MISSION-CRITICAL INTERCONNECT SOLUTIONS
TURNKEY OPTICAL AND ELECTRICAL INTERCONNECT ASSEMBLIES AND INTEGRATED SYSTEMS

customer bespoke harnesses, overmolded assemblies, conduit, and integrated systems

TURNKEY FIBER OPTIC CABLE ASSEMBLIES

Environmental overmolded fiber optic cable assembly
Multi-way inside-the-box D38999-to-ST assembly
GFOCA (M8) M835266 environmental cable assembly

TURNKEY INTERCONNECT ASSEMBLIES

CONDUIT SYSTEMS

INTEGRATED SYSTEMS

COMPLEX MULTIBRANCH AND OVERMOLDED CABLE ASSEMBLIES

F/A-18 radar pantograph assembly
Overmolded cable assembly
AWACS radar assembly

Hybrid fabric braid and overmolded environmental cable assembly
"Golden Umbilical" life-support umbilical cable for first American spacewalk, 1965
Soldier radio power and USB data overmolded cable assembly

COMPLEX MULTIBRANCH AND OVERMOLDED CABLE ASSEMBLIES

In our products:

- Overmolded cable assembly
- AWACS radar assembly
- "Golden Umbilical" life-support umbilical cable for first American spacewalk, 1965
- Soldier radio power and USB data overmolded cable assembly

TURNKEY FACTORY-TERMINATED CONDUIT ASSEMBLIES

Complex multibranch fighter jet electrical wire conduit assembly
Lightweight, halogen-free rail industry wire conduit assembly
Crush-resistant commercial aerospace metal-core conduit assembly

INTEGRATED SYSTEMS

Precision-machined, injection molded or stamped and formed boxes and structural members
Multibranch interconnect cable harnesses and assemblies—terminated, tested, and ready for use
Turnkey integrated system components: Vertically integrated manufacturing, from backplanes to avionic control panels
TURNKEY · CONNECTORIZED
INTEGRATED PCB/FLEX ASSEMBLIES
IPC-6012/6013 class I, II, III types 1–4

POINT-TO-POINT CONNECTORIZED FLEX AND RIGID FLEX JUMPERS

Harsh-environmental Micro-D to AlphaLink jumper
804 Mighty Mouse to Samtec surface mount jumper
Micro-D to Micro-D jumper
Series 23 SuperNine® to AlphaLink jumper
Low-profile Micro-D jumper

MULIBRANCH FLEX AND RIGID FLEX CONNECTORIZED ASSEMBLIES

Micro-D subminiature multibranch flex assembly. Both Glenair in the US and in the UK specialized in complex Micro and Nano flex assembly work.

Multibranch RJ45 / Ethernet / USB Flex assembly. Glenair is the only manufacturer of catalog PCB tail field RJ and USB connectors.

26 layer EMI/RFI shielded rigid flex assembly

SPECIAL-PURPOSE FLEX AND RIGID-FLEX DESIGNS

Space-grade Micro-D flex assembly with NASA EEE-INST-002 screening
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 flex assembly with discrete RF circuits
PCBA DESIGNS FOR
RUGGEDIZED
EMBEDDED SYSTEMS

complete in-house optical and electrical
PCBA design and development capability

The design and fabrication of printed circuit board assemblies is a critical in-house capability of Glenair’s Ruggedized Electronics and Photonics Group. These temperature, vibration, and shock tolerant PCBA are key components in our broad range of turnkey electronic and photonic systems.

Advanced Electronic Packaging Design for Size and Thermal Management

Ruggedized power distribution PCBA for use in STAR-PAN™ soldier system

Small form-factor PCBs for a USB hub and protocol conversion application

Soldier-worn data hub and power distribution board design with Series 80 Mighty Mouse interconnects

SMALL FORM-FACTOR BOARD DESIGNS USED IN PHOTONIC SYSTEMS

Small form-factor PCB-mount transmitters and receivers (bi-directional unit shown on left)

2.5mm ELIO™ Compatible D38999 Series III type photonic connector with integrated PCBA

PCBA design for radio frequency-over-fiber links for SATCOM and RF signal distribution

ELECTRONIC AND OPTO-ELECTRONIC EVALUATION BOARDS

MIL-DTL-38999 type 2.5mm ELIO™ compatible transceiver evaluation board

PCB-mount transceiver evaluation board

HiPer-D connector with size 8 opto-electronic contacts evaluation board

VITA 57, FPGA MEZZANINE CARD BASED DEVELOPMENT BOARDS

Ruggedized FMC connectivity PCBA for Ethernet, Fiber channel, and/or DVI, SMPTE video system applications

FPGA mezzanine card development board

EMBEDDED ELECTRONIC AND OPTO-ELECTRONIC PCBs IN ACTION

Copper-to-fiber aggregation media converter (cutaway view)

Small form-factor opto-electronic media converter with field fault monitoring

Small form-factor ruggedized opto-electronic media converter

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RUGGEDIZED
OPTO-ELECTRONIC INTERCONNECT SOLUTIONS

contacts • transceivers • SMPTE video • media converters • ethernet switches

EVALUATION BOARDS AND PERFORMANCE TESTING AVAILABLE FOR ALL SYSTEMS

SMALL FORM-FACTOR 10 GBPS HARSH-ENVIRONMENT PHOTONIC CONTACTS AND CONNECTORS

...for use in ARINC 600 avionics connectors
...and D38999 Series III type receptacles
Size #8 cavity adapter kit for 1.25mm ARINC 801 termini
Size #8 cavity adapter kit for ELIO® 2.5mm termini
2.5mm ELIO® Compatible D38999 Series III type

