SERIES 89 NANOMINIATURE CONNECTORS Circular and Rectangular Connectors Glenair.



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Series 89 Nanominiature Connectors

Key Features

- 1 AMP Current Rating
- .025 Inch (0.64 mm.) Contact Spacing
- #30 and #32 Gage Wire Accommodation
- Single and Double Row

- Metal Shell, Aluminum, Titanium or Stainless Steel
- TwistPin Contact System
- Gold Alloy Contact, Unplated
- Thru-Hole and Surface Mount PCB Versions

Nanominiature Connectors at a Glance

Nanominiature connectors are high reliability ultraminiature interconnects intended for critical applications where size and weight restrictions will not allow the use of larger connectors.

Typical applications include miniaturized electronics boxes used in UAV's, satellites, missile systems, and geophysical instruments. Contact spacing of 0.025 inches combined with a rugged contact system allow these nano connectors to be used in demanding environments where commercialgrade connectors should not be used.



MIL-DTL-32139 At-A-Glance

High reliability nanominiature connectors are covered by millitary specification MIL-DTL-32139. This document assures intermateability and interchangeability. The specification covers prewired single and double row metal shell connectors manufactured and qualified by Glenair. The Glenair Series 89 products in this catalog also meet the electrical, mechanical and interface requirements of the military specification, but offer options not specifically covered in the mil-spec.

How Small Are They?	
D-Subminiature Connector Contacts on 0.109 Inch Spacing Discrete Connector Discrete Connector Contacts on 0.050 Inch Spacing	<text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text>
Nano Connector Contacts on 0.025 Inch Spacing	Comment, suggestions or strait document docut the addressed to Common Define Budget and Countries, Amir VA, 390 Each and Sance Countries, Countries, Define the Statistication Countries (Sance Countries, Countr

© 2016 Glenair, Inc • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • Series 89 Nanominiature Catalog U.S. CAGE code 06324/0CA77 • Dimensions in Inches (millimeters) are subject to change without notice.

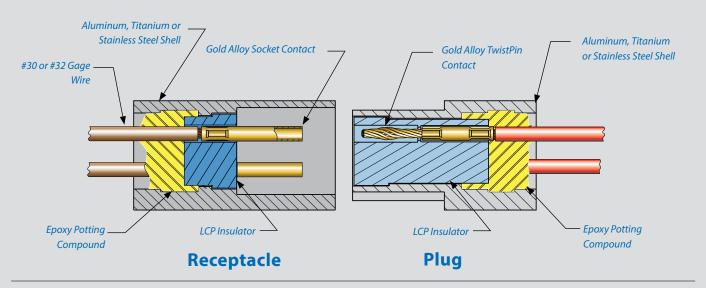
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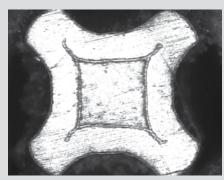
Series 89 Cutaway View



The Nano TwistPin Advantage



MIL-DTL-32139 defines the minimum acceptable performance levels for Nanominiature connectors. Manufacturers are given considerable leeway when it comes to contact design, wire termination, contact finish and material selection. Stamped and formed contacts, for example, are used in nanominiature connectors due to their low-cost and ease of manufacture. But independent testing clearly shows that TwistPin style contacts provide superior performance in hostile environments. If you have already made the decision to use a Nano sized connector, then you owe it to yourself to understand the very real differences between stamped pins and the Glenair TwistPin Contact System.



Transverse Cross-Section of a TwistPin **Contact Crimped to Solid Wire**

Three Reasons to Choose TwistPins

Gas-Tight Crimp Joint

TwistPin contacts assure gas-tight crimp joints for stable resistance after years of environmental exposure. The photograph at left demonstrates the superiority of a gas-tight, void-free 4-indent crimp.

Better Shock and Vibration Performance

Let The nanominiature TwistPin contact is made from six strands of wire. The five outer strands provide multiple points of contact with the mating socket contact for superior shock and vibration performance.

Corrosion-Proof Contact Alloy

Both the TwistPin contact and the mating socket contact are made from a special alloy consisting of 71% gold, 8% platinum and 5% silver alloyed with copper and zinc.