TURNKEY OPTICAL AND ELECTRICAL
INTERCONNECT CABLE ASSEMBLIES AND HARNESSES

customer bespoke wire harnesses, overmolded assemblies, and wired conduit assemblies

SPACE-GRADE WIRE HARNESS ASSEMBLIES

EMI/RFI shielded multibranch Micro-D connector assembly with Glenair Series 23 SuperNine panel mount D connector

Multibranch Micro-D / Series 806 cable assembly with ArmorLife lightweight EMI shield overbraiding

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

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

Environmental overmolded fiber optic cable assembly

Multi-way inside-the-box D38999-to-ST assembly

GFOCA (M8) M83526 environmental cable assembly

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Optical Flex Circuit Assemblies

**Signature**

- **Fiber Crossing**
  - Flexible polymer substrate
  - Thermally-stable flame-resistant
  - 250μm colored optical fibers
- **Routed and Bonded**
- **Bend Radius Design**
- **Interconnect Solutions**
- **Rugged High-Density, High Data Rate Optical Flex Circuits for**
- **Military**, **Space**, and **Aerospace**

**Optical Backplanes**
- **Shuffle Circuits**
- **AlphaLink**
- **VITA 66 type backplane**
- **ISO9001:2008**

**Interconnect Designs**
- **matched-impedance**
- **High-speed, high data rate optical backplane connectors**
- **Vitra 66 and Glenair Signature**

**Circuit Assemblies**
- **Matched-impedance I/O connectors**
- **Ultra-miniature optical flex circuits**
- **Low-profile Micro-D connector**

**Special-Purpose Flex and Rigid-Flex Designs**
- **Singlemode/Multimode optical fibers**
- **NASA EEE-INST-002 screening**
- **Equalizer**

**Multibranch Flex and Rigid Flex Connectorized Assemblies**
- **26 layer EMI/RFI shielded rigid flex assembly**
- **Series 80 Mighty Mouse I/O jumper**
- **Rigid/Micro-D connector to AlphaLink SL PCB connector**

**Rugged High-Density, High Data Rate Optical Flex Circuits for**
- **Multi-layer**
- **Interconnect solutions**
- **High-speed, high data rate optical backplane connectors**
- **Ultra-miniature optical flex circuits**
- **Low-profile Micro-D connector**

**Multipurpose Flex and Rigid-Flex Connectorized Assemblies**
- **26 layer EMI/RFI shielded rigid flex assembly**
- **Series 80 Mighty Mouse I/O jumper**
- **Rigid/Micro-D connector to AlphaLink SL PCB connector**

**Optical Flex with low-profile breakouts to M29504,**
- **Connector to AlphaLink SL PCB connector**
- **Multibranch RJ45 / Ethernet / USB Flex assembly.**

**Turnkey PhotonicFlex Optical backplanes flex circuits**
- **Shuffle Circuits Yes**
- **Flat and 3D Designs Yes**
- **Circuit Thickness 0.6mm**
- **Fiber Types Singlemode/Multimode**
- **Optical Fiber Nominal OD 250μm**

**Glenair in-house design, production, and test fabrications with Glenair high-density**
- **opto-electronic modules**
- **Made in the USA**

**Flex Assembly**
- **Signature or M29504 F/O breakouts**
- **MT ferrule terminations**
- **Glenair circuit assemblies**
- **High-density photonicflex**

**INTERNATIONAL CUSTOMER SUPPORT**
- **www.glenair.com**
- **818-247-6000**
- **U.S. CAGE code 06324**
HIGH-PERFORMANCE WIRE AND CABLE

M22759 · Ethernet · USB · RF/coax · harsh-environment power and signal
## QPL AND COMMERCIAL CONTACT TECHNOLOGY

**signal • RF • high-speed datalink • microwave • power • fiber optic • high voltage**

### LOW-LOSS, MATCHED-IMPEDANCE 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 quadraax contacts
- Size #8 El Ochito® octaxial contacts
- Octobyte™ 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
- kV Seal high-voltage
- Size #8 – 4/0 power

### FIBER OPTIC TERMINI

- MIL-DTL-23554 QPL termini
- Glenair High-Density (GHD) and Front-Release (GFR) termini
- GFOCA genderless termini
- IAW ML8526
- Eye-Beam® GLT grin lens termini

### SPECIAL PURPOSE CONTACTS AND PURE GAS TUBE CONTACTS/ASSEMBLIES

- Pneumatic contacts for Pitot applications
- Low-resistance TwistPin contacts: Micro, Nano, D-sub, crimp, and factory-terminated
- High-pressure (10k psi) gas tube contacts and assemblies
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

Patented size #8 opto-electronic transmitter and receiver contacts...