RUGGEDIZED 10 GBPS PCB-MOUNT PHOTONIC TRANSCEIVERS, TRANSMITTERS AND RECEIVERS

Shielded PCB-mount transceivers (radiation-tolerant versions available)
PCB-mount dual transceivers, quad transmitters and quad receivers
RF-over-fiber for SATCOM, RF and other RF distribution systems
Parallel optical transceiver (40 Gbps available now; 120 Gbps version in development)

COPPER-TO-FIBER MEDIA CONVERTERS FOR ETHERNET AND VIDEO

Lightning-strike protected ARINC 801 F/O to D38999-type media converter
GFOCA fiber optic Ethernet media converter
DVI media converter

COPPER-TO-FIBER MEDIA CONVERTERS FOR SIGNAL AGGREGATION

Small form-factor low-speed signal aggregator
High-speed signal aggregator (cutaway view)
High-speed signal aggregator

SMALL FORM-FACTOR ETHERNET SWITCHES AND BREAKOUT CABLES

7-port Ethernet switch (shown with breakout test cable)
7-port Ethernet switch with heat-dissipation enclosure
Low-profile multiport Ethernet switch

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STAR-PAN™ SOLDIER USB HUB / POWER DISTRIBUTION SYSTEM

come-tested C4ISR / DACAS

STAR-PAN™ MULTIPORT USB / POWER DISTRIBUTION HUBS FOR TACTICAL SOLDIER SYSTEMS

- 808-057 STAR-PAN™ II hub with dedicated host and radio cables
- Battery power/+5VBus power for 3 USB devices
- 2 power inputs for extended mission life
- SMBus, USB2.0 (full and high-speed), USB1.1 compatible interface

- 808-037 STAR-PAN™ VI hub with six PAN ports, two battery/auxiliary battery ports, and one universal host/EUD port
- Battery power/+5VBus power for 4 USB devices
- 2 dedicated radio ports
- Integrated power monitoring and management
- Proven performance in JTAC/DACAS applications

STAR-PAN™ may be used to both trickle charge radio power boosters as well as distribute available radio power to other devices.

GENERAL-PURPOSE STAR-PAN™ SYSTEM CABLES

- NETT Warrior (C1) Extension Cable
- Host USB-A Cable
- C4 Micro USB EUD Host Cable

STAR-PAN™ PERIPHERAL DEVICE CABLES

- TacROVER-e Cable
- Radio Adapter Cable
- USB 2.0 Adapter Cable
- DAGR GPS/Navigation Cable
- TacROVER-p ISR Receiver Cable
- PLRF-15C/25C Laser Range Finder Cable

STAR-PAN™ RADIO DATA / POWER CABLES AND ADAPTERS

- Microlight Radio Data Cable
- PRC-117G Radio Data Cable
- Harris Radio Adapter Cable
- PRC-148 Radio Data Adapter
- PRC-152A Radio Data Adapter
- PRC-154 Rifleman Radio Data Adapter

EXAMPLES OF STAR-PAN™ SUPPORTED PERIPHERALS / EUDs

- DAGR and other GPS / navigation systems
- TacROVER ISR receiver
- Laser range finders and IR goggles
- Connectorized Juggernaut Case™
- Connectorized Kägwerks EUD case
- TacROVER-e Cable
- DAGR GPS/Navigation Cable
- TacROVER-p ISR Receiver Cable
- PLRF-15C/25C Laser Range Finder Cable

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PROVEN FLIGHT HERITAGE
SPACE-GRAGE SOLUTIONS
NASA · ESA · JAXA · Commercial

HOLD-DOWN RELEASE MECHANISMS, PIN PULLERS AND PIN PUSHERS

Light Duty
Up to 75 lb release payload

Medium Duty
Up to 1,000 lb release payload

Heavy Duty
Up to 20,000 lb release payload

ASSISTED-RELEASE QUICK-DISCONNECT BLIND-MATE CONNECTORS

Glenair Series 253 connectors are designed to meet applicable environmental, electrical and mechanical performance characteristics of D38999 Series III. The technology is well suited for use in commercial blind-mate instrumentation panels, satellite deployment, scientific research and development payloads, as well as interstage, UAV, and munitions release applications.

SPACE-GRAGE M24308 HIPER-D, MICRO-D, AND NANOMINIATURE CONNECTORS AND CABLES

ESA and NASA screened connectors and backshells available as discrete components or wired pigtails assemblies

SpaceWire certified laboratory and flight Micro-D cable assemblies

Qualified MIL-DTL-181838 Class K Space-Grade Hermetic, plus Hiper-D high-performance space-grade and high-speed environmentals

Latching MicroStrips\textsuperscript{TM}: cable-to-cable and cable-to-board reduced size-and weight Micro-D TwistPin connectors

TURNKEY, SPACE-GRAGE EMI/RFI SHIELDED WIRE HARNESS AND CABLE ASSEMBLIES

EMI/RF shielded multibranch Micro-D connector assembly with Glenair\textsuperscript{TM} SuperFinline\textsuperscript{TM} panel mount I/O connector

Multibranch Micro-D / Mighty Mouse
Cable assembly with Arrmorc\textsuperscript{TM}Lightweight EMI shield overbraiding

Repairable backshell-equipped cable assembly for a special lab application

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M22759 · Ethernet · USB · coax · harsh-environment power and signal

