Military / Defense Interconnect Solutions

For Ground, Sea, Air, and Space Applications

SOLDIER APPLICATIONS

- STAR-PAN™ Scalable Soldier Networks
- STAR-PAN™ MISSION MANAGER
- Tactical Soldier Cables
- MouseBud™ Snap-Lock, Trigger Release Connectors
- Series 804 Mighty Mouse QDC NATO Tactical Soldier Connectors
- SuperFly™ and SuperFly Datalink™ Nanominiature Tactical Connectors
- El Ochito™ Octaxial Ethernet Contacts and Connectors
- HiPer 55116 Advanced-Performance Audio / Radio Connectors
- Series 701 SeaKing™ Junior Dry-Mate Deep Water Connector

MILITARY VEHICLE APPLICATIONS

- SuperSeal Ruggedized Field Rugged and USB Solutions
- PowerTrip Connectors for Extreme Environments
- TurboFlex™ Ultra-Flexible Rugged Power Cable
- Heat and AutoShrink Boots and Molded Shapes

AEROSPACE AND MISSILE SYSTEM APPLICATIONS

- Advanced Performance Circulars: SuperNine and Series 806
- Series 790 Advanced Performance Crimp-Contact Rectangular
- AlphaLink SL and Interposer Board-Level Interconnects
- Advanced Performance Circulars: SuperNine and Series 806
- Turnkey, Connectorized Flex, Rigid Flex, and Rigid Assemblies
- HDStacker™ High-Density, Solder-Free Rugged Board-to-Board Stackable Connectors
- BacNav OFS repositionable harsh-environment backshell
- NAVSEA-Approved Shielded Composite Junction Boxes
- Missile Umbilicals and BLQ Aerospace Technologies

NAVY / SHIPBOARD APPLICATIONS

- HiPer 55116 Advanced-Performance Audio / Radio Connectors
- BackNav OFS repositionable harsh-environment backshell
- NAVSEA-Approved Shielded Composite Junction Boxes
- MIL-PRF-24758A US Navy Qualified Conduit System

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Ruggedized soldier-worn electronics have revolutionized mission effectiveness. But the ongoing evolution of Digitally Aided Close Air Support (DACES) missions, including precision targeting, ground and air radio communications, real-time video downlink, GPS/navigation, and personal area network computing has added significant mission weight to the dismounted soldier ensemble. Battery power management for this broad range of electronic gear is a significant challenge in terms of mission time, weight and supply logistics. The Glenair STAR-PAN™ data hub and power distribution system enables soldiers—particularly in Joint Terminal Attack Controller (JTAC) roles—to make the most of C4ISR devices, improving situational awareness, surveillance, intelligence and reconnaissance while optimizing power monitoring, conditioning, and distribution performance. Importantly, all STAR-PAN™ technologies—from the high-density, NATO standard Mighty Mouse quick-disconnect connectors and cables to the low-profile hub enclosure itself—are designed for optimal size, weight, power, and ruggedized mil-spec performance with battle-tested environmental and EMC sealing and shielding.

Multiport USB hubs, cables, and peripheral device manager for soldier-worn power / data network applications

STAR-PAN™ SCALABLE SOLDIER NETWORKING HUBS AND DEVICE MANAGERS

STAR-PAN™ Light
(Standard Soldier)

STAR-PAN™ II
(Advanced Soldier)

STAR-PAN™ VI
(JTAC / Mission Commander)

STAR-PAN™ MISSION MANAGER
On-the-fly device integration

OPEN-SYSTEM NETWORK SUPPORT FOR THE COMPLETE RANGE OF C4ISR DEVICES

- Versatile 2, 4, and 6-port high-speed hub configurations
- Compatible with USB 1.1, USB 2.0, and SMBus
- Embedded power charging/conditioning electronics in all designs
- Smart power monitoring for longer mission life
- Robust circuit protection
- Sealed IAW the MIL-STD-810 harsh-environment standard
- New MISSION MANAGER for on-the-fly device integration to soldier C4ISR networks

Export of STAR-PAN™ outside of the U.S. is controlled by the U.S. Department of Commerce Export Administration. See individual product pages for details. Consult factory for technology / hardware licensing information.
**STAR-PAN™ MISSION MANAGER**

Plug-and-play EUD / USB peripheral data exchange device

**STAR-PAN™ MISSION MANAGER with MX Software**

Plug-and-play EUD / USB peripheral data exchange

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**GLENAIR MISSION MANAGER WITH MX QUICK-CONFIGURATION SOFTWARE**

JTAC peripheral device configuration for both general use and mission-specific profiles is a complicated and time-consuming process, repeated for each and every mission. The Glenair STAR-PAN™ MISSION MANAGER with MX quick-configuration software reduces this problem by providing a plug-and-play bridge between the soldier’s End User Device (EUD) and the C4ISR peripherals he depends on for mission success.

The STAR-PAN™ MISSION MANAGER is a Linux OS ARM-based embedded computing device that acts as a full-time host, brokering data between soldier USB peripherals and the EUD. In combination with Stauder Technologies’ user-configurable MX application software, the STAR-PAN™ MISSION MANAGER makes connecting multiple devices to any EUD—before, during, or between missions—easier than ever before.

- **End User Device independent**—no device rooting or custom ROM images needed
- **Real-time, plug-and-play device integration**
- **Supports multiple simultaneous Ethernet devices**
- **Dedicated EUD port for connection to downstream EUD**
- **Minimal power demands**
- **Seamless integration into STAR-PAN systems**
- **NATO standard Mighty Mouse connector interface**
- **Mission Manager MX software Android, iOS, Windows and Linux compatible**
- **Export classification EAR99**

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**PERFORMANCE SPECIFICATIONS**

**Operating Conditions**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-40°C to +80°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td>Operation Altitude</td>
<td>9,540m</td>
</tr>
<tr>
<td>Storage Altitude</td>
<td>15,240m</td>
</tr>
<tr>
<td>Water Immersion, Maxed</td>
<td>MIL-STD-810, Method 512, 1m for 1 hr, IP67 rated dust / water resistant</td>
</tr>
</tbody>
</table>

---

**QUALIFIED FOR USE WITH ALL STAR-PAN POWER / DATA HUBS:** LIGHT, I, II, IV, AND VI

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**STAR-PAN™ MISSION MANAGER MX SOFTWARE CAPABILITIES**

MISSION MANAGER with Stauder Technologies’ MX quick-configuration software eliminates the need for costly EUD OS development, and/ or complicated device provisioning, by providing an intelligent interconnection bridge between the soldier’s EUD and his C4ISR peripherals. The secure datalink software runs directly on the EUD providing a graphical user interface for configuration and management of USB/Ethernet datalink connections and radios. STAR-PAN™ MISSION MANAGER with MX software eliminates the need to retest or recertify complex systems after EUD update or replacement.

