

The widest range of  
mission-critical interconnect  
technologies in the world



**Glenair Italia Business, Product, and  
Market Capabilities**

# Glenair Worldwide

- Privately owned
- Original location in Glendale (CA)
- Today, five vertically-integrated manufacturing facilities
  - Glendale, Chicago, Anaheim
  - Mansfield, United Kingdom
  - Bologna, Italy



# Glenair Global Support

-  Glenair Plant:
-  Glenair Sales Office
-  Glenair Representative



# Glenair Italia

**Glenair Italia S.p.A.**  
Via del Lavoro, 7  
40057 Quarto Inferiore  
Granarolo dell'Emilia  
Bologna, Italy

Telephone:  
39-051-782811  
Facsimile:  
39-051-782259  
info@glenair.it

Size: 21.000+ sq. meters  
Employees: 300



# Glenair Italia Operations

Engineering, R&D



Test Laboratories



Warehouse



# Glenair Italia Operations (continued)

**Machining**



**Assembly**



**Plating**



**Cabling / Fiber Optics**



# Glenair Italia Quality Certifications

**IECEX**  
Certification



**ISO 9001**  
DNV Certification



**ISO 9100**  
DNV Certification



**ISO 9120**  
DNV Certification



**IRIS**  
IRIS Certification



**VDE**  
VDE Certification



**VG**  
BWB Certification



# Glenair Italia In-House Certified Third-Party Test Laboratory

## ISO 17025 Approved: electrical, environmental, mechanical



Product test capabilities:

Connectors, Circuits, Resistors, Switches, Relays, Transformers, Electrical Harnesses, Fiber Optics





# Glenair Italia Connector Capabilities



Multi-Pin Circular Power Connectors



Single-Pole Power Connectors



High Current / High Voltage



Special Purpose

# VG95234 Series ITS (And FRITS) 5015 Type Reverse Bayonet Connectors

- Derived from MIL-DTL-5015, intermate with Veam CIR and Amphenol GT series
- Several options available: platings, insert materials, contacts, backshell terminations, etc.
- Version for Mass Transit Market uses fire resistant inserts (testing available)
- Flame: ASTM E162; Smoke: ASTM E662; Toxicity: SMP800C



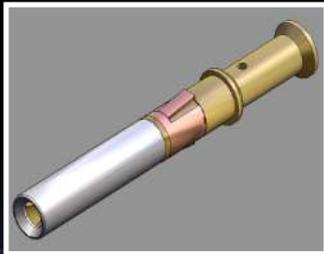
# Series ITS Specifications

- Size 20, 18, 16, 12, 8, 4, 0, 4/0 silver, gold and heavy gold crimp contacts (plus metric wire barrel entries)
- Over 200 insert arrangements and 12 shell sizes
- Available 8 AWG coaxial contacts
- Aluminum alloy with cadmium-free surface coatings
- -55° C to +125° C continuous temperature rating
- Chemical and moisture resistant synthetic rubber inserts
- 7.5 to 350 AMPS depending on contact selection
- Operating voltage by service ratings:
  - A: 250 VDC
  - D: 700 VDC
  - E: 1250 VDC
  - B: 2450 VDC
  - C: 4200 VDC



# Series ITH

## Rigid insert mechanical contact retention derivative



- Machined contact with retention clip (front release)
- Silicon front seal gasket and grommet

# Series FRITS - STR

**STR backshells lock the cables or wires inside the connector, assuring IP67 environmental rating.**

- Possible to use different cable gages with each connector size
- Termination of multi-screened cables is accomplished by locking the braids between sectors
- Availability of different terminations for PG or Metric cable glands, rubber conduits, etc.



# Series ITK

## High Temperature Ceramic Insert

- Engine application connector
- Up to 700°F continuous operating temperature
- Stainless steel shells and accessories



# High Current / High Voltage Solutions



## IRT Series

- High Current, High Voltage
- 450A Current, 1500 VAC
- Screw or Lever Coupling
- 3, 4 or 6 Contacts



## 901 Series

- High Current, Lower Voltage
- 450A Current, 800-1000 VAC
- Bayonet or Thread Coupling
- 2 to 4 Contact Combinations
- UL Recognized



## 500 Series

- High Current, High Voltage
- 750A Current, 3000 Vcc
- Bayonet Coupling
- Single Pole