DUBALECTRIC™

- Service temperature: -65°C to 225°C
- Duralectric K (Kelvin): -110° to 225°C
- Fire-resistant, Low Smoke-Zero Hal
- Mil-aero and industrial fluid-resistant
- Accelerated UV/sunlight resistant, 53 year equivalent exposure
- Ozone resistant IAW ASTM D1149
- Moldable and extrudable

TURBOFLEX™ ULTRA-FLEXIBLE / RUGGED POWER CABLE WITH DUBALECTRIC® JACKETING

- Ultra-flexible rope lay power cable construction
- Available in a broad range of gages, from 16 AWG to 450 MCM
- Rugged Duralectric® Jacketing

DUBALECTRIC® HIGH-TEMPERATURE, HALOGEN-FREE, CHEMICALLY RESISTANT JACKETING

- Bulk jacketed Duralectric® cable for harsh-environment power applications
- Duralectric® Autoshrink™ employed in environmental boots and sleeves
- Duralectric® jacketing employed as conduit covering in topside naval applications
- Aerospace overmolded cable assembly with rugged Duralectric® Jacketing
- Shipboard application with Duralectric® jacketing and overmolding
- Duralectric® jacketing employed in environmental commercial application

HIGH-PERFORMANCE WIRE AND CABLE

M22759 single-ended hookup wire
Coaxial cable for RF applications
Single and multimode graded-index fiber optic cable
Matched impedance twisted pair cable for Glenair Ultra-Twinax contacts
Aerospace-grade quad cable for Glenair Quadax contacts
Aerospace-grade 1G Ethernet cable for El Ochito™

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QPL AND COMMERCIAL CONTACT TECHNOLOGY

signal · RF · high-speed datalink · microwave · power · fiber optic · high voltage

LOW-LOSS, MATCHED-IMPELDANCE RF AND MICROWAVE CONTACTS

- Size #12 50 Ohm contacts
- Size #12 75 Ohm contacts
- Size #12 spring-loaded SMPM microwave contacts
- Size #8 spring-loaded BMB microwave contacts

HIGH-SPEED DATALINK CONTACTS FOR ARINC, 38999, AND OTHER CONNECTORS

- Size #8 differential twinax contacts
- Size #8 quadax contacts
- Size #8 El Ochito® octaxial contacts
- Octabyte™ Ethernet Cat7A contacts

AS39029 SIGNAL CONTACTS

- Standard-density signal
- High-density signal (up to 1500 cycles)
- Extended-duty signal
- Printed circuit board signal
- Thermocouple

AS39029 RF CONTACTS

- Size #16 coaxial contacts
- Size #12 coaxial contacts
- Size #8 coaxial contacts
- Size #8 concentric twinax contacts

POWER CONTACTS

- Size #8 power
- LouverBand™ power
- High-voltage
- Size #8 – 4/0 power

FIBER OPTIC TERMINI

- MIL-DTL-29504 QPL termini
- Glenair High-Density (GHD) and Front-Release (GFR) termini
- GFOCA genderless termini IAW M83526
- Eye-Beam® GLT grin lens termini

SPECIAL PURPOSE CONTACTS AND PURE GAS TUBE CONTACTS/ASSEMBLIES

- Pneumatic contacts for Pitot applications
- Lightweight sealing plugs and dummy sealing contacts
- High-pressure (10K psi) gas tube contacts and assemblies
QPL AND COMMERCIAL
RECTANGULAR CONNECTORS

AlphaLink™ · HD Stacker™ · Nano (32139)
Micro-D (83513) · D-subminiature (24308) · Series 79/791 · Super-Twin™

SERIES 28 HIPER-D HIGH-PERFORMANCE MIL-DTL-24308 INTERMATEABLE
- Enhanced panel mount sealing and mounting
- Combo power and signal contact arrangements
- Ground spring for improved EMC
- Precision-machined shells and EMC couplings
- Low profile, environmental and split-shell EMI backshells

SERIES 79 MICRO-CRIMP HIGH-DENSITY CRIMP CONTACT MICRO RECTANGULAR
- Crimp-terminated cable connectors
- Crimp-terminated panel-mount connectors
- Panel-mount connector with auxiliary sealing
- Right angle PCB panel-mount connectors
- Backshells, EMI adapters and protective covers

MIL-DTL-83513 MICRO-D QPL AND GLENAIR COMMERCIAL EQUIVALENTS
- Micro-D for harness applications
- Micro-D for PCB applications (parylene compatible)
- Master-Latch™ locking Micro-D
- Well-Master™ 260° high-temperature downhole
- Micro EdgeBoard connectors and locking Micro-Strips

SERIES 20 SUPER-TWIN™
- Super-Twin™ lightweight composite modular connectors
- AlphaLink® board-level pogo-pin connectors and flex jumpers

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### LIGHTWEIGHT

**ULTRAMINIATURE CIRCULAR CONNECTORS**

save weight · save space · optimize power · enhance performance

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#### SERIES 80 MIGHTY MOUSE

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>UN thread</td>
</tr>
<tr>
<td>801</td>
<td>bayonet</td>
</tr>
<tr>
<td>803</td>
<td>push-pull</td>
</tr>
<tr>
<td>804</td>
<td>triple-start</td>
</tr>
</tbody>
</table>

#### SERIES 88 SUPERFLY™

- Push-pull quick-disconnect
- Threaded coupling
- Environmental cordsets
- 90° and 180° cobras

#### TACTICAL DATA COMMS

- Snap-lock, trigger release MouseBud™
- Mil-Spec and HiPer-55116 radio connectors
- CB Series audio connectors
- Mighty Mouse SuperSeal®
- Mighty Mouse Micro-USB

#### TURNKEY HARSH-ENVIRONMENT POINT-TO-POINT AND MULTIBRANCH CABLE ASSEMBLIES

- Overmolded point-to-point cables
- Coaxial cable solutions for radio / audio applications
- Multibranch harnesses and cable assemblies
QPL AND COMMERCIAL

MIL-AERO CIRCULAR CONNECTORS

environmental · hermetic · filter · fiber · high-speed datalink · bulkhead feed-thrus · Sav-Con®s · lanyard-release

Supernine® MIL-DTL-38999 SERIES III AND IV

Determined Performance MIL-DTL-38999 SERIES IIITYpe Connectors

100% made in America. No foreign-sourced materials, component parts, or assembly labor employed.

