

SERIES 89 NANOMINIATURE Rectangular and Circular Connectors



RoHS Compliance Guidelines

INTRODUCTION TwistPin Connectors and RoHS Compliance

European Union Directive 2011/65/EU, with amendment 2015/863, on Restriction of Hazardous Substances (“RoHS”) states that certain types of equipment (primarily consumer electronic products such as personal computers) shall not contain lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, or DIBP. For the record, Glenair does not produce any OEM products of this type. Furthermore, our interconnect components are either free of the substances RoHS controls, or specifically intended for use in military-aerospace applications that are exempt. Please contact the factory to verify all components meet RoHS compliance regulations.

Are Nano connectors RoHS compliant?

The products in this catalog can be ordered with various plating finishes. Some finishes for example cadmium along with solder-dipping, do not comply with the RoHS directive.

Why doesn't Glenair eliminate non-RoHS products?

Glenair products are typically used in defense and aerospace equipment exempt from RoHS requirements. Glenair continues to offer cadmium and chromate finishes in accordance with DoD and aerospace specifications. Our part numbers contain a broad range of finish and component options. RoHS compliant finishes can easily be requested if desired.

Examples of products that do not comply with RoHS regulations:

1 Cadmium plating.

Is available on metal shell connectors in this catalog. Note that cadmium plating does not currently comply with RoHS rules.

2 Tin-lead solder dipped printed circuit board tails.

Board mount M32139 Nanos and other products are normally solder dipped in 63% tin 37% lead or 60% tin 40% lead molten solder. RoHS compliance for consumer products requires elimination of solder coatings containing lead.

Examples of RoHS materials for easy selection:

1 Specify electroless nickel plating on the connector shell.

Or, choose stainless steel shells for maximum corrosion protection and RoHS compliance.

2 Use Mod Code 513 on Nano board mount connectors.

Board mount Nanominiatures and other products normally solder dipped in 63% tin 37% or 60% tin 40% lead molten solder. Any solder-dipped part can be supplied with RoHS compliant gold-plating instead, by simply adding Mod Code 513 as a suffix to the standard part number.

NANO CONNECTOR PLATING CODES: ROHS COMPLIANCE			
Plating Code	Plating Type	RoHS	Notes
A1	Cadmium with yellow chromate conversion coating over electroless nickel	No	Electroless nickel is the preferred alternate.
A2	Electroless nickel	Yes	First choice for RoHS compliance. Good corrosion resistance, excellent conductivity, M32139 approved, always in stock.
A31	Zinc nickel black	Yes	
A33	Nickel PTFE	Yes	
S	Stainless steel shell, passivated	Yes	Higher cost but unsurpassed corrosion resistance, not conductive enough for typical EMI needs. Build-to-order.
T	Titanium, unplated	Yes	Higher cost but unsurpassed corrosion resistance, not conductive enough for typical EMI needs. Build-to-order.

NANO CONNECTOR ROHS MATERIAL EXAMPLES			
Part Number	Problem	Solution	RoHS Compliant Part Number
891-001-25PA1-125	Plating code A1 specifies cadmium plating.	Change to electroless nickel plating (plating code A2).	891-001-25PA2-125
891-008-25PA2-BRTIT	PCB connectors are solder-dipped in tin-lead.	Add Mod Code 513 to change the PC tail finish to gold plating.	891-008-25PA2-BRTIT-513
891-008-25PA1-BRTIT	Cadmium plated shell and solder-dipped contacts.	Change to nickel plating and PC tail finish to gold plating	891-008-25PA2-BRTIT-513