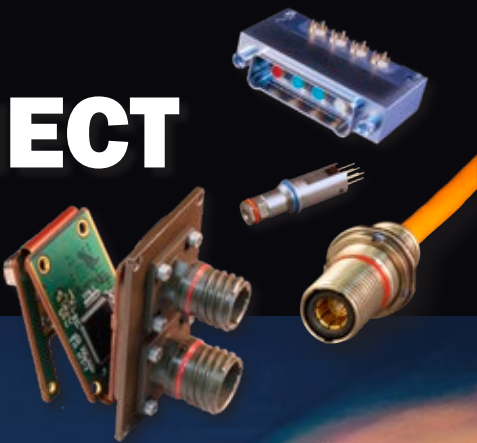




MISSION-CRITICAL INTERCONNECT SOLUTIONS



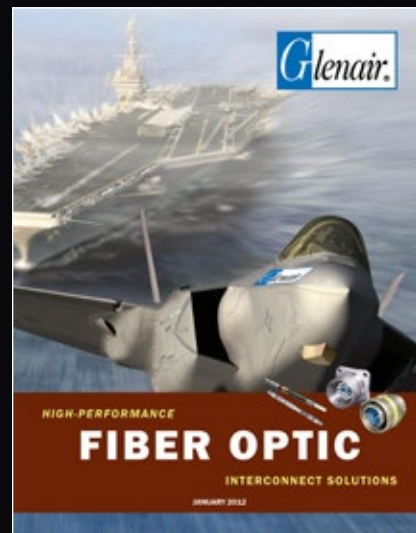
OCETA
WE CONNECT YOUR SYSTEM
www.oceta.shop

TURNKEY OPTICAL AND ELECTRICAL

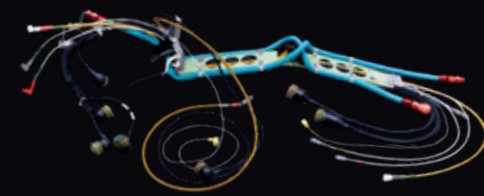
INTERCONNECT ASSEMBLIES AND INTEGRATED SYSTEMS



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



COMPLEX MULTIBRANCH AND OVERMOLDED CABLE ASSEMBLIES



F/A-18 radar pantograph assembly



Overmolded cable assembly



AWACS radar assembly



Hybrid fabric braid and overmolded environmental cable assembly



"Golden Umbilical" life-support umbilical cable for first American spacewalk, 1965



Soldier radio power and USB data overmolded cable assembly

TURNKEY FACTORY-TERMINATED CONDUIT ASSEMBLIES



Complex multibranch fighter jet electrical wire conduit assembly



Lightweight, halogen-free rail industry wire conduit assembly



Crush-resistant commercial aerospace metal-core conduit assembly

INTEGRATED SYSTEMS



Precision-machined, injection molded or stamped-and-formed boxes and structural members



Multibranch interconnect cable harnesses and assemblies—terminated, tested, and ready for use

TURNKEY FIBER OPTIC CABLE ASSEMBLIES



Environmental overmolded fiber optic cable assembly

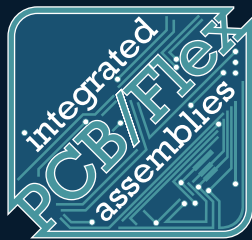


Multi-way inside-the-box D38999-to-ST assembly



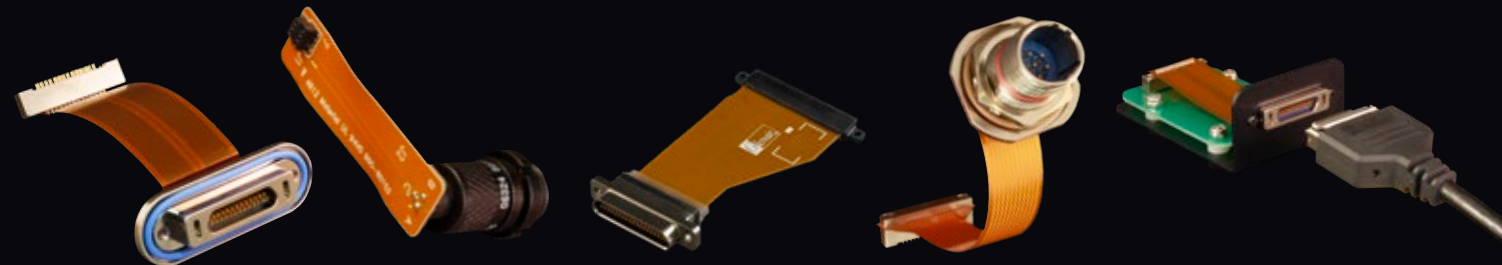
GFOCA (IAW M83526) environmental cable assembly

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

**TURNKEY · CONNECTORIZED
INTEGRATED
PCB/FLEX ASSEMBLIES**
IPC-6012/6013 CLASS I, II, III, TYPES 1-4
AUGUST 2017

EVERYTHING UNDER ONE ROOF
One production control and quality system for all operations—from connector manufacture to PCB/flex fabrication, assembly and test.

Turnkey Integrated PCB/Flex Assemblies
100% vertical integration—we make the connectors, we make the flex, and we assemble, test, and certify everything under one roof.

One-Stop PCB Assembly Shopping

VERTICALLY INTEGRATED PCB CONNECTOR MANUFACTURING | IN-HOUSE BOARD AND FLEX DESIGN AND FABRICATION | CONNECTOR TO-FLEX TERMINATION AND ASSEMBLY

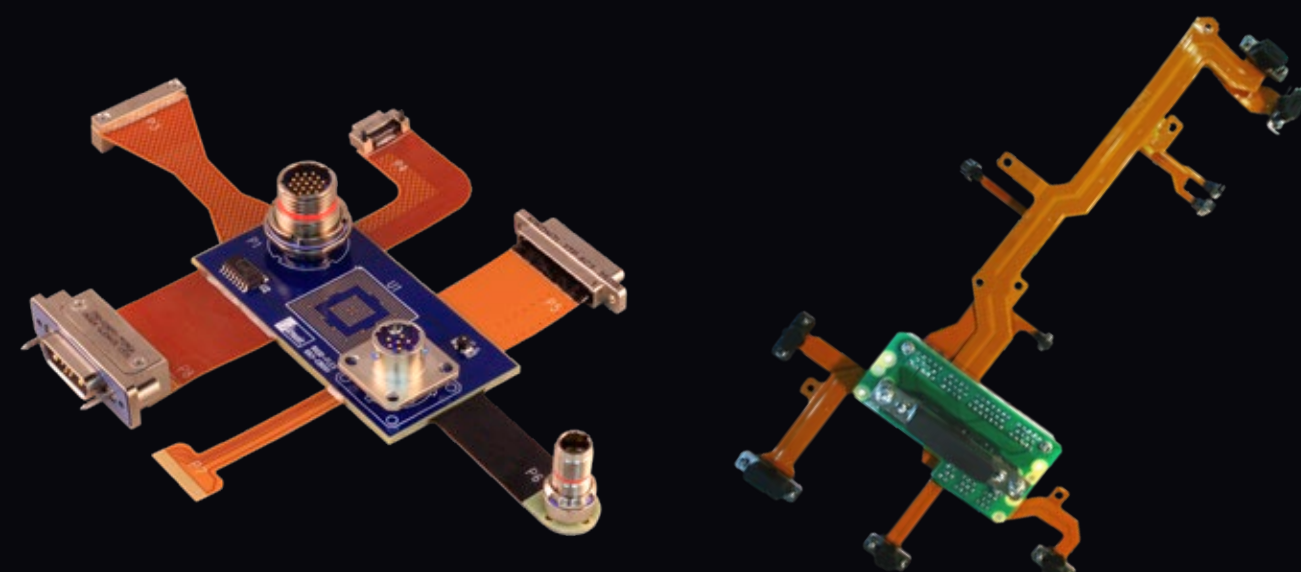
Glenair offers a full range of MIL-qualified and commercial PCB interconnect solutions—from standard and mil-spec connectors to micro-D subminiature and nanotechnology. Need right answers to complex interconnect questions? For immediate incorporation into both catalog and custom PCB/flex assemblies.

Glenair's IPC 6012/6013 Class III manufacturing capabilities are truly under one roof. We offer unparalleled expertise in connectorized PCB design, termination and test. Our operations are managed under a single worldwide ISO 9001 and AS9100 certified quality system. Our flex fabrication cell delivers IPC 6012 and 6013 Class III manufacturing. And our assembly/termination team has a well-deserved reputation for on-time delivery of even the most complex, high-reliability PCB/flex assemblies.

For more information contact Glenair at 818-247-6000 or visit our website at www.glenair.com. U.S. CAGE code 06324

QwikConnect
GLENAIR • JANUARY 2016 • VOLUME 20 • NUMBER 1

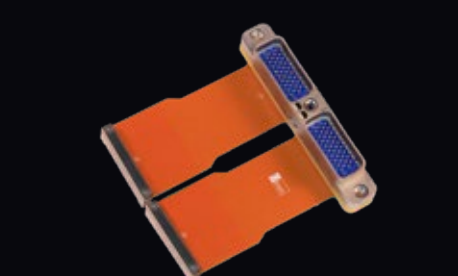
Embedded Subsystem Electronics and Opto-Electronics @ Glenair



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



Production flex and rigid flex assembly terminated, tested and ready for immediate use



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

OCETA
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Hybrid flex/rigid flex multibranch Micro-D flex assembly with discrete RF circuits

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PCBA DESIGNS FOR RUGGEDIZED EMBEDDED SYSTEMS



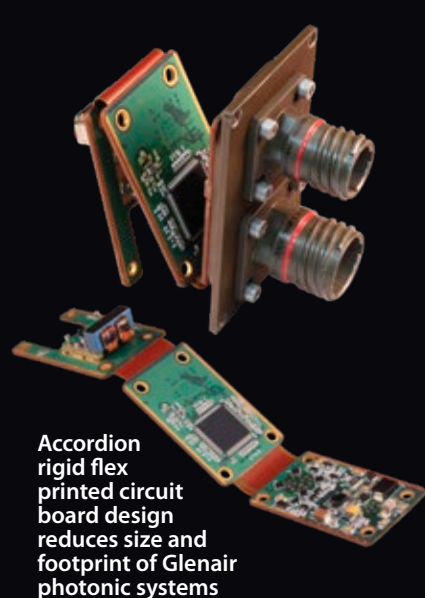
complete in-house optical and electrical PCBA design and development capability



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



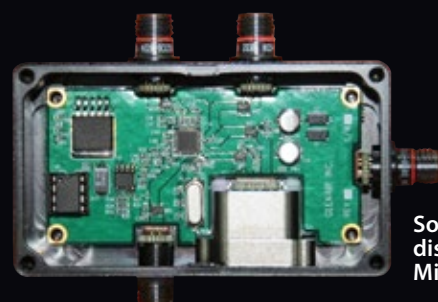
ADVANCED ELECTRONIC PACKAGING DESIGN FOR SIZE AND THERMAL MANAGEMENT



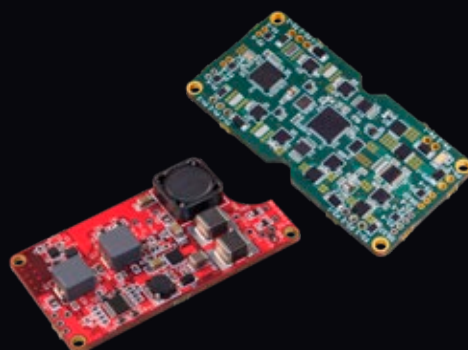
Accordion rigid flex printed circuit board design reduces size and footprint of Glenair photonic systems



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

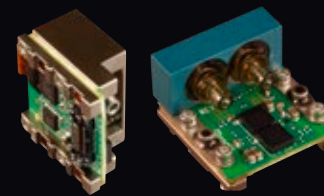


Soldier-worn data hub and power distribution board design with Series 80 Mighty Mouse interconnects



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

SMALL FORM-FACTOR BOARD DESIGNS USED IN PHOTONIC SYSTEMS



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



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

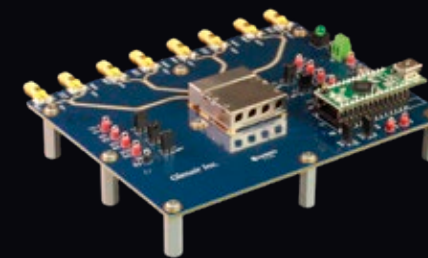


PCBA design for radio frequency-over-fiber links for SATCOM and RF signal distribution

ELECTRONIC AND OPTO-ELECTRONIC EVALUATION BOARDS



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

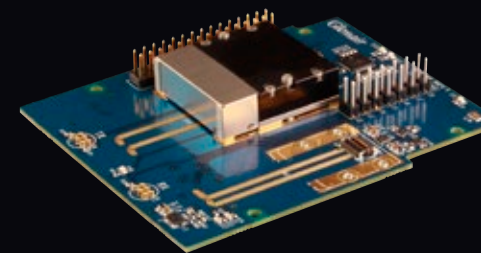


PCB-mount transceiver evaluation board



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

VITA 57, FPGA MEZZANINE CARD BASED DEVELOPMENT BOARDS

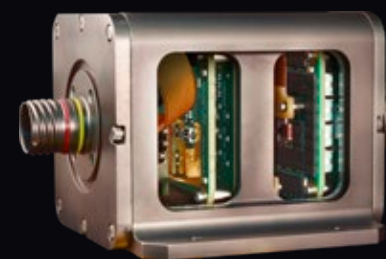


Ruggedized FMC connectivity PCBA for Ethernet, Fiber channel, and/or DVI, SMPTE video system applications



