

MISSION-CRITICAL  
INTERCONNECT  
SOLUTIONS



*Glenair*  
SIGNATURE SERIES

# Mission-Driven Interconnect Designs

For Ground, Sea, Air, and Space Applications

JANUARY 2022

TURNKEY OPTICAL AND ELECTRICAL

# INTERCONNECT CABLE ASSEMBLIES AND HARNESSSES



Fast-turnaround Micro-D ESA and NASA IPC-certified wire harness assembly @ Glenair Space Systems, Salem

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



SPACE-GRADE WIRE HARNESS ASSEMBLIES

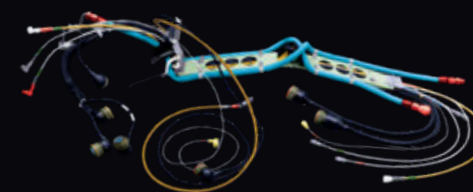


EMI/RFI shielded multibranch Micro-D connector assembly with Glenair Series 23 SuperNine™ panel mount I/O connector



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

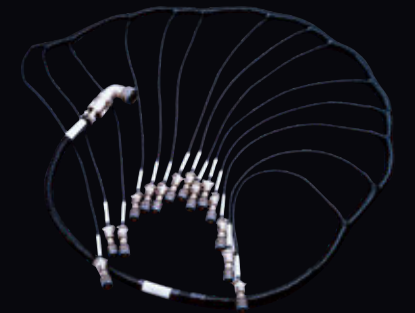
COMPLEX MULTIBRANCH AND OVERMOLDED CABLE ASSEMBLIES



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

TURNKEY FIBER OPTIC CABLE ASSEMBLIES



Environmental overmolded fiber optic cable assembly

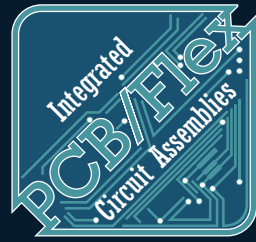


Multi-way inside-the-box D38999-to-ST assembly



GFOCA (IAW M83526) environmental cable assembly

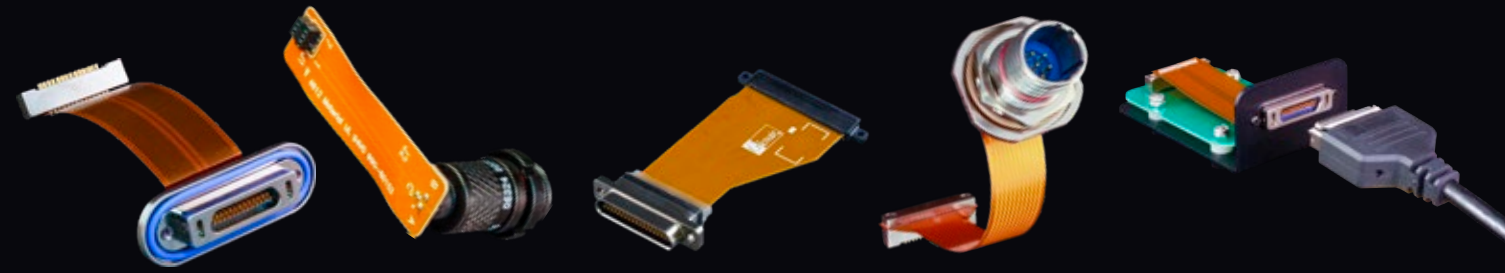
# TURNKEY · CONNECTORIZED INTEGRATED PCB/ FLEX ASSEMBLIES



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

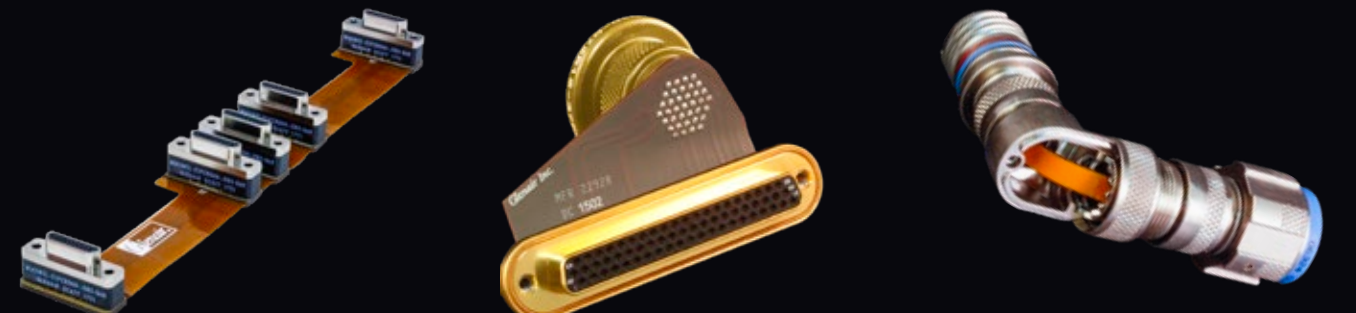


Micro-D subminiature multibranch flex assembly. Both Glenair in the US and in the UK specialized in complex Micro and Nano flex assembly work.

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

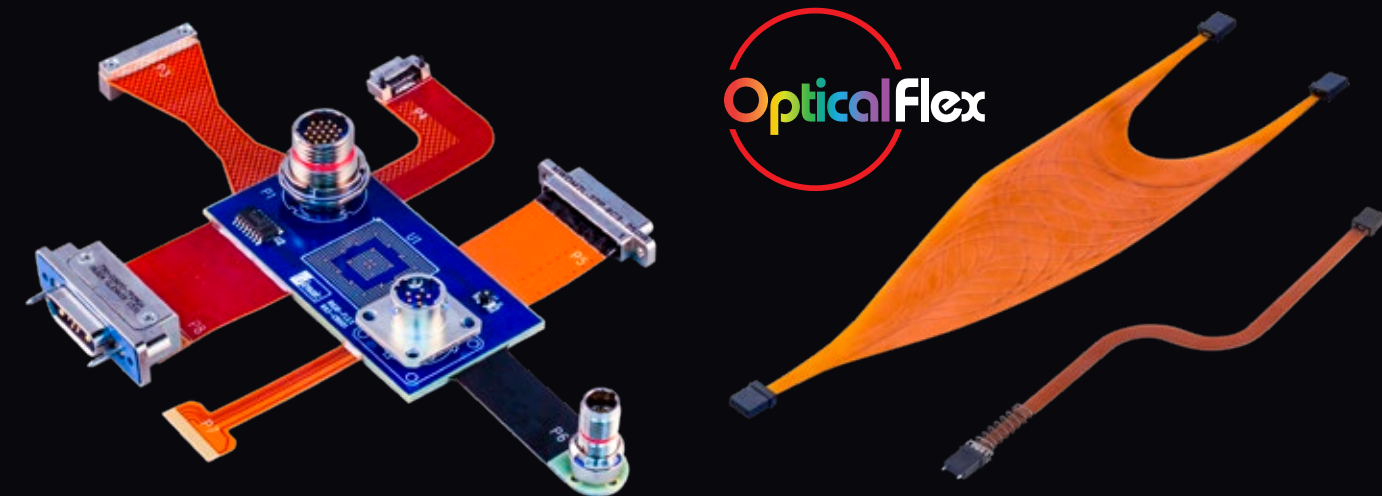
## SPECIAL-PURPOSE FLEX AND RIGID-FLEX DESIGNS



Space-grade Micro-D flex assembly with NASA EEE-INST-002 screening

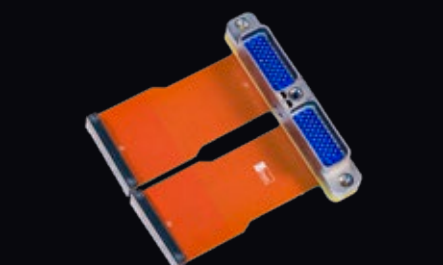
Space-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper

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



Multibranch demo flex assembly highlighting the broad range of catalog board connectors available from Glenair

Rugged High-Density, High Data Rate Optical Flex Circuits for F/O Backplane and Card-to-Card Applications



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

# HIGH-PERFORMANCE WIRE AND CABLE

**SpeedLine**  
High-Speed Data Link Cables

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



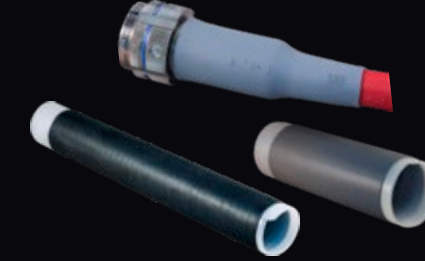
# DURALELECTRIC™

- Service temperature: -65°C to 225°C
- Duraelectric 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

## DURALELECTRIC® HIGH-TEMPERATURE, HALOGEN-FREE, CHEMICALLY RESISTANT JACKETING



Bulk jacketed Duraelectric® cable for harsh-environment power applications



Duraelectric® Autoshrink™ employed in environmental boots and sleeves



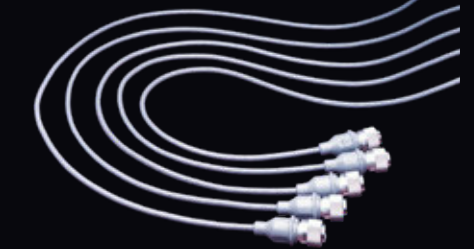
Duraelectric jacketing employed as conduit covering in topside naval applications



Aerospace overmolded cable assembly with rugged Duraelectric® jacketing



Shipboard application with Duraelectric® jacketing and overmolding

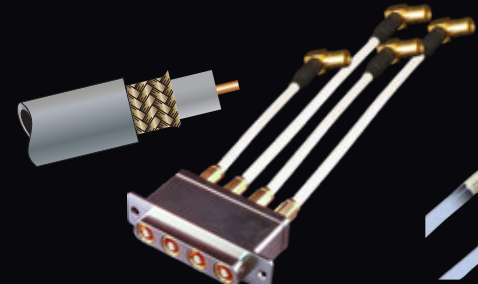


Duraelectric® jacketing employed in environmental commercial application

## HIGH-PERFORMANCE WIRE AND CABLE



M22759 single-ended hookup wire—short runs, no minimum orders



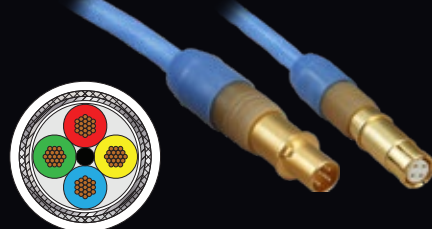
Coaxial cable for Glenair Signature RF contacts and connectors



Single and multimode graded-index fiber optic cable



TurboFlex high-flexibility power cables for Glenair PowerLoad and PowerTrip applications



