ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors

Application Notes / other Glenair Nuclear Connectors

GLENAIR SERIES ITS-NG APPLICATION NOTES

- Glenair Series Super ITS-NG connectors are based on the MIL-DTL-5015 standard (sharing the same broad range of insert arrangements, see Appendix), but feature an improved reverse-bayonet quick-disconnect coupling technology.
- The Super ITS-NG family of connectors features design enhancements for Gen II plant containment area (Class 1E) / safety-related applications.
- For new interconnect applications in modern-day power plants, Glenair offers our SuperNG or Mighty Mouse NG series connectors (currently undergoing qualification to the latest and most severe LOCA test and long-term durability requirements that also include long term submersion).
- The Super ITS-NG is considered particularly appropriate for retrofit and refurbishment applications as the 3-point bayonet coupling mechanism reduces mating time—an important consideration in time-sensitive plant refurbishment work. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in severe vibration applications.
- Both plug and receptacle connector configurations are configured with dynamic peripheral seals for environmental sealing.
- Glenair Super ITS-NG connectors share the same insert arrangements, shell dimensions, supported contacts, and electrical performance ratings as MIL-DTL-5015 and VG 95234 connectors and are fully intermateable with other brands of Gen II rated VG standard reverse-bayonet and quarter-turn 5015 nuclear connectors.
- Glenair Super ITS-NG connectors are also well-suited for use in applications where electromagnetic compatibility is a requirement. A complete range of EMI shield termination accessories is available for both overall as well as individual wire shields.

Materials and Finishes	
Shells, Coupling Nuts	316 Stainless Steel, Passivated
Contacts	Copper alloy, Siver or Gold Plated
Hoods (Socket contacts)	Copper Alloy, Nickel Plated
Pencil Clip (Socket contacts)	Stainless Steel
Wave Spring	Stainless Steel
Grounding Finger	Beryllium Copper
Inserts, O-rings	Radiation-resistant EPDM

ALSO AVAILABLE: GLENAIR SIGNATURE HIGH-PERFORMANCE NUCLEAR-GRADE CONNECTORS FOR NEW APPLICATIONS

SUPER NG
DOUBLE PERIPHERAL SEAL QUICK-CONNECT SERIES FOR STRINGENT CLASS 1E CONTAINMENT AREA APPLICATIONS

MIGHTY MOUSE NG
ULTRAMINIATURE HIGH-PRESSURE QUICK-CONNECT FOR NEW PLANT CLASS 1E CONTAINMENT AREA APPLICATIONS

VIsit **GLENAIR.COM/NUCLEAR-GRADE-CONNECTORS-AND-ACCESSORIES** for specifications and how-to-order information

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Dimensions in millimeter (inches) are subject to change without notice.