FPGA mezzanine card development board

EMBEDDED ELECTRONIC AND OPTO-ELECTRONIC PCBAs IN ACTION



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



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



Small form-factor ruggedized opto-electronic media converter

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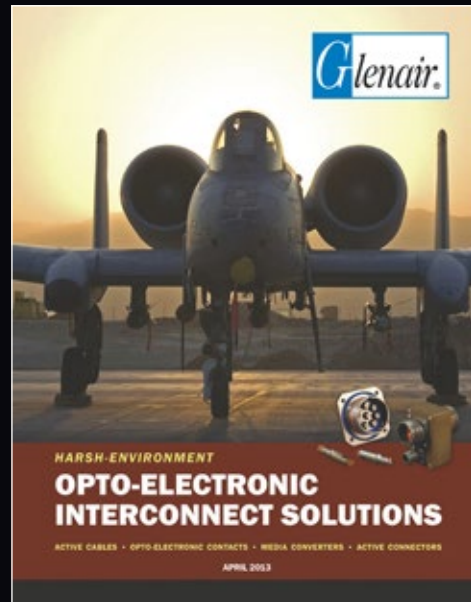
www.oceta.shop

RUGGEDIZED

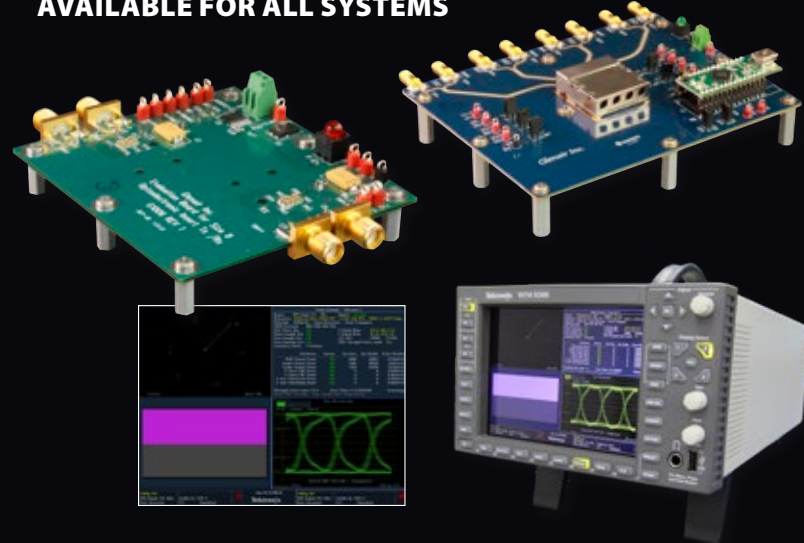
OPTO-ELECTRONIC INTERCONNECT SOLUTIONS



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

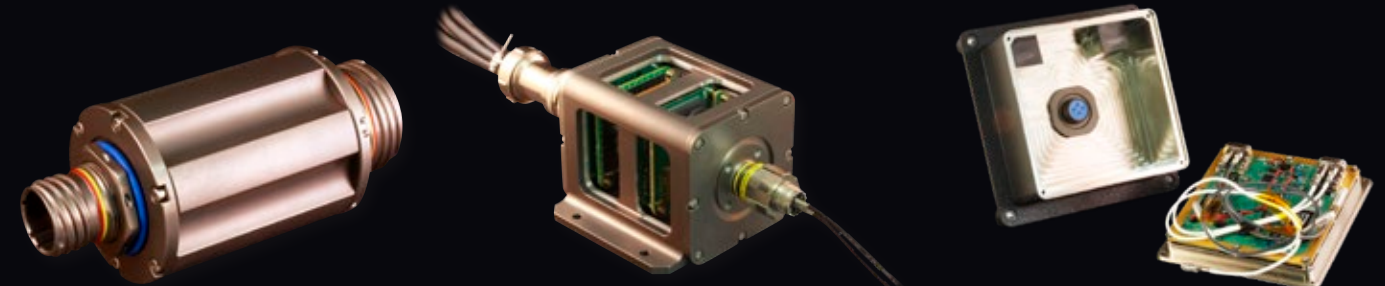


Lightning-strike protected ARINC 801 F/O to D38999-type media converter

GFOCA fiber optic Ethernet media converter

DVI media converter

COPPER-TO-FIBER MEDIA CONVERTERS FOR SIGNAL AGGREGATION

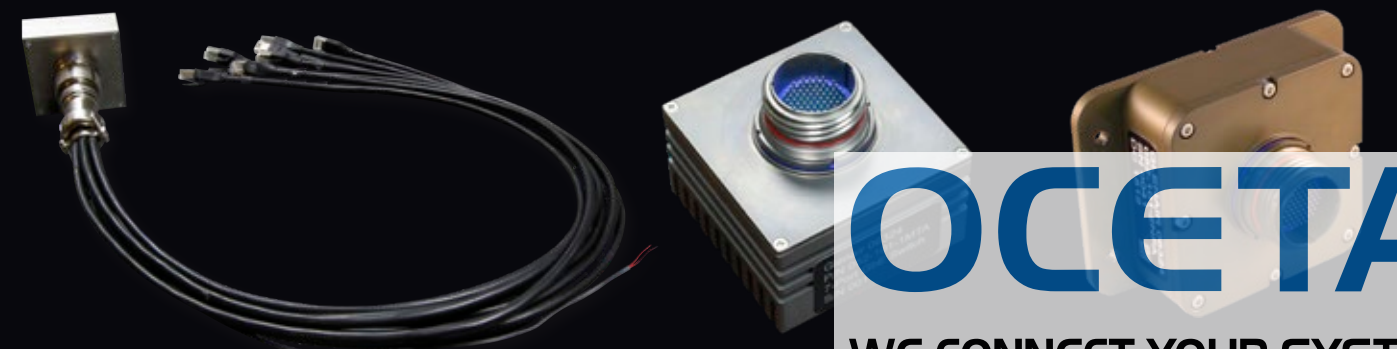


Small form-factor low-speed signal aggregator

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

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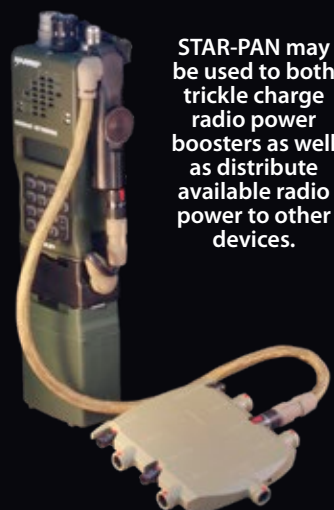
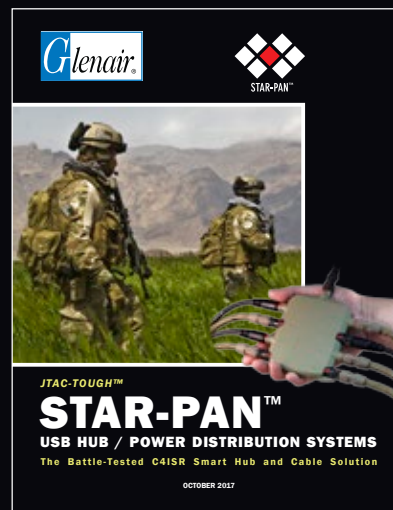
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JTAC-TOUGH™

STAR-PAN™ SOLDIER USB HUB / POWER DISTRIBUTION SYSTEM



battle-tested C4ISR / DACAS



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



808-057 STAR-PAN II hub with dedicated host and radio cables



808-037 STAR-PAN VI hub with six PAN ports, two battery/auxiliary battery ports, and one universal host/EUD port

- Battery power/+5VBus power for 3 USB devices
- 2 power inputs for extended mission life
- SMBus, USB2.0 (full and high-speed), USB1.1 compatible interface

- Battery power/+5VBus power for 4 USB devices, 2 dedicated radio ports
- Integrated power monitoring and management
- Proven performance in JTAC/DACAS applications

GENERAL-PURPOSE STAR-PAN™ SYSTEM CABLES



NETT Warrior (C1) Extension Cable



Host USB-A Cable



C4 Micro USB EUD Host Cable

STAR-PAN™ PERIPHERAL DEVICE CABLES



TacROVER-e Cable



Radio Adapter Cable



USB 2.0 Adapter Cable



DAGR GPS/Navigation Cable



TacROVER-p ISR Receiver Cable



PLRF-15C/25C Laser Range Finder Cable

STAR-PAN™ RADIO DATA / POWER CABLES AND ADAPTERS



Microlight Radio Data Cable



PRC-117G Radio Data Cable



Harris Radio Adapter Cable



PRC-148 Radio Data Adapter



PRC-152A Radio Data Adapter



PRC-154 Rifleman Radio Data Adapter

EXAMPLES OF STAR-PAN™ SUPPORTED PERIPHERALS / EUDs



Connectorized Juggernaut.Case™



Connectorized Kägwerks EUD case



Laser range finders and IR goggles

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PROVEN FLIGHT HERITAGE

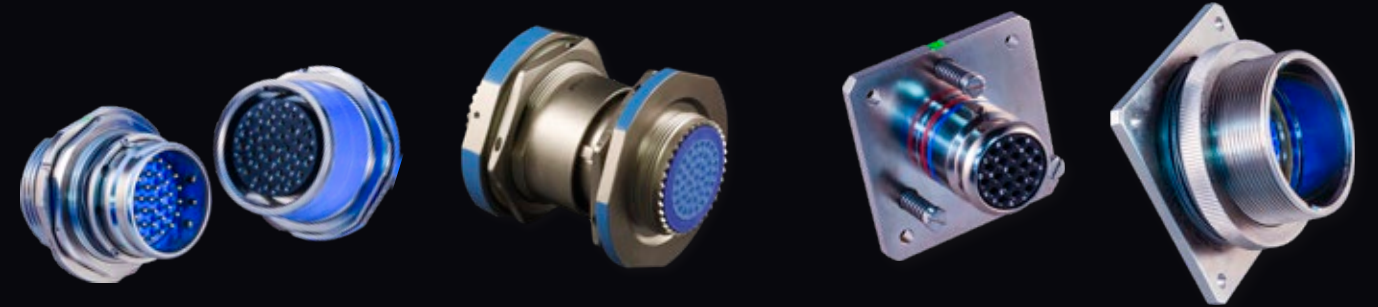
SPACE-GRADE SOLUTIONS

NASA · ESA · JAXA · Commercial



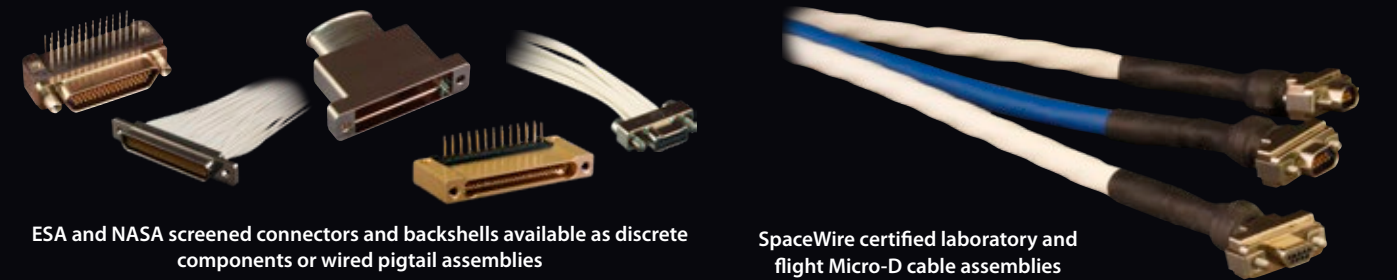
Complex space-grade cable assemblies (shown: Glenair-made "Golden Umbilical")

ASSISTED-RELEASE QUICK-DISCONNECT BLIND-MATE CONNECTORS



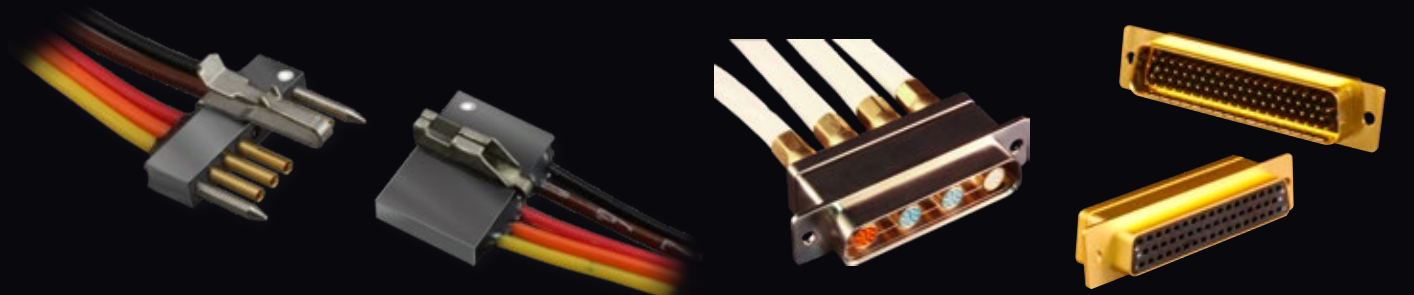
Glenair Series 253 connectors are designed to meet applicable environmental, electrical and mechanical performance characteristics of D38999 Series III. The technology is well suited for use in commercial blind-mate instrumentation panels, satellite deployment, scientific research and development payloads,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