SpeedLine aerospace-grade quad cable for Glenair Quadrax contacts



SpeedLine aerospace-grade 10G Ethernet cable for El Ochito™

# turboflex®

THE ULTRA FLEXIBLE RUGGED POWER CABLE

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

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



Ultra flexible rope-lay construction TurboFlex® power cable



TurboFlex® with Duraelectric® jacketing ideally suited for equipment grounding

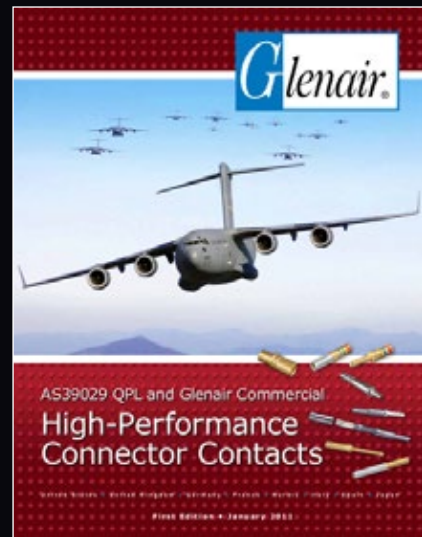
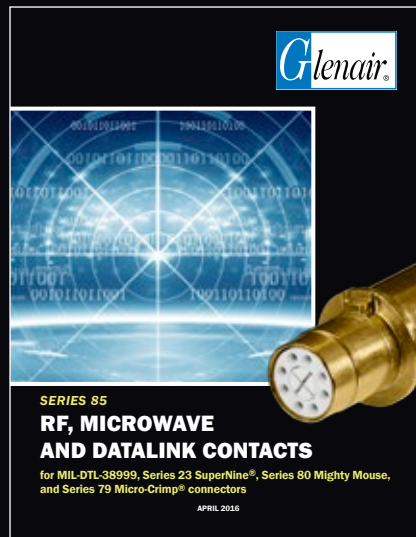


Turboflex® power pylon cable assembly with Duraelectric® jacketing

# QPL AND COMMERCIAL

# CONTACT TECHNOLOGY

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



## AS39029 SIGNAL CONTACTS



Standard density signal

High-density signal (up to 1500 cycles)

Extended-duty signal

Printed circuit board signal

Thermocouple signal

## 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

## 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 quadrax contacts

Size #8 El Ochito® octaxial contacts

Octobyte™ Ethernet Cat7A contacts

## 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

Low-resistance TwistPin contacts: Micro, Nano, D-sub, crimp, and factory-terminated

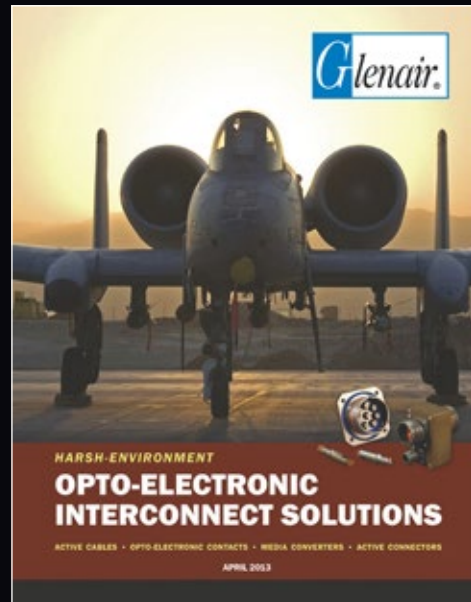
High-pressure (10K psi) gas tube contacts and assemblies

RUGGEDIZED

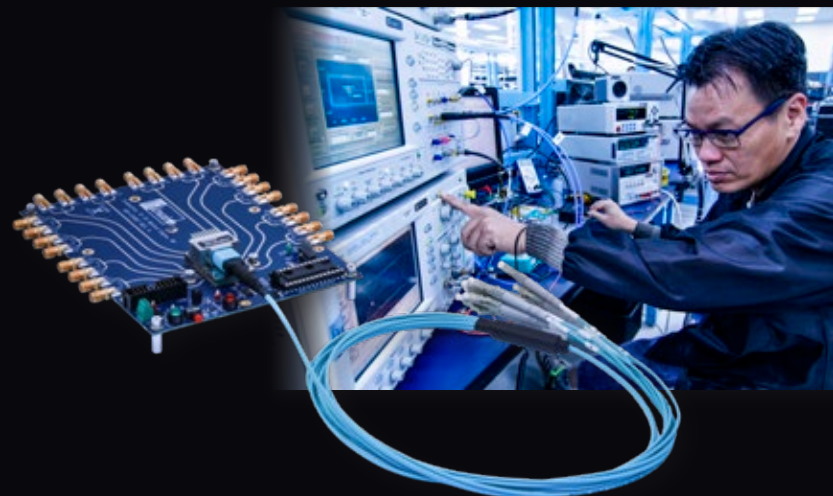
# OPTO-ELECTRONIC INTERCONNECT SOLUTIONS



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...



...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, IFE 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

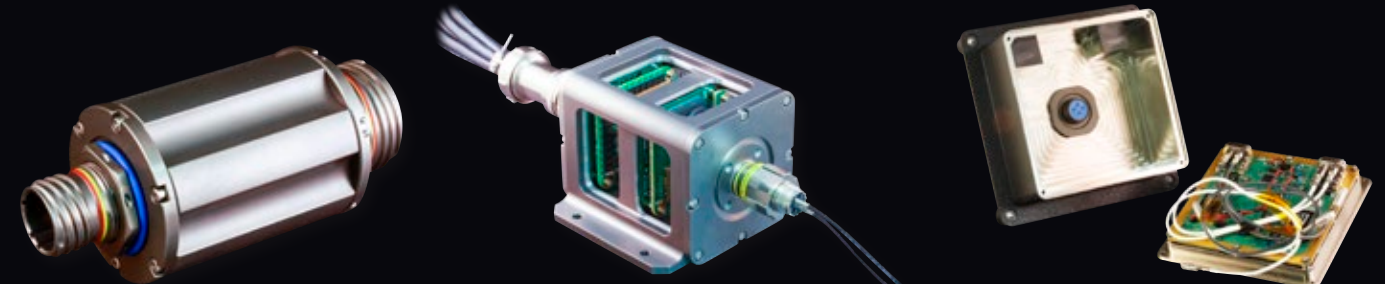


Lightning-strike protected ARINC 801 F/O to D38999-type media converter

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

# FIBER OPTIC INTERCONNECT SYSTEMS



connectors · termini · cables · tools



## GLENNAIR BUTT-JOINT FIBER OPTIC CONNECTION SYSTEMS



MIL-DTL-38999 type fiber optic

Glenair High Density (GHD) fiber optic

Series 806 Mil-Aero micro miniature fiber optic

ARINC 801 type fiber optic

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

NGCON MIL-PRF-64266 fiber optics

MIL-PRF-28876 Fiber Optic

GFOCA M83526 Compliant Fiber Optic

Glenair Front Release (GFR) fiber optic

## 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 reels and field-deployment technologies including man-packable units



### EYE-BEAM® POWER

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

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

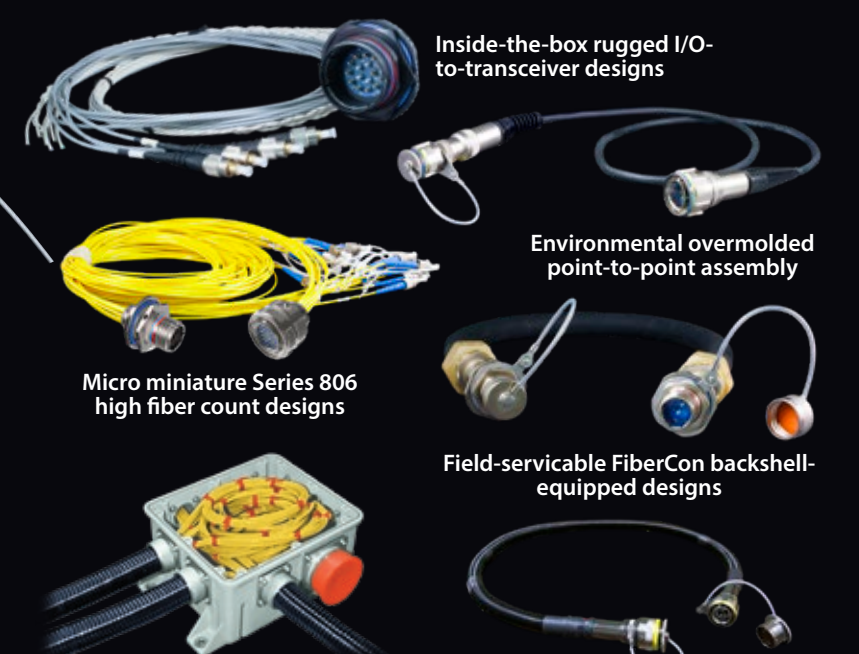
## TOOL KITS AND TRAINING



Fiber Optic termination and maintenance kits

Fiber optic test probes and adapters

## TURNKEY FIBER OPTIC CABLE AND CONDUIT ASSEMBLIES



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

Environmental overmolded point-to-point assembly

Micro miniature Series 806 high fiber count designs

Field-servicable FiberCon backshell-equipped designs

## FIBER OPTIC CONNECTOR BACKSHELLS



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

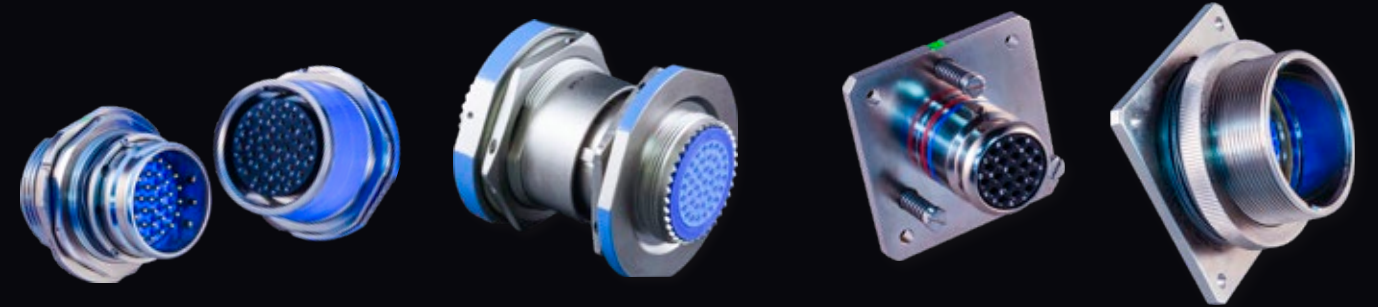
# PROVEN FLIGHT HERITAGE SPACE-GRADE INTERCONNECTS

NASA · ESA · JAXA · Commercial



Complex space-grade cable assemblies (shown: Glenair-made "Golden Umbilical")