DLA QPL MIL-DTL-38999 SERIES III AND IV

Extended-durability plug with band porch and 1500 mating cycle contacts
Extended-durability plug with accessory threads
High-density plugs and receptacles in all mounting styles (up to 1500 cycles)

Piston seal submersible series

Flush-flange
Stepped contact
Short standoff
Threaded standoff
Dual flange

Data link contact high-speed series
Glass-to-metal seal hermetic connectors
EMI/RFI filtering and TUV diode EMP designs
Tight tolerance fiber optic connectors

Supernine® MIL-DTL-38999 TYPE CRIMP CONTACT TERMINATION

Supernine® MIL-DTL-38999 TYPE POTTED/SEALED PC TAIL RECEPTACLES (PARYLENE-COMPATIBLE)

Supernine® MIL-DTL-38999 SERIES III TYPE HIGH SPEED, HERMETIC, FIBER, AND FILTER

Sav-Con® connector savers and other high-performance series

Sav-Con® connector savers for every MS circular series
Environmental and hermetic bulkhead feed-thrus
Space-grade blind-mate and assisted-separation connectors
AS81703 Series 3 type high shock lanyard release

100% made in America. No foreign-sourced materials, component parts, or assembly labor employed.

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.
**QPL AND COMMERCIAL**

**GLASS- AND ADHESIVE-SEAL HERMETIC CONNECTORS**

heavy-duty and lightweight solutions

---

**CODE RED™ LIGHTWEIGHT HERMETIC SEALING**

Lightweight hermetic encapsulant sealing solution with better than 1X10^-7 leak rate performance. Available now for D38999 and Series 806 Mighty Mouse.

**MIL-DTL-38999 QPL AND COMMERCIAL PIN AND SOCKET HERMETICS**

- Series I scoop-proof bayonet coupling
- Series II low-profile bayonet coupling
- Series III scoop-proof triple-start coupling
- Series IV breech lock

---

**HARSH-ENVIRONMENT / MODIFIED PACKAGE HERMETICS**

- Geo-Marine® double-start hermetic connector
- Hermetic power connector
- Single-way tool joint HTHP hermetic connector
- Hermetic probe connector with modified flange
- Long-length hermetic bulkhead penetrator with optional crimp piggy-back termination

---

**HIGH-SPEED DATALINK HERMETICS**

- Triax hermetic
- Hybrid coax/signal hermetic
- Quadrax hermetic with special weld-mount flange

---

**FIBER OPTIC HERMETICS**

- MT ribbon fiber optic hermetic
- Hybrid coax/signal hermetic

---

**RECTANGULAR PACKAGE HERMETICS**

- MIL-DTL-24308 QPL hermetic
- Series 79 Micro-Crimp hermetic
- MIL-DTL-83513 type Micro-D hermetics
- Sealed panel-mount Micro-D hermetic

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**OTHER CIRCULAR GLASS-SEALED HERMETIC SERIES**

- MIL-DTL-26482
- MIL-DTL-83723
- MIL-DTL-38999 (QPL)
- MIL-DTL-5015
- Series 80 Mighty Mouse

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SERIES 240

EMI/EMP FILTER CONNECTORS

EMI ceramic planar array filter connectors • EMP TVS diode solutions

MINIATURIZED EMI/RFI FILTER PRESSURE TRANSDUCERS

Glenair is the only mil-aero-grade filter connector supplier that offers same-day delivery of off-the-shelf, catalog filter connectors, for every MIL-DTL-38999 series

EMI TRANSIENT VOLTAGE SUPPRESSION DIODE-EQUIPPED CONNECTORS

Small form-factor pressure sensors for commercial and military aerospace applications with integrated ceramic planar array EMI/RFI filter technology (miniaturized MIL-DTL-38999 version shown on left, ultraminiature Mighty Mouse 804 on right)

EMP diode-equipped connector with oversized shell
MIL-DTL-38999 Series III type EMP connector
Reduced-package-size EMI/EMP cylindrical
MIL-DTL-38999 Series III type EMP with rectangular housing

CATALOG EMI FILTER CONNECTORS WITH MIL-STANDARD CIRCULAR PACKAGING

MIL-DTL-38999 Series III triple-start
MIL-DTL-38999 Series IV breech-lock
MIL-DTL-26482 Series I and II bayonet
MIL-DTL-83723 Type T threaded
MIL-DTL-5015 threaded

UNIQUE AND SPECIAL-PURPOSE EMI FILTER CONNECTORS

Extended-shell PC-tail cylindrical with threaded standoff
Special-purpose filter connector cable adapter
Series 80 Mighty Mouse PC-tail filter receptacle
MIL-STD-1760 filtered umbilical connector
Filter plug with crimp contacts

MIL-DTL-38999 type filter connector with sidecar ceramic array packaging
MIL-DTL-38999 type filter connector with hybrid analog signal and HF contacts
Series 970 PowerTrip™ high-density EMI filtered power connector
Series 804 EMI filtered Mighty Mouse push-pull with custom flange
SuperSeal™ RJ45 Ethernet connector with EMI filtering