**STAR-PAN™ MISSION MANAGER MX software runs directly on the soldier’s EUD to provide plug-and-play configuration and management of USB/Ethernet datalink connections and radios**

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**STAND SECTOR, LINK 4, FOR AN INTEGRATED SOLUTION WITH STAR-PAN POWER / DATA HUBS**

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**STAR-PAN™ MISSION MANAGER**

Seamless Integration with 888-047 General-Purpose STAR-PAN Cable

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**FULL TIME HOST TO BROKER DATA EXCHANGE BETWEEN SOLDIER USB PERIPHERALS AND THE EUD**

Headless data management and routing for all open-system peripheral devices as shown below (lightweight single-radio configuration also supported for plug-and-play integration between radio and EUD).
STAR-PAN™ System Cables and Adapters

RADIO CABLES AND ADAPTERS
- AN/PRC-152A Radio Adapter Cable
- AN/PRC-117G / RF-7800M-MP / RF7800H-MP Radio Adapter Cable
- RT-1922 Microlight SADL Radio Data Cable

POWER CABLES AND BATTERY ADAPTERS
- BA5590/BB2590 Battery Shoe
- Radio Power Booster For Harris, L3, Silvus, and other radios
- Conformal Battery Adapter Cable

TARGETING CABLES AND ADAPTERS
- Safran Vectronix Vector 21/21B and Moskito Data Cable
- Safran Vectronix STERNA TNF Data Cable
- PLRF 15C/25C Laser Range Finder Cable

VIDEO / GPS AND AUXILIARY C4ISR CABLES
- TacRover-e Adapter Cable
- StrikeHawk Adapter Cable
- OAGR GPS Navigation Cable

HOST / EUD CABLES AND ADAPTERS
- Kägwerks tactical EUD case with Adapter Cable
- Tactical EUD Juggernaut Case with Adapter Cable
- USB-C EUD Charging Cable

Other Mil-Grade Cable Assemblies

STAR-PAN™ SYSTEM AND OTHER
Mil-Grade Interconnect Cable Assemblies
with Series 804 Mighty Mouse / NATO push-pull connectors

HARSH ENVIRONMENT OVERMOLDED
- Overmolded breakout assembly featuring 100% Glenair content; a true turnkey solution
- Non-environmental aircraft cable with integrated circuit breakout box and Mighty Mouse 804 push-pull connectors
- Heads-up display (HUD) cable with custom Series 804 Mighty Mouse and low-profile cable routing
- Multibranch cable assembly with Glenair Mighty Mouse, HPer-D M24308 and customer-supplied power connector
- Turnkey overmolded GPS cable assembly with integrated switch
- Military jet jumper cable with user-serviceable backshells and fabric overbraid for mechanical protection

ULTRAFLEXIBLE FABRIC OVERBRAID
- Environmental cable with Glenair Series 804 Mighty Mouse, Series 79, and RF Coax terminations
- Hybrid Mighty Mouse and Micro-D aircraft pilot helmet cable assembly

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MouseBud: the snap-lock trigger-release connector

Ultra low-profile, light weight, harsh-environment tactical connector with push-to-mate and lock / trigger-release mating

- Self-locking auto-coupling, trigger-release mechanism
- Spring-loaded pins for extended durability and easy cleaning
- One meter, one hour water immersion
- 2000 cycles mechanical life
- High-speed data, power, video, and audio applications
- Meets MIL-STD-810G shock, vibration, immersion
- EMI protected with integral backshell and ground spring
- Ultra low-profile and lightweight

**MOUSEBUD TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage rating</td>
<td>500 VAC</td>
</tr>
<tr>
<td>Current rating</td>
<td>5 amps</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>20 milliohms maximum</td>
</tr>
<tr>
<td>Plug-to-receptacle ground resistance</td>
<td>≤ 5 milliohm</td>
</tr>
<tr>
<td>Maximum wire size</td>
<td>#24 AWG</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>5000 megohms minimum</td>
</tr>
<tr>
<td>Water immersion</td>
<td>MIL-STD-810 Method 512, one meter for one hour</td>
</tr>
<tr>
<td>Durability</td>
<td>2000 mating cycles</td>
</tr>
<tr>
<td>Corrosion resistance</td>
<td>1000 hours</td>
</tr>
<tr>
<td>Sine vibration</td>
<td>EIA-364-28 condition FL, 29g peak</td>
</tr>
<tr>
<td>Random vibration</td>
<td>EIA-364-28 condition V letter H, 29g rms</td>
</tr>
<tr>
<td>Shock</td>
<td>EIA-364-27 condition D, 39g peak</td>
</tr>
<tr>
<td>EMI shielding effectiveness</td>
<td>40 dB minimum to 10 GHz</td>
</tr>
</tbody>
</table>

The Series 860 MouseBud™ is designed for vest-wearable and helmet-mounted cable-to-tactical equipment interconnections. The ultra low-profile spring contact equipped MouseBud™ mated connector stack is less than 1/2 inch, making it the lowest-profile right-angle solution available today. Overmolded MouseBud cordsets are available in two standard versions. Style 1 cordsets feature thermoplastic polyurethane cable jackets and polyamide overmolding. Style 2 cordsets with thermoplastic rubber (TPV) cable jackets and overmolding offer excellent cold bend performance down to -55°C.
Sr. 804 Mighty Mouse: the tactical C4ISR soldier interconnect

**GROUND SOLDIER**

**TURNKEY OVERMOLDED AND OVERBRAIDED FACTORY ASSEMBLIES**

- Push-to-mate, pull-to-unmate
- Gold-plated stainless steel spring
- Crimp rear release contacts
- Integral band platform
- Available with size #12, #16, #20, #20HD and #23 contacts
- Environmentally sealed
- Wider field application and use than all other tactical soldier interconnects combined
- Full compatibility with US and NATO standards

**SERIES 804**

Mighty Mouse Quick-Disconnect
Worldwide standard for tactical soldier system C4ISR device interconnection

**MIGHTY MOUSE 804: NATO-STANDARD INTERCONNECT INTERFACE FOR C4ISR-EQUIPPED WARRIORS**

- Cable Plug
- Cobra Plug
- Panel Plug
- Cable Receptacle
- Panel Receptacle
- Hermetic Receptacle

- STAR-PAN™ tactical soldier radio data/power setup with Mighty Mouse 804-equipped radio power booster
- Ultralife lightweight wearable battery with Mighty Mouse 804 panel mount receptacle
- Juggernaut Case ruggedized EUD assembly with Mighty Mouse 804 dongle
- Palladium Lithium Ion conformal battery with plug-and-play Mighty Mouse 804 receptacle connector
- BB-2590 /BA-5590 standard soldier battery with Mighty Mouse 804 power adapter
- Taftover-e video downlink receiver with Mighty Mouse high-speed I/O connector and STAR-PAN interface cable

**Worldwide (NATO) quickDisconnect standard for tactical soldier system C4ISR device interconnection**

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**Mighty Mouse 804 not small enough? Meet the toughest, smallest, and highest-speed connector we’ve got—ideal for soldier-wearable C4ISR equipment**

**PRINTED CIRCUIT BOARD PLUG AND RECEPTACLES**

- Quick-disconnect pigtail plug and jam nut receptacle
- Quick-disconnect threaded plug and receptacle
- Overmolded threaded plug and receptacle
- Threaded pigtail plug and receptacle

**SERIES 88**

SuperFly® Ultraminium Soldier System Connectors and Cordsets

**ULTRAMINIATURE SUPERFLY® CORDSETS AND PIGTAILS**

- IP67 immersion rated
- High-reliability contacts: 5 Amp, 3 Amp, and 1 Amp
- High shock and vibration
- Robust EMI shielding

**CONTACT ARRANGEMENTS**

Series 88 SuperFly connectors are available in 27 contact arrangements with 1 Amp, 3 Amp, 5 Amp contacts, and mixed-contact hybrid arrangements

- Designed for high speed data applications
- Pre-wired, epoxy-sealed cordsets
- Straight and 90° PC tail receptacles
- 27 Contact arrangements
- Front or rear panel mounting
- Aluminum or stainless steel
- Accepts #22 to #32 AWG wire

**CONTACT ARRANGEMENTS (2)**

Series 88 SuperFly connectors are available in 27 contact arrangements with 1 Amp, 3 Amp, 5 Amp contacts, and mixed-contact hybrid arrangements

- Designed for high speed data applications
- Pre-wired, epoxy-sealed cordsets
- Straight and 90° PC tail receptacles
- 27 Contact arrangements
- Front or rear panel mounting
- Aluminum or stainless steel
- Accepts #22 to #32 AWG wire
High speed, harsh environment SuperFly® Datalink connectors—shielded for 10Gb Ethernet and SuperSpeed USB protocols—deliver outstanding signal integrity and save significant size and weight compared to Quadrax solutions.