## SUPERNINE™ ASSISTED-RELEASE QUICK-DISCONNECT BLIND-MATE CONNECTORS



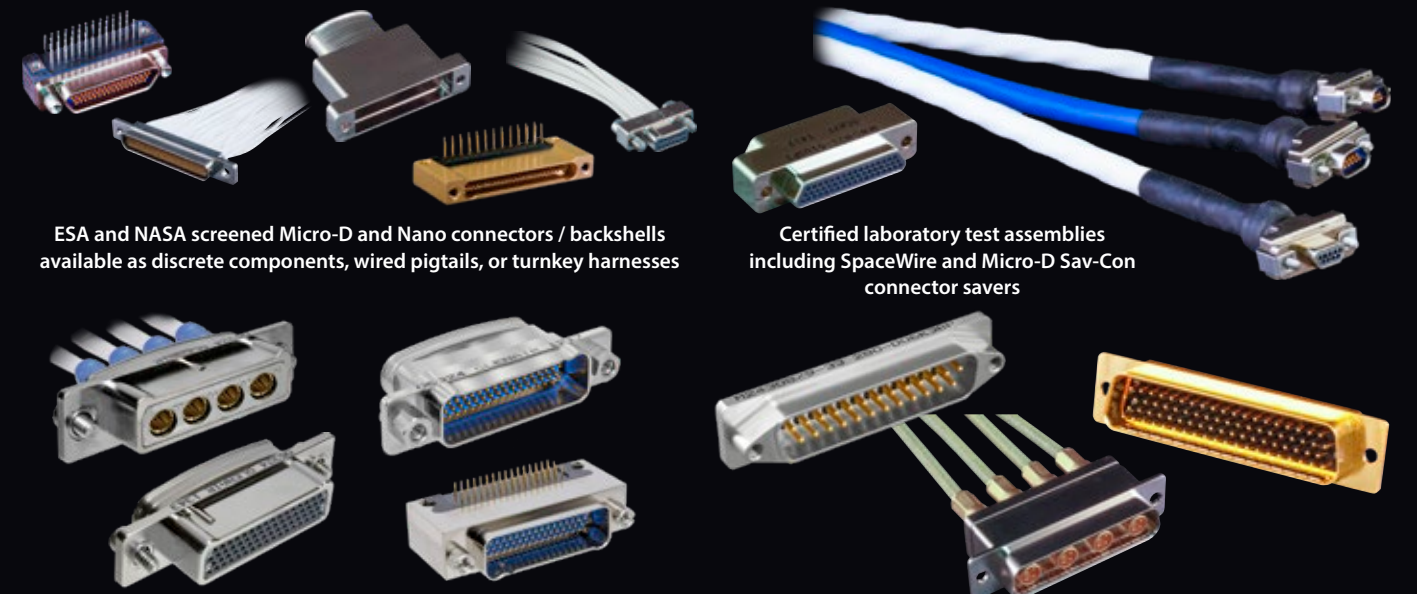
Glenair Series 253 connectors are designed to meet applicable environmental, electrical and mechanical performance characteristics of D38999 Series III. The technology is well suited for use in commercial blind-mate instrumentation panels, satellite deployment, scientific research and development payloads,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

## SERIES 806 SPACE-GRADE MICRO MINIATURE CIRCULARS



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

## SPACE-GRADE 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 K Space-Grade Hermetic, plus HiPer-D (high-performance) space-grade / high-speed environmentals

## FAST-TURNAROUND MICRO-D SPACE-GRADE HARNESS FABRICATION (GSS - SALEM, GERMANY)

Glenair Space Systems, Salem Germany: a fast-turnaround Micro-D cable harness design and fabrication operation—from documentation to harness prototypes, production, precision machining, and clean-room based termination and assembly. ESA / NASA IPC-certified assembly staff. ISO 8 and ISO 6 clean room facilities.



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



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



Medium Duty  
Up to 1,000 lb  
release payload

Light Duty  
Up to 75 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



AVIATION-GRADE

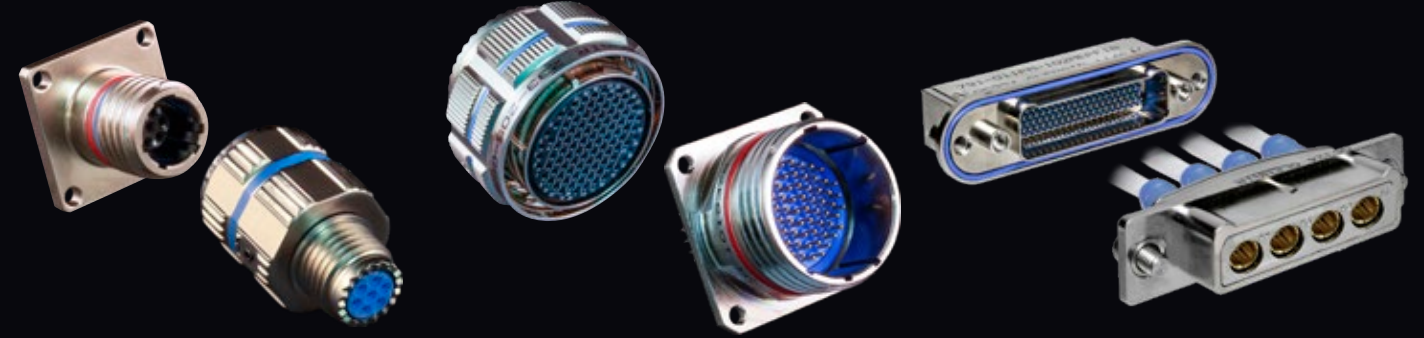
# eVTOL AIR TAXI INTERCONNECT SOLUTIONS

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



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

LIGHTWEIGHT AVIONICS, FLIGHT DECK, ACTUATOR, AND SENSOR 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

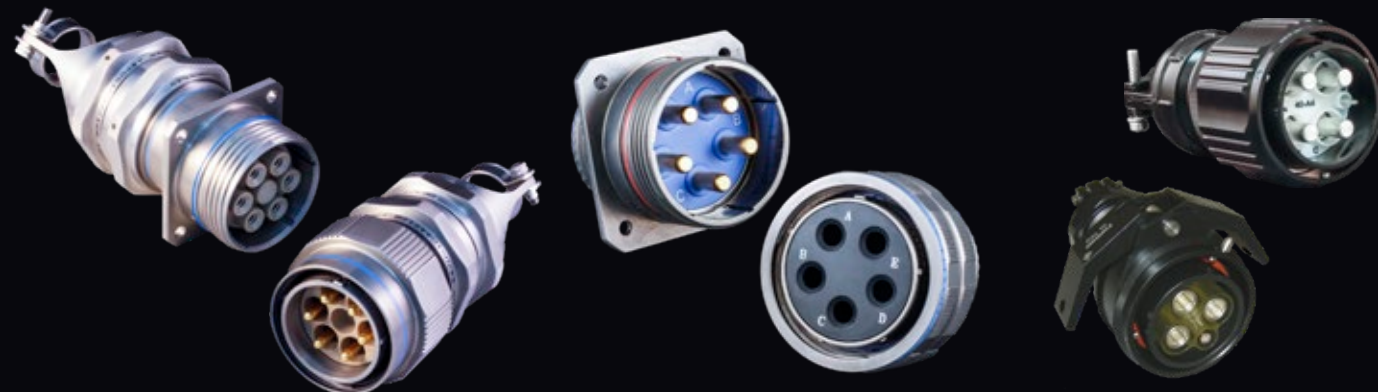


Bulkhead cable feed-thrus with wire management grommets

Autoshrink cold-action tubing and boots

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

ELECTRICAL POWER PROPULSION SYSTEM CONNECTORS, CABLES, AND ACCESSORIES



PowerLoad high-current, high-voltage power distribution connectors

PowerTrip high-density power distribution connectors

Super ITS and ITS Wing-Lock power connectors

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

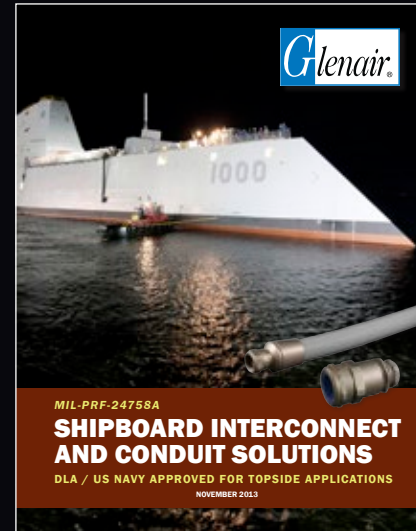
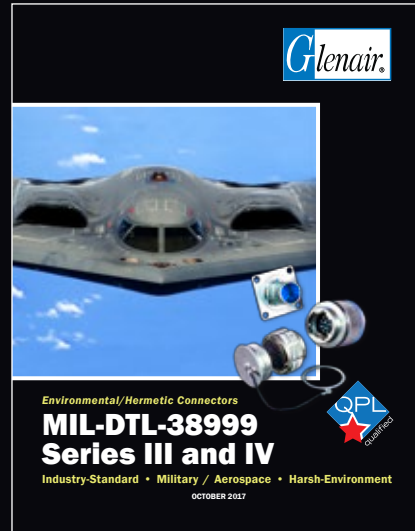
QPL AND SIGNATURE

# MIL-AERO CIRCULAR CONNECTORS

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



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



## LAND / MILITARY VEHICLE INTERCONNECTS



Super ITS - 921 High-Temp, High-Ampacity Reverse-Bayonet 5015 Power

VG95328 Bayonet-Lock IAW MIL-C-26482: Glenair Series IPT and IPT-SE

MIL-DTL-5015 Type Threaded Coupling Series Connectors: IT and ITZ

VG95234 Reverse-Bayonet and VG96929 Single-Pole (Glenair Series IGE)

## AIR / AEROSPACE MIL-DTL-38999 QPL AND GLENAIR SUPERNINE® SERIES CONNECTORS



DLA Qualified D38999 Series III environmental class W, F, T, and G

SuperNine "Better than QPL" high-performance MIL-DTL-38999 III

SuperNine sealed environmental and hermetic PCB connectors

Datalink contact high-speed series

EMI/RFI filtering and TVS diode EMP designs

MIL-DTL-38999 Series IV breach-lock environmental

## AEROSPACE QPL HERMETICS



MIL-DTL-38999 Series I, II, III, and IV hermetic connectors

## NAVSEA QUALIFIED SHIPBOARD CONNECTORS



MIL-DTL-28840 shipboard connectors and accessories

MIL-DTL-28876 shipboard fiber optic

## SPACE-RATED / SATELLITE CIRCULAR CONNECTORS



Sav-Con® connector savers for every MS circular series

Environmental and hermetic bulkhead feed-thrus

Space-grade blind-mate and assisted-separation connectors

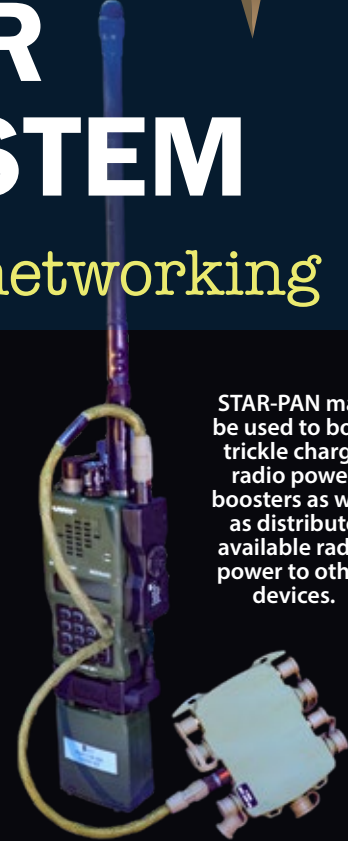
AS81703 Series 3 type high-shock lanyard release