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



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

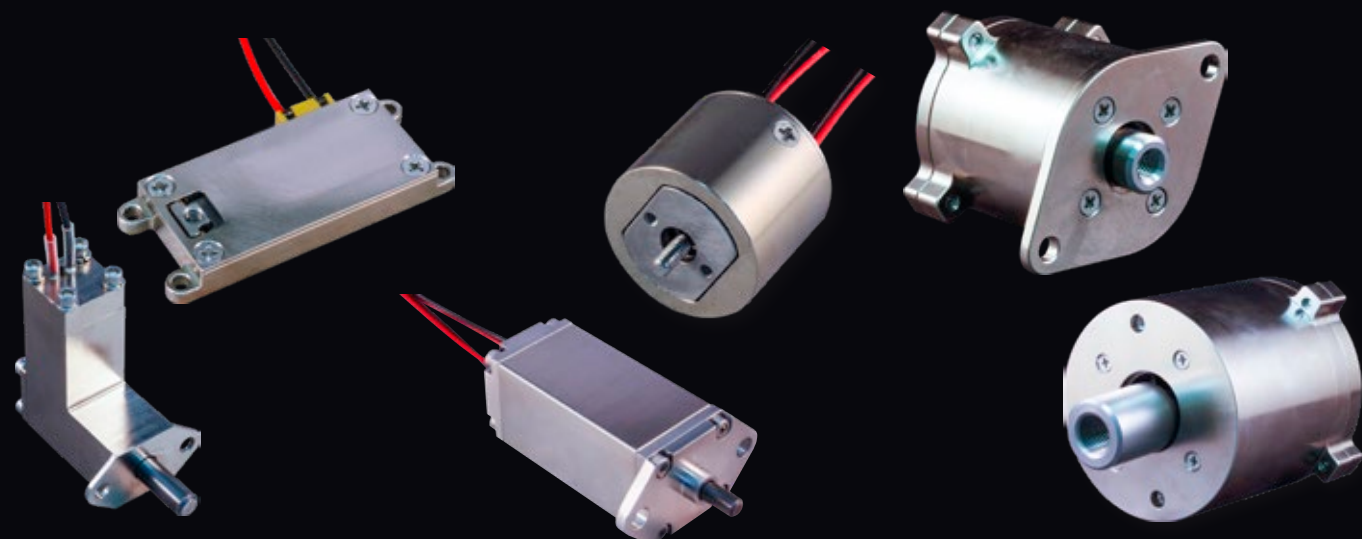
SpaceWire certified laboratory and flight Micro-D cable assemblies



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

Qualified MIL-DTL-24308 Class K Space-Grade Hermetic, plus HiPer-D high-performance space-grade and high-speed environmentals

HOLD-DOWN RELEASE MECHANISMS, PIN PULLERS AND PIN PUSHERS



Light Duty
Up to 75 lb release payload

Medium Duty
Up to 1,000 lb release payload

Heavy Duty
Up to 20,000 lb release payload

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



Multibranch Micro-D / Mighty Mouse cable assembly with ArmorLite™ lightweight EMI shield overbraiding

Repairable backshell-equipped cable assembly for a space lab application

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EMI/RFI shielded multibranch Micro-D connector assembly
MIL-DTL-24308 Class K SuperNine panel mount I/O connector

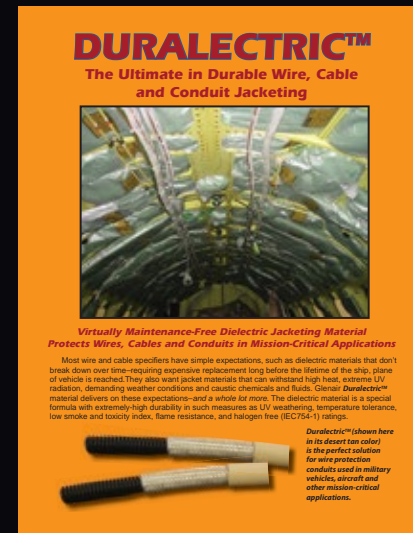
HIGH-PERFORMANCE WIRE AND CABLE

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

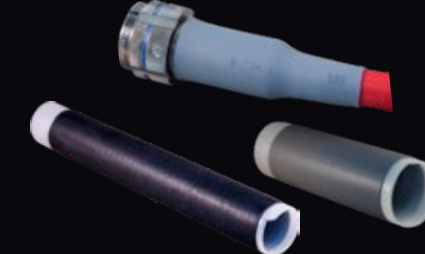


- Service temperature: -65°C to 225°C
- Duraelectric K (Kelvin): -110° to 225°C
- Fire-resistant, Low Smoke-Zero Hal
- Mil-aero and industrial fluid-resistant
- Accelerated UV/sunlight resistant, 53 year equivalent exposure
- Ozone resistant IAW ASTM D1149
- Moldable and extrudable

DURALECTRIC® 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



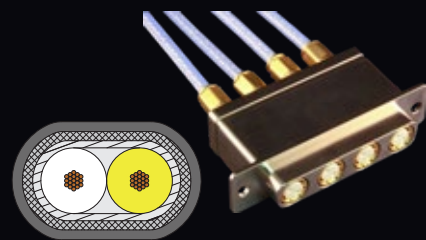
M22759 single-ended hookup wire



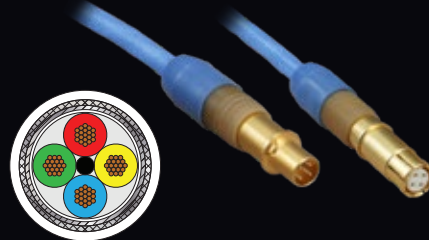
Coaxial cable for RF applications



Single and multimode graded-index fiber optic cable



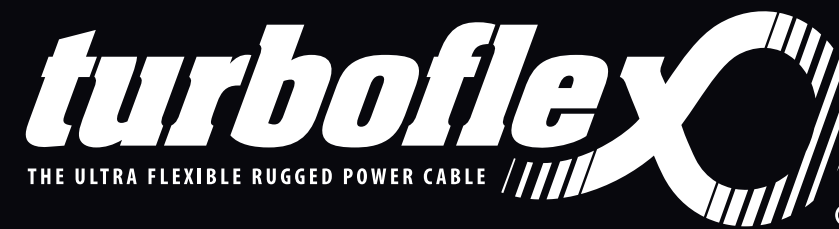
Matched-impedance twisted pair cable for Glenair Ultra-Twinax contacts



Aerospace-grade quad cable for Glenair Quadrax contacts



Aerospace-grade 10G Ethernet cable for El Ochito™



- 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 DURALECTRIC® JACKETING



Ultra flexible rope-lay construction TurboFlex® power cable



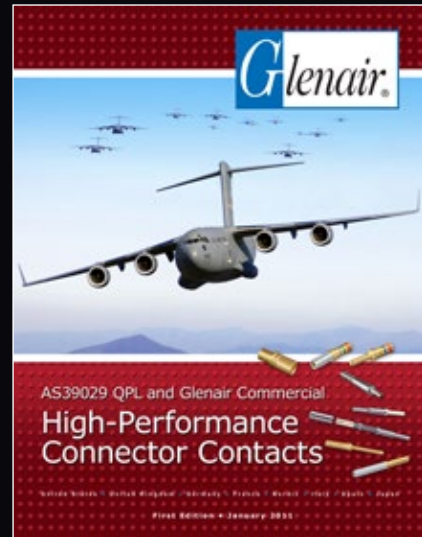
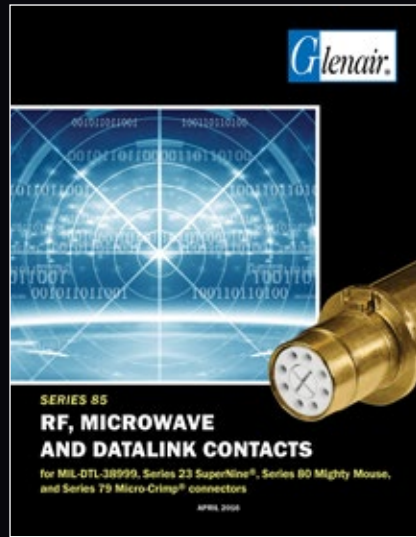
TurboFlex® with Duraelectric® jacketing ideally suited for equipment grounding

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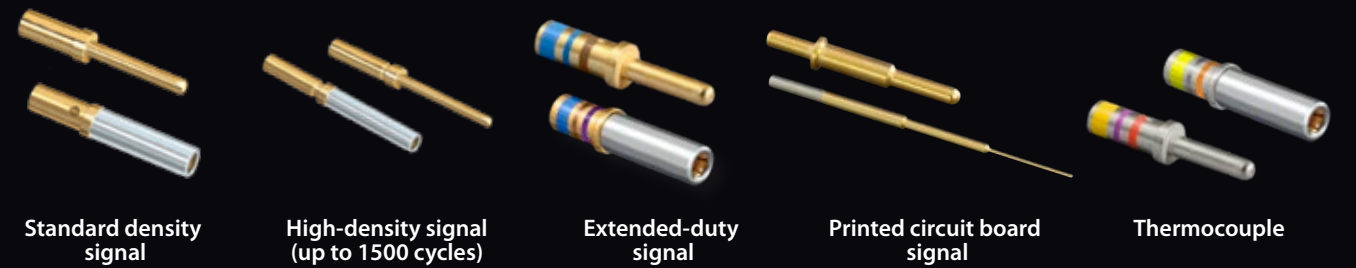
QPL AND COMMERCIAL

CONTACT TECHNOLOGY

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



AS39029 SIGNAL CONTACTS



AS39029 RF CONTACTS



POWER CONTACTS



LOW-LOSS, MATCHED-IMPEDANCE RF AND MICROWAVE CONTACTS



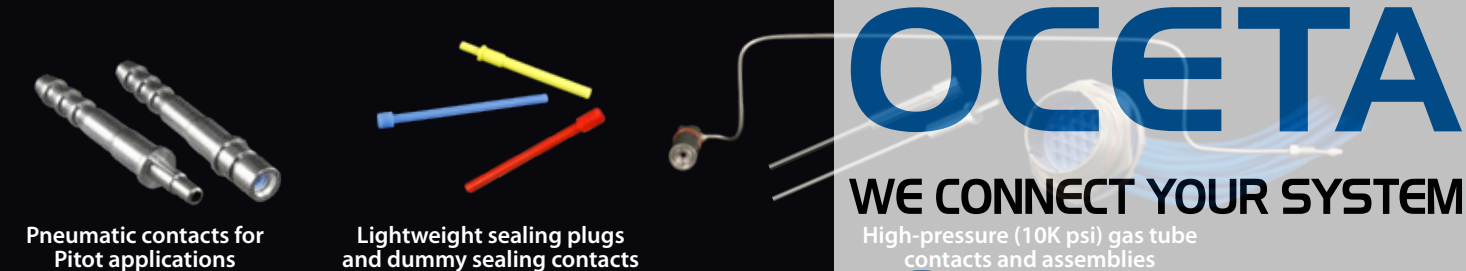
HIGH-SPEED DATALINK CONTACTS FOR ARINC, 38999, AND OTHER CONNECTORS



FIBER OPTIC TERMINI



SPECIAL PURPOSE CONTACTS AND PURE GAS TUBE CONTACTS/ASSEMBLIES

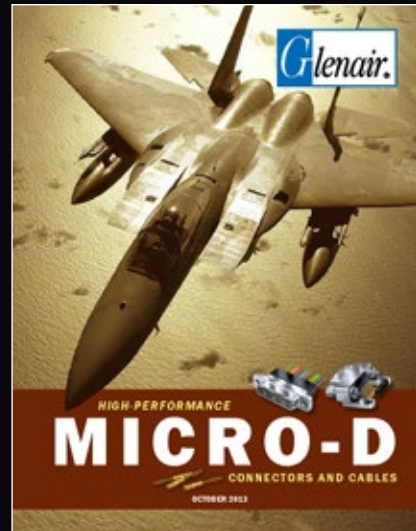


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High-pressure (10K psi) gas tube contacts and assemblies
www.oceta.shop

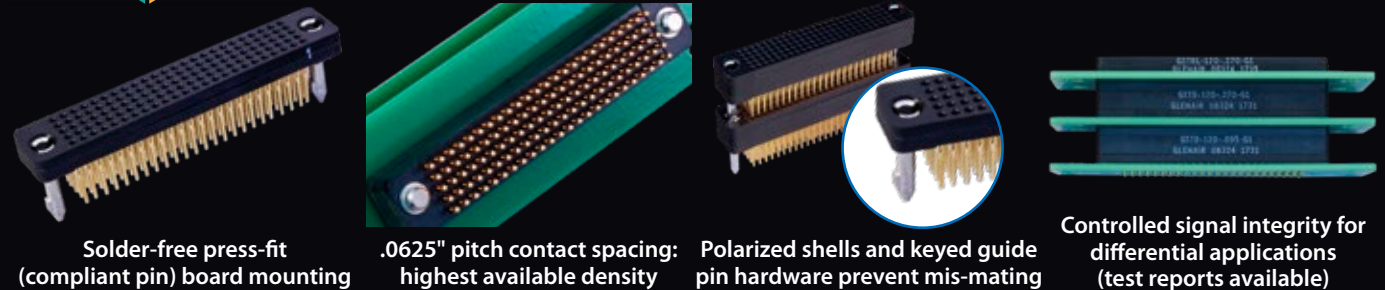
QPL AND COMMERCIAL RECTANGULAR CONNECTORS