RUGGEDIZED 10 GBPS PCB-MOUNT PHOTONIC TRANSCIEVERS, 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, IIIM 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
HIGH-PERFORMANCE
FLBER OPTIC INTERCONNECT SYSTEMS
connectors · termini · cables · tools

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

Available cable seals and field-deployment technologies including unpackable units

Rugged, high-power expanded-beam fiber optics for directed energy applications

Innovative Eye-Beam® GLT grn-lens expanded-beam termini can be integrated into virtually any circular or rectangular connector package

EYE-BEAM® POWER

Fiber Optics and Photonics for Aerospace Applications

Glenair Front Release (GFR) fiber optic

NGCON MIL-PRF-64266 fiber optics

Glenair High Density (GHD) fiber optic

Series 806 Mil-Aero micro miniature fiber optic

MIL-PRF-28876 Fiber Optic

ARINC 801 type fiber optic

Ruggedized, high-density MT ferrule fiber optics and MT optical flex aerospace-grade solutions

GFOCA M83526 Compliant Fiber Optic

GLENAIR BUTT-JOINT FIBER OPTIC CONNECTION SYSTEMS

TOOL KITS AND TRAINING

Fiber Optic termination and maintenance kits

Fiber optic test probes and adapters

Micro miniature Series 806 high fiber count designs

Field-servicable FiberCon backshell-equipped designs

TURNKEY FIBER OPTIC CABLE AND CONDUIT ASSEMBLIES

Inside-the-box rugged I/O-to-transceiver designs

Environmental overmolded point-to-point assembly

For user termination and fabrication of fiber optic cable and conduit assemblies

Multibranch junction box assemblies with conduit fiber line protection

Point-to-point fiber assembly with FiberCon conduit adapters

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**PROVEN FLIGHT HERITAGE**

**SPACE-GR ADE INTERCONNECTS**

NASA · ESA · JAXA · Commercial

High-speed, power, and databus Class G connectors and turnkey jumpers

**HOLD-DOWN RELEASE MECHANISMS, PIN PULLERS AND PIN PUSHERS**

- Light Duty: Up to 15 lb release payload
- Medium Duty: Up to 1000 lb release payload
- Heavy Duty: Up to 20,000 lb release payload

D38999 SERIES I AND SERIES II BAYONET-LOCK CONNECTORS

- D38999 Series I (scoop-proof) and Series II (low-profile) bayonet-lock connectors in environmental, hermetic, filtered, and Class G space-grade configurations

**SERIES 806 SPACE-GR ADE MICRO MINIATURE CIRCULARS**

**SPACE-GR ADE M24308, MICRO-D, NANOMINIATURE, AND MICRO-CRIMP CONNECTORS AND CABLES**

- ESA and NASA screened Micro-D and Nano connectors / backshells available as discrete components, wired pigtails, or turnkey harnesses
- Certified laboratory test assemblies including SpaceWire and Micro-D Sav-Con connector savers
- Precision-machined Series 79 Micro-Crimp connectors with shrouded PC tails, auxiliary ground fingers, and shell polarization
- Qualified MIL-DTL-24308 Class X Space-Grade Hermetic, plus HiPer-D (high-performance) space-grade / high-speed environments

**SUPERNINE™ 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.

**FAST-TURNAROUND MICRO-D SPACE-GR ADE HARNESS FABRICATION (GSS - SALEM, GERMANY)**

- Hand assembly work performed by ESA/NASA IPC-certified assembly staff
- Form, fit, and function of prototype harnesses using GSS-produced fixtures
- Ample clean room harness termination and assembly facilities