JTAC-TOUGH™

# STAR-PAN™ SOLDIER USB HUB / POWER DISTRIBUTION SYSTEM

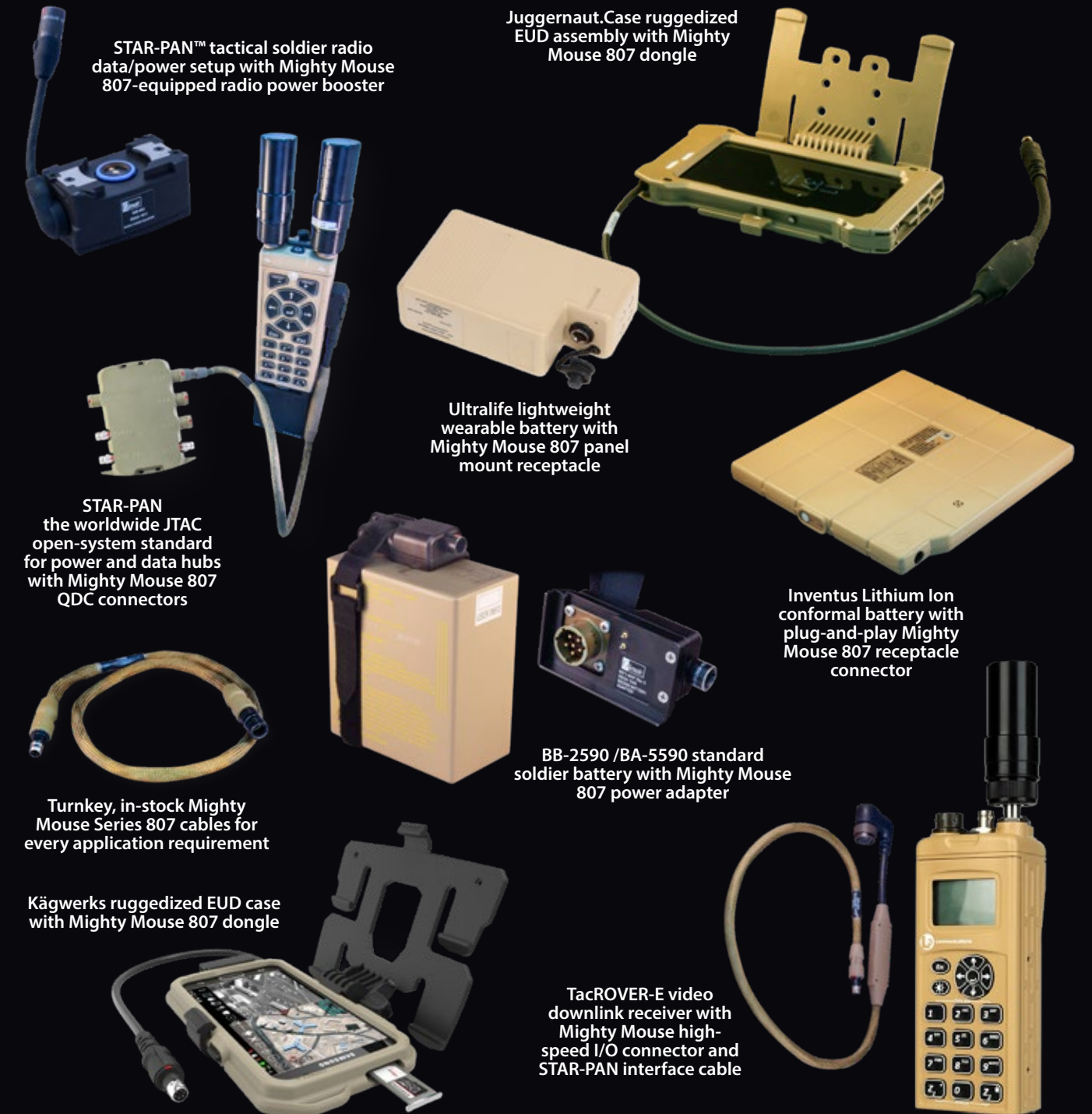
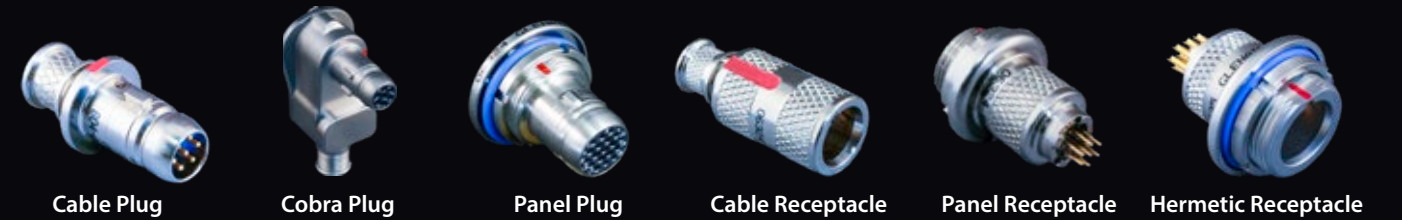


battle-tested C4ISR / DACAS networking



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



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

Ultralife lightweight wearable battery with Mighty Mouse 807 panel mount receptacle

STAR-PAN the worldwide JTAC open-system standard for power and data hubs with Mighty Mouse 807 QDC connectors

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

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

Turnkey, in-stock Mighty Mouse Series 807 cables for every application requirement

Kägwerks ruggedized EUD case with Mighty Mouse 807 dongle

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

## STAR-PAN™ MULTIPOINT 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™ VI JTAC (DACAS) USB Power / Data Hub

FAA-QUALIFIED

# COMMERCIAL AEROSPACE EWIS TECHNOLOGIES

wire interconnect solutions for weight reduction and life-of-system durability



El Ochito high-speed datalink contacts and Micro-Crimp rack-and-panel connectors

## SPECIAL-PURPOSE AEROSPACE CONNECTORS AND CONTACTS



SuperFly Datalink nanominiature high-speed

ThermaRex HT high-temperature connector

SpliceSaver time- and labor-saving wire splice replacement

Dummy Contact Sealing Plugs (DCSP)

## ADVANCED-PERFORMANCE CONNECTOR ACCESSORIES AND WIRE MANAGEMENT SOLUTIONS



ProSeal spring-action protective covers

Swing-Arm and Swing-Arm FLEX strain reliefs

Autoshrink cold-action tubing and boots

TurboFlex ultra-flexible power cables



SERIES 806 MIL-AERO



Series 806 Mil-Aero micro miniature connectors for unpressurized zones

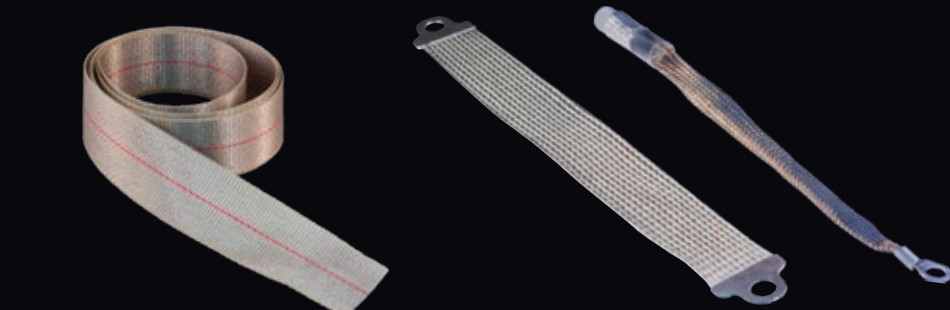
## HARSH ENVIRONMENTAL AEROSPACE POWER AND SIGNAL CONNECTORS



SuperNine "better than QPL" D38999 Sr. III environmental and lightweight hermetic

PowerLoad power distribution connectors

GateLink Pro high-speed data uplink connector



ArmorLite microfilament EMI/RFI shielding

Lightweight, flexible ground straps and HSTs



MasterWrap wraparound shielding now available in Nomex®



Problem-solving circular and rectangular connector accessories



Band-Master ATS® advanced shield termination system



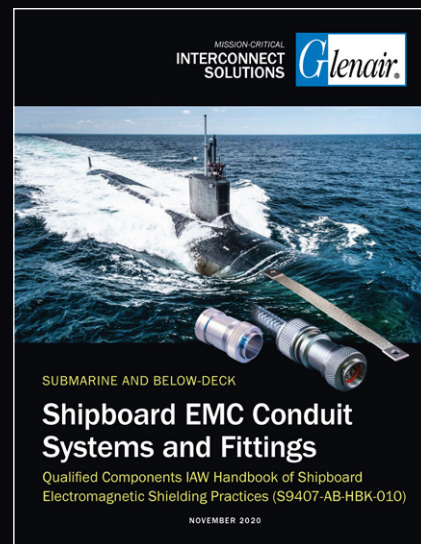
Turnkey, lightweight polymer- and metal-core conduit wire protection systems

NAVSEA-QUALIFIED

# NAVY TOPSIDE AND BELOW-DECK INTERCONNECTS



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



Submarine / below-deck EMC wire protection conduit systems, ground straps, GR2000 / RP2000 series fittings IAW S9407-AB-HBK-010

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



Qualified QPL-29504 pin, socket, and dummy termini

Qualified M28876 environmental fiber optic connectors

Qualified M28876 backshells and accessories

Turnkey environmental and inside-the-box assemblies

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

**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

**Part Number 750-192**  
*Select for low-frequency EMC protection in and around motors and control equipment*  
 Nickel-iron conduit material plus shielding and jacketing



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

## MIL-DTL-28840 SHIPBOARD ELECTRICAL CONNECTORS, ALL SLASH SHEETS, NO GAPS



M28840 connectors and contacts, all qualified slash sheets and classes including Tin Zinc

M28840 backshells and connector accessories, qualified and commercial equivalent

EMI / RFI filters, savers, and other signature M28840 derivatives

M28840/4 and /5 wire protection metal-core conduit system and fittings

## US NAVY QUALIFIED ENVIRONMENTAL WIRE PROTECTION SOLUTIONS



Qualified MIL-PRF-24758A (SH) "Bluejacket" conduit assemblies

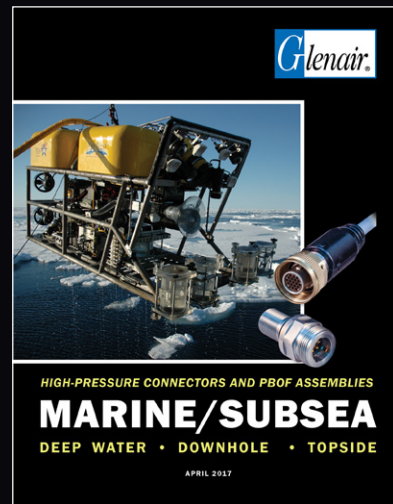
Qualified NAVSEA heavy-wall boots and feed-thru adapters

NAVSEA-qualified sound / power above-deck junction boxes

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

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

Indexable flange

Disengage flange to rotate body for multiple clocking positions

Multiple PBOF backshell indexing points

Accessory thread and overmold features

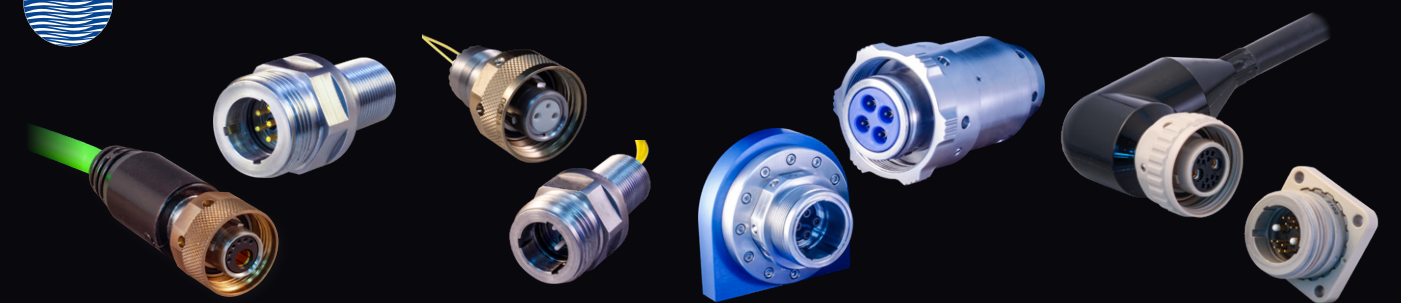
Wrench flats

PBOF assemblies, straight, 45° and 90° systems with fill ports and swivel fittings