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

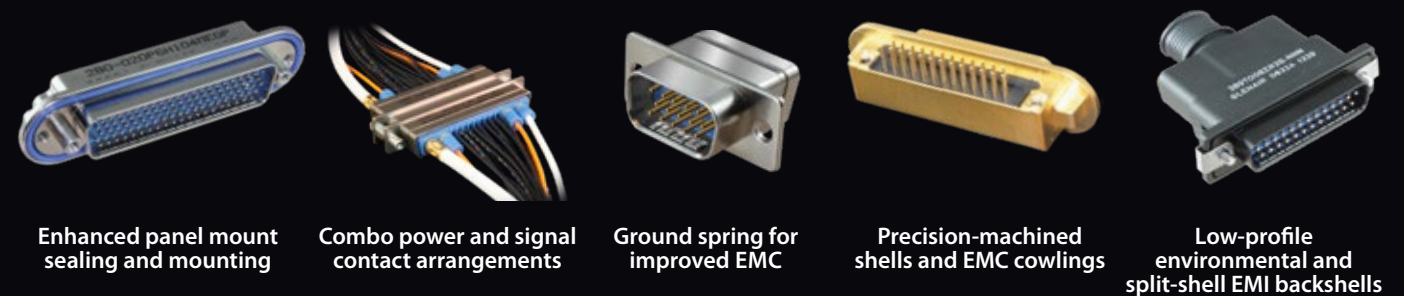


HD STACKER™ HIGH-DENSITY MISSION-CRITICAL BOARD-TO-BOARD STACKING CONNECTOR SERIES



- 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



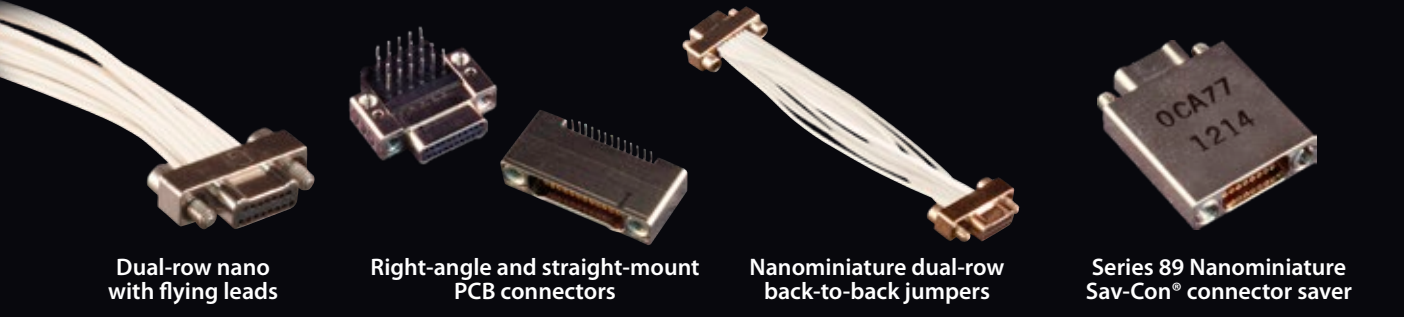
SERIES 79 MICRO-CRIMP HIGH-DENSITY CRIMP CONTACT MICRO RECTANGULAR



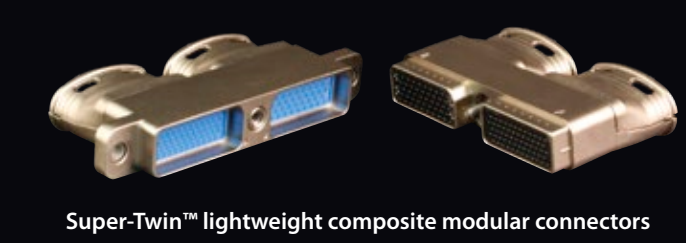
MIL-DTL-83513 MICRO-D QPL AND GLENAIR COMMERCIAL EQUIVALENTS



MIL-DTL-32139 NANOMINIATURE



SERIES 20 SUPER-TWIN™



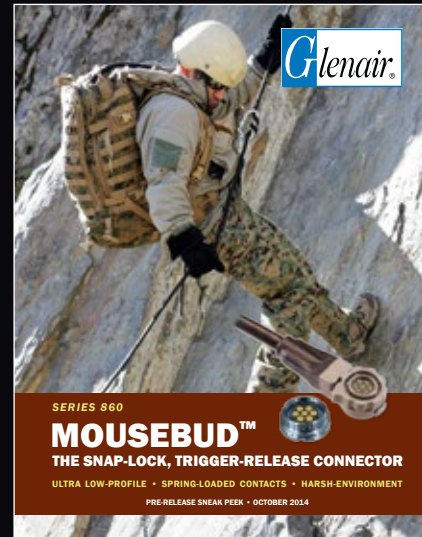
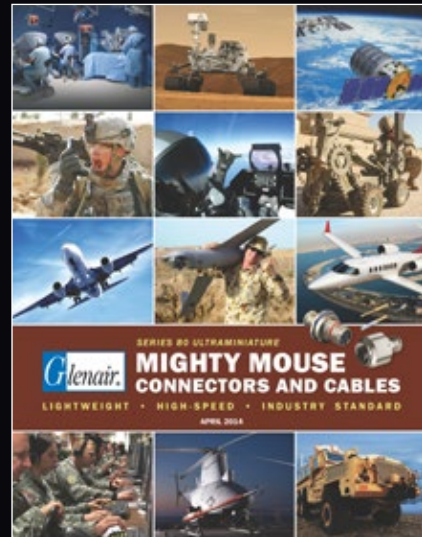
OCETA
WE CONNECT YOUR SYSTEM
AlphaLink® board-level pogo-pin connectors and flex jumpers

LIGHTWEIGHT

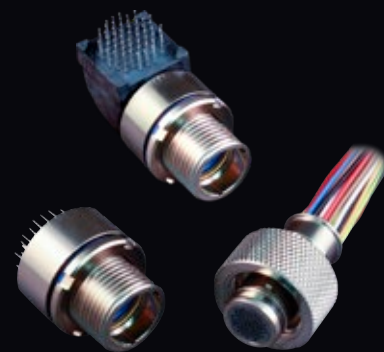
ULTRAMINIATURE CIRCULAR CONNECTORS



save weight · save space · optimize power · enhance performance



MIL-AERO NANOMINIATURE



.025" contact spacing Nanominature circular IAW MIL-DTL-32139

SERIES 80 MIGHTY MOUSE



SERIES 88 SUPERFLY™



TACTICAL DATA COMMS



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



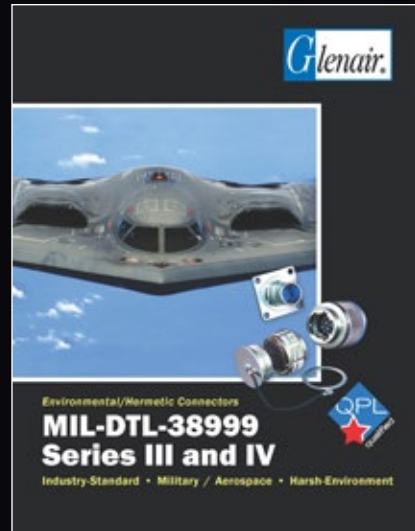
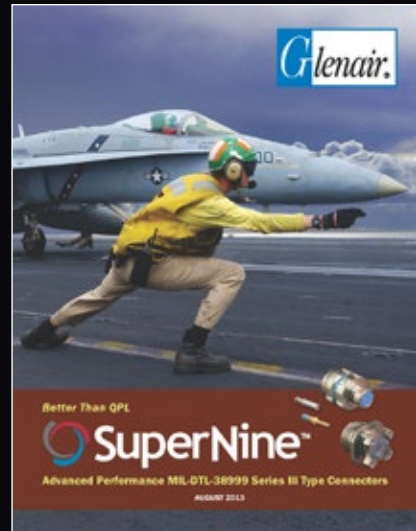
OCETA
WE CONNECT YOUR SYSTEM
Multibranch harnesses and cable assemblies
www.oceta.shop

QPL AND COMMERCIAL

MIL-AERO CIRCULAR CONNECTORS



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



DLA QPL MIL-DTL-38999 SERIES III AND IV



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



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

SUPERNINE® MIL-DTL-38999 TYPE CRIMP CONTACT TERMINATION



Extended-durability plug with band porch and 1500 mating cycle contacts

Extended-durability plug with accessory threads

High-density plugs and receptacles in all mounting styles (up to 1500 cycles)

Piston-seal submersible series

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



Flush-flange

Stepped contact

Short standoff

Threaded standoff

Dual flange

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



Datalink contact high-speed series

Glass-to-metal seal hermetic connectors

EMI/RFI filtering and TVS diode EMP designs

Tight-tolerance fiber optic connectors

SAV-CON® CONNECTOR SAVERS AND OTHER HIGH-PERFORMANCE SERIES



Sav-Con® connector savers for every MS circular series

Environmental and hermetic bulkhead feed-thrus

Space-grade blind-mate and assisted-separation connectors

AS81703 Series 3 type high-shock lanyard release

OCETA

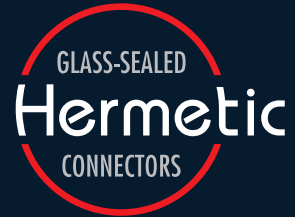
WE CONNECT YOUR SYSTEM

Space-grade blind-mate and assisted-separation connectors AS81703 Series 3 type high-shock lanyard release

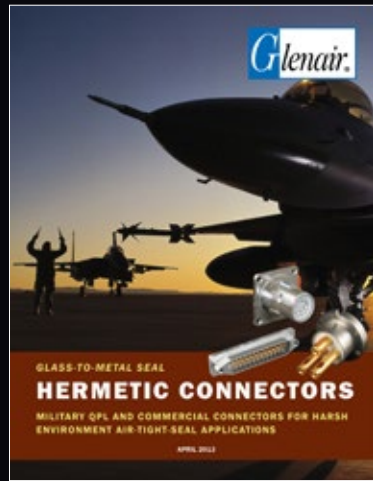
www.oceta.shop

QPL AND COMMERCIAL

GLASS- AND ADHESIVE-SEAL HERMETIC CONNECTORS



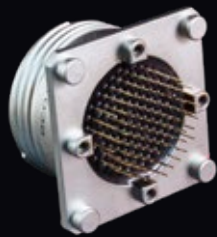
heavy-duty and lightweight solutions



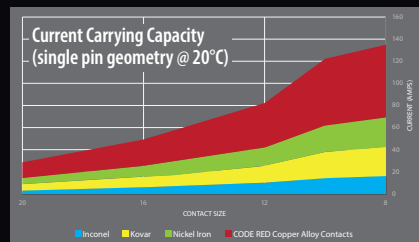
CODE RED™ LIGHTWEIGHT HERMETIC SEALING



Lightweight hermetic encapsulant sealing solution with better than 1×10^{-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

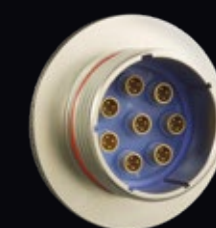
HIGH-SPEED DATALINK HERMETICS



Triax hermetic



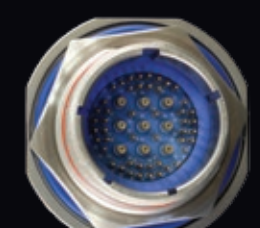
Hybrid coax/signal hermetic



Quadrax hermetic with special weld-mount flange



MT ribbon fiber optic hermetic



Hybrid coax/signal hermetic

FIBER OPTIC HERMETICS

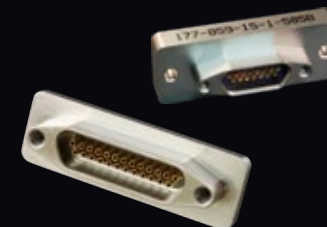
RECTANGULAR PACKAGE HERMETICS



MIL-DTL-24308 QPL hermetic



Series 79 Micro-Crimp hermetic



MIL-DTL-83513 type Micro-D hermetics



Sealed panel-mount Micro-D hermetic

OTHER CIRCULAR GLASS-SEALED HERMETIC SERIES



MIL-DTL-26482



MIL-DTL-83723



MIL-DTL-38999 (QPL)

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MIL-DTL-5015 Series 80 Mighty Mouse

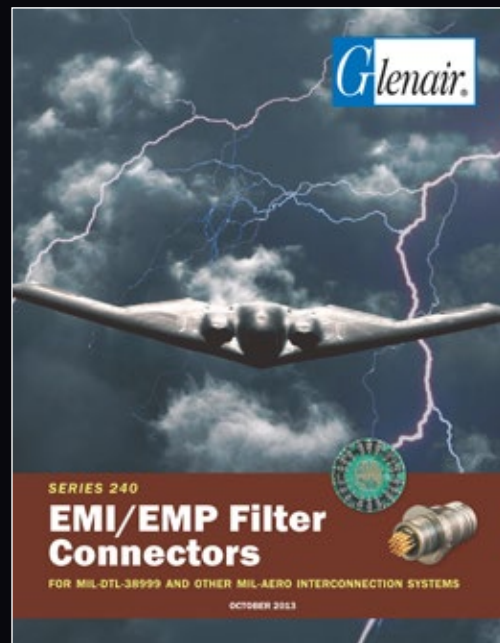
www.oceta.shop

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

MINIATURIZED EMI/RFI FILTER PRESSURE TRANSDUCERS



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

CATALOG EMI FILTER CONNECTORS WITH MIL-STANDARD CIRCULAR PACKAGING



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

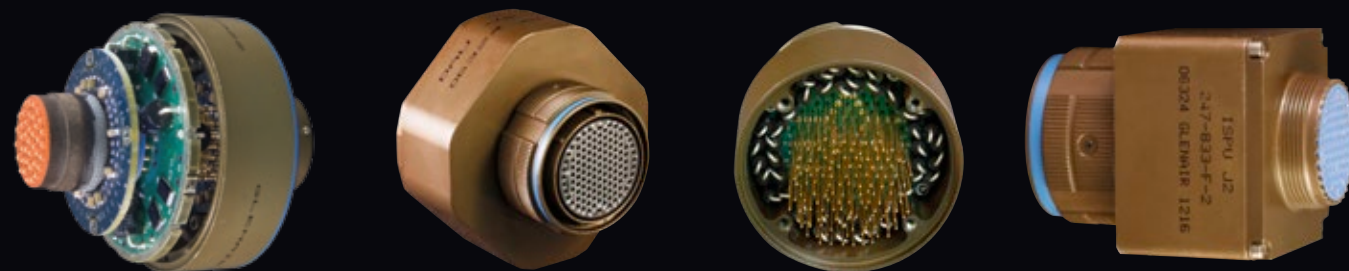
UNIQUE AND SPECIAL-PURPOSE EMI FILTER CONNECTORS