EMI FILTER CONNECTORS WITH MIL-STANDARD / GLENAIR RECTANGULAR PACKAGING

MIL-DTL-83513 type Micro-D filter connector
MIL-DTL-24308 type D-sub filter connector
Series 79 Micro-Crimp filter connector
ARINC 600 rack-and-panel filter connector
RUGGEDIZED
HIGH-SPEED DATALINK INTERCONNECTS
contacts · connectors · jumpers
HIGH-PERFORMANCE
FIBER OPTIC INTERCONNECT SYSTEMS
connectors · termini · cables · tools

EYE-BEAM® GMA AND EYE-BEAM® GLT EXPANDED-BEAM CONNECTION SYSTEMS

Eye-Beam® GMA (HMA type intermateable) IAW M83526/21 panel mount configuration
Eye-Beam® GMA (HMA type intermateable) IAW M83526/20 hermaphroditic cable plug configuration
Available cable tools and field deployment technologies including man-packable units

Innovative Eye-Beam® GLT grin-lens expanded-beam termini can be integrated into virtually any circular or rectangular connector package. Factory terminated lens pin termini and lens socket termini on cable jumpers allow for easy fusion splicing in the field.

GLENAIR BUTT-JOINT FIBER OPTIC CONNECTION SYSTEMS

MIL-DTL-38999 type fiber optic
Glenair High Density (GHD) fiber optic
Mighty Mouse fiber optic

ARINC 801 type fiber optic
MT Ferrule 38999 type fiber optic
NGCON MIL-PRF-64266 fiber optics
Fiber optic Sav-Con® connector savers

MIL-PRF-28876 Fiber Optic
GFOCA M83526 Compliant Fiber Optic
Glenair Front Release (GFR) fiber optic

TOOL KITS AND TRAINING

Fiber Optic termination and maintenance kits
Fiber optic test probes and adapters
Dry-wipe fiber optic cleaning tools
On-site fiber optic technician certification training

FIBER OPTIC CONNECTOR BACKSHELLS

For user termination and fabrication of fiber optic cable and conduit assemblies
Catalog point-to-point solutions as well as bespoke multibranch assemblies

TURNKEY FIBER OPTIC CABLE AND CONDUIT ASSEMBLIES

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SEAKING™: FLAGSHIP SERIES MECHANICAL AND ENVIRONMENTAL FEATURES

- Retractable engaging nut retention ring for easy O-ring inspection/replacement
- Retractable overmold delamination ring accessory
- Wrench flats
- Indexable flange
- Replaceable dual O-rings standard on all CCP, BCR, and FCRs
- BCR showing keyway-assisted mating and polarization feature and wrench flats for reliable, secure attachment to pressure bulkheads
- Optional overmold delamination ring accessory

10K PSI OPEN-FACE
UNDERWATER / SUBSEA CONNECTORS
deep water · downhole/HTHP · topside · shallow water · high-speed copper/fiber

SeaKing™ 10K PSI open-face high-density subsea connectors and cables
Well-Master® high temperature Micro-D connectors
SuperG55™ dry-mate 10K PSI subsea electrical connectors
Economical Marine Molded cable-to-cable and cable-to-panel interconnects

Deep Water Subsea, High-Pressure 10K PSI / 700 Bar / 7000M Connectors

- Well-Master® high temperature Micro-D connectors
- Single- and multi-pin High Temperature/High Pressure (HTHP) Glass sealed penetrators and feedthroughs
- SeaCrow™ rugged Marine Bronze environmental connectors
- ITS-Ex ATEx-qualified and approved explosive zone connectors
- Corrosion-resistant composite junction boxes, cable bays, and wire protection conduit
- BCR showing keyway-assisted mating and polarization feature and wrench flats for reliable, secure attachment to pressure bulkheads
- Replaceable dual O-rings standard on all CCP, BCR, and FCRs

AquaMouse™ 3500 PSI miniature Connectors
Geo-Marine® 5000 PSI connectors and overmolded cables
GeaCrow™ 3500 PSI connectors and overmolded cables

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## Lightweight Composite Thermoplastic Backshells and Accessories

- **Band-In-A-Can EMI/RFI** composite backshell
- **Composite EM/RFI** backshell with attached lightweight braid
- **Swing-Arm**™ flex with drop-in wire shield adapter
- **Split-shell low profile** composite banding backshells
- **Composite bulkhead** feed-thru with hybrid wire sealing grommet

## Light-weight Composite EMI/RFI Environmental Junction Boxes

- Modular junction box with feed-thru fittings and caps
- Custom connectorized low-profile composite data hub
- Heavy-duty composite cable/equipment bay
- Ultra small form-factor miniature enclosure

## QPL and Commercial Connector Backshells and Accessories

- **Environmental sealing** · **Wire management** · **Strain relief** · **EMC shield termination**

## Composite Thermoplastic Connectors and Accessories

- **Plus** Composite Enclosures, Gasket Systems, Braided Shielding, Assembly Tools, and More!