AVIATION-GRADE

eVTOL AIR TAXI INTERCONNECT SOLUTIONS

for electric propulsion systems, avionic sensors, and EWIS cable management

LIGHTWEIGHT AVIONICS, FLIGHT DECK, ACTUATOR, AND SENSOR CONNECTORS

TurboFlex ultra-flexible power cables are optimized for use with Glenair eVTOL power connectors

Series 806 environmental micro miniature avionic and sensor connector

SuperNine industry-standard avionic and flight deck connector

Series 791 and 792 Micro-Crimp lightweight, high-density, and high-speed datalink rectangular connectors

WIRE AND CABLE PROTECTION AND MANAGEMENT TECHNOLOGY

Bulkhead cable feed-thrus with wire management grommets

Autoshrink cold-action tubing and boots

Solid and slit lightweight color-coded wire protection conduit and fittings

SHIELDING AND GROUNDING SOLUTIONS FOR ELECTROMAGNETIC COMPATIBILITY (EMC)

Lightweight composite cable and wire bundle strain reliefs

Tubular braiding and MasterWrap wraparound shielding for lightweight shielding applications

Lightweight, flexible ground straps and HSTs

TurboFlex ultra-flexible power cables are optimized for use with Glenair eVTOL power connectors

Series 806 environmental micro miniature avionic and sensor connector

SuperNine industry-standard avionic and flight deck connector

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STAR-PAN™ SOLDIER USB HUB / POWER DISTRIBUTION SYSTEM

battle-tested C4ISR / DACAS networking

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

STAR-PAN™ Light - Dismounted Soldier USB Power / Data Hub

STAR-PAN™ II - Tactical Squad and Special Forces USB Power / Data Hub

STAR-PAN™ IV - Mission Commander USB Power / Data Hub

MISSION MANAGER Plug-and-Play EUD / USB Peripheral Data Exchange Device

STAR-PAN™ X - Roll-On, Roll-Off Vehicle Base Station

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

STAR-PAN™ CONNECTOR AND CABLE NETWORK BUILT AROUND THE MIGHTY MOUSE 807 NATO-STANDARD, OPEN-SYSTEM INTERCONNECT INTERFACE FOR C4ISR-EQUIPPED WARRIORS

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

Kägewerks ruggedized EUD case with Mighty Mouse 807 dongle

Inventus Lithium Ion conformal battery with plug-and-play Mighty Mouse 807 connector

Ultralife lightweight wearable battery with Mighty Mouse 807 panel mount receptacle

BB-2590/BA-5590 standard soldier battery with Mighty Mouse 807 power adapter

TacROVER-E video downlink receiver with Mighty Mouse high-speed I/O connector and STAR-PAN interface cable

STAND-TOUGH™

STAR-PAN™ Tactical soldier radio data/power setup with Mighty Mouse 807-equipped radio power booster

Juggernaut Case ruggedized EUD assembly with Mighty Mouse 807 dongle
NAVSEA-QUALIFIED

NAVY TOPSIDE AND BELOW-DECK INTERCONNECTS

DLA / US Navy approved connectors, conduits, boxes, EMC shielding and more

NAVSEA-QUALIFIED

QPL AND GLENAIR SIGNATURE MIL-PRF-28876 FIBER OPTIC CONNECTION SYSTEM

US NAVY QUALIFIED MIL-PRF-24758A METAL-CORE CONDUIT, FITTINGS, AND ASSEMBLIES FOR ABOVE- AND BELOW-DECK SHIPBOARD WIRE ROUTING APPLICATIONS

US NAVY QUALIFIED ENVIRONMENTAL WIRE PROTECTION SOLUTIONS
10K PSI OPEN-FACE
OIL & GAS INDUSTRY
UNDERWATER CONNECTORS

deep water · downhole/HTHP · topside ·
shallow water · high-speed copper/fiber

SEAKING™: FLAGSHIP SERIES MECHANICAL AND ENVIRONMENTAL FEATURES

Retractable engaging nut retention ring for easy O-ring inspection/replacement
Engaging nut set screw (3 places)
Optional overmold delamination ring accessory
Indexable flange
Disengage flange to rotate body for multiple clocking positions
Accessory thread and overmold features
Wrench flats
Multiple PBOF backshell indexing points
PBOF assemblies, straight, 45° and 90° systems with fill ports and swivel fittings