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

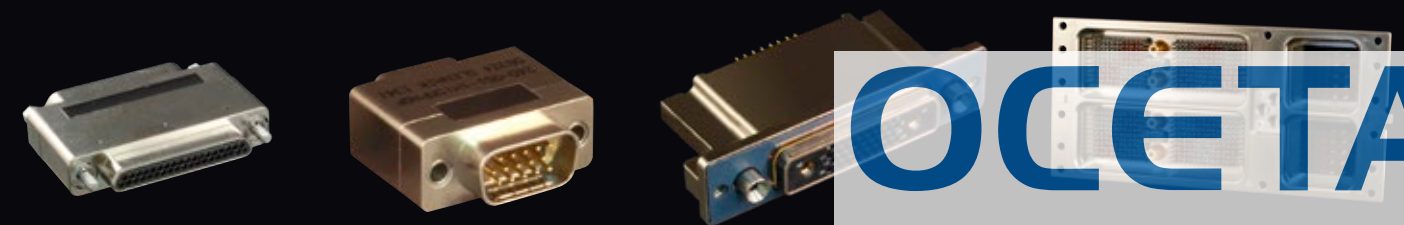
MIL-DTL-38999 type filter connector with sidecar ceramic array packaging MIL-DTL-38999 type filter connector with hybrid analog signal and RF contacts Series 970 PowerTrip™ high-density EMI filtered power connector Series 804 EMI filtered Mighty Mouse push-pull with custom flange SuperSeal™ RJ45 Ethernet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

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-D filter connector Series 6000 D-sub filter connector

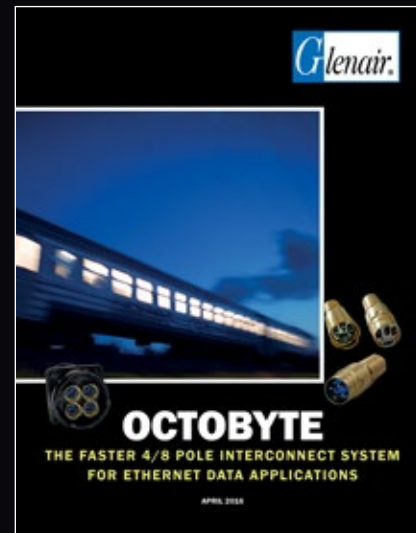
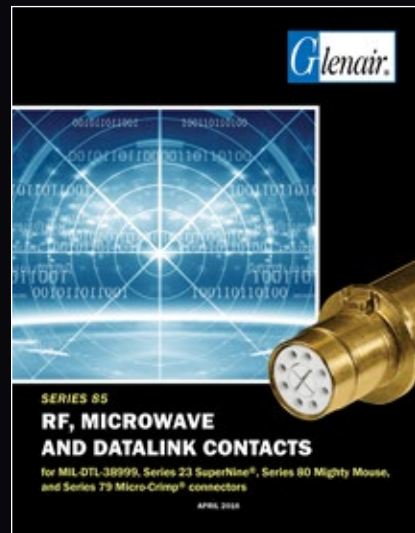
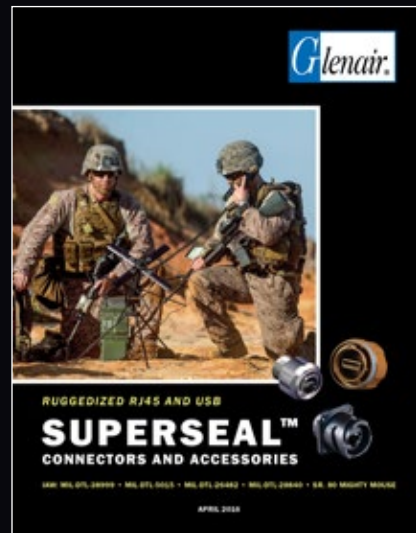
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RUGGEDIZED

HIGH-SPEED DATALINK INTERCONNECTS



contacts · connectors · 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

HIGH-SPEED / RF DATALINK CONTACTS



Size #8 differential twinax contacts Size #12 ultra-twinax differential twinax contacts Size #8 quadrax contacts Size #8 spring-loaded BMB microwave contacts Size #12 SMPM type spring-loaded coaxial

El Ochito 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 for fast internet, USB, SATA, and more

Discrete contacts for D38999 Series III, Mighty Mouse, SuperNine®, ARINC 600, and Series 79 for both #24 and #26 gage cable

Prewired contacts with Cat 6A aerospace #24 or #26 gage 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 CONNECTOR SERIES FOR EL OCHITO® AND OTHER HIGH-SPEED DATALINK CONTACTS



Series 28 HiPer-D® with Quadrax contacts Series 23 SuperNine® with El Ochito PC tail contacts Series 79 Micro-Crimp® with coax contacts Series 80 Mighty Mouse with differential twinax MWDM Micro-D with coax contacts

OCTOBYTE™ SERIES RUGGEDIZED ETHERNET CONNECTOR



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



Ethernet Cat7A contacts Ethernet Cat5 contacts Coax contacts Ethernet MYB-WBT contacts

SPEED-MASTER™ 10G+ ETHERNET



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High-Speed Ethernet technology (shown here in SuperNine® packaging) available now for 22D gage contacts and wires

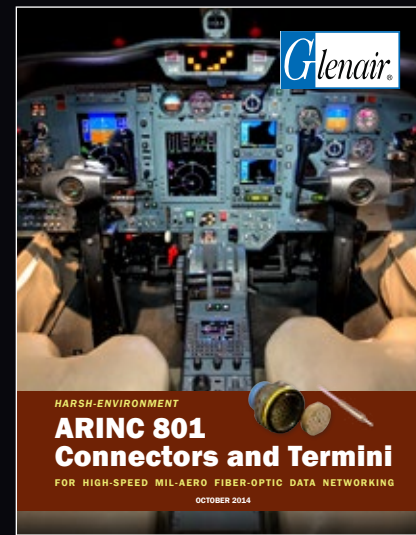
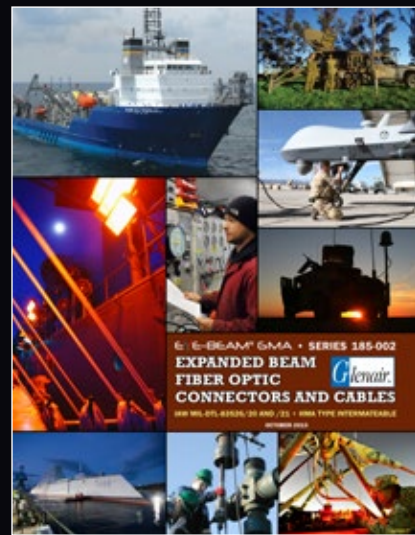
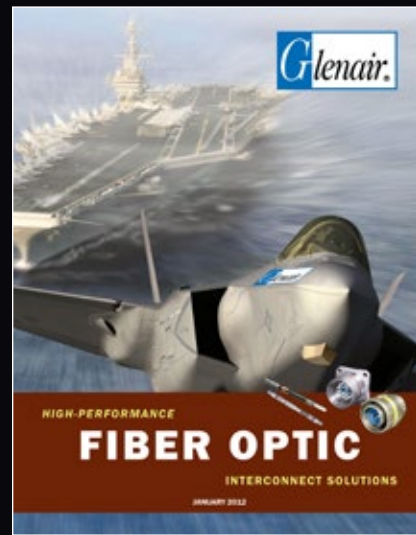
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HIGH-PERFORMANCE

FIBER OPTIC INTERCONNECT SYSTEMS



connectors · termini · cables · tools



GLENAIR BUTT-JOINT FIBER OPTIC CONNECTION SYSTEMS



MIL-DTL-38999 type fiber optic



Glenair High Density (GHD) fiber optic



Mighty Mouse fiber optic



ARINC 801 type fiber optic



MT Ferrule 38999 type fiber optic



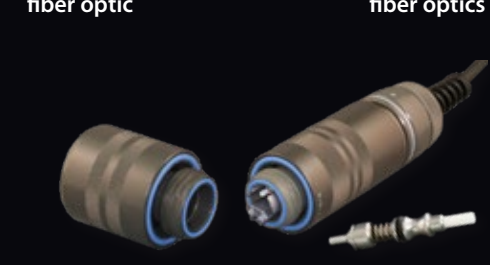
NGCON MIL-PRF-64266 fiber optics



Fiber optic Sav-Con® connector savers



MIL-PRF-28876 Fiber Optic



GFOCA M83526 Compliant Fiber Optic



Glenair Front Release (GFR) fiber optic

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

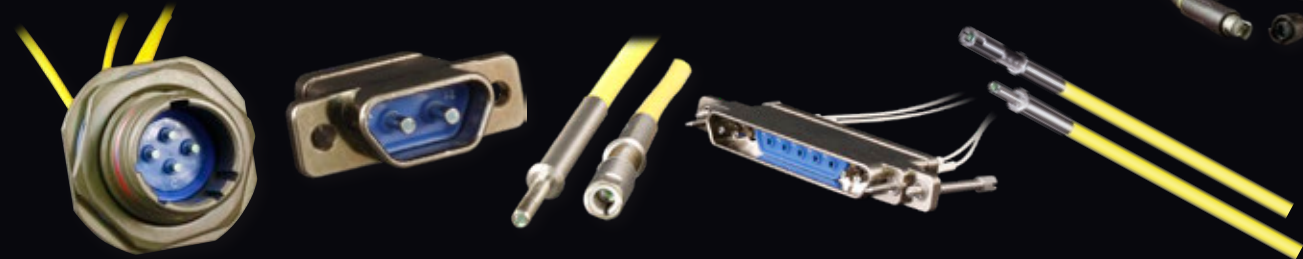


Eye-Beam® GMA (HMA type intermateable) IAW M83526/21 panel mount configuration



Eye-Beam® GMA (HMA type intermateable) IAW M83526/20 hermaphroditic cable plug configuration

Available cable reels and field-deployment technologies including man-packable units



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

TOOL KITS AND TRAINING



Fiber Optic termination and maintenance kits



Fiber optic test probes and adapters



Dry-wipe fiber optic cleaning tools



On-site fiber optic technician certification training

FIBER OPTIC CONNECTOR BACKSHELLS



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

TURNKEY FIBER OPTIC CABLE AND CONDUIT ASSEMBLIES



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WE CONNECT YOUR SYSTEM

Catalog point-to-point solutions as well as bespoke multibranch assemblies

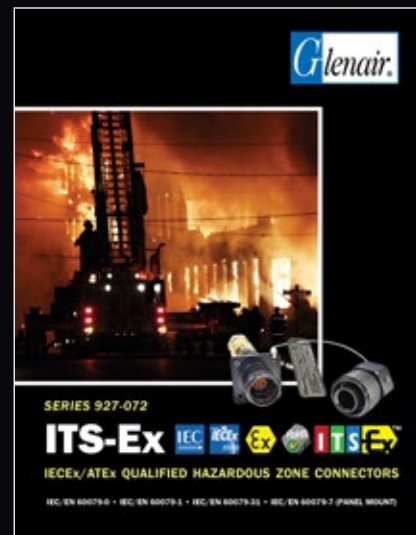
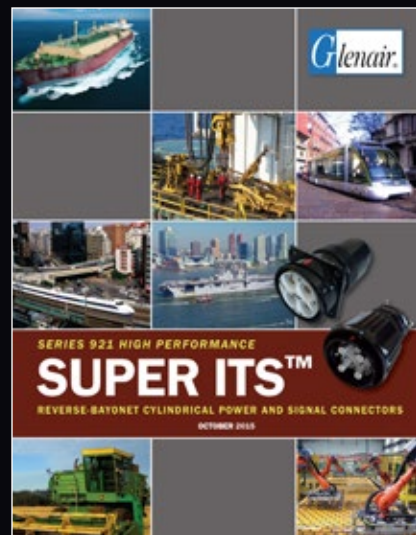


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VG QUALIFIED AND COMMERCIAL INDUSTRIAL-STRENGTH CONNECTORS



power · signal · hazardous zone · military



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 5015 type reverse-bayonet connectors for Group IIC, Temperature Classes T6 and T5, Zones 1 and 2

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.

SERIES 928 HMI LIGHTING



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

HIGH-VOLTAGE SINGLE AND MULTIPOLE POWER CONNECTORS



Glenair high-power tractor connector with TurboFlex™ cable, locking/lever coupling, and flexible standoff