- Ultra-small size
- Shielded Octaxial contacts
- Up to 5 Gbps
- 10Gb Ethernet and SuperSpeed USB
- Environmentally protected
- Factory-terminated cables or discrete contacts and cables for customer assembly

Cable connectors feature gold-plated crimp contacts, precision insulators, integral backshell, sealing grommet and machined shells.

Push-pull SuperFly Datalink receptacle connectors feature two canted coil springs for secure mating and excellent EMI protection. A fluorosilicone O-ring provides watertight sealing when mated.
High-speed octaxial contacts / connectors for Ethernet, SuperSpeed USB and MGb datalinks

El Ochito®: The Ultimate Shielded High-Speed Data Contact / Connector
Now available for SuperSpeed USB 3.0 and HDMI

El Ochito® White
10G Ethernet
1000BASE-T
10Gbps / 100 Ohms

El Ochito® Blue
SuperSpeed USB 3.0
Aerospace-grade
5Gbps / 90 Ohms

El Ochito® Red
HDMI
SATA
DisplayPort
5Gbps / 100 Ohms

High speed, harsh environment El Ochito® octaxial connectors and contacts save size and weight in aircraft avionics, weapons systems, satellites, radars, and communications equipment.

- 10GbE, SuperSpeed USB, and multi-gigabit shielded pairs
- Universal drop-in for keyed size #8 connector cavities
- Data-pair isolation for optimal signal integrity
- Crimp or threaded shield termination contact types
- Snap-in, rear release
- Environmentally sealed
- Aerospace-grade cable assemblies
- 50% cable / contact reduction compared to Quadrax

SuperNine® plug with El Ochito® contacts
Series 792 with El Ochito® contacts
Mighty Mouse hybrid with El Ochito® and size #23 signal contacts
Series 805 Mighty Mouse with El Ochito® contacts
SuperNine® CODE RED hermetic feed-thru with El Ochito® contacts
Series 28 HiPer-D® with El Ochito® contacts
Series 791 rack-and-panel with El Ochito® contacts
Series 805 Mighty Mouse with El Ochito® contacts
SuperNine® CODE RED hermetic feed-thru with El Ochito® contacts
Series 28 HiPer-D® with El Ochito® contacts
Series 791 rack-and-panel with El Ochito® contacts
ARINC 600 series with El Ochito® contact module
HiPer 55116
QPL and high-performance MCOTS 55116
Audio / Radio Connector Technology

Series 152 HiPer 55116 connectors offer significant performance advantages for modern soldier communication systems

- Intermateable and interoperable with standard MIL-DTL-55116 connectors
- Low contact resistance: Less than 10 milliohms
- Integrated EMI ground spring provides improved 2.5 milliohm shell-to-shell conductivity performance
- IP68 rated sealing in mated and unmated condition, prevents water ingress into radio equipment
- 1,000 hour salt spray corrosion resistance
- Integrated cable shield termination band porch
- Superior 100 pound cable pull test rating

GLENAIR DLA QUALIFIED SERIES 151 STANDARD MIL-DTL-55116 AUDIO CONNECTORS

- 151-001 MIL-DTL-55116 QPL audio plug with wire strain relief
- 151-002 MIL-DTL-55116 QPL audio plug/overmold adapter
- 151-003 MIL-DTL-55116 QPL radio-mount jam nut receptacle
- 151-004 MIL-DTL-55116 QPL in-line receptacle, strain relief

SERIES 152 HiPer 55116 CONNECTOR SELECTION GUIDE

Audio plug, field serviceable, with wire strain relief and rigid contacts, crimp and solder cup

Overmolded audio plug cordset with wire strain relief

Audio plug with shield termination porch, overmolding adapter and rigid contacts, crimp and solder cup

Overmolded in-line audio receptacle cordset

Overmolded audio plug cordset

In-line receptacle with shield termination porch, overmolding adapter, and non-rigid spring contacts, crimp and solder cup

Overmolded in-line audio receptacle cordset

Filtered radio-mount jam nut audio receptacle with non-rigid spring contacts, solder cup or PC tails

Special adapter configurations and protective covers

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High-reliability, dry-mate underwater connectors and cables for rugged military defense applications

High-density Series 701 SeaKing Junior connectors are the perfect choice for harsh-environment military and defense applications. All designs are equipped with piston seal Nitride O-rings to withstand exposure to corrosive chemicals and high-temperature environments. These 10,000 psi pressure rated (mated condition) connectors feature high-density crimp-contact or solder cup inserts, and are significantly smaller than our larger form-factor series 700 SeaKing interconnects. Gold-plated crimp contacts accept #12–30 gage wire. SeaKing Junior connectors are backfilled with epoxy potting our larger form-factor series 700 SeaKing interconnects. Gold-plated crimp contacts feature and weight compared to industry standard solutions.

Ultra miniature high-density pin configurations: 22D, 20, 20HD, 16, 12, #8 signal, power, fiber optic and high-speed datalink shielded contacts

10,000 psi (mated condition) pressure rated connector for overmolded (non-PBOF) applications

High density, small form-factor solution—up to 50% reduction in size and weight compared to industry standard solutions

Ultra miniature high-density pin configurations: 22D, 20, 20HD, 16, 12, #8 signal, power, fiber optic and high-speed datalink shielded contacts
Military-grade, ruggedized field connectors that deliver improved environmental sealing, EMI/RFI grounding, and a broader range of wire termination options for RJ45 and USB—now for SuperSpeed 3.0

- New SuperSpeed USB 3.0 protocol support
- Superior sealing—IP67 unmated—for complete system protection against water, sand and dust
- Highly durable SuperSeal™ insert design, provides enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, PC tail and cable assemblies

Available ruggedized memory stick 32GB, 64GB, and 128GB versions

SuperSpeed USB 3.0
Ruggedized connectors and cables
MIL-DTL-38999 Series III Type

NEW SUPERSPEED USB 3.0 RUGGEDIZED FIELD CONNECTORS

- Cable plug
- Wall mount receptacle with metric clinch nuts
- Wall mount receptacle with slotted holes
- Wall mount receptacle with round holes
- Jam nut mount Receptacle

TURNKEY SUPERSPEED USB 3.0 CABLE ASSEMBLIES AND JUMPERS

Glenair SuperNine USB 3.0 cable jumpers, SuperSeal to standard USB Type A and Micro-B connectors

SuperSeal USB 3.0 connectors are available as turnkey cable jumpers. Rugged field connector styles—including plug, wall mount and jam-nut receptacles—may be cabled with commercial 3.0 connector types including male Type A, female Type A, and male Micro B. Assemblies may be ordered with straight or right angle cable exit. In addition, the USB 3.0 insert may be ordered in horizontal or vertical orientation to provide protection against mis-mating. Maximum overall length is 15 feet.