# Series IRT Traction Motor Connectors

## IRT Multi-Pole Power Connector Series with 3 or 4 contacts

- Screw fastener coupling or lever system with lock
- Working voltage: 1500 – 3000 VAC
- Test voltage: 4500 VAC
- Temperature range: -55°C to +125°C
- Waterproof IP67, mated condition
- Suitable for single cables, 4AWG - 373 MCM (35-185mm<sup>2</sup>)
- Gland or clamp strain relief



# Series ITS 901 Jumper Connectors

## ITS 901 Reverse-Bayonet Multi Pole Power Connectors

- For power cables over AWG 1/0.
- Accepts cable from AWG 4 to 262 MCM (4AWG - 262 MCM (35-120mm<sup>2</sup>), for current up to 450 Amp.
- Available for single wires and multipole jacketed cables, with cable clamp or conduit.
- Male contacts with Finger Test Protection, Load Side (Receptacle or Plug).
- Long bayonet ramps, three polarization keys and rubber recovered coupling facilitate mating and unmating operations.
- 500 Mating Cycles
- IP67 Sealing (Coupled Connectors); Fire Resistant materials



# Series IGE: Single Pole Power Connectors

- Single pole connectors used for transmission of high currents with low voltage, as, for example, on military vehicles or industrial equipment.
- Reverse bayonet coupling
- 5 connector sizes
- Current Rating: 225A to 950A



# Series 921 Super ITS

Next-generation 5015 power connector with improved electrical performance and speed-of-assembly

- Rigid insert with mechanical contact retention
- Higher temperature range: -55° to +180°C
- Higher ampacity with new-generation cable
- Front release and single wire seal instead of rear grommet
- 2,000 mating cycles low force contacts and turning coupling nut pin
- Environmental seal: IP69K

**SUPER**  
**I T S**



# ITS-Ex Connectors



## ITS-Ex IEC/ATEX Qualified Hazardous/Explosive Zone Connectors

- Over 40 power and signal contact arrangements
- Full support for armored and unarmored cable
- MIL-DTL-5015 crimp-contact derivative solution
- Locking set screw-equipped coupling nut and protective safety covers
- Extended shell labyrinth cooling zone and potting chamber on all designs
- Mechanical cable clamp, basket weave, and Ex d cable gland accessories
- IP68 water, vapor, moisture and dust protection in mated condition



# RadGrip



## Rubber-covered coupling nut connectors

- For fast, easy mating of ITS series bayonet connectors
- Improved coupling nut protection
- Ergonomic design
- High shock and vibration protection
- Chemical resistant
- Colored for connector identification



# SeaCrow™ Harsh Environment Marine Bronze Connectors



## Rugged Marine Bronze for harsh environments

- Marine bronze alloy for superior corrosion resistance in seawater and other harsh environments
- Ideal for shipboard and offshore drilling applications
- IP67 environmental sealing in mated condition; IP68 available
- Hundreds of available contact arrangements for both power and signal as well as hybrid applications



# SeaCrow™ Harsh Environment Marine Bronze Connectors



ITS-MB

ITS reverse-bayonet  
VG95234-compliant



IPT-MB

IPT / 26482 high-density  
VG 95328-compliant



IGE-MB

IGE reverse-bayonet  
single-pole  
VG96929-compliant



IT-MB

IT Threaded 5015  
MIL-DTL-5015-compliant

# Octobyte 4/8 Pole Interconnect System

The Ethernet MVB-WTB datalink solution for rail networks, passenger information, and other harsh industrial applications

- High-speed Ethernet for ultra-harsh industrial environments
- Hybrid Ethernet, signal and power
- Anti-vibration coupling
- MVB-WTB and Coax with limited loss over long distances and multiple interconnection breaks

*Octobyte*



# SuperSeal™

High Performance Mighty Mouse, D38999 type,  
5015 type, 28840 type RJ-45 and USB



- IP67 sealing in unmated condition
- Crimp and poke termination
- Superior grounding



# Series 928 HMI Connectors

## Quarter-turn bayonet plugs and receptacles for ballast and head connectors

- High quality, extremely durable and safe, reliable connections between ballast and lamps
- Robust coupling mechanism for the area most affected by wear and tear
  - Arctic Coupling nut and RadGrip
- A snag-less clamp and seal mechanism for every cable type and/or size (EZ-Clamp)
- Connectors compatible with all major HMI Lamp manufacturers from 400w to 24kW