Series IRT rectangular multipole high voltage traction motor connectors

UJ Series power joint connector system

Innovative tool-free locking and latching mechanisms

5015 TYPE CIRCULAR HEAVY-DUTY POWER AND SIGNAL CONNECTORS



Series ITS reverse-bayonet

Series ITH rigid insert

Series IT threaded coupling

Series ITZ triple-start coupling

Series ITK high-temperature ceramic insert



ITS-RG RadGrip



Series 901 multi-pin high voltage



Series 500 single-pole high voltage



Series 100 single-pole high power



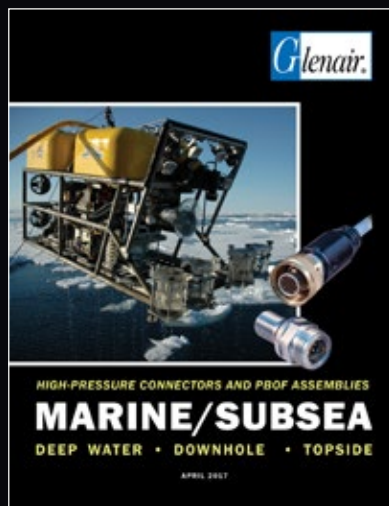
Series 115 bayonet with wing locks

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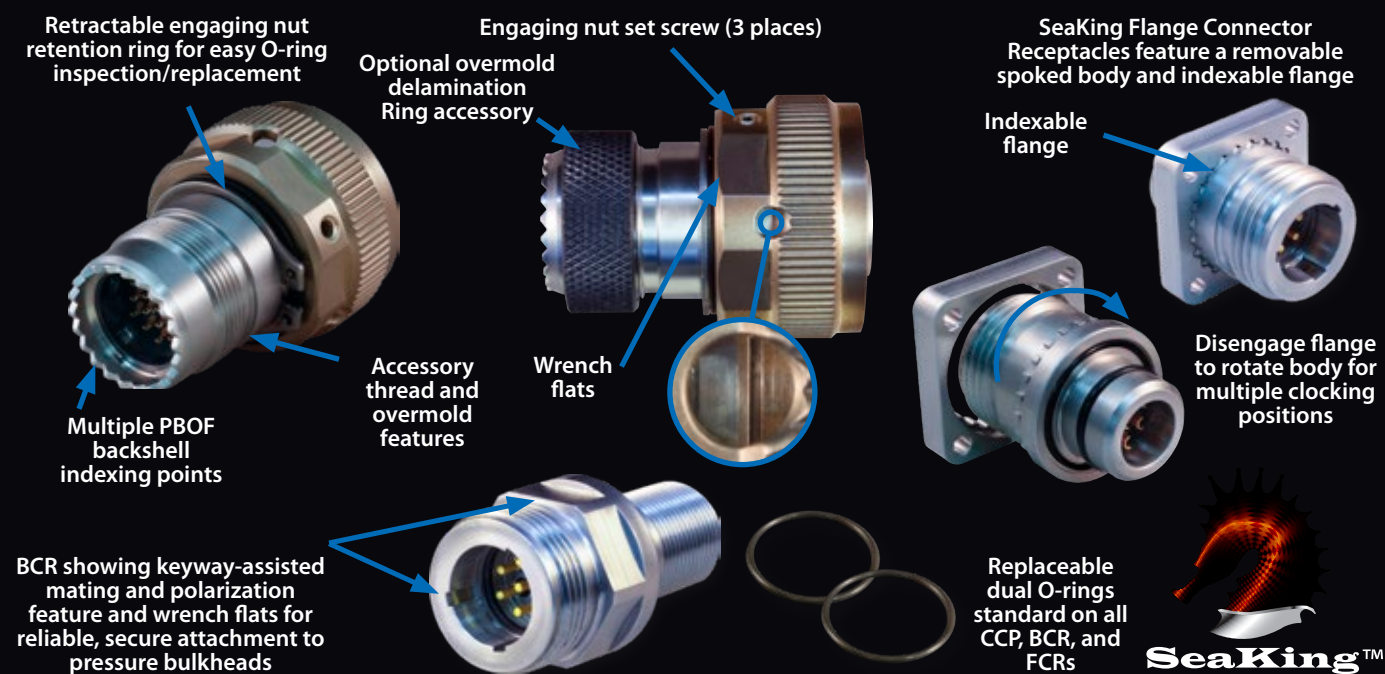
10K PSI OPEN-FACE

UNDERWATER / SUBSEA CONNECTORS

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



SEAKING™: FLAGSHIP SERIES MECHANICAL AND ENVIRONMENTAL FEATURES



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



DOWNHOLE HIGH-TEMPERATURE / HIGH PRESSURE CONNECTORS



TOPSIDE OR SHIPBOARD CONNECTORS



SHALLOW WATER SUBSEA CONNECTORS

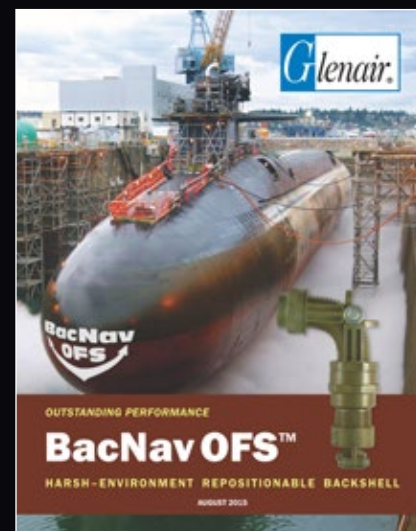
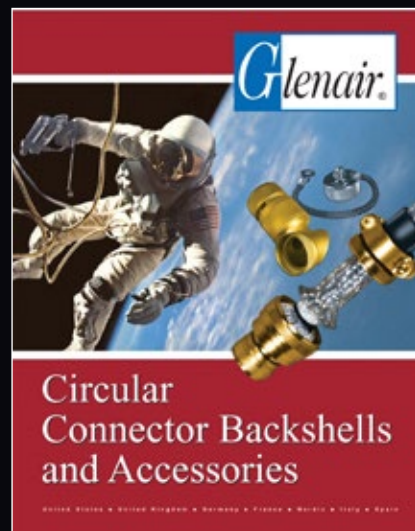
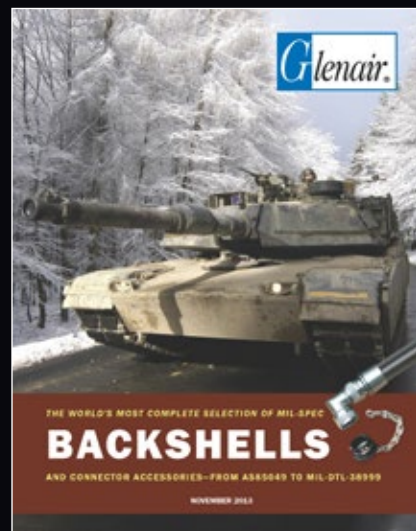


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QPL AND COMMERCIAL

CONNECTOR BACKSHELLS AND ACCESSORIES

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



LIGHTWEIGHT COMPOSITE THERMOPLASTIC BACKSHELLS AND ACCESSORIES



Band-in-a-Can EMI/RFI composite backshell



Composite EMI/RFI backshell with attached lightweight braid



Swing-Arm™ Flex with drop-in wire shield adapter



Split-shell low profile composite banding backshells

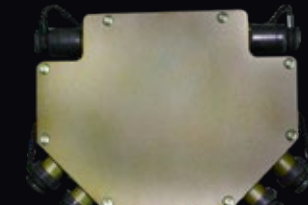


Composite bulkhead feed-thru with hybrid wire sealing grommet

LIGHTWEIGHT COMPOSITE EMI/RFI ENVIRONMENTAL JUNCTION BOXES



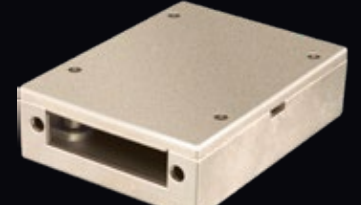
Modular junction box with feed-thru fittings and caps



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



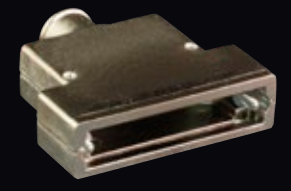
Split-shell M24308 composite backshell



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



Spring-loaded "flop-lid" protective cover



Space-grade Qwik Clamp backshell



Ultra low-profile backshell



BacNav OFS™ repositionable EMI/EMP backshell



Backshell connector saver



Self-locking, anti-decoupling protective covers



Meta-Loc™ series quick-lock, quick-release backshells

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Mil-grade RF protective covers and accessories

Pressure-barrier firewall feed-thrus



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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

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

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



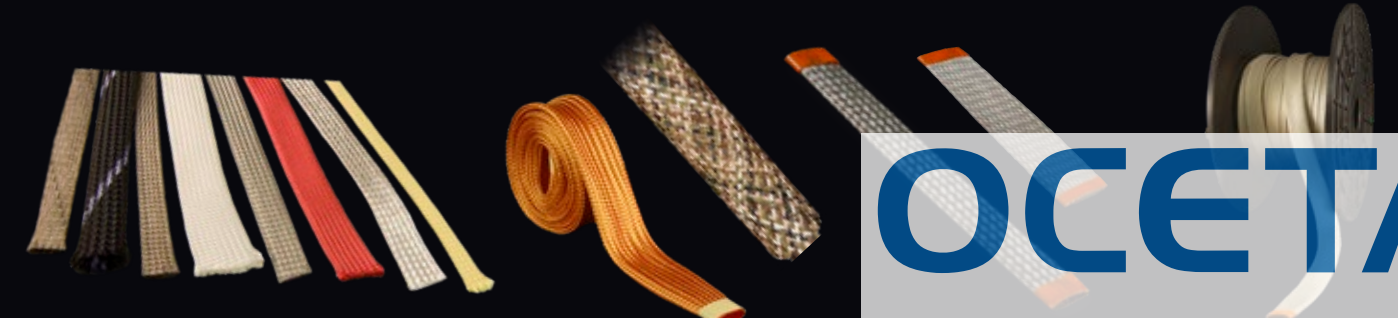
Lightweight ArmorLite™
microfilament ground straps

Heavy-duty
metallic braid ground straps

MIL-DTL-24749 Type IV
Qualified navy ground straps

Round braid profile
ground straps

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

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 200°C to 2500°C
- Microfilament stainless steel: 70% lighter than NiCu-A-59569/QB575
- Outstanding EMI/RFI shielding and conductivity
- Aerospace environment qualified
- Superior flexibility and "self-wrapping" resistance
- 90 to 95% optical coverage
- 70,000 psi tensile strength
- Best performing metallic braided shielding

MasterWrap™
ARMORLITE™ SELF-WRAPPING WIRE PROTECTION SAVES TIME AND WEIGHT
SEPTEMBER 2013

**LIGHTWEIGHT
AmberStrand®**
Composite metal-clad EMI/RFI
braided shielding

The smart way to reduce launch and flight weights in aerospace systems

- Metal-clad EMI/RFI shielding with a lightweight composite thermoplastic base material
- Highly conductive surface plating
- Reduce shielding weight up to 80% and more
- Reduce operation costs by permanently reducing launch and aircraft all-up weights
- Superior high frequency shielding compared to standard nickel plated copper
- Exceptional tensile strength: 390,000 psi (min)

BRAIDED GROUND STRAPS
GENERAL DUTY • MIL-SPEC • LIGHTWEIGHT • SPECIALS
OCTOBER 2014

ARMORLITE™ MESH TAPE

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

EMI/RFI Shielding
INDUSTRY-STANDARD • METALLIC

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.

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metallic braid for EMI shielding
fiberglass braid for engine applications

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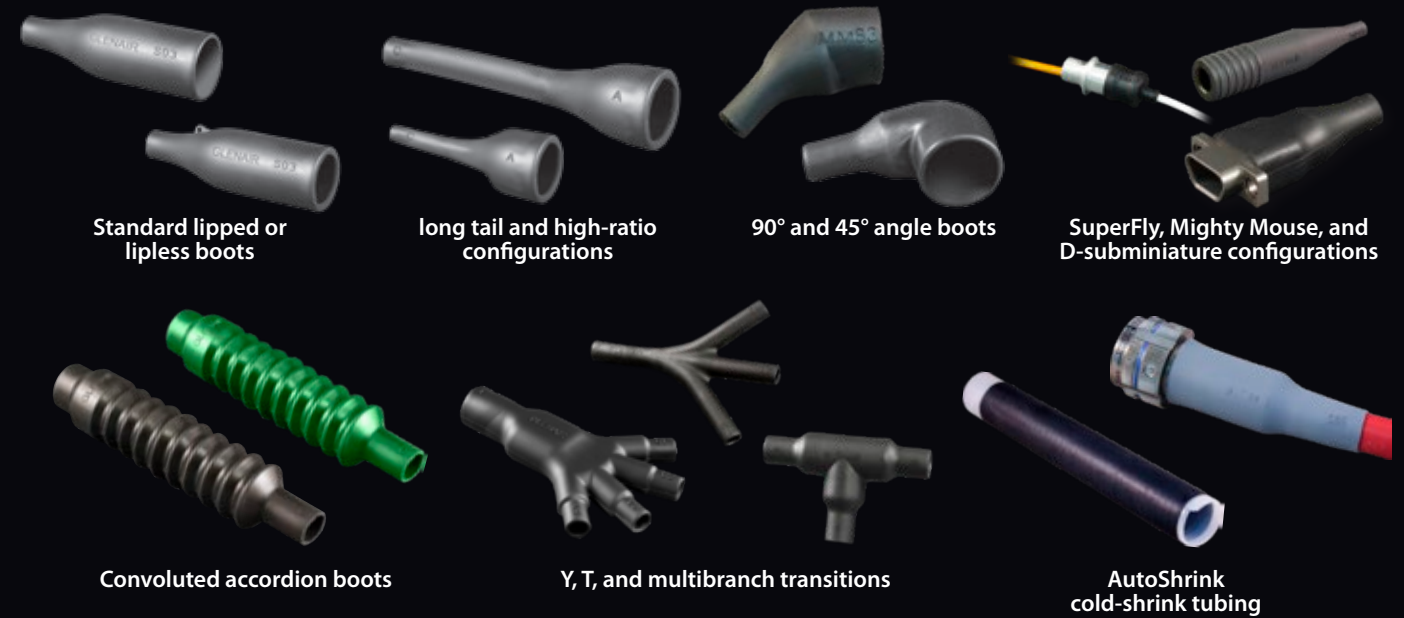
ENVIRONMENTAL