Replaceable dual O-rings standard on all CCP, BCR, and FCRs



## DEEP WATER HIGH-PRESSURE 10K PSI / 700 BAR / 7000M CONNECTORS



SeaKing™ 700 10K PSI open-face high-density subsea connectors and cables

SeaKing™ Fiber 10K PSI open-face underwater fiber optics

SeaKing™ Power 1–6.6 kV connectors for primary power junctions

SeaKing™ 700 PEEK cathodic delamination-free glass-filled composite



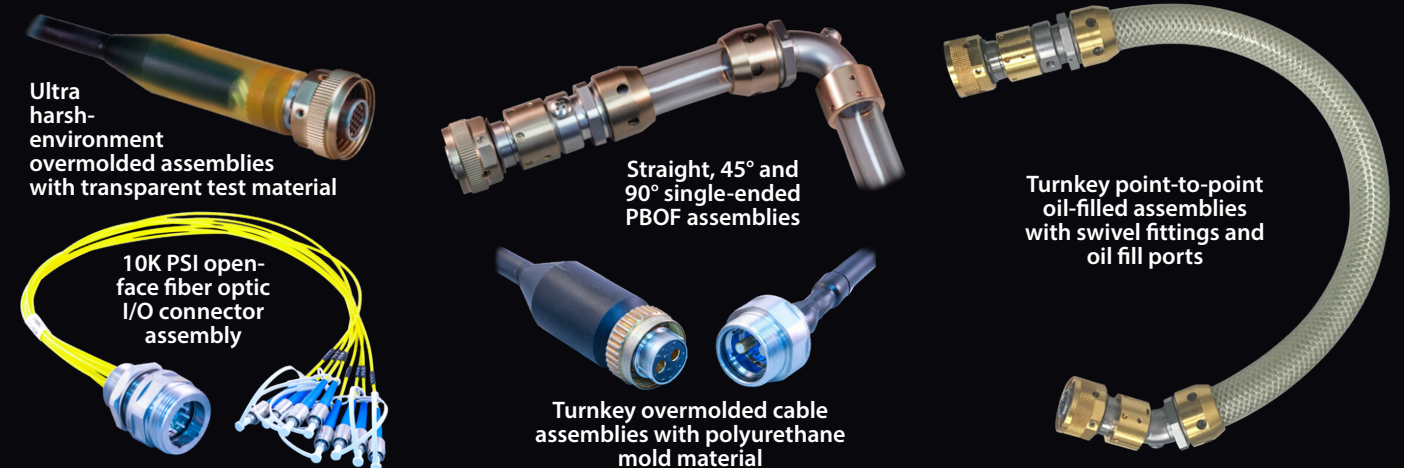
SuperG55™ dry-mate 10K PSI subsea electrical connectors

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 HIGH-PRESSURE UNDERWATER PBOF AND CABLE ASSEMBLIES



Ultra harsh-environment overmolded assemblies with transparent test material

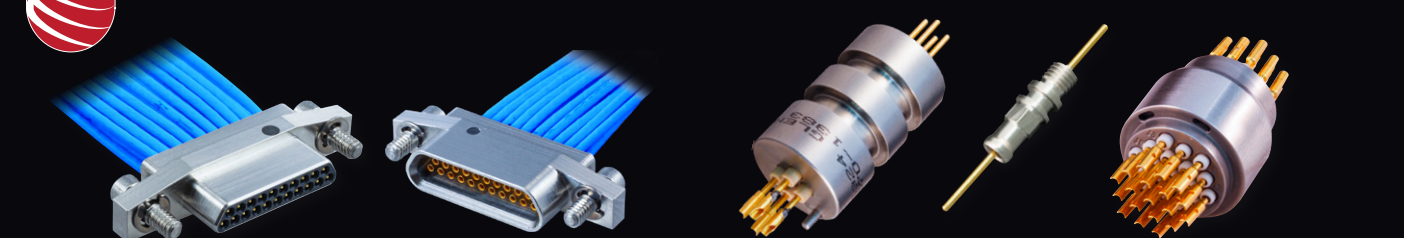
Straight, 45° and 90° single-ended PBOF assemblies

Turnkey point-to-point oil-filled assemblies with swivel fittings and oil fill ports

10K PSI open-face fiber optic I/O connector assembly

Turnkey overmolded cable assemblies with polyurethane mold material

## DOWNHOLE HIGH-TEMPERATURE / HIGH PRESSURE CONNECTORS



Well-Master® high temperature Micro-D connectors

Single- and multi-pin High Temperature/High Pressure (HTHP) Glass sealed penetrators and feedthroughs

VG QUALIFIED AND GLENAIR SIGNATURE

# RUGGED INDUSTRIAL POWER CONNECTORS



power · signal · hazardous zone · military

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**Super ITS™**

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

JULY 2020

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**SERIES 927-072**

**ITS-Ex** IEC IECQ Ex RoHS ITS-Ex

IECEx/ATEX QUALIFIED HAZARDOUS ZONE CONNECTORS

IEC/EN 60079-0 • IEC/EN 60079-1 • IEC/EN 60079-31 • IEC/EN 60079-7 (PANEL MOUNT)

DECEMBER 2017

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**Glenair SIGNATURE SERIES**

**Industrial-Strength Interconnect Solutions**

Harsh-Environment, High-Speed, High-Current / High-Power Connectors for Nuclear, Rail, and Industry

## HIGH-VOLTAGE SINGLE AND MULTIPOLE POWER CONNECTORS



## NUCLEAR-GRADE **NG**



SuperNG (top) and Mighty Mouse NG containment area (Class 1E) • 10CFR50 Appendix B

Series IRT rectangular multipole high-voltage traction motor connectors

UJ Series power joint connector system

Innovative tool-free locking and latching mechanisms

## SUPER ITS™ HIGH-PERFORMANCE REVERSE BAYONET



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

## ITS-Ex HAZARDOUS ZONE CONNECTORS



IECEx / ATEX qualified explosive zone connectors for Group IIC, Temperature Classes T6 and T5, Zones 1 and 2

## SERIES 928 HMI LIGHTING



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

## POWERTRIP™ EXTREME ENVIRONMENT POWER CONNECTOR



The high-density, advanced performance PowerTrip™ is a reduced size and weight solution for demanding interconnect applications. High ampacity, anti-decoupling, and robust backshell accommodation standard.

## POWERLOAD SERIES



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

## MIL-DTL-5015 TYPE CIRCULAR HEAVY-DUTY POWER AND SIGNAL CONNECTORS



Series ITS reverse-bayonet

ITS-MB SeaCrow™ Marine Bronze environmental

Series IT threaded coupling

Series ITZ triple-start coupling

Series ITK high-temperature ceramic insert

Super ITS-RG RadGrip

Series 901 multipole high voltage

Series 500 single-pole high voltage

Series IGE single-pole high power

Series ITS bayonet with wing locks

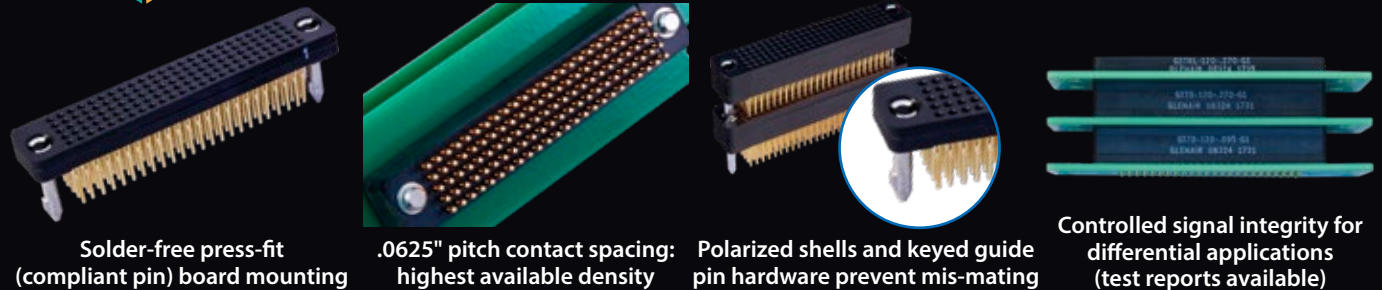
# QPL AND COMMERCIAL RECTANGULAR CONNECTORS



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

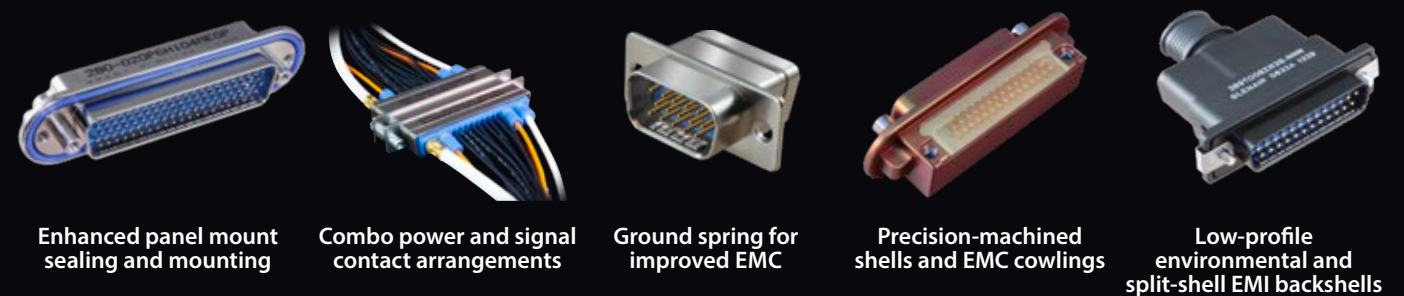


## HD STACKER™ HIGH-DENSITY MISSION-CRITICAL BOARD-TO-BOARD STACKING CONNECTOR SERIES

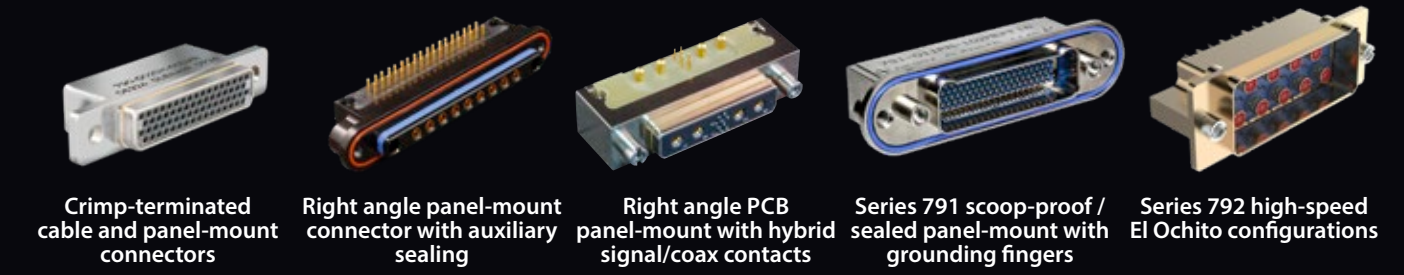


- Solder-free press-fit (compliant pin) board mounting
- .0625" pitch contact spacing: highest available density
- Polarized shells and keyed guide pin hardware prevent mis-mating
- Controlled signal integrity for differential applications (test reports available)
- High-density .0625" pitch "Chevron" layouts
- PCIe 3.0 capable
- Performance up to 10.5 Gbps
- Polarized insulator and hardware options
- Solder free "eye of the needle" compliant tail
- High-temp PPS insulator meets NASA outgassing requirements
- Available wired / flex jumpers
- Available between-board spacers up to 1 inch
- 3 Amp current rating