## United States
- **United Kingdom**
- **Germany**
- **France**
- **Nordic**
- **Italy**
- **Spain**
- **Japan**

## M24308 D-Sub Solutions: High Performance, Ruggedized D-Subminiature Products

- **Split-shell D**-subminiature composite backshell
- **Composite M24308** composite backshell
- **Composite D-subminiature** backshells
- **Flex-D composite** M24308 backshell
- **M24308 EMI/RFI** backshell

## Backshell and Connector Accessory Innovation Showcase

- **StarShield™ zero-length shield termination** backshell
- **Spring loaded** “Pop-Lid” protective cover
- **Space-grade Qwik Clamp** backshell
- **Ultra low-profile** backshell
- **BacNav OFS™** repositionable EMI/EMP backshell

- **Backshell connector saver**
- **Self-locking, anti-decoupling** protective covers
- **Meta-Loc**™ series quick-lock, quick-release backshells
- **Mi-grade RF** protective covers and accessories
- **Pressure-barrier** firewall feed-thrus
EMI screening · weight reduction · abrasion protection · spot repair

EMI/RFI Shielding

Tubular AmberStrand® and ArmorLite™ lightweight metal-clad microfilament EMI/RFI braided shielding

Shield sock backshells with lightweight ArmorLite™ or AmberStrand® microfilament EMI/RFI braid

MasterWrap™ flexible, field-installable/repairable side-entry EMI/RFI shielding with ArmorLite™ technology

TUBULAR ARMORLITE™ (STAINLESS STEEL) AND AMBERSTRAND® (COMPOSITE) SHIELDING

Lightweight ArmorLite™ microfilament ground straps

Heavy-duty metallic braid ground straps

MIL-DTL-24749 Type IV Quali¢ed navy ground straps

Round braid pro¢le ground straps

INDUSTRY-STANDARD TUBULAR FABRIC AND METAL BRAID

Tubular fabric braid for mechanical and abrasion protection of electrical wire interconnect systems.

Wide range of colored Nomex for abrasion protection and wire identi¢cation.

QQ-B-575B/A-A-59569 metallic braid for EMI shielding.

High-temperature fiberglass braid for engine applications
ENVIRONMENTAL SHRINK BOOTS AND HEAT-SHRINK TERMINATIONS

abrasion protection · environmental sealing
splicing · space-grade wire protection

NEW SPACE-GRADE SHRINK BOOTS
Low-outgassing fluoropolymer alloy shrink boots

HOT AND COLD SHRINK BOOTS AND TUBING FOR RUGGED ENVIRONMENTAL APPLICATIONS

Standard tipped or lipless boots
long tail and high ratio configurations
90° and 45° angle boots
SuperFly, Mighty Mouse, and D subminiature configurations

Selected environmental shrink boot color options
Olive drab 45° boot
Desert Tan widebody Y transition
Right-angle adapter, purple
4–1 widebody transition, yellow
Green long-tail boot
High-ratio right-angle adapter, grey
Low-profile 3–1 adapter, white

SHRINK BOOT ADAPTERS SELECTION GUIDE
Series 310 Shrink Boot Adapters
Series 311 EMI/RFI Lamp-Base Thread/Boot Adapters
Series 319 Shield Sock/Boot Adapters
Series 440 Band/Boot Adapters
SAE-AS85049 QPL Shrink Boot Adapters
Composite thermoplastic band/boot adapters

PIGGYBACK SHRINK BOOT ADAPTERS
Environmental piggyback adapter with pre-installed boot, ready for heat shrink
Heat shrink recovery completed with significant time saved
Composite, aluminum, or stainless steel environmental feed thru with piggyback boot
Composite band-in-a-can piggyback boot adapter
HARSH-ENVIRONMENT

METAL AND POLYMER CORE CONDUIT SYSTEMS

high-temperature · crush-resistant · EMI/RFI shielded · land, sea, and air

LIGHTWEIGHT, SEALED/FLEXIBLE POLYMER-CORE ANNULAR CONDUIT WIRE PROTECTION SYSTEMS

- Kynar, PVDF, and G-Flex Siltem materials
- Braided shielding and jacketing options
- Easy-to-install Guardian wire protection system
- Sentry economical wire protection system
- Non-wired factory-terminated assemblies

HIGH-TEMPERATURE, HIGH-STRENGTH HELICAL POLYMER-CORE WIRE PROTECTION SYSTEMS

- High-temperature, high-strength helical conduit
- Easy-to-install Hat-Trick wire protection system
- Internal braid wire protection system
- AeroLine wire protection system
- Non-wired factory-terminated assemblies

HEAVY-DUTY METAL-CORE CONDUIT WIRE PROTECTION SYSTEMS

- Flexible, crush-proof EMI/RFI metal-core conduit
- Low-profile RP Plus wire protection system
- Heavy-duty metal and weight-saving composite systems
- Legacy Mil-C-24758 wire protection system
- Non-wired factory-terminated assemblies

MIL-PRF-24758 SHIPBOARD CONDUIT WIRE PROTECTION SYSTEMS

- Stainless steel and brass metal-core conduit with UV-resistant BlueJacket
- Complete range of qualified MIL-PRF-24758 fittings
- Master Seal self-vulcanizing BlueJacket (Duralectric) repair tape
- Non-wired factory-terminated assemblies

SPECIAL-PURPOSE CONDUIT MATERIALS AND CONFIGURATIONS

- Spring-reinforced polymer-core assemblies
- Halogen-free PEEK tubing
- Special composite fiber optic backshells
- Conduit and jacket color options including Desert Tan
- Special processing including drain holes, ovalization and split-entry

TURNKEY FACTORY-TERMINATED CONDUIT ASSEMBLIES

- Complex multibranch fighter jet electrical wire conduit assembly
- Lightweight, halogen-free rail industry wire conduit assembly
- Crush-resistant commercial aerospace metal-core conduit assembly

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**INTERCONNECT**

**ASSEMBLY TOOLS**

**banding • grounding • crimping • mounting • termination • testing**

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**GROUNDCONTROL EARTH BOND**