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



Standard lipped or lipless boots

long tail and high-ratio configurations

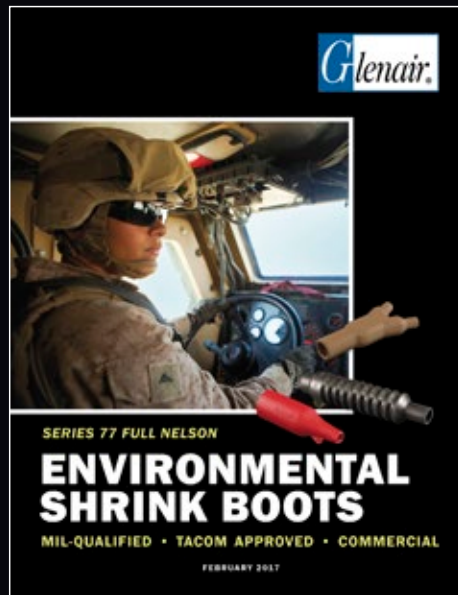
90° and 45° angle boots

SuperFly, Mighty Mouse, and D-subminiature configurations

Convoluted accordion boots

Y, T, and multibranch transitions

AutoShrink cold-shrink tubing



NEW SPACE-GRADE SHRINK BOOTS



Low-outgassing fluoropolymer alloy shrink boots

SELECTED ENVIRONMENTAL SHRINK BOOT COLOR OPTIONS



Olive drab 45° boot

Desert Tan widebody Y transition

Right-angle adapter, purple

4-1 widebody transition, yellow

Green long-tail boot

High-ratio right-angle adapter, grey

Low-profile 3-1 adapter, white

SHRINK BOOT ADAPTERS SELECTION GUIDE



Series 310 Shrink Boot Adapters

Series 311 EMI/RFI Lamp-Base Thread/Boot Adapters

Series 319 Shield Sock/Boot Adapters

Series 440 Band/Boot Adapters

SAE-AS85049 QPL Shrink Boot Adapters

Composite Thermoplastic Band/Boot Adapters

HEAT SHRINK TERMINATION SLEEVES / SPLICES

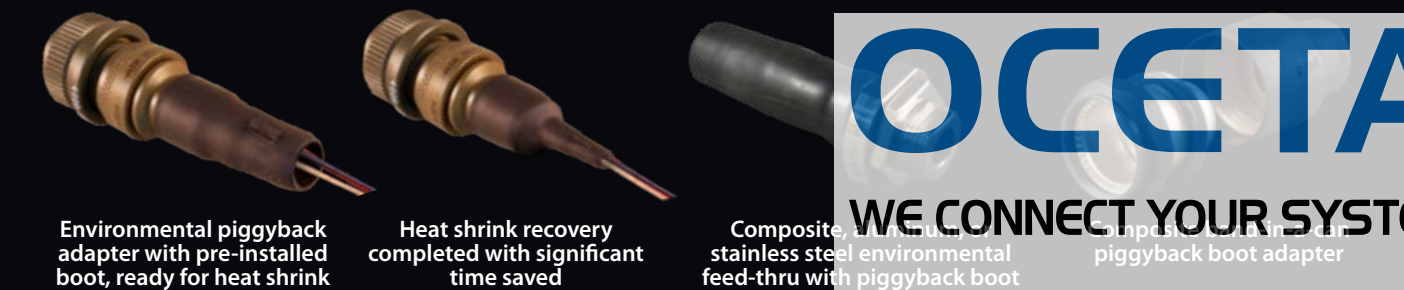


Three sizes of available inline splices

Wired and unwired AS83519/1 and /2 Type heat shrink terminations for EMI shield-to-ground termination applications (note braided versions qualified for lightning strike)

Example rectangular interconnect assembly outfitted with heat shrink termination grounds

PIGGYBACK SHRINK BOOT ADAPTERS



Environmental piggyback adapter with pre-installed boot, ready for heat shrink

Heat shrink recovery completed with significant time saved

Composite, stainless steel environmental feed-thru with piggyback boot

Composite stainless steel piggyback boot adapter

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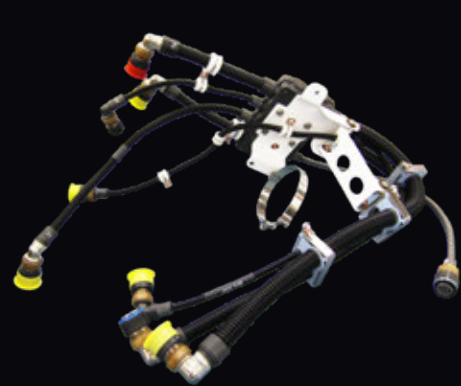
HARSH-ENVIRONMENT

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 Siltem materials

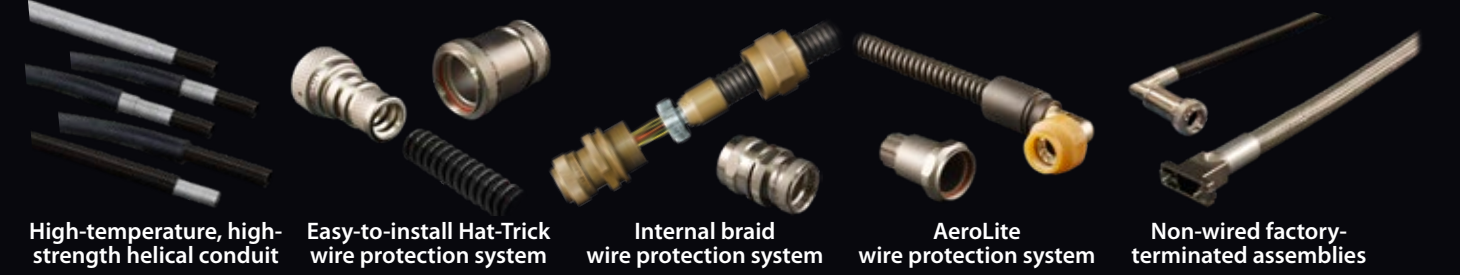
Braided shielding and jacketing options

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

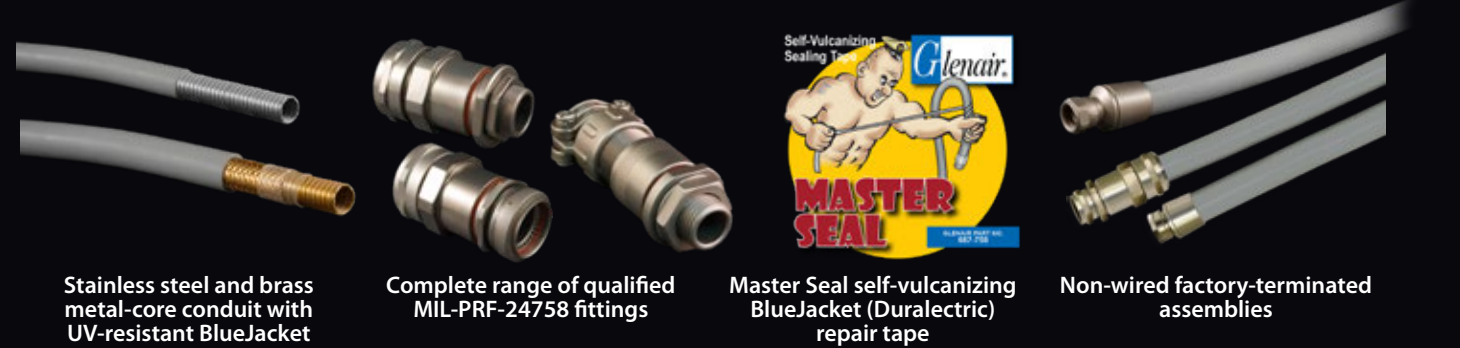
Low-profile RP Plus wire protection system

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

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Special processing color options including Desert Tan
Special processing including drain holes, ovalization and split-entry
www.oceta.shop

INTERCONNECT ASSEMBLY TOOLS

banding · grounding · crimping · mounting · termination · testing



GROUNDCONTROL EARTH BOND



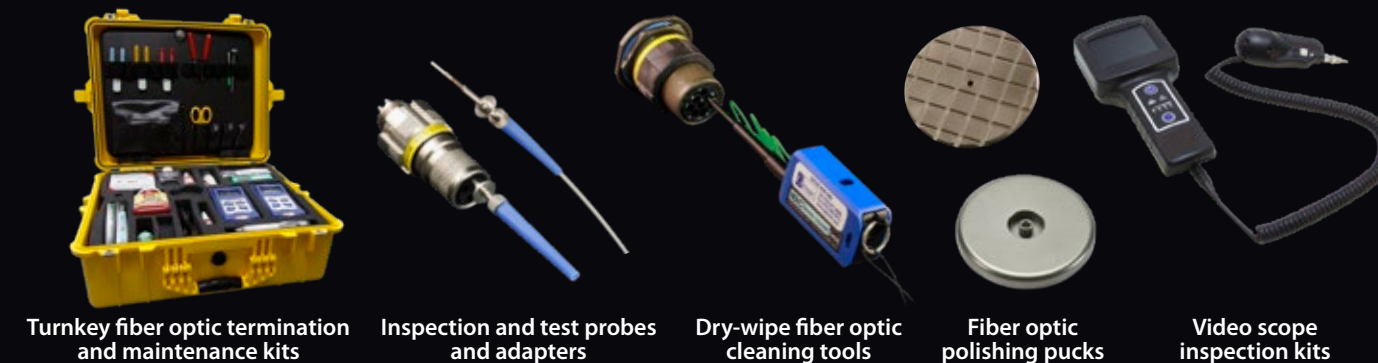
Hydraulic Earth Bond setting tools for aluminum and stainless steel plate

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

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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

1973: BACKSHELLS

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

1988: Glenair launches hermetic connector product series

1994: Glenair launches high-performance fiber optic product line

1999: Glenair introduces the ultra-miniature Mighty Mouse

2005: Glenair launches its EMI/EMP Filter connector line

2006: New ultraminiature crimp-contact rectangular MICROCRIMP®

2010: Glenair invents high-performance Series 970 PowerTrip

2012: Zero length shield termination backshells for rugged EMI/RFI application

2012: the faster 4/8 pole Ethernet solution for rail and mass transit

2012: Super ITS high-performance reverse-bayonet 5015 connectors

2014: El Ochito, the ultimate Ethernet contact

2014: SuperNine® advanced performance 38999 Series III

2015: MIL-DTL-38999 Series III qualification (classes W, F, and G)

2016: SeaKing and SuperG55 subsea connectors

2016: STAR-PAN USB hub / power distribution system

2016: Expanded beam fiber optics



1950: 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

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

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

2012: Glenair launches ruggedized electronics and photonics group

2012: Glenair introduces high-temperature

2013: SuperSeal™ RJ45 and USB ruggedized field connector series

2013: AlphaLink spring-loaded solderless board level interconnect

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

2015: Integrated Flex/PCB capability

2015: MasterWrap lightweight side-entry EMI shielding

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

2019: WellMaster

2020: WE CONNECT YOUR SYSTEM

2020: www.oceta.shop

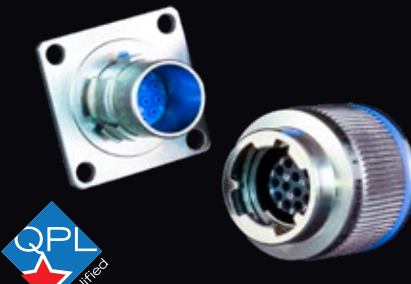
Glenair Mil-Spec Interconnect Technologies



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



MIL-DTL-38999 Series III environmental connectors



MIL-DTL-38999 Series IV environmental connectors



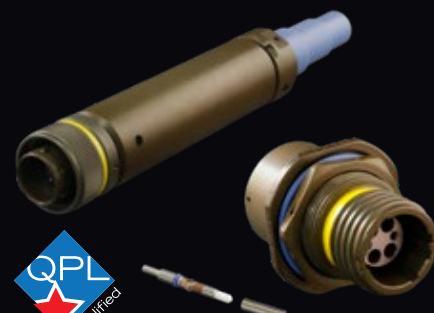
MIL-DTL-28840 shipboard connectors and accessories



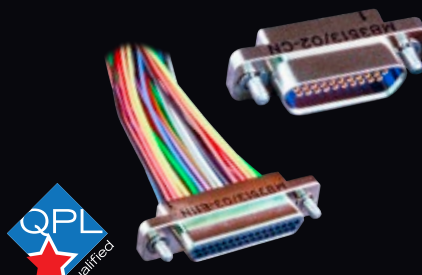
MIL-DTL-38999 Series I, II, III, and IV hermetic connectors



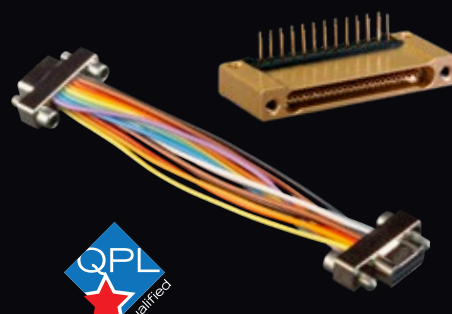
MIL-DTL-24308 hermetic connectors



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) and AS39029 (electrical) contacts



M85049 (AS85049) backshells and connector accessories



MIL-DTL-83723 backshells and connector accessories



M81511 (AS81511) protective covers and connector accessories



M85049/140 series qualified / TACOM-approved environmental shrink boots



MIL-PRF-24758 Navsea-qualified conduit and fittings



M85049 composite backshells and covers for MIL-DTL-38999



COMMITMENT TO QUALITY

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

- Lightning-fast turnarounds on quotes and special orders
- Worldwide sales and technical support in every major market
- Full-spectrum, “no gap” product lines
- No dollar or quantity minimums

- ISO 9001:2008 and AS9100:2009 quality
- Huge same-day shipment inventory
- Generous NRE, RMA, and sample request policies
- Abundant engineering and technical support
- No attitudinal constraints when it comes to customer convenience and service

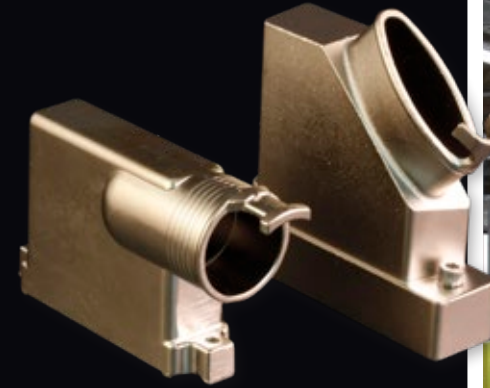


Glenair Factory Tour

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



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



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



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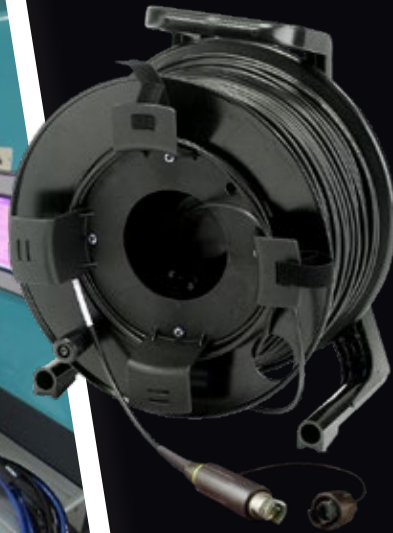
Glenair Factory Tour