SUPPORTED USB 3.0 CONNECTOR TYPES

- USB 3.0 male Type A
- USB 3.0 female Type A
- USB 3.0 male Micro B

USB ORIENTATION OPTIONS

- Horizontal
- Vertical

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Series 970 PowerTrip™

The power connector for extreme environments

Reduced size and weight power connectors

- Fast, easy mating with triple-start ACME thread: 360° turn for full mating
- Reduced size and weight compared to 5015/VG95234 solutions
- LouverBand sockets for improved current ratings and longer life, up to 2000 mating cycles
- Splined backshell interface for improved backshell attachment and EMI shielding
- Ratcheting coupling nut for secure mating
- Operating temperature -65° C to +200° C
- Hermetic and filter options available

The Series 970 PowerTrip™ offers improved performance compared to standard 5015 type power connectors: higher density and lighter weight packaging, rapid mating and demating triple-start threaded coupling, and extremely rugged splined and threaded backshell attachment interface.

Series 970 PowerTrip™ Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rating</td>
<td>Up to 225 A.</td>
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<tr>
<td>Dielectric Withstanding Voltage</td>
<td>2000 VAC</td>
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<tr>
<td>Insulation Resistance</td>
<td>1000 megohms minimum</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-65° C. to +200° C</td>
</tr>
<tr>
<td>Shock</td>
<td>300 g</td>
</tr>
<tr>
<td>EMI Shielding</td>
<td>70 dB</td>
</tr>
<tr>
<td>Shielding Effectiveness</td>
<td>65 dB minimum from 1GHz to 10GHz</td>
</tr>
<tr>
<td>Durability</td>
<td>2000 mating cycles</td>
</tr>
</tbody>
</table>

CONTACT RESISTANCE AFTER 1000 MATING CYCLES

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Contact Resistance (millivolt drop)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS39029 Specification</td>
</tr>
<tr>
<td>1</td>
<td>M39029 Average</td>
</tr>
<tr>
<td>1</td>
<td>LouverBand Average</td>
</tr>
</tbody>
</table>

ABOUT THE POWERTRIP CONTACT SYSTEM

Series 970 contacts are precision-machined using high conductivity copper alloy. A stamped and formed spring (“LouverBand”) is installed into the socket contact. The spring is made from 6 mil copper alloy. Testing has demonstrated that this contact system outperforms conventional aerospace-grade contact systems. The LouverBand spring provides many points of electrical contact with the mating pin, as opposed to a few “high spots” on a conventional four-finger contact as shown in the figure below. The size #8 Powertrip socket contact has a total of 18 louvers. The #4 has 27 louvers, and the #1/0 has 42 louvers. The LouverBand design offers lower voltage drop for reduced joule heating. In addition to its electrical advantages, the LouverBand also is mechanically superior to four-finger contacts. The LouverBand spring has consistent, stable normal force, even when subjected to thousands of mating cycles and temperature extremes.

Lightweight plug with ratcheting coupling nut and LouverBand contacts

Keyed receptacle with superior sealing and EMI shielding

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The ultra flexible and rugged power cable solution—ideal for rotating turret applications

TurboFlex® power distribution cables are constructed from highly flexible conductors and high-performance insulation to produce cables ideally suited for applications where flexibility, durability, and weight reduction are required. Amazingly durable and flexible—especially in cold weather—the 16 AWG to 450 MCM TurboFlex cable features high strand count rope lay inner conductors made with tin-, nickel- and silver-plated copper. TurboFlex is jacketed with Glenair’s unique Duralectric™ compound that provides outstanding flexibility and resistance to environmental and chemical exposure. Duralelectric is also low smoke, zero halogen. Long life and performance are critical in power distribution applications. TurboFlex, with its flexible conductors and durable jacket delivers both.

Duralectric™ is the high-performance TurboFlex® jacketing material perfectly suited for immersion, chemical or caustic fluid exposure, temperature extremes, UV radiation and more—available in a broad range of colors including safety orange and more.

Ultra flexible rope lay construction TurboFlex bend radius is 3X the outer diameter

Many sizes in-stock and available for immediate, same-day shipment. No minimums!

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Also available: Heat Shrink Termination Sleeves / Splices

- Three sizes of available inline splices
- Wired and unwired AS83519/1 and /2 Type heat shrink terminations for EMI shield-to-ground termination applications (note braided versions qualified for lightning strike)
- Example rectangular interconnect assembly outfitted with heat shrink termination grounds

For advanced abrasion protection, environmental sealing, splicing, and wire protection

Also available: Heat Shrink Termination Sleeves / Splices

- Three sizes of available inline splices
- Wired and unwired AS83519/1 and /2 Type heat shrink terminations for EMI shield-to-ground termination applications (note braided versions qualified for lightning strike)
- Example rectangular interconnect assembly outfitted with heat shrink termination grounds

Environmental heat-shrink and Autoshrink™ boots and molded shapes

Environmental “Full Nelson” Heat-Shrink Boots and Molded Shapes
- Abrasion protection · Environmental sealing · Splicing

- Standard lipped or lipless boots
- Long tail and high ratio configurations
- 90° and 45° angle boots
- SuperFly, Mighty Mouse, and D-subminiature configurations

- Convoluted accordion boots
- Y, T, and multibranch transitions
- Colored boots available

- Three sizes of available inline splices
- Wired and unwired AS83519/1 and /2 Type heat shrink terminations for EMI shield-to-ground termination applications (note braided versions qualified for lightning strike)
- Example rectangular interconnect assembly outfitted with heat shrink termination grounds

Environmental Heat-Shrink and Autoshrink™
Boots and Molded Shapes

Abrasion protection · Environmental sealing · Splicing

- Autoshrink D
  - UV-Resistant / LSZH
- Autoshrink F
  - Advanced Fluid Resistant
- Autoshrink S
  - Subsea
- Autoshrink T
  - High-Temperature-Tolerant

- Straight, 45° and 90° angle-lipped shrink boots and shrink tubing
- Fire-resistance in all material types
- Reliable IP68 sealing
- 3000 VAC rated
- Service temperature range: -65°C to 300°C
- Integrated ground strap versions available
Series 79 is the advanced-performance, aerospace-grade crimp-contact rectangular connector

**SERIES 79 MICRO-CRIMP PRODUCT SELECTION GUIDE**

- Crimp, PCB, fiber optic, coax, power and pilot
- Precision machined aluminum shells sealed to IP67
- High-density #23 contact arrangements set on .076 centers
- Blind mating for rack and panel applications
- Environmental, hermetic and filter versions
- Integrated ground spring for improved EMI shielding

**SERIES 79 MICRO-CRIMP**

Ultraminiature crimp-contact rectangular connector for demanding defense applications

- 37 contact arrangements
- Crimp-and-poke or epoxy-sealed board mount versions
- Scoop-proof recessed pins
- Size 23, 16, 12 and 8 contacts

**Performance Specifications**

- Current rating: size #23 5 Amps, size #16 13 Amps, size #12 23 Amps maximum
- Voltage rating: size #23 500 VAC rms., size #16 and #12 1800 VAC rms. Sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -65°C to +150°C
- Contact resistance: 5 milliohms maximum
- Water ingress protection: IP67
- Shielding effectiveness: >75 dB attenuation from 100 MHz to 1000 MHz, >60 dB 1 GHz to 4 GHz, >40 dB 4 GHz to 10 GHz

**Shell size A** - the smallest 791

- Two to 102 contacts
- Coax, twinax, quadax and Ochito octaxial contacts
- Rugged aluminum shell with dual polarizing lobes

**Guide Pins and Sockets**

- Stainless steel non-removable guide pins.
- Stainless steel non-removable bushings.