### SERIES 28 HIPER-D HIGH-PERFORMANCE MIL-DTL-24308 INTERMATEABLE



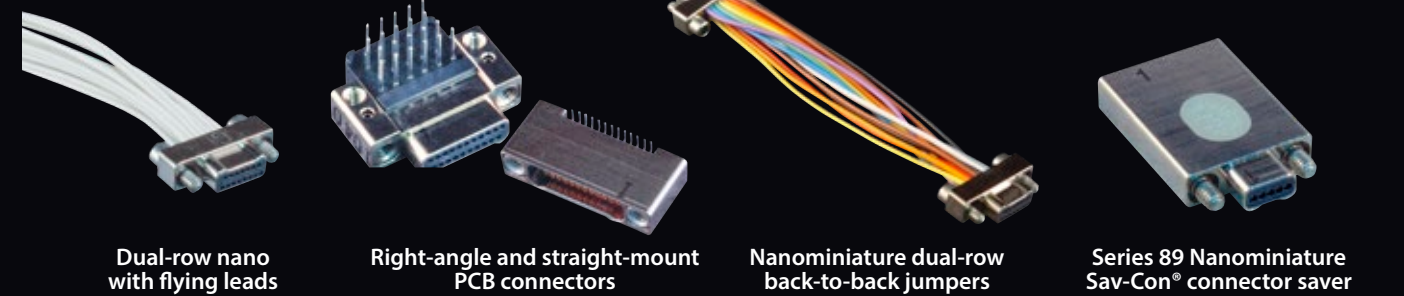
### SERIES 79/791/792 MICRO-CRIMP HIGH-DENSITY CRIMP CONTACT MICRO RECTANGULAR



### MIL-DTL-83513 MICRO-D QPL AND GLENAIR COMMERCIAL EQUIVALENTS



### MIL-DTL-32139 NANOMINIATURE



### HIGH-SPEED I/O AND BOARD LEVEL RECTANGULARS





LIGHTWEIGHT

# MICRO MINIATURE CIRCULAR CONNECTORS



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



SAVE SIGNIFICANT SIZE AND WEIGHT WITH SERIES 806 VERSUS D38999



SERIES 806 MIL-AERO

High-density environmental crimp-contact series

High-speed 10Gb Ethernet connectors and jumpers

High-density micro miniature fiber optic connectors and cables

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 IAW MIL-DTL-32139

TACTICAL DATA COMMS



Snap-lock, trigger release MouseBud™

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

Coil-cord solutions for radio / audio applications

Multibranch harnesses and cable assemblies

RUGGEDIZED

# HIGH-SPEED DATALINK CONNECTORS



contacts · connectors · cables · jumpers

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**SERIES 882 SuperFly® Datalink**  
Harsh-Environment Ultraminiature Connector for High-Speed Applications Including 40 Gigabit Ethernet, HDMI, SuperSpeed USB, DisplayPort, and SATA  
APRIL 2021

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**SERIES 85 RF, MICROWAVE AND DATALINK CONTACTS**  
for MIL-DTL-38999, Series 23 SuperNine®, Series 80 Mighty Mouse, and Series 79 Micro-Crimp® connectors  
APRIL 2016

MISSION CRITICAL INTERCONNECT SOLUTIONS **Glenair**

**Glenair SIGNATURE SERIES High-Speed Interconnect Solutions**  
Rugged Electrical, Optical, and Hybrid Solutions for Mission-Critical Aerospace and Defense Applications

## 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 BMB microwave contacts    Size #12 SMPM type spring-loaded coaxial    G-LinkRF SMA contact adapter

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



Series 882 SuperFly Datalink El Ochito nanominiature    Series 806 Mil-Aero high-speed El Ochito micro miniature    SuperNine MIL-DTL-38999 "Better than QPL" high-speed El Ochito    Series 792 Micro-Crimp precision-machined high-speed El Ochito

## GLENAIR SIGNATURE HIGH-SPEED CONNECTOR SERIES



Octobyte ruggedized Ethernet Cat7A    VersaLink micro miniature differential twinax    High-Speed Micro-D TwistPin contact 10+Gb/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

turnkey assemblies · discrete components



RF



## G-Link<sup>RF</sup>

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.

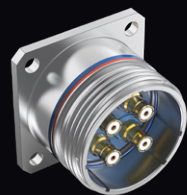
### GLENAIR SIGNATURE MULTI-PIN CONNECTORS FOR RF / MICROWAVE APPLICATIONS



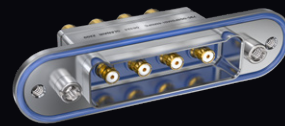
Series 23 SuperNine "better-than-QPL" MIL-DTL-38999 Series III type connector



Series 80 Mighty Mouse reduced size and weight aerospace-grade connector



Series 806 Mil-Aero micro miniature circular with performance IAW D38999



Series 795 RF precision-machined aerospace-grade coax connector

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



Size #16 coaxial contacts



Size #12 coaxial contacts



Size #8 coaxial contacts



Size #8 concentric twinax contacts

### 50 OHM LOW-LOSS COAX CABLES



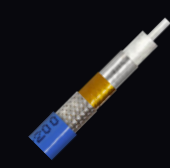
Size 047 26.5 GHz hand-formable tin-soaked braid



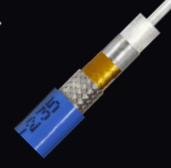
Size 086 40 GHz FEP or ETFE jacket



Size 160 18 and 40 GHz, with FEP or ETFE jacket, Low Phase Change



Size 200 26.5 GHz FEP or ETFE jacket triple shield



Size 235 18 GHz, FEP or ETFE jacket triple shield



Size 300 18 GHz, FEP jacket triple shield



Size 450 10 GHz, FEP jacket triple shield

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



SMA 086 cable, tinned-copper braid DC-26.5 GHz



SMA 141 cable, tinned-copper braid DC-26.5 GHz



N-SMA 141 cable, tinned-copper braid DC-18 GHz



N-N 141 cable, tinned-copper braid DC-18 GHz

### RF CONNECTOR ADAPTERS AND PROTECTIVE COVERS, PRECISION-GRADE



TNC-SMA adapters



N-SMA adapters



SMA-SMA adapters



SMP-SMA adapters



2.92-SMA adapters

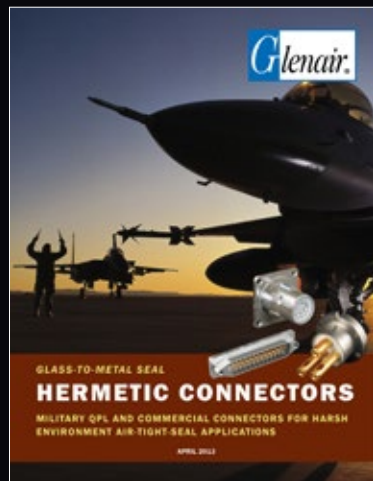


Protective covers for RF connectors

## QPL AND COMMERCIAL

# GLASS-SEAL AND ENCAPSULANT HERMETICS

heavy-duty and lightweight solutions



### SERIES 806 MICRO MINIATURE HERMETICS

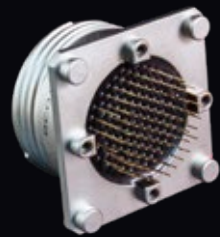


Glass-sealed and lightweight CODE RED power, signal, and high-speed

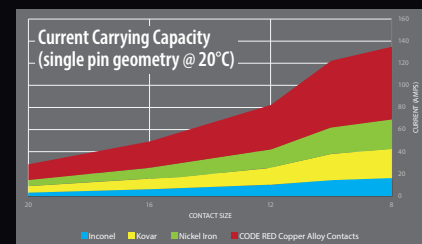
### CODE RED™ LIGHTWEIGHT HERMETIC SEALING



Lightweight hermetic encapsulant sealing solution with better than  $1 \times 10^{-7}$  leak rate performance. Available now for D38999 and Series 806 Mighty Mouse.



Aluminum shell CODE RED hermetic connectors and copper contacts reduce weight and improve electrical performance compared to heavier-duty glass-to-metal seal hermetic solutions



Current carrying capacity of CODE RED copper alloy contacts compared to Inconel, Kovar, and nickel iron contacts.

### 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



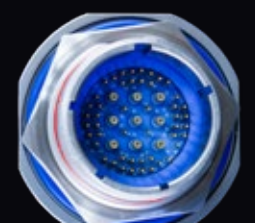
Hybrid coax/signal hermetic



Quadrax hermetic with special weld-mount flange



MT ribbon fiber optic hermetic



Hybrid coax/signal hermetic

### FIBER OPTIC HERMETICS

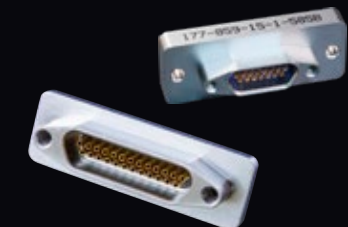
### RECTANGULAR PACKAGE HERMETICS



MIL-DTL-24308 QPL hermetic



Series 79 Micro-Crimp hermetic



MIL-DTL-83513 type Micro-D hermetic



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



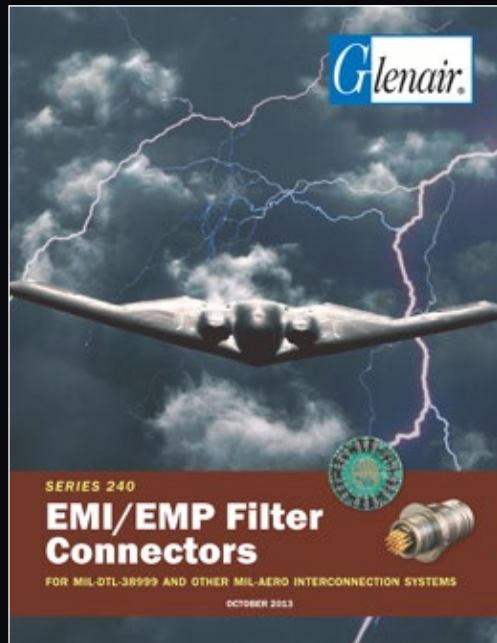
Series 80 Mighty Mouse

# 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

## 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 Jam-Nut, 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 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



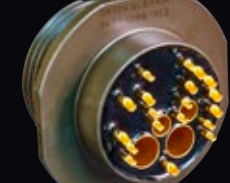
Extended-shell PC-tail cylindrical with threaded standoff



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 RF contacts



Series 970 PowerTrip™ high-density EMI filtered power connector

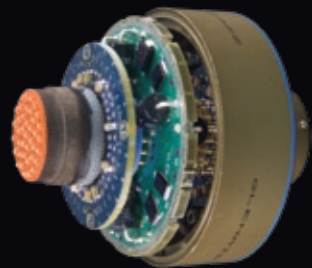


MIL-DTL-38999 SuperNine filtered cable plug adapter



SuperSeal™ RJ45 Ethernet connector with EMI filtering

## 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 FILTER CONNECTORS WITH MIL-STANDARD / GLENAIR RECTANGULAR PACKAGING



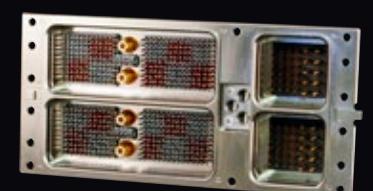
MIL-DTL-83513 type Micro-D filter connector



