductivity	The overall DC resistance shall be R ≤ 5mΩ	MIL-DTL-5015H
Thermal Shock	The connectors shall be subjected at 5 cycles of thermal shock (30min + 30 min). For the temperature see the platings limit. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell to shell resistance requirement.	MIL-DTL-5015H
Vibration, Sine	Mated connectors shall not be damaged and there shall be no loosening of parts due to vibration. Counterpart connectors shall be retained in full engagement. The interruption of electrical continuity shall be not longer than 10 microseconds.	MIL-DTL-5015H
Water Pressure	The connectors shall be submerged in water at 1 bar of pressure for 12h. The connectors shall show no evidence of entrance of water.	VG95234

© 2020 Glenair, Inc • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • U.S. CAGE code 06324 • Super ITS™ catalog
Dimensions in millimeter (inches) are subject to change without notice.