**Panel mount versions with O-ring or EMI spring**

- Integral band platform for direct attachment of cable braid
- -65°C to +150°C
- Contacts meet SAE AS39029 requirements
- Internal ground spring for EMI protection
- Approved for manned space flight

**Contacts**

- Rugged aluminum shell with dual polarizing lobes
- Straight and right angle printed circuit board mounting
- 12 shell sizes
- Guide pins for blind mate modules

**Fiber optic, coax, power and pilot**

- Precision machined aluminum shells sealed to IP67
- High-density #23 contact arrangements set on .076 centers
- Blind mating for rack and panel applications
- Environmental, hermetic and filter versions
- Integrated ground spring for improved EMI shielding

**Blind Mate Guide Pins and Sockets**

- Stainless steel non-removable guide pins.
- Stainless steel non-removable bushings.

**Crimp terminated**

- PCB, fiber optic, coax, power and pilot
- Precision machined aluminum shells sealed to IP67
- High-density #23 contact arrangements set on .076 centers
- Blind mating for rack and panel applications
- Environmental, hermetic and filter versions
- Integrated ground spring for improved EMI shielding

**Crimp terminated panel mount connectors**

- Panel mount connector with auxiliary sealing
- 90° PCB panel mount and free-standing connectors

**Panel mount connectors**

- Panel mount connector with auxiliary sealing
- 90° PCB panel mount and free-standing connectors

**90° PCB panel mount and free-standing connectors**

- Panel mount connector with auxiliary sealing
- 90° PCB panel mount and free-standing connectors

Glenair, Inc. • 1211 Air Way, Glendale, CA 91201 • 818-247-6000 • www.glenair.com • U.S. CAGE code 06324
The next-generation ultraminiature rectangular connector for high-speed aerospace applications

The Series 792 connector brings high-speed datalink performance to the Glenair Series 79 rectangular family. Size 8 cavities accept standard Quadrax and El Ochito™ datalink contacts making it a perfect choice for radars, weapons systems, communications gear and more.

- High-speed Ethernet, USB 3.0, HDMI
- Printed circuit board and cable connectors
- Scoop-proof interface
- 12 arrangements and 6 shell sizes
- Precision-machined dual-lobe polarized shells
- Environmentally sealed
- Integrated EMI shielding and grounding
- Blind mating

**SERIES 792 INSERT ARRANGEMENTS (PIN FACE SHOWN)**

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<td>1 #8</td>
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<td>B-2W2</td>
<td>2 #8</td>
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<td>B-6W2</td>
<td>2 #8, 4 #23</td>
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<td>C-3W3</td>
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<td>C-9W3</td>
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<td>D-12W4</td>
<td>4 #8, 8 #23</td>
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<td>E-5W5</td>
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<td>F-9W9</td>
<td>9 #8</td>
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<tr>
<td>F-31W9</td>
<td>9 #8</td>
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**DESCRIPTION / REQUIREMENT / PROCEDURE / NOTES**

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<th>PROCEDURE / NOTES</th>
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<td>Current rating</td>
<td>1.5 Amps (datalink contacts) 5 Amps (Size #23 contacts)</td>
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<tr>
<td>Dielectric Withstanding Voltage (sea level)</td>
<td>750 VAC (Size #23 contacts) 1800 VAC (datalink contacts)</td>
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<td>Insulation resistance</td>
<td>1000 MO minimum</td>
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<td>Contact resistance, 25°C</td>
<td>55 millivolt maximum</td>
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<td>Shell-to-shell resistance</td>
<td>2.5 millivolt maximum</td>
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</tr>
<tr>
<td>Ingress protection</td>
<td>IP67 rating</td>
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</table>

**SERIES 792 HIGH-SPEED CONNECTORS**

© 2019 Glenair, Inc • Glenair Signature Military / Defense Interconnect Solutions
The advanced-performance MIL-DTL-38999 Series III type connector

The world’s most complete range of QPL and COTS MIL-DTL-38999 solutions for both pressurized and unpressurized aircraft equipment zones

**SUPERNINE: SUPERIOR VIBRATION, SHOCK, EMC, AND DURABILITY PERFORMANCE**

- **SuperNine®** environmental class connectors
- **SuperNine®** high-speed connectors
- **SuperNine®** parylene-compatible connectors
- **SuperNine®** space-grade assisted separation force connectors
- **SuperNine®** EMI/EMP filter connectors
- **SuperNine®** glass and CODE RED hermetic connectors
- **SuperNine®** ruggedized RJ45 and USB connectors
- **SuperNine®** fiber optic connectors
- **SuperNine®** Sav-Con® connector savers and go-betweens

**DLA QPL MIL-DTL-38999 SERIES III AND IV**

DLA Qualified Series III environmental plug, jam nut, and square flange receptacles, class W, F, T, and G. Qualified Series IV breech-lock connectors in classes F and W. All 1560 crimp-contact insert arrangements fully supported.

**DLA QPL MIL-DTL-38999 SERIES III AND IV**

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© 2019 Glenair, Inc • Glenair Signature Military / Defense Interconnect Solutions
Innovative design meets key performance benchmarks for harsh vibration, shock, and environmental settings—as well as high-altitude, unpressurized aircraft zones with aggressive voltage ratings and altitude immersion standards.

SAVE SIZE AND WEIGHT WITH SERIES 806 CONNECTORS

Series 806 Mil-Aero: Advanced performance, reduced size and weight

SERIES 806 MIL-AERO PLUG
- Supported wire sizes:
  - #20HD contacts 20–24 AWG
  - #22HD contacts 22–28 AWG
- Dielectric withstanding voltage
  - #20HD layouts: 1800 Vac
  - #22HD layouts: 1300 Vac
- Reduced pitch triple-start modified anti-decoupling stub ACME mating threads
- "Triple ripple" wire sealing grommet (75,000 ft. rated)
- Integral Nano-Band shield termination platform
- EMI shielding effectiveness per D38999M para. 4.5.28 (65 dB min. leakage attenuation @ 10GHz)
- 10,000 amp indirect lightning strike
- MIL-S-901 Grade A high impact shock

SERIES 806 MIL-AERO RECEPTACLE
- Coupling Nut Retainer Ring Stainless steel
- Coupling Nut Stainless steel
- Insert Retention Ring Stainless steel
- Wire Seal Fluorosilicone rubber
- Insulators Glass-filled rigid dielectric
- Contacts Gold-plated copper
- Plug Barrel High strength alloy
- EMI Ground Spring Nickel-plated BeCu
- Anti-Decoupling Spring Stainless steel
- Insulators Glass-filled rigid dielectric
- Contacts Gold-plated copper
- Jam Nut Aluminum alloy
- Shell / Mating Interface Aluminum, modified triple-start

SAVE SIZE AND WEIGHT WITH SERIES 806 CONNECTORS

Available lightweight aluminum "Code Red" hermetics
CODE RED is a lightweight encapsulant sealing and assembly process with 50% package-weight savings compared to glass-to-metal seal Kovar/stainless steel solutions. Non-outgassing CODE RED IAW NASA/ESA provides durable hermetic sealing with $1 \times 10^{-10}$ leak rate performance. Gold-plated copper contacts deliver outstanding low-resistance current carrying capacity.