MIL-DTL-24308 type D-sub filter connector



Series 79 Micro-Crimp filter connector

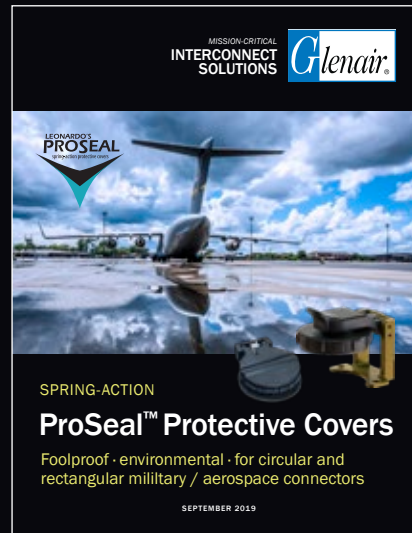


ARINC 600 rack-and-panel filter connector

QPL AND COMMERCIAL

# CONNECTOR BACKSHELLS AND ACCESSORIES

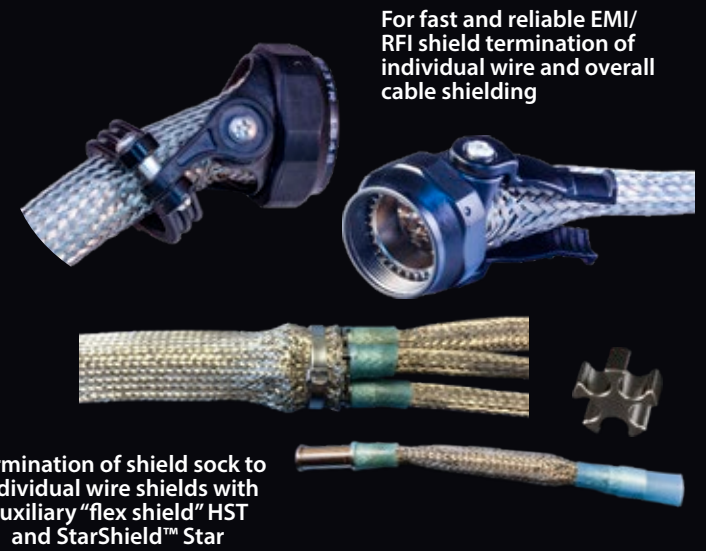
environmental sealing · wire management · strain relief · EMC shield termination



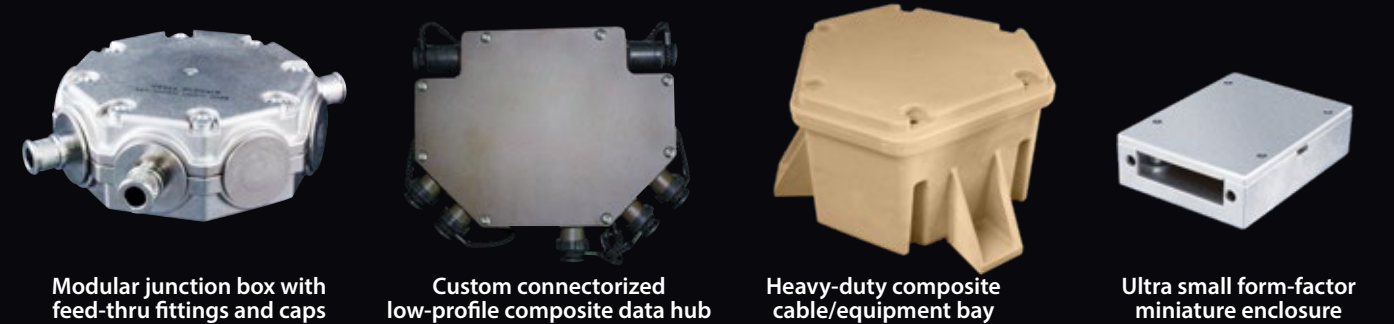
## SWING-ARM WITH DROP-IN FOLLOWER FOR OVERALL OR INDIVIDUAL WIRE SHIELDING



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



## LIGHTWEIGHT COMPOSITE EMI/RFI ENVIRONMENTAL JUNCTION BOXES



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



## BACKSHELL AND CONNECTOR ACCESSORY INNOVATION SHOWCASE



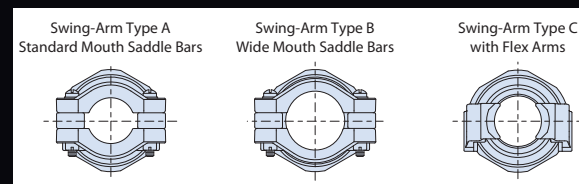
## SWING-ARM VERSATILITY: FROM CABLE STRAIN RELIEF TO EMI/RFI SHIELD TERMINATION



**SWING ARM**  
ARTICULATING THREE-IN-ONE BACKSHELL  
STAINLESS STEEL · ALUMINUM · COMPOSITE

## 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



# METALLIC AND NON-METALLIC BRAIDED SHIELDING

EMI screening · weight reduction ·  
abrasion protection · spot repair



MasterWrap™



# ARMORLITE

# AmberStrand®

## LIGHTWEIGHT ARMORLITE™ (STAINLESS STEEL) AND AMBERSTRAND® (COMPOSITE) 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



ArmorLite™ CF with enhanced  
corrosion resistance and  
temperature tolerance

**BRAIDED WIRE PROTECTION**  
Lightweight Metallic and Non-Metallic Shielding  
for Electrical Wire Interconnect Systems  
EMI/RFI · ABRASION PROTECTION · GROUNDING  
JANUARY 2017

**LIGHTWEIGHT  
ARMORLITE™**  
Microfilament nickel-clad  
expandable stainless steel  
EMI/RFI braided shielding

- Ultra-lightweight EMI/RFI braided shielding for high-temperature applications 400°C to 2500°C
- Microfilament stainless steel 70% lighter than NiCu-A-59569/Q0B575
- Outstanding EMI/RFI shielding and conductivity
- Aerospace environment qualified
- Superior flexibility and "self-healing" resistance 90 to 95% optical coverage 70,000 psi tensile strength
- Best performing metallic braided shielding

**Flexible, lightweight wraparound EMI/RFI shielding and abrasion protection**

MasterWrap™

- Up to 75% weight reduction compared to standard metallic EMI shielding
- Replaces harder-to-install tubular EMI/RFI shielding
- Fast and easy side-entry installation and removal
- Reduces underlining and coverage gaps
- Superior flexibility, durability and reparability
- Temperature tolerant from -65°C to 200°C
- High-frequency EMI shielding performance comparable to standard metallic and lightweight tubular braid
- Outstanding abrasion and mechanical protection
- Chemical-free and fluids compliant
- 500 hour salt spray corrosion resistance
- 50,000 cycle 90°-120° bend life tested
- Outstanding caustic chemical and corrosive fluid resistance

**MATERIAL CONSTRUCTION AND HANDLING PERFORMANCE**

Flexible material eliminates kinking and windowing · Spring members ensure shielding stays tight to wire bundle

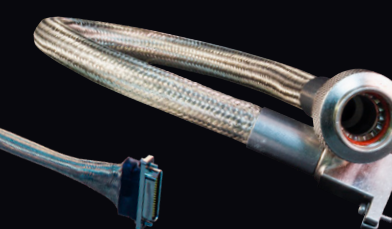
Material design provides uniform surface with limited interference to structures and clamp. Reduces binding and endearing that occur in full metal braid solutions for wire bundle shielding performance

Temperature PEEK composite. Reinforced spring members that ensure up to 95% optical coverage

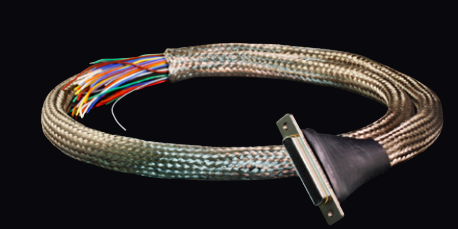
## TURNKEY FACTORY OVERBRAIDING WITH LIGHTWEIGHT AND QQ-B-575B/A-A-59569 BRAID



Turnkey factory-overbraided  
multibranch cable assembly

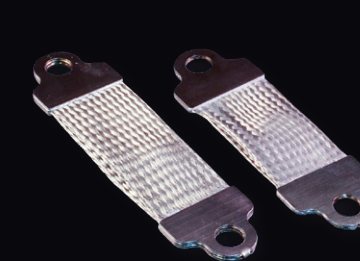


Overbraided conduit assembly,  
ready for customer termination



Factory-overbraided  
pigtail assembly

## 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



Round braid profile  
ground straps



The most innovative line of metallic, monofilament non-metallic, and microfilament composite and stainless steel braiding solutions for environmental, mechanical, and EMC shielding in the world. From high-temperature fiberglass tubular shielding for engine applications to ultra-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

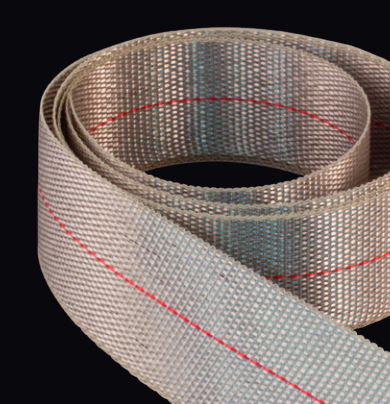


MasterWrap™

MasterWrap™ (Nomex®) for mechanical  
abrasion protection of EWIS wire  
bundle harnessing

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

## ARMORLITE™ MESH TAPE

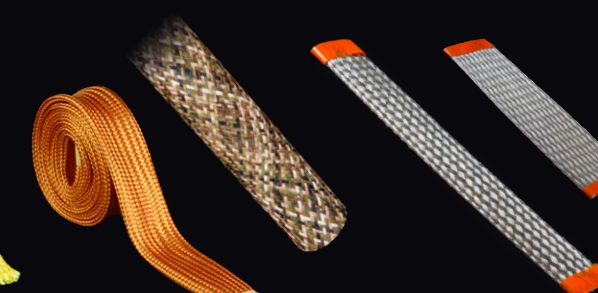


For spot EMI/RFI shielding coverage  
and reinforcement of cable interstices

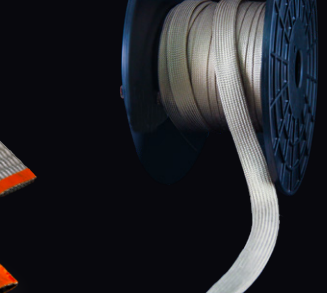
## INDUSTRY-STANDARD TUBULAR FABRIC AND METAL BRAID



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



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



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

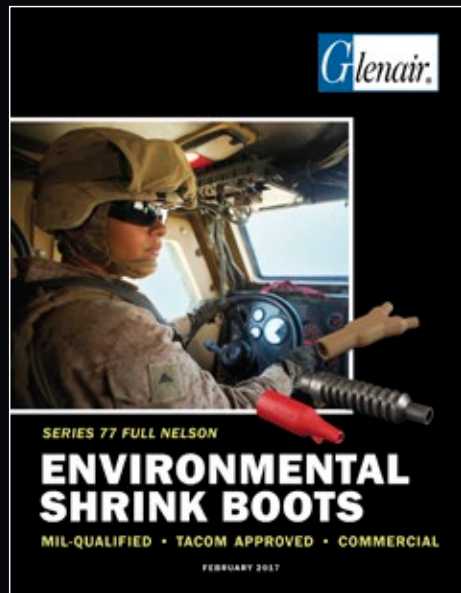
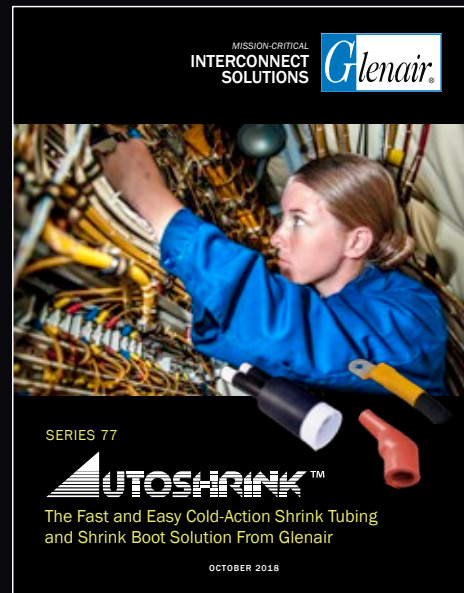


