



MISSION-CRITICAL
**INTERCONNECT
SOLUTIONS**



Glenair
SIGNATURE SERIES



Missile and Collaborative Combat System Interconnect Solutions

Connectors and Assemblies for Autonomous Battlespace
Applications: Land, Sea, Air, Subsea, Subterra, and Space

OCTOBER 2026



Missile and Collaborative Combat System Interconnect Solutions



Signature Connectors, Cables, and Assemblies for the Joint All-Domain Command and Control (JADC2) Battlespace

TURNKEY INTERCONNECT ASSEMBLIES WITH GLENAIR SIGNATURE WIRE AND CABLE

Complex cable and conduit wire protection assemblies

Integrated flex / rigid flex PCB circuit assemblies

Aerospace-grade fiber optic interconnect assemblies

Turnkey RF and high-speed interconnect assemblies

SeaKing high-pressure rated subsea overmolded and PBOF assemblies

RUGGED CONNECTORS FOR HIGH-POWER AND HIGH-FREQUENCY APPLICATIONS

MotorHead™ low-profile, high-durability power connector with low-labor-cost assembly

PowerTrip® harsh-environment connectors for rugged mil-aero applications

PowerPlay™ lightweight, high-density, safe-touch connectors and cables

Lightweight / ultra-flexible TurboFlex HV cable

INTERCONNECT TECHNOLOGY FOR ELECTROMAGNETIC COMPATIBILITY

EMI/RFI filters and EMP transient voltage suppression

EMI-immune fiber optic connectors and cables

ArmorLite™ lightweight braided shielding and grounding solutions

Band-Master ATS® advanced shield termination system

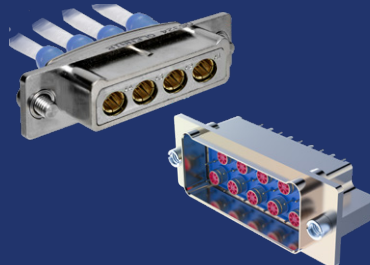
SMALL FORM-FACTOR INTERCONNECTS FOR SIZE AND WEIGHT REDUCTION



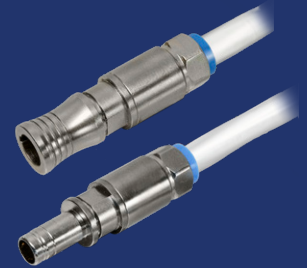
Series 806 Mil-Aero micro miniature (shown here with El Ochito® high-speed contacts)



Series 800 Mighty Mouse: the new industry-standard SWaP solution

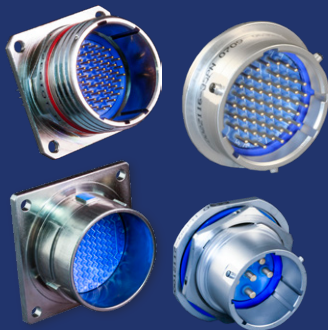


Series 791™ / 792™ crimp-contact high-density rectangular



SuperFly® Datalink nano high-speed

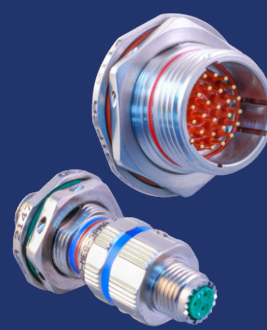
HARSH ENVIRONMENTAL AEROSPACE AND MISSILE LAUNCH CONNECTORS



SuperNine® "Better than QPL" Series I and II bayonet, Series III triple-start, and Series IV breech-lock



Glass- and lightweight encapsulant-seal hermetics

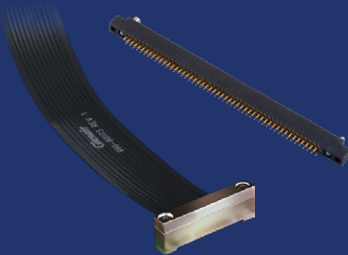


ThermaRex™ HT and Cryo temperature-tolerant connectors



Fire control, umbilical, rocket and missile launch interconnects

HIGH-DENSITY RECTANGULAR CABLE, BOARD, AND BACKPLANE CONNECTORS



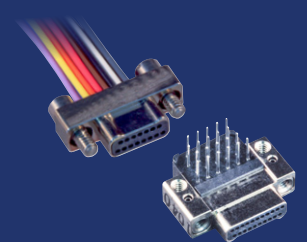
MIL-DTL-55302 (hyperboloid) and Series 171 AlphaLink (spring-pin) PCB connectors



Backplane solutions: VITA standard RF and fiber plus brush contact LRM connectors



HD Stacker™ high-density board-to-board



Micro-D and Nano I/O and board connectors

INNOVATIVE WIRE PROTECTION CONNECTOR ACCESSORIES



ProSeal™ spring-action protective covers

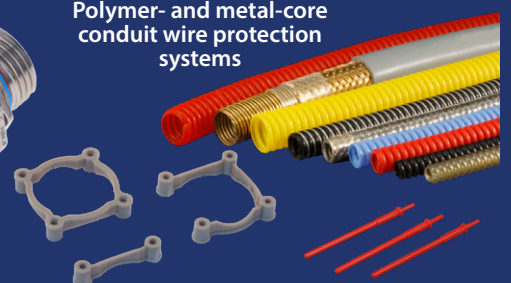


Swing-Arm™ and Swing-Arm FLEX™ strain relief clamps