GLENDALE, CALIFORNIA

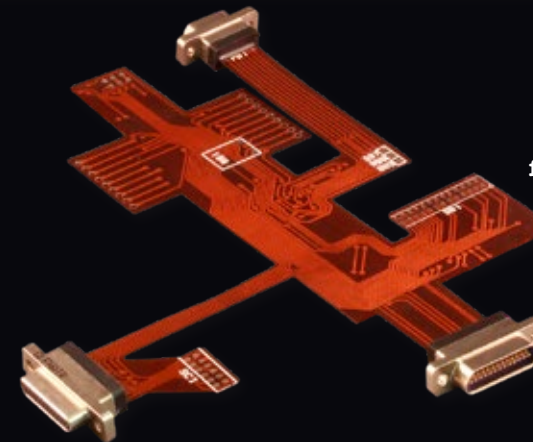
Complete vertical integration of manufacturing resources—at home in Southern California since 1956



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



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



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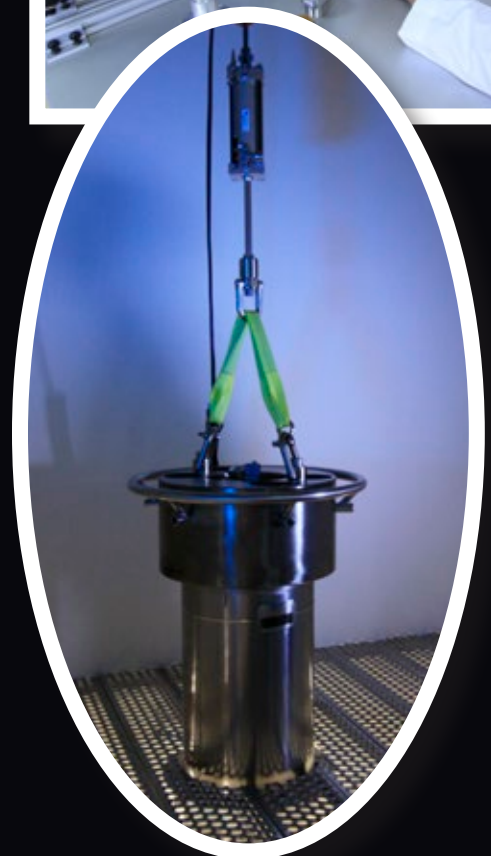
Glenair Factory Tour

GLENDALE, CALIFORNIA

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



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

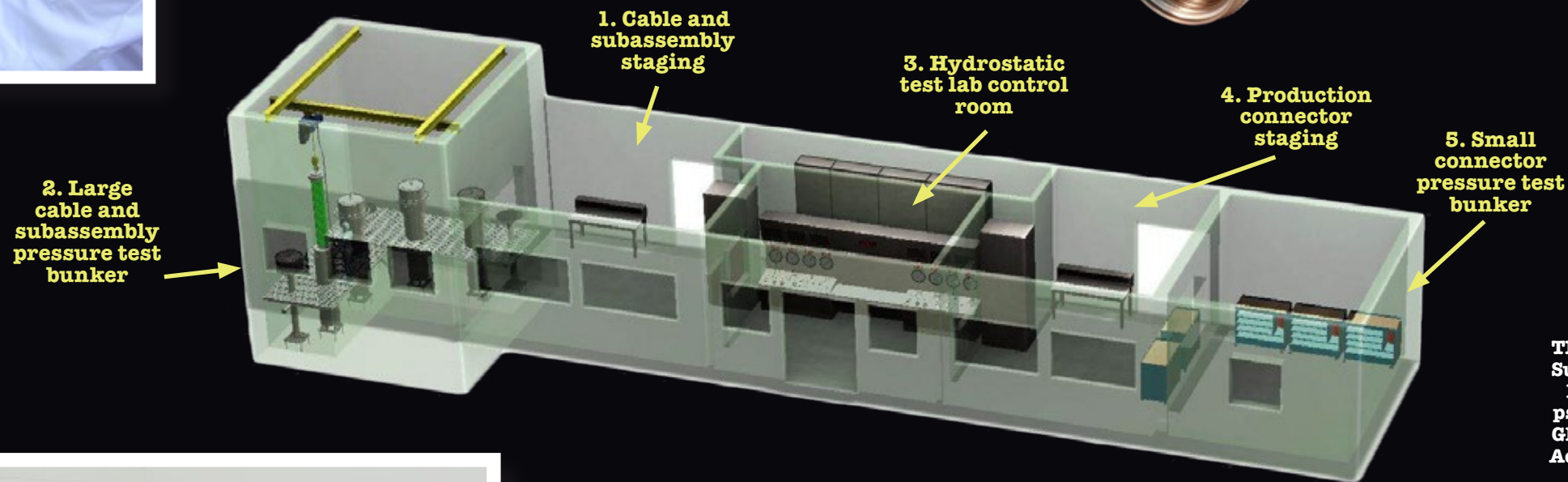


LARGE PRESSURE VESSELS: Built to accommodate complete cable assemblies, mated connectors, and customer-supplied subassemblies



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

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



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



Glenair Hydrostatic Test Lab Technical Specifications and Pressure Test Standards	
Pressure test profiles	Automated or manual
Maximum test pressure	16.5K psi
Data acquisition types	Pressure, time, temperature, and electrical performance
Performance monitoring under pressure	I/R, continuity, insertion loss, and backreflection (optical)
Industry profiles	All major oil & gas standards
Custom profiles	Yes, including customer-supplied subassemblies
Capacity (large pressure vessels)	12" diameter x 72" depth; Test specimen weight up to 1500 lbs.

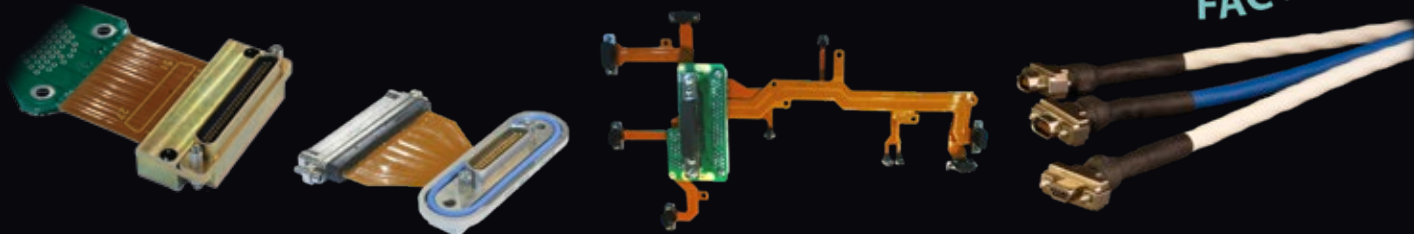
Glenair Factory Tour

MANSFIELD, ENGLAND

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



MICRO AND NANOMINIATURE HARNESS AND FLEX ASSEMBLIES



Terminated and tested flexi and rigid flexi point-to-point assemblies with Glenair Micro and Nano interconnects

Complex multibranch flexi and rigid flexi assembly with Glenair Micro and Nano interconnects

Micro and Nano wired harnesses and pigtails

MOULDED ENVIRONMENTAL INTERCONNECT COMPONENTS AND COMPLEX ASSEMBLIES

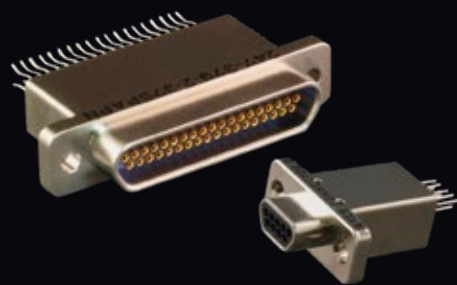


In-house moulded shrink boots and multibranch cable transitions

Color-coded overmoulded power and signal cable assemblies

Complex integrated Micro assemblies with machined chassis

MWDM MICRO CONNECTORS



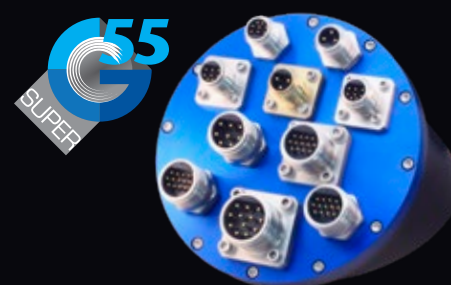
ESCC series Micro connectors for ESA space and other UK and EU markets

TOOLING



Complete range of interconnect tooling including GroundControl Earth Bond system

SUPERG55 SUBSEA



Oil & Gas industry subsea connector series



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

Micro-D and Nanominiature harnessing is completed in our ISO 9001:2008 and BS EN 9100:2003, BS EN 9120:2005 certified facility



The Glenair Mansfield clean room assembly area is used for fabrication of laser, space, and satellite assemblies IAW ISO Class 8 -100,000 PPM



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



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Glenair Factory Tour

BOLOGNA, ITALY

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



SUPER ITS™ HIGH-PERFORMANCE REVERSE BAYONET



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

ITS-Ex HAZARDOUS ZONE CONNECTORS



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

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



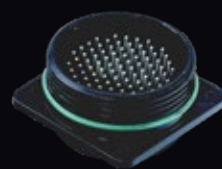
Series ITS reverse-bayonet



Series ITH rigid insert



Series IT threaded coupling



Series ITZ triple-start coupling



Series ITK high-temperature ceramic insert

OCTOBYTE SERIES RUGGEDIZED ETHERNET CONNECTOR

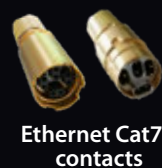
HIGH-VOLTAGE POWER



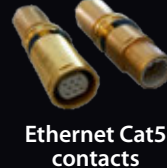
Tested for compliance according to EN50173-1 standards for CAT5E and CAT7



Series IRT rectangular multipole high voltage traction motor connectors



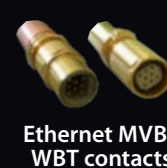
Ethernet Cat7A contacts



Ethernet Cat5 contacts



Coax contacts



Ethernet MVB-WBT contacts

Total vertical integration includes in-house contact fabrication



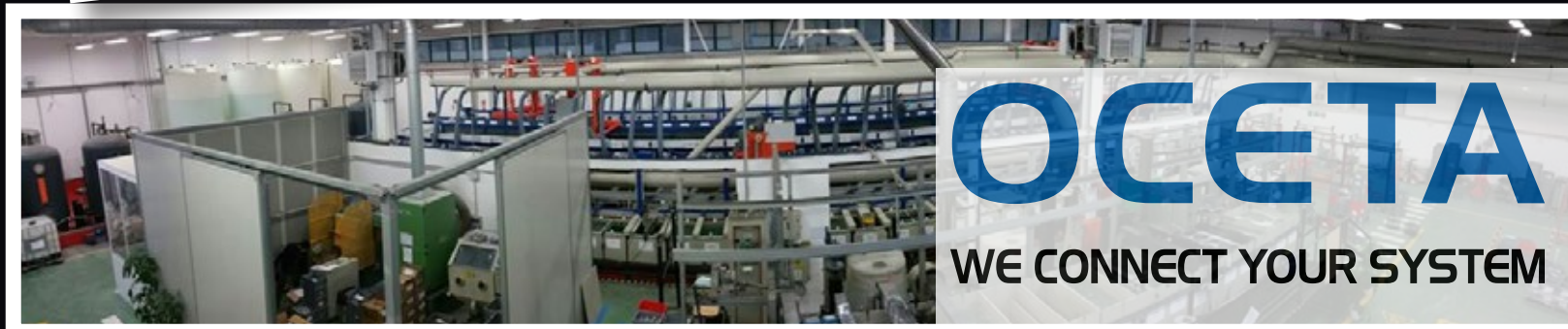
In-house injection molding (far left) and resilient insert processing (left) provides Glenair Italia with all the resources required to fabricate interconnect technologies from scratch without dependence on outside suppliers



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



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



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MISSION-CRITICAL INTERCONNECT SOLUTIONS

Glenair, Inc.

1211 Air Way • Glendale, California • 91201-2497

Telephone: 818-247-6000 • Fax: 818-500-9912 • sales@glenair.com

www.glenair.com

Glenair Power Products Group

20 Sterling Drive
Wallingford, CT
06492

Telephone:
203-741-1115
Facsimile:
203-741-0053
sales@glenair.com

Glenair UK Ltd

40 Lower Oakham Way
Oakham Business Park
Mansfield, Notts
NG18 5BY England

Telephone:
+44-1623-638100
Facsimile:
+44-1623-638111
sales@glenair.co.uk

Glenair Microway Systems

7000 North Lawndale Avenue
Lincolnwood, IL
60712

Telephone:
847-679-8833
Facsimile:
847-679-8849

Glenair Nordic AB

Gustav III : S Boulevard 46
SE-169 27 Solna
Sweden

Telephone:
+46-8-50550000
sales@glenair.se

Glenair GmbH

Schaberweg 28
61348 Bad Homburg
Germany

Telephone:
06172 / 68 16 0
Facsimile:
06172 / 68 16 90
info@glenair.de

Glenair Iberica

C/ La Vega, 16
45612 Velada
Spain

Telephone:
+34-925-89-29-88
Facsimile:
+34-925-89-29-87
sales@glenair.es

Glenair Italia S.p.A.

Via Del Lavoro, 7
40057 Quarto Inferiore –
Granarolo dell'Emilia
Bologna, Italy

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

Glenair France SARL

7, Avenue Parmentier
Immeuble Central Parc #2
31200 Toulouse
France

Telephone:
+33-5-34-40-97-40
Facsimile:
+33-5-61-47-86-10
sales@glenair.fr

Glenair Korea

B-1304 Gunpo IT Valley
148 Gosan-Ro, Gunpo-Si
Kyunggi-Do, Korea
435-733

Telephone:
+82-31-8068-1090
Facsimile:
+82-31-8068-1092
sales@glenair.kr

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