- Hydraulic Earth Bond setting tools for aluminum and stainless steel plate
- Bi-laminar (copper core) earth bonds
- Available dynamometer
- Used for ground strap bonding and equipment rack installation

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**FIBER OPTIC TERMINATION AND TEST TOOLKITS**

- Turnkey fiber optic termination and maintenance kits
- Inspection and test probes and adapters
- Dry wipes fiber optic cleaning tools
- Fiber optic polishing pucks
- Video scope inspection kits

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**CRIMP TOOLS**

- M22520/01 and /02 Wire-to-contact crimp tools
- Locators and accessories
- Crimp contact insertion and removal tools

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**BACKSHELL-TO-CONNECTOR MOUNTING TOOLS**

- TG70 Universal strap wrench
- Circular backshell assembly wrenches
- Connector holding tool kits and wrenches
- Soft jaw pliers
- Bench mount tools for volume production

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**Band-Master ATS® EMI/RFI CABLE SHIELD TERMINATION SYSTEM**

- Nano banding tool for use with ultraminiature connectors and banding backshells
- Micro banding tool for use with most subminiature connectors and banding backshells
- Standard and Slim Standard banding tools for use with large form-factor connectors and banding backshells
- Each tool accommodates a specific width of band (nano, micro, or standard)
- Bands are available precoiled for high-volume assembly operations
- Special high-volume pneumatic tool for bench use, available for all sizes

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**The only banding tool with a built-in calibration counter**

- Nano
- Micro
- Standard

**Bands and tools optimized for size and weight reduction across the complete range of connector, backshell, and cable form factors**

---

**Earth Bond / Ground Stud Installation System**

Fast · Clean · Weld-Free · Corrosion-Resistant

- Easy one-hand operation setting tools are available for both thick and thin plate
- Studs are a conductive bilaminar (copper core) design with extremely low electrical resistance
- The system supports both through hole and blind hole installation
- No surface preparation of the plate is required, conductive ground path is via the internal drilled surface
- Both UNC and metric thread studs are available

---

**GroundControl**

**Inspection and test probes and adapters**

- Dry wipes fiber optic cleaning tools
- Fiber optic polishing pucks
- Video scope inspection kits

---

**Fast installation equals cost savings**

- Universal application: may be applied to any suitable chassis location
- Bond installed from one side
- No surface preparation of bonding area required
- Minimal operator training needed
- Professional appearance and aesthetic

---

**Earth Bond / Ground Stud Installation System**

- Fast · Clean · Weld-Free · Corrosion-Resistant

---

**Earth Bond**

- The GroundControl Earth Bond system is designed for easy attachment of weldless ground studs to metal plate. The complete system includes hydraulic hand tools, a range of available ground studs, and ground strap fastening hardware. Easy one-hand operation setting tools are available for both thick and thin plate. Studs are a conductive bilaminar (copper core) design with extremely low electrical resistance. The system supports both through hole and blind hole installation. No surface preparation of the plate is required, conductive ground path is via the internal drilled surface. Both UNC and metric thread studs are available.

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- Professional appearance and aesthetic
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.

M85049 (AS85049) backshells and connector accessories
MIL-DTL-83723 backshells and connector accessories
M81511 (AS81511) protective covers and connector accessories
M85049/140 series qualified / TACOM-approved environmental shrink boots
MIL-PRF-24758 Navsea-qualified conduit and fittings
M85049 composite backshells and covers for MIL-DTL-38999

MIL-DTL-38999 Series III environmental connectors
MIL-DTL-38999 Series IV environmental connectors
MIL-DTL-28840 shipboard connectors and accessories
MIL-DTL-38999 Series I, II, III, and IV hermetic connectors
MIL-DTL-24208 hermetic connectors
MIL-DTL-28876 shipboard fiber optic
MIL-DTL-32139 Nanominiature connectors and accessories
MIL-DTL-29504 (fiber optic) and AS39029 (electrical) contacts
MIL-DTL-83513 Micro-D connectors and accessories

COMMITMENT TO QUALITY

Glenair is proud of the quality and reliability we build into our extensive range of interconnect solutions—from discrete connectors to complex integrated systems. Glenair is the biggest “made in the USA” interconnect supplier in the high-reliability industry. Glenair is ISO 9001:2008 and AS9100:2009 certified and registered in the United States. Our PCB and solder termination operations are also Nadcap certified. Internationally, Glenair’s industrial operation in Bologna, Italy is IRIS, AS9100 SAE Aerospace and ISO 9001 certified. Our Mansfield, UK Micro and Nano connector and cable operation is likewise AS9100 certified and registered. We are laser-focused on customer service and committed to being the easiest manufacturer in our market 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
- 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 Factory Tour

GLENDALE, CALIFORNIA
Complete vertical integration of manufacturing resources—at home in Southern California since 1956

Glenair operates the largest precision machining facility in the high-performance interconnect industry, allowing us to support both small and large-volume interconnect requirements—from one piece to 100,000

Glenair’s massive investment in composite thermoplastic injection molding capabilities—the largest in the high-reliability interconnect industry—includes machinery, tooling, and most importantly, professional operators.
Glenair Factory Tour

GLENDALE, CALIFORNIA
Complete vertical integration of manufacturing resources—at home in Southern California since 1956

Glenair design, engineering, and fabrication capabilities extend to both electrical as well as optical connectors, cables, and complex integrated assemblies—all under one roof and one worldwide quality system.