# IPT Series Connectors

## Derived from MIL-C-26482-Series I and VG95328

- Insert arrangements with 2 to 61 crimp contacts and 7 contact sizes
- Current rating: 7.5A to 13A
- Intermateable with MIL-C-26482 Series I and VG95328
- Compatibility as well to BS9522 F0017
- Specials or custom designs available
- Various classes available



**IPT SE Series**  
High Performance  
Crimp Contact  
MIL-C-26482 Type  
Bayonet Connector



# Core Connector Technology

## VG96934-VG95351-VG95328

- CB Series audio connectors
- 4, 7, 10, 12 poles
- Spring loaded contacts and power connectors (20 and 16 AWG contacts) for military /civilian radio and telecommunications systems.
- Environmental sealing: IP67/IP68
- RoHS compliant available
- Markets: **MILITARY-INDUSTRIAL-MASS TRANSIT-OIL and GAS**



# Core Connector Technology

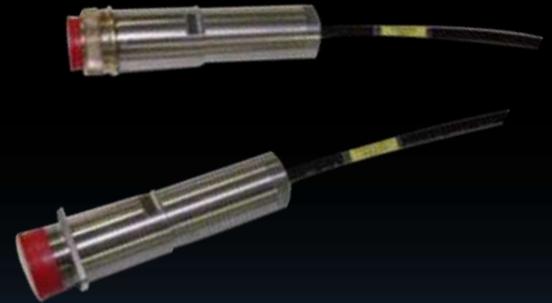
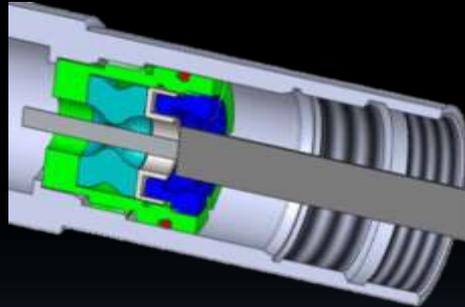
## Umbilical Connectors

- Special connector ( Umbilical) to connect launcher and Missile.
- Adapters with and w/out Nitrogen Fitting Provision.
- Flexible buffer to compensate interface deflection
- Markets: **MIL-AERO**



# Special Underwater Series

- Stainless Steel AISI 316L
- Double barrier
- Melting tested 300 bars
- Power-Signal- FO



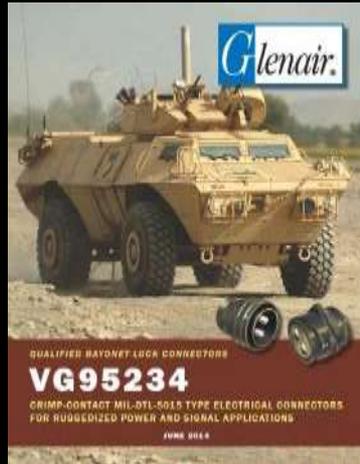
# Special Underwater Series

- 3 Single phase 24 and 36KV
- Circular connectors multiwire
- Power and Fiber Optic

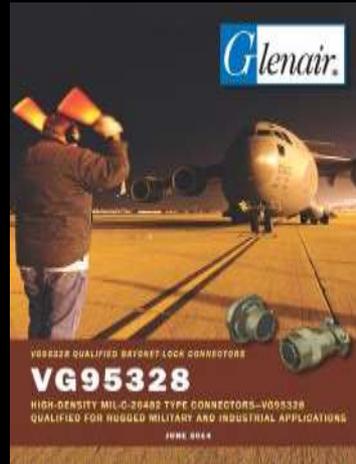


# VG Series Connectors

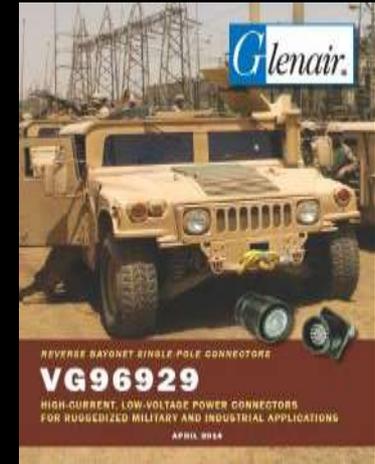
VG-qualified for use in European defense and industrial applications



MIL-DTL-5015 type  
reverse-bayonet



MIL-DTL-26482 type  
bayonet-lock



MIL-DTL-5015 type  
reverse-bayonet  
single-pole

# Turnkey Cable Assemblies and Harnesses

- Power
- Signal
- Fiber Optic



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