Series 806 Mil-Aero Ultra miniature Circular Connectors
for harsh mil-aero applications IAW MIL-DTL-38999

SERIES 806 MIL-AERO FEATURES / SPECIFICATIONS
- Supported wire sizes:
  - #20HD contacts
  - #22HD contacts
- Dielectric withstanding voltage
  - #20HD layouts: 1800 Vac
  - #22HD layouts: 1300 Vac
- Reduced pitch triple-start modified anti-decoupling stub ACME mating threads
- "Triple ripple" wire sealing grommet (75,000 ft. rated)
- Integral Nano-Band shield termination platform
- EMI shielding effectiveness per D38999M para. 4.5.28 (65 dB min. leakage attenuation @ 10GHz)
- 10,000 amp indirect lightning strike
- MIL-S-901 Grade A high impact shock

AVAILABLE LIGHTWEIGHT ALUMINUM "CODE RED" HERMETICS
CODE RED is a lightweight encapsulant sealing and assembly process with 50% package-weight savings compared to glass-to-metal seal Kovar/stainless steel solutions. Non-outgassing CODE RED IAW NASA/ESA provides durable hermetic sealing with $1 \times 10^{-10}$ leak rate performance. Gold-plated copper contacts deliver outstanding low-resistance current carrying capacity.

Series 806 Mil-Aero: Advanced performance, reduced size and weight

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HD Stacker: the innovative mission-critical board-to-board connector with fail-safe signal integrity and rugged, reliable harsh-environment performance

- High-density .0625" pitch Chevron Contact System: 55% more contacts per connector size
- PCIe 3.0 capable
- Performance up to 10.5 Gbps
- Polarized insulator and hardware options
- Solder free “eye of the needle” compliant tail for press fit installation
- High-temp PPS insulator meets NASA outgassing requirements
- Available wired / flex jumpers
- Available between-board spacers up to 1 inch

Solder-free press-fit (compliant pin) board mounting

.0625" pitch contact spacing: highest available density

Polarized shells and keyed guide pin hardware prevent mis-mating

980-008 Spacer is used in applications that require additional space between PCBs to accommodate board electronics. Spacers serve as a rigid, precision standoff for board-to-board heights up to 1.025" (26.03mm).

All Glenair HD Stacker™ connectors are equipped with our innovative .0625" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTB is equipped with pin/socket contacts with solder-free press-fit board mounting.

QUALIFICATION TESTING / HIGH-SPEED PERFORMANCE

Stacker connectors were qualified in accordance with MIL-STD-883G testing for:
- Contact engagement/separation
- Contact retention
- DHIW
- Mechanical vibration and shock
- Insulation resistance
- Thermal shock
- Contact resistance
- Humidity

High-frequency electrical performance tests were performed for: Insertion loss, return loss, crosstalk, and time-domain performance metrics including impedance and eye pattern. Complete test reports are available at www.glenair.com/technical_information_test_reports
AlphaLink® SL is a high-performance, solderless board-level connector technology developed by Glenair that significantly expands board-level interconnection options for users of mil-spec caliber connectors. Precision-machined and EMI shielded, these ultralightweight PC tail, solder cup, and/or pigtail equipped connectors are designed for high-reliability applications that require avionic system levels of vibration and shock tolerance. Ultra low-profile and high-density, AlphaLink® SL connectors are equipped with 2–3 Amp spring-loaded contacts and may be ordered either as discrete connectors or in turnkey flex jumpers that combine popular Glenair high-reliability I/O connectors. Glenair is perfectly positioned to provide the entire solution with in-house manufacturing for every component part—from connectors and contacts to rugged polyimide-based flex. AlphaLink® SL flex jumpers are available with Series 80 Mighty Mouse, Series 88 SuperFly, and Series 89 nanominiature circular connectors, as well as Series 89 nanominiature, Micro-D subminiature and Series 79 Micro-Crimp rectangular connectors. A wide range of insert arrangements, from 4–40 contacts is available.

- Spring-loaded, solderless board-level solution
- Available I/O-to-board flex and pigtail wire jumpers
- Lightweight, low-profile: up to 40% space savings compared to 2mm pitch solutions
- High-density .050" center-to-center contact footprint
- Fast and easy PC board integration with reduced board preparation and masking
- Temperature, vibration and shock resistant

**Series 171 AlphaLink® SL**

**Spring-loaded board level connector Design features**

**AlphaLink® SL Spring-Loaded Contact Interface**

- High-temp thermoplastic insulator
- Gold-plated Copper Alloy contacts set on .050" centers
- 0-80 Thread or thru-hole PC board mounting

**171-134-01 Solder Cup Termination**

- Solder cup terminations may be factory modified for crimp termination
- Accommodates #24 AWG wire
- Recessed flange
- Gold-plated Copper Alloy spring-loaded contacts

**171-134-03 Wire Pigtail Termination**

- M22759/11 or M22759/33 wire; white or ten color repeat
- Environmental potting well
- Ø .019 ± .002 Spring-loaded contacts
- Conductive nickel or gold finish

**171-134-02 PC Tail Termination**

- EMI shroud/shield
- Stainless Steel Hardware
- Ø .016 ± .002 PC tails
- High durability spring-loaded contacts
- Precision machined aluminum alloy shell

**AlphaLink® Interposer and Bridge Technologies:** Unique pogo pin contact technology enables this signature Glenair connector series to deliver the lowest profile board-to-board solution available in the industry today.

**AlphaLink® SL flex jumpers:** Compact interconnect assemblies that combine circuit board technology and cabling into a lightweight, integrated package. These turnkey jumper assemblies reduce system size and weight and are ideally suited for prototype applications and new product development efforts.
Turnkey connectorized flex/PCB cable assemblies incorporating Glenair’s broad range of innovative small form-factor circular and rectangular PCB connector solutions, backpotted for protection during conformal coating.

GLENAIR SIGNATURE PCB CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES

- Series MWD Micro-D and innovative pogo-pin AlphaLink
- Series 88 SuperFly
- Series 79 Micro-Crimp
- SuperSeal RJ45 and USB

Space-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper

High-shock matched-impedance Mighty Mouse assembly with flex circuit

Dual-gang series 20 Super-Twin™ I/O connector to AlphaLink SL PCB connector

Stacked Micro-D I/O connectors with flex jumper to rigid PCB assembly

Hybrid flex/rigid flex multibranch Micro-D and Series 23 SuperNine flex assembly with discrete RF circuits
AEROSPACE/MISSILE SYSTEMS

ULTRA HIGH-PERFORMANCE MILITARY-AEROSPACE GRADE INTERCONNECT TECHNOLOGIES

From air and ground missile launch interconnects to pure air gas assemblies and high-voltage, high-altitude connectors, Glenair BLQ’s Aerospace group is positioned to address some of the most difficult and mission-critical interconnect challenges in the manned and unmanned aerospace industry.