Glenair is unique in the high-reliability interconnect industry, having extended our capabilities to include complex filter, flex and PCBA fabrication for mission-critical applications.
Glenair Factory Tour

GLENDALE, CALIFORNIA
Special behind-the-scenes tour of Glenair’s hydrostatic test lab for high-pressure subsea electrical and fiber optic interconnects

1. Cable and subassembly staging
2. Large cable and subassembly pressure test bunker
3. Hydrostatic test lab control room
4. Production connector staging
5. Small connector pressure test bunker

CONTROL ROOM: The modular consoles in the control room provide for up to 8 pressure circuits, operating in Manual mode or Automated. Each circuit is capable of a maximum of 16.5K psi. Monitors display Automated Test Profiles, Data Acquisition, remote viewing of Test rooms and more. System is network connected for access to Profiles and distribution of test reports.

DISCRETE CONNECTOR TESTING: All Glenair subsea interconnects are subjected to 100% inspection and test.

SeaKing™ and SuperG55™ QUALIFICATION TESTING: Both Glenair Series 70 SeaKing and SuperG55 rugged dry-mate subsea connectors have been tested and qualified to their 10K psi pressure rating—open-face and mated—in Glenair’s state-of-the-art hydrostatic test lab. Additional testing included mating cycles, salt spray, and electrical continuity.

TECHNICAL STAFF: Knowledgeable and trained subsea specialists perform both in-house product qualification testing, as well as customer subassemblies.

LARGE PRESSURE VESSELS: Built to accommodate complete cable assemblies, mated connectors, and customer-supplied subassemblies.

Glenair Hydrostatic Test Lab Technical Specifications and Pressure Test Standards

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure test profiles</td>
<td>Automated or manual</td>
</tr>
<tr>
<td>Maximum test pressure</td>
<td>16.5K psi</td>
</tr>
<tr>
<td>Data acquisition types</td>
<td>Pressure, time, temperature, and electrical performance</td>
</tr>
<tr>
<td>Performance monitoring under pressure</td>
<td>Fill, continuity, inversion loss, and backreflection (optical)</td>
</tr>
<tr>
<td>Industry profiles</td>
<td>All major oil &amp; gas standards</td>
</tr>
<tr>
<td>Custom profiles</td>
<td>Yes, including customer-supplied subassemblies</td>
</tr>
<tr>
<td>Capacity (large pressure vessels)</td>
<td>Working volume = 12” diameter x 15” depth, Test specimen weight up to 1500 lbs.</td>
</tr>
</tbody>
</table>

55
Glenair Factory Tour

**MANSFIELD, ENGLAND**
Mission-critical interconnect technologies for the UK and European markets with a special focus on micro and nanominiature flex assemblies

**MICRO AND NANOMINIATURE HARNESS AND FLEX ASSEMBLIES**
- Terminated and tested flexi and rigid flexi point-to-point assemblies with Glenair Micro and Nano interconnects
- Complex multibranch flexi and rigid flexi assembly with Glenair Micro and Nano interconnects
- Micro and Nano wired harnesses and pigtails

**MOULDED ENVIRONMENTAL INTERCONNECT COMPONENTS AND COMPLEX ASSEMBLIES**
- In-house moulded shrink boots and multibranch cable transitions
- Color-coded overmoulded power and signal cable assemblies
- Complex integrated Micro assemblies with machined chassis

**MWDM MICRO CONNECTORS**
- ESCC series Micro connectors for ESA space and other UK and EU markets

**TOOLING**
- Complete range of interconnect tooling including GroundControl Earth Bond system

**SUPERG5S SUBSEA**
- Oil & Gas industry subsea connector series

**The Glenair Mansfield machine shop houses a full complement of CNC milling, turning, measurement, and mechanical inspection equipment**

Micro-D and Nanominiature harnessing is completed in our ISO 9001:2008 and BS EN 9100:2005, BS EN 9110:2005 certified facility

Glenair UK operates an independently accredited BS9000:CECC:IECQ test lab for both internal as well as third-party product development / design verification and connector qualification.
Glenair Factory Tour

BOLOGNA, ITALY
Glenair Italia serves harsh-environment military, transportation, rail, and industrial markets with power, high-speed Ethernet, hazardous-zone connectors and more.

SUPER ITS™ HIGH-PERFORMANCE REVERSE BAYONET

ITS-Ex HAZARDOUS ZONE CONNECTORS

Higher temperature and ampacity rating with rigid inserts and mechanical contact retention

IECEx / ATEX qualified explosive zone 5015 type reverse-bayonet connectors for Group IIC, Temperature Classes T6 and T5, Zones 1 and 2

CIRCULAR HEAVY-DUTY POWER AND SIGNAL CONNECTORS: 5015 TYPE DERIVATIVES

Series ITS reverse-bayonet
Series ITH rigid insert
Series IT threaded coupling
Series ITZ triple-start coupling
Series ITK high-temperature ceramic insert

OCTOBYTE SERIES RUGGEDIZED ETHERNET CONNECTOR

HIGH-VOLTAGE POWER

Tested for compliance according to EN50173-1 standards for CAT5E and CAT7

Ethernet Cat7A contacts
Ethernet Cat5 contacts
Coax contacts
Ethernet MVB - WBT contacts
Series IRT rectangular multipole high voltage traction motor connectors

In-house injection molding (far left) and resilient insert processing (left) provide Glenair Italia with all the resources required to fabricate interconnect technologies from scratch without dependence on outside suppliers

Glenair Italia hosts the most modern and comprehensive interconnect plating facility in Europe

In-house test lab with capabilities for both high voltage as well as high speed signal product qualification

Total vertical integration includes in-house contact fabrication

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