High-temperature  
fiberglass braid  
for engine applications

# ENVIRONMENTAL

# SHRINK BOOTS AND HEAT-SHRINK TERMINATIONS

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



## SPACE-GRADE SHRINK BOOTS



## HOT AND COLD SHRINK BOOTS AND TUBING FOR RUGGED ENVIRONMENTAL APPLICATIONS



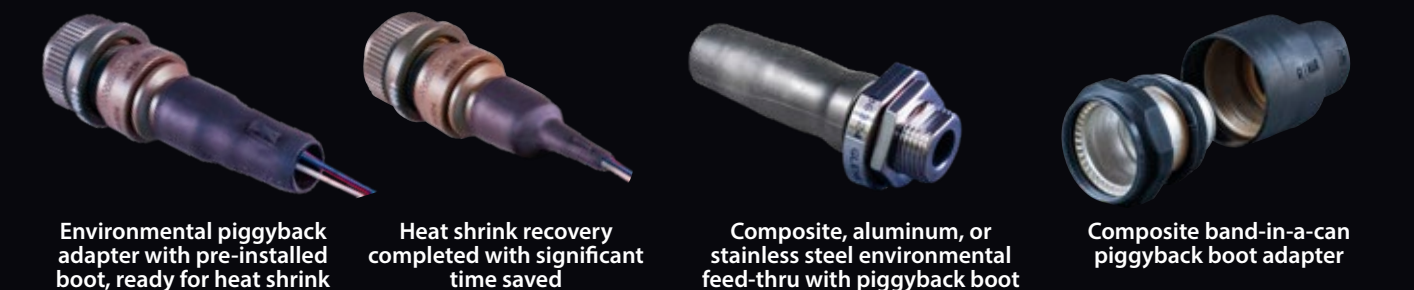
## SELECTED ENVIRONMENTAL SHRINK BOOT COLOR OPTIONS



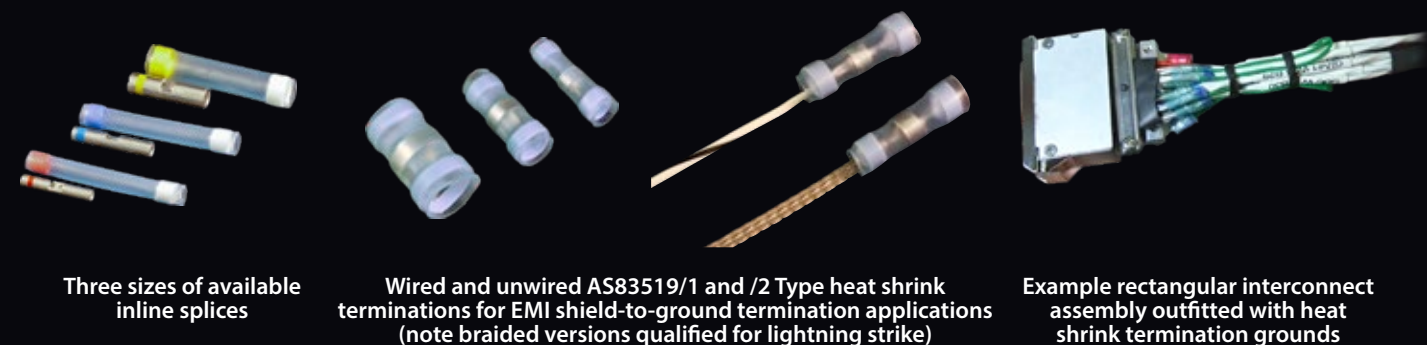
## SHRINK BOOT ADAPTERS SELECTION GUIDE



## PIGGYBACK SHRINK BOOT ADAPTERS



## HEAT SHRINK TERMINATION SLEEVES / SPLICES

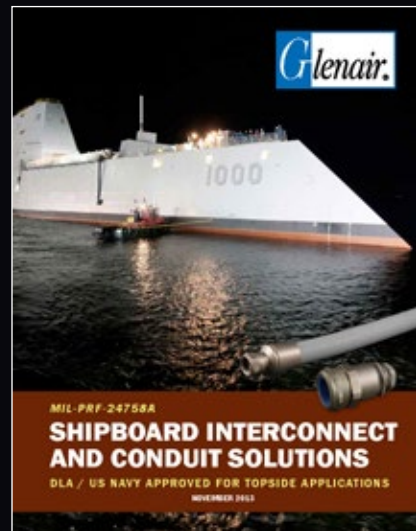




## HARSH-ENVIRONMENT

# METAL- AND POLYMER-CORE CONDUIT SYSTEMS

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



## 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

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



Kynar, PVDF, and G-Flex Siletem 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 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

# INTERCONNECT

# ASSEMBLY TOOLS

banding · grounding · crimping · mounting · termination · testing



**Band-Master ATS®**  
The Advanced Termination System for Interconnect Cable Shielding

High-volume pneumatic tool for bench use  
Easy-to-use manual tools with built-in calibration counter  
3 lengths and 3 widths of EMI braid termination bands

SEPTEMBER 2020

**Interconnect Cable Assembly Tools**  
Band-It® Shield Termination Tools, Connector-to-Backshell Holding Tools, Fiber Optic Termination Kits and More!

**GroundControl Earth Bond / Ground Stud Installation System**  
Fast · Clean · Weld-Free · Corrosion-Resistant

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

## 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-wipe 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

Nano

Micro

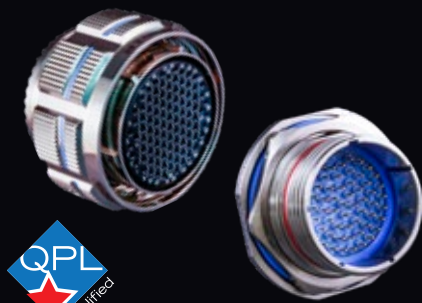
Standard

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



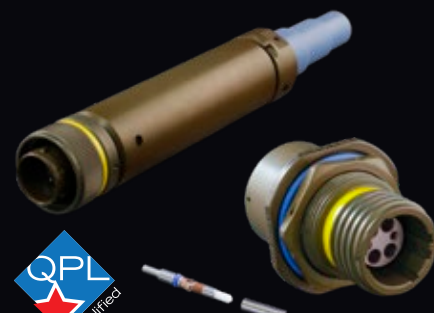
MIL-DTL-28840 Shipboard Connectors and Accessories



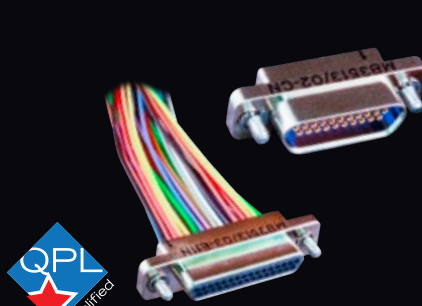
MIL-DTL-38999 Series I, II, III, and IV Hermetic Connectors



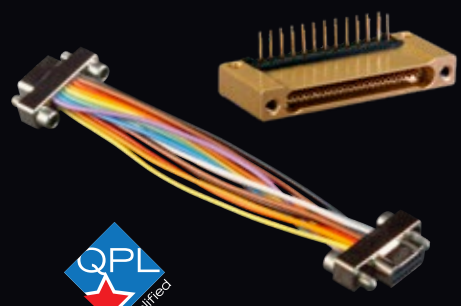
MIL-DTL-24308 Hermetic Connectors



MIL-DTL-28876 Shipboard Fiber Optic



MIL-DTL-83513 Micro-D Connectors and Accessories



MIL-DTL-32139 Nanominiature Connectors and Accessories



MIL-DTL-29504 Fiber Optic Termini and AS39029 Electrical Contacts



MIL-DTL-55116 Radio / Audio Connectors



VG95234 Reverse-Bayonet and VG96929 Single-Pole



VG95328 Bayonet-Lock IAW MIL-DTL-26482 Series I



M85049 (AS85049) Backshells and Connector Accessories



MIL-DTL-83723 Backshells and Connector Accessories



M81511 (AS81511) Protective Covers and Connector Accessories



M85049/140 TACOM-Approved and Navy-Qualified 5617649 Shrink Boots



MIL-PRF-24758 NAVSEA-Qualified Conduit and Fittings



M85049 Composite Backshells and Covers for MIL-DTL-38999

## GLENAIR'S COMMITMENT TO QUALITY

Glenair is proud of the quality and reliability we build into our broad range of mission-critical interconnect solutions—from discrete connectors to complex cable assemblies and embedded systems. Glenair is the biggest “made in the USA” interconnect supplier in the high-reliability industry, but we also operate factories in the UK, Italy, and Germany to 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 Track Record of Interconnect Innovation



1956: Glenair founded to produce a universal Mil-Spec connector cable clamp, the G1



1965: Glenair's first connector product: the Sav-Con® Connector Saver

1973: Glenair qualifies to MIL-C-85049 spec governing electrical connector accessories



1980: Glenair expands metal-core conduit product line to include high-temperature thermoplastics



1988: Glenair launches hermetic connector product series



1997: Glenair introduces the micro miniature Mighty Mouse



1994: Glenair launches high-performance fiber optic product line

1950

1970

1990

2000

2010

2020

2030



Grand Central Terminal, Glendale, Ca Air Way, Glendale California, circa 1950



1965: Glenair manufactures the "Golden Umbilical" spacewalk cable

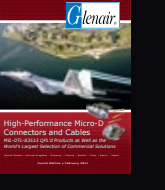
1972: Glenair launches Mansfield, UK factory specializing in complex cable assemblies and Micro-D flex circuitry



1980: Glenair enters harsh-environment oil & gas market with rugged multipin connector series



1989: Glenair retools entire metal connector accessory product family with composite thermoplastic alternatives



1997: Glenair expands Micro-D and Nanominiature connector lines with acquisition of Microway Systems



2003: Glenair revolutionizes EMI/RFI cable shielding with microfilament technology



2011: Series 28 HiPer-D high-performance M24308 intermateable

2012: Glenair launches ruggedized photonics group

2005: Glenair acquires Italian industrial/rail connector manufacturer, Commital



2012: Glenair nanominiature Series 88 SuperFly



1999: Glenair introduces composite 3-in-1 Swing-Arm strain-relief



2012: Glenair introduces high-temperature Micro-D for downhole applications



2015: Integrated Flex/PCB capability



2013: SuperSeal™ RJ45 and USB ruggedized field connector series



2013: AlphaLink spring-loaded solderless board level interconnect



2015: MasterWrap lightweight side-entry EMI shielding



2014: MouseBud the snap-lock, trigger release soldier connector



2017: HD Stacker™ board-to-board stackable connectors



2018: Micro Slim size/weight saving banding tool and bands



2020: MT Ferrule Fiber Optics



2019: ThermaRex extreme-temperature tolerant interconnects





# MISSION-CRITICAL INTERCONNECT SOLUTIONS

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