**UNIQUE CAPABILITIES**

- High-voltage electric power distribution connectors for aircraft and space propulsion applications
- Flight line and ground support interconnect technologies
- Cockpit and aircraft headlight interconnects
- Surface-to-air and air-to-air missile launch umbilicals
- High-voltage partial discharge testing

**WEAPONS STORES, UMBILICALS, AND MISSILE-LAUNCH INTERFACE CONNECTORS**

**IN-HOUSE HERMETIC CONNECTOR DESIGN AND MANUFACTURE**

**PURE AIR HIGH PRESSURE COOLING GAS TUBE ASSEMBLIES**

Complete systems and ancillaries for IR guided weapons and weapons ejection applications
**NAVSEA-Approved Shielded Composite Junction Boxes**

**for Naval applications**

![Composite Junction Boxes](image)

**Durable, lightweight corrosion-free EMI/RFI shielded composite junction boxes NAVSEA standard drawing 803-6983506 Rev. A**

- Over a dozen different tooled sizes and shapes.
- Extremely durable, corrosion-free, high temperature engineering composite thermoplastic.
- Tested and qualified to U.S. Navy, UK MOD and hundreds of commercial aircraft and marine applications.

**Glenair Composite Box Product Specifications**

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<th>Procedure</th>
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<tr>
<td>Vibration</td>
<td>HTS #973-7369-2</td>
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<tr>
<td>Shock</td>
<td>NCD #8BB470 Grade C and F</td>
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<tr>
<td>Salt Spray</td>
<td>HTS #973-7369-1</td>
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<tr>
<td>Dust</td>
<td>HTS #973-7369-1</td>
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<tr>
<td>UV Light Resistance</td>
<td>GE RDM8805025-6042</td>
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<tr>
<td>Impact</td>
<td>MIL-STD-1344, Method 2012</td>
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<td>Temperature Cycling</td>
<td>MIL-STD-1344, Method 2018</td>
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<td>MIL-STD-1344, Method 2018</td>
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<td>Electromagnetic Shielding</td>
<td>MIL-STD-1344, Method 2018</td>
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**Tested and Qualified Throughout the Fleet: Glenair Corrosion-Free Composite Boxes**

- Series 316 stainless steel hardware provides long-term durability.
- Broad range of sizes and shapes.
- Complex installations fully supported with feed-thru fittings and wire protection conduit.
- Discrete components or turnkey wired and connectorized systems.

**Example box shown: one of a series of NAVSEA-approved signal, switch, sound power, control boxes designed to eliminate corrosion damage and reduce maintenance cost on Navy ships.**

**Contact Glenair for additional information:**

Glenair Inc.
1211 Air Way
Glendale, CA 91201
818-247-6000
www.glenair.com

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Outstanding repositionable backshell for harsh-environment applications

BacNav OFS is the only fully-sealed EMI/RFI backshell and strain relief device that delivers fast and easy cable angle configuration in the field—using a common 7/64" hex wrench, and without decoupling from the connector and/or cable. The sealed, flexible connector backshell adjusts to straight, 45° and 90° cable angles with zero impact on signal integrity or system performance.

Design for use in rugged shipboard applications as well as military ground systems such as armored vehicles; the Glenair BacNav OFS delivers outstanding mechanical, electrical, and environmental performance. The innovative design incorporates an environmentally-sealed, EMI shielded core with a locking pivot that facilitates cable routing and eliminates the need to stock discrete straight, 45° and 90° variants of standard wire sealing, strain relief, and EMI shield termination backshells. Built to withstand the handling abuse that topside and below-deck electrical and fiber optic interconnect systems are routinely subjected to by ham-fisted sailors and marines, the BacNav OFS is purpose-designed to deliver life-of-ship and life-of-system performance and durability. Available for the broad range of power, signal, and fiber optic connector systems—including MIL-PRF-28876 and MIL-PRF-64266 (fiber optics) to MIL-DTL-28840, ASS0151, and more—BacNav OFS meets every current requirement for backshell-equipped connectorized cabling.

- Easy repositioning from straight, 45° and 90° cable-exit orientations
- Submersible performance without the need for shrink boots
- Durable, flexible EMI/RFI and environmentally-sealed core with locking-pivot Swing-Arm™ frame
- Accommodates power, signal and fiber optic jacketed cables
- Reposition terminated cables with no impact on signal integrity or system performance
- Easy repeatable assembly process using standard tools

BacNav OFS is designed for use in above and below deck shipboard use and other harsh environmental applications, BacNav OFS delivers submersible environmental protection for electrical and fiber optic interconnect systems.

MORE ADVANCED GLENAIR BACKSHELL TECHNOLOGY: FIREWALL AND PRESSURE BOUNDARY FEED-THRU'S

- High-grade engineering thermoslastic or machined metal
- Six pressure-boundary feed-thru layouts with accommodation for 1 – 6 cables
- Split-shell jam nut versions with EMI/RFI shield termination
- O-ring sealed panel and box mounting interface
- Conductive and non-conductive finish options

**PERFORMANCE DATA**

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<td>Magnetic permeability</td>
<td>Less than 2.0µ</td>
<td>EIA-364-54</td>
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<tr>
<td>Shell conductivity</td>
<td>&lt; 2.5 milliohms</td>
<td>EIA-364-83</td>
</tr>
<tr>
<td>Shell spray corrosion</td>
<td>No exposure of basis material as defined in AR4859 for 500 hours</td>
<td>MIL-810G-107A (SHIPS), paragraph 1.1.4.6 (temprature test)</td>
</tr>
<tr>
<td>Cutoff</td>
<td>&lt; 0.018</td>
<td>MIL-S-860D, grade A, Class I</td>
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<td>Water pressure</td>
<td>10 meters for 48 hours (IP68)</td>
<td>QTP-384</td>
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<tr>
<td>Cable pullout</td>
<td>No slippage exceeding 1/8&quot;</td>
<td>TIA-455-6</td>
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<tr>
<td>Cutting tension strength</td>
<td>No damage at 3X magnification</td>
<td>AS85049 (Heavy Duty)</td>
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<td>Internal bending moment</td>
<td>100-750 in-lb (size dependent)</td>
<td>AS85049 (Heavy Duty) QTP-384</td>
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<td>Radiated Immunity</td>
<td>No changes detrimental to performance</td>
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<td>External bending moment</td>
<td>300-750 in-lbs (size dependant)</td>
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<td>Fluid immersion</td>
<td>No changes detrimental to performance</td>
<td>EIA-364-10</td>
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<td>Insertion loss</td>
<td>MIL-STD-167-2 Appendix C, Table 2101 C-I TIA-455-34 Method A</td>
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<td>Cable seal flexing</td>
<td>100 cycles/cycle</td>
<td>TIA-455-1</td>
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<tr>
<td>Impact</td>
<td>50 cycles: No damage/leaks</td>
<td>TIA-455-12</td>
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<td>Thermal Shock</td>
<td>5 cycles: -40°C to +85°C</td>
<td>TIA-455-71</td>
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<td>Humidity/cycling</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-5 Method B</td>
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<tr>
<td>Temperature cycling</td>
<td>No damage detrimental to performance</td>
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<td>Life Aging</td>
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<td>Freezing water immersion</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-38</td>
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<tr>
<td>Sand and dust</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-38</td>
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<tr>
<td>Modified SO2/salt spray</td>
<td>240 hours: No damage detrimental to performance</td>
<td>ASTM G85 + Annex A4</td>
</tr>
<tr>
<td>Cable seal flexing</td>
<td>100 cycles/axis</td>
<td>TIA-455-1</td>
</tr>
<tr>
<td>Twist</td>
<td>50 cycles • No damage/leaks</td>
<td>TIA-455-36</td>
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<tr>
<td>Impact</td>
<td>8 drops • No damage detrimental to performance</td>
<td>TIA-455-2 Method B</td>
</tr>
<tr>
<td>Crush</td>
<td>7 cycles 1,250 N (281 lbs)</td>
<td>TIA-455-26</td>
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<tr>
<td>Thermal Shock</td>
<td>5 cycles: -40°C to +85°C</td>
<td>TIA-455-71</td>
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<tr>
<td>Humidity/cycling</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-5 Method B</td>
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<tr>
<td>Temperature cycling</td>
<td>No damage detrimental to performance</td>
<td>TIA-455-5 Method B</td>
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<tr>
<td>Life Aging</td>
<td>5 cycles</td>
<td>QTP-384-F</td>
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**MORE ADVANCED GLENAIR BACKSHELL TECHNOLOGY: FIREWALL AND PRESSURE BOUNDARY FEED-THRU'S**

- High-grade engineering thermoslastic or machined metal
- Six pressure-boundary feed-thru layouts with accommodation for 1 – 6 cables
- Split-shell jam nut versions with EMI/RFI shield termination
- O-ring sealed panel and box mounting interface
- Conductive and non-conductive finish options
Improved sealing and shielding: the ultimate in highly flexible, crush-proof EMI/EMP wire protection

- Hermetically sealed, flexible metal-core conduit for shipboard wire interconnect applications
- UV-resistant “BlueJacket” jacketing over Brass, Stainless Steel, or Nickel Iron Alloy conduit
- Turnkey, factory-terminated assemblies for fast-turnaround dockside maintenance cycles
- All materials deliver superior EMC performance as well as crush resistance and environmental sealing compared to legacy systems

**Part Number**
- **750-098**
  - Select for superior crush resistance and corrosion protection
  - Highly flexible crush-proof metal conduit in stainless steel with Viton, Neoprene, or Bluejacket protective covering
- **750-192**
  - Select for low-frequency EMC protection in and around motors and control equipment
  - Nickel-iron conduit material plus shielding and jacketing

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Do it once, do it right with Glenair Signature MIL-PRF-24758A wire protection conduit systems

- Qualified to MIL-PRF-24758A(SH)
- User-installable and factory terminated configurations
- Innovative fitting design with advanced environmental sealing, EMI shield termination and rotatable coupling nut
- Adapters for all shipboard interfaces—fully compatible with legacy MIL-C-24758 conduit system components

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**Fittings and Adapters for User-Installed Applications**

- Composite conduit splice fitting
- Stainless steel conduit feed-thru fitting
- Low-Profile RP Plus System
- Heavy-duty environmental conduit-to-panel fitting
- Heavy-duty environmental conduit-to-connector fitting
Glenair Mil-Spec Interconnect Technologies

Qualified Products: Glenair is a Mil-Aero connector supplier. Our product quality begins in engineering (the largest team in the high-performance interconnect business) and is realized in our “made in the USA” vertically-integrated manufacturing cells. One of the key ways we ensure both areas are functioning smoothly is to submit designs and manufactured specimens into the military QPL process administered by the Defense Logistic Agency of the US government. These certification exercises are multi-year activities that test every aspect of a connector’s performance.

- MIL-DTL-38999 Series III environmental connectors
- MIL-DTL-38999 Series IV environmental connectors
- MIL-DTL-28840 shipboard connectors and accessories
- MIL-DTL-28876 shipboard fiber optic
- MIL-DTL-38513 Micro-D connectors and accessories
- MIL-DTL-32139 Nanominiature connectors and accessories
- MIL-DTL-29504 (fiber optic) and AS39029 (electrical) contacts

Glenair’s worldwide range of mission-critical interconnect solutions—from discrete connectors to complex cable assemblies and embedded systems—serve the unique requirements of those markets. Glenair’s Worldwide Quality System is ISO 9001 and AS9100 certified and registered. We also hold many discrete product and operations certifications for specialty, high-performance markets including space, nuclear power, and rail. In addition to world-class quality, we are laser-focused on customer service and committed to being the easiest manufacturer in our industry to do business with. Here are just some of our key customer service principles:

- Lightning-fast turnarounds on quotes and special orders
- Worldwide sales and technical support in every major market
- Full-spectrum, “no gap” product lines
- No dollar or quantity minimums
- ISO 9001 and AS9100 certified
- Huge same-day shipment inventory
- Generous NRE, RMA, and sample request policies
- Abundant engineering and technical support
- No attitudinal constraints when it comes to customer convenience and service
GLENAIR GLENDALE:
Complete vertical integration of manufacturing resources—
at home in Southern California since 1956

Glenair operates the largest high-reliability interconnect manufacturing operation in the United States, allowing us to fully support our broad range of military, defense, and security customers.
IN-HOUSE TESTING CAPABILITIES

Glenair UK operates an independently accredited BS9000:CECC:IECQ test lab for internal and third-party product development / design verification and connector qualification including pure air standards.

SAME-DAY SHIPMENT STOCKING
Immediate availability for high-demand connectors and tooling.

HARNESS ASSEMBLIES
for Micro-D, Nanominiature, and fiber optic connectors and cable assemblies.

GLENAIR UK:
Mission-critical connectors and assemblies for UK and European markets with a special focus on micro and nanominiature flexi assemblies.

Glenair UK: Home of the SuperG55

HARNESS ASSEMBLIES
for Micro-D, Nanominiature, and fiber optic connectors and cable assemblies.
GLENAIR ITALIA: Manufacturing harsh-environment military, nuclear, rail, and industrial interconnects for power, high-speed Ethernet, and fiber optic applications.

TOTAL VERTICAL INTEGRATION includes in-house rubber and thermoplastic injection molding.

HIGH-CAPACITY CNC MACHINING CENTERS allow Glenair BLQ to provide lightning-fast turnaround on small and custom orders as well as large production runs, all with superior surface finishes and better part quality.

ADVANCED PLATING LINE Capabilities include VG95328-qualified Marine Bronze and "Code J" Tin-Zinc plating—VG95211 and VG95212 qualified cadmium alternative for corrosion-resistant interconnects.

IN-HOUSE TEST LAB with capabilities for both high-voltage as well as high-speed signal product qualification. Credentials include ISO 17025 and others.

Capabilities include VG95328-qualified Marine Bronze and "Code J" Tin-Zinc plating—VG95211 and VG95212 qualified cadmium alternative for corrosion-resistant interconnects.
GLENAIR SPACE SYSTEMS, SALEM:
Facility includes a 600 m² production floor, 300 m² ISO 8 and ISO 6 clean rooms, an ISO 5 flow chamber (certified to ESD Standard 61340-5-1), with ample accommodation for large mock-up and integration projects.
# Glenair International Addresses

**Glenair, Inc.**  
1211 Air Way • Glendale, California • 91201-2497  
Telephone: 818-247-6000 • Fax: 818-500-9912 • sales@glenair.com  
[www.glenair.com](http://www.glenair.com)

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<td><strong>Products Group</strong></td>
<td>20 Sterling Drive</td>
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