SeaKing™ 700 10K PSI open-face high-density subsea connectors and cables
SeaKing™ Fiber 10K PSI open-face underwater fiber optics
SeaKing™ Power 1-64 kV connectors for primary power junctions
SeaKing™ 700 PEEK cathodic delamination free glass-filled composite
SuperG5™ dry-mate 10K PSI subsea electrical connectors
Micro-PSI™ micro miniature high-pressure connectors and cables
SeaKing™ Junior 10K PSI mated condition dry-mate connectors and cables
Geo-Marine® 5000 PSI dry-mate connectors and overmolded cables

SeaKing Flange Connector Receptacles feature a removable spoked body, indexable flange, and keyway-assisted mating and polarization

Well-Master® high temperature Micro-D connectors
Single- and multi-pin High Temperature/High Pressure (HTHP) Glass sealed penetrators and feedthroughs

Ultra harsh environment overmolded assemblies with transparent test material
10K PSI open-face fiber optic I/O connector assembly
Straight, 45° and 90° single-ended PBOF assemblies
Turnkey point-to-point oil-filled assemblies with swivel fittings and oil fill ports
Turnkey overmolded cable assemblies with polyurethane mold material

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VG QUALIFIED AND GLENAIR SIGNATURE
RUGGED INDUSTRIAL POWER CONNECTORS

power • signal • hazardous zone • military

Super ITS™
High-Performance, Reverse-Bayonet Connectors for Harsh-Environment, High-Speed, Nuclear, Military Ground Vehicle, and Geo-Marine Applications

SuperSeal®
VG QUALIFIED AND GLENAIR SIGNATURE
RUGGED INDUSTRIAL POWER CONNECTORS

Industrial-Strength Interconnect Solutions
Harsh-Environment, High-Speed, High-Current / High-Power Connectors for Nuclear, Rail, and Industry

PowerLoad Series
PowerLoad aircraft power distribution connectors for backup and integrated drive generator and VTOL electrical motor propulsion applications

MIL-DTL-5015 Type Circular Heavy-Duty Power and Signal Connectors

Super ITS™ High-Performance Reverse Bayonet
ITS-Ex Hazardous Zone Connectors
Series 928 HMI Lighting

Higher temperature and ampacity rating with rigid insert and mechanical contact retention
IECEx/ATEX qualified explosive zone connectors for Group IIIC, Temperature Classes T6 and T5, Zones 1 and 2
Rugged bayonet-lock plugs and receptacles for ballast and head connections

Super ITS-RG
Series 901
Series 500
Series IGE
Super ITS bayonet with wing locks

Series ITZ triple-start coupling

Series IT high-temperature ceramic insert

Series ITS-RG RadGrip

Super ITS™
High-Performance, Reverse-Bayonet Connectors for Harsh-Environment, High-Speed, Nuclear, Military Ground Vehicle, and Geo-Marine Applications

SuperSeal®
VG QUALIFIED AND GLENAIR SIGNATURE
RUGGED INDUSTRIAL POWER CONNECTORS

Industrial-Strength Interconnect Solutions
Harsh-Environment, High-Speed, High-Current / High-Power Connectors for Nuclear, Rail, and Industry

PowerLoad Series
PowerLoad aircraft power distribution connectors for backup and integrated drive generator and VTOL electrical motor propulsion applications

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Rugged bayonet-lock plugs and receptacles for ballast and head connections

Super ITS-RG
Series 901
Series 500
Series IGE
Super ITS bayonet with wing locks

Series ITZ triple-start coupling

Series IT high-temperature ceramic insert

Series ITS-RG RadGrip
QPL AND COMMERCIAL RECTANGULAR CONNECTORS

AlphaLink™ - HD Stacker™ - Nano (32139)
Micro-D (83513) - D-sub (24308)
VersaLink - Series 79/791/792 - GMMD

HIGH-DENSITY MISSION-CRITICAL BOARD-TO-BOARD STACKING CONNECTOR SERIES

- Solder-free press-fit (compliant pin) board mounting
- 0.0625" pitch spacing: highest available density
- Polarized shells and keyed guide pin hardware prevent mis-mating
- Controlled signal integrity for differential applications (test reports available)
- High-density .0625" pitch "Chevron" layouts
- PCIe 3.0 capable
- Performance up to 10.5 Gbps
- Polarized insulator and hardware options
- Solder free “eye of the needle” compliant tail

SERIES 79/791/792 MICRO-CRIMP HIGH-DENSITY CRIMP CONTACT MICRO RECTANGULAR

- Crimp-terminated cable and panel-mount connectors
- Right angle panel-mount connector with auxiliary sealing
- Right angle PCB panel-mount with hybrid signal/coax contacts
- Series 791 scoop-proof / sealed panel-mount with grounding fingers
- Series 792 high-speed El Ochito configurations

SERIES 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
- Wall-Master™ 260° high-temperature downhole
- Micro EdgeBoard connectors and locking Micro-Strips

MIL-DTL-83513 NANO MINIATURE

- Dual row nano with flying leads
- Right-angle and straight-mount PCB connectors
- Nanominiature dual-row back-to-back jumpers
- Series 89 Nanominiature Sav-Con® connector saver

HIGH-SPEED I/O AND BOARD LEVEL RECTANGULARS

- VersaLink™ differential twinax connectors
- GMMD Modular Micro-D
- High-Speed Micro-D
- AlphaLink® spring pin connectors
**LIGHTWEIGHT**

**MICRO MINIATURE CIRCULAR CONNECTORS**

save weight · save space · optimize power · enhance signal performance

---

**SERIES 80 MIGHTY MOUSE MICRO MINIATURE**

- Series 800 UN thread
- Series 801 double start
- Series 802 AquaMouse
- Series 803 bayonet
- Series 804 push-pull
- Series 805 triple-start
- Series 811 high-density TwistPin
- Mighty Mouse SuperSeal® Micro-USB

**NANOMINIATURE SERIES 88 SUPERFLY™, SUPERFLY DATALINK, AND TWISTPIN NANO CIRCULARS**

- Push-pull quick-disconnect Series 88 Superfly
- 90° and 180° cobras Series 88 Superfly
- High-speed 10GbE Superfly Datalink
- Nano Circular TwistPin IW MIL-DTL-32139

**TACTICAL DATA COMMS**

- Snap-lock, trigger release Mighty Mouse SuperSeal®
- Mil-Spec and HiPer-55116 radio connectors
- CB Series audio connectors
- Mighty Mouse USB Flash drive
- Mighty Mouse Cobra

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

- Overmolded point-to-point cables
- Coiled-cord solutions for radio / audio applications
- Multibranch harnesses and cable assemblies

---

**SAVE SIGNIFICANT SIZE AND WEIGHT WITH SERIES 806 VERSUS D38999**

- High-density environmental crimp-contact series
- High-speed 10Gbps Ethernet connectors and jumpers
- High-density micro miniature fiber optic connectors and cables

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RUGGEDIZED HIGH-SPEED DATALINK CONNECTORS

contacts · connectors · cables · jumpers

SUPERSEAL™ IP67 OPEN-FACE RUGGEDIZED FIELD RJ45 SOLUTIONS

- MIL-DTL-38999 Sr. III type SuperSeal™ RJ45
- Series 80 Mighty Mouse SuperSeal™ RJ45
- Series IPT 26482 type SuperSeal™ RJ45
- Series ITS 5015 type SuperSeal™ RJ45
- MIL-DTL-28840 type SuperSeal™ RJ45

SUPERSEAL™ IP67 OPEN-FACE RUGGEDIZED FIELD USB 2.0 AND 3.0 SOLUTIONS

- MIL-DTL-38999 Sr. III type SuperSeal™ USB
- Series 80 Mighty Mouse SuperSeal™ USB
- Series IPT 26482 type SuperSeal™ USB
- Series ITS 5015 type SuperSeal™ USB
- MIL-DTL-28840 type SuperSeal™ USB

RF / HIGH-SPEED DATALINK CONTACTS

- Size #8 differential twinax contacts
- Size #8 quadrax contacts
- Size #8 spring-loaded BME microwave contacts
- Size #12 SMPM type spring-loaded coaxial
- G-LinkRF SMA contact adapter

THE OCTAXIAL SIZE #8 CONTACT FOR GbE/10GbE ETHERNET, USB 3.0, HDMI, AND MORE

- El Ochito: The high-speed octaxial contact with patented data pair isolation
- Discrete contacts for MIL-38999 Series III, Series 806 Mil-Aero, SuperNine®, ARINC 600, and Series 79 for both #24 and #26 gauge cable
- Turnkey jumpers with Cat 6A #24 or #26 gauge flexible aerospace cable
- Series 79 right angle PCB connector with El Ochito white (Ethernet), blue (USB 3.0), and red (100 Ohm HDMI, DVI, SATA, and PCI)

GLENAIR SIGNATURE HIGH-SPEED CONNECTOR SERIES

- Octabyte ruggedized Ethernet Cat7A
- VersaLink micro miniature differential twinax
- High-Speed Micro-D TwistPin contact 10 GbE/sec (example insert with four high-speed signal pairs)
- GMMD modular high-speed Micro-D RF / 10GbE connector
- Speed Master™ modular 10G+ Ethernet (shown in SuperNine® packaging)
FLIGHT-GRADE
RF, MICROWAVE, AND mmWAVE INTERCONNECTS

G-LINK RF

Glenair multipin aerospace-grade connectors are optimized for use with 26.5 GHz G-Link RF contacts with integral female SMA adapter for easy attachment of SMA adapter and cable directly to the contact.

GLENAIR SIGNATURE MULTI-PIN CONNECTORS FOR RF / MICROWAVE APPLICATIONS

50 AND 75 OHM COAX CONTACTS FOR USE IN MULTIPIN AEROSPACE-GRADE CONNECTORS

50 OHM LOW-LOSS COAX CABLES

50 OHM COAX JUMPER ASSEMBLIES WITH LOW-LOSS CABLE AND PRECISION-GRADE CONNECTORS

RF CONNECTOR ADAPTERS AND PROTECTIVE COVERS, PRECISION-GRADE
QPL AND COMMERCIAL

GLASS-SEAL AND ENCAPSULANT HERMETICS

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

SERIES 806 MICRO MINIATURE HERMETICS

Glass-sealed and lightweight CODE RED power, signal, and high-speed

CODE RED® HERMETIC CONNECTORS

Glass-sealed and lightweight connectors designed for mission-critical applications.

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
MT ribbon fiber optic hermetic
Hybrid coax/signal hermetic

FIBER OPTIC HERMETICS

Hybrid coax/signal hermetic
QuadraX hermetic with special weld-mount flange

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

OTHER CIRCULAR GLASS-SEALED HERMETIC SERIES

MIL-DTL-26482
MIL-DTL-83723
MIL-DTL-38999 (QPL)
MIL-DTL-5015
Series 80 Mighty Mouse
SERIES 240

EMI/EMP FILTER CONNECTORS

EMI ceramic planar array filter connectors • EMP TVS diode solutions

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.

EMU DIODE-LEVEL FILTER CONNECTORS

Series 806 Mil-Aero Filtered Solder Cup or PC tail, Jam-Nut Receptacle
Series 806 Mil-Aero Filtered Solder Cup or PC tail, Threaded Standoff
Series 805 EMI Filtered triple-start stub ACME Mighty Mouse, micro miniature
Series 804 EMI Filtered Mighty Mouse push-pull with custom flange

EMP TRANSIENT VOLTAGE SUPPRESSION DIODE-EQUIPPED CONNECTORS

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

EMI/EMP 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 sidewall ceramic array packaging
MIL-DTL-38999 type filter connector with hybrid analog signal and HF contacts
Series 977 PowerTrip™ high-density EMI filtered power connector
MIL-DTL-38999 SuperNine filtered cable plug adapter
SuperSeal™ RJ45 Ethernet connector with EMI filtering

MICRO MINIATURE EMI FILTER CONNECTORS

Glenair's Micro Miniature EMI Filter Connectors

SERIES 806 Mil-Aero Filtered Solder Cup or PC tail, Jam-Nut Receptacle
Series 806 Mil-Aero Filtered Solder Cup or PC tail, Threaded Standoff
Series 805 EMI Filtered triple-start stub ACME Mighty Mouse, micro miniature
Series 804 EMI Filtered Mighty Mouse push-pull with custom flange

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
QPL AND COMMERCIAL

CONNECTOR BACKSHELLS AND ACCESSORIES

environmental sealing · wire management · strain relief · EMC shield termination

SWING-ARM VERSATILITY: FROM CABLE STRAIN RELIEF TO EMI/RFI SHIELD TERMINATION

THREE STYLES OF SWING-ARM STRAIN RELIEF CLAMPS

- Style A - standard mouth, rigid saddle bars
- Style B - wide mouth (for larger cable diameters), rigid saddle bars
- Style C - Swing-Arm FLEX - no saddle bars, self-centering round cable strain relief

SWING-ARM WITH DROP-IN FOLLOWER FOR OVERALL OR INDIVIDUAL WIRE SHIELDING

Two drop-in follower designs, solid and slotted are available for all Swing-Arm styles (A, B, and C).

SWING-ARM AND SWING-ARM FLEX WITH OPTIONAL INTEGRATED SHIELD SOCK

For fast and reliable EMI/RFI shield termination of individual wire and overall cable shielding.

LIGHTWEIGHT 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

M24308 D-SUB SOLUTIONS: HIGH PERFORMANCE, RUGGEDIZED D-SUBMINIATURE PRODUCTS

- Split-shell D-subminiature composite backshell
- Split-shell 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
- Leonardo’s ProSeal spring-action protective cover
- Space-grade Qwik Clamp backshell
- Ultra low-profile backshell
- BacNav OFS™ repositionable EMI/RFI backshell
METALLIC AND NON-METALLIC
BRAIDED SHIELDING

EMI screening • weight reduction • abrasion protection • spot repair

The most innovative line of metallic, monofilament non-metallic, and microfilament composites and stainless steel braiding solutions for environmental, mechanical, and EMC shielding in the world. From high-temperature fiberglass tubular shielding for engine applications to lightweight EMI/RFI braided shielding for electrical wire interconnect grounding applications, Glenair offers the industry’s most versatile range of solutions including innovative ArmorLite® CF corrosion-free metallic micro braid.

FLEXIBLE, LIGHTWEIGHT WRAPAROUND EMI / RFI SHIELDING AND ABRASION PROTECTION

MasterWrap™ (Nomex®) for mechanical abrasion protection of E/W wire bundle harnessing

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

ARMORLITE™ MESH TAPE

For spot EMI/RFI shielding coverage and reinforcement of cable interstices

ARMORLITE™ AND METALLIC BRAID GROUND STRAPS

Lightweight ArmorLite™ microfilament ground straps

Heavy-duty metallic braid ground straps

MIL-DTL-24749 Type IV Qualified navy ground straps

INDUSTRY-STANDARD TUBULAR FABRIC AND METAL BRAID

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

Wide range of colored Nomex® for abrasion protection and wire identification

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

HOT AND COLD SHRINK BOOTS AND TUBING FOR RUGGED ENVIRONMENTAL APPLICATIONS

SELECTED ENVIRONMENTAL SHRINK BOOT COLOR OPTIONS

SHRINK BOOT ADAPTERS SELECTION GUIDE

PIGGYBACK SHRINK BOOT ADAPTERS

Three sizes of available shrink splices
Wired and unwired AS83319/1 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
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
- AeroLite 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 BP 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

**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

**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

**CRIMP TOOLS**

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

**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

**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

- The only banding tool with a built-in calibration counter
- Bands and tools optimized for size and weight reduction across the complete range of connector, backshell, and cable form factors
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 NAVSEA and the Defense Logistic Agency of the US government. These certification exercises are multi-year activities that test every aspect of an interconnect component’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 Terminals and AS39029 Electrical Contacts

Glenair’s commitment to quality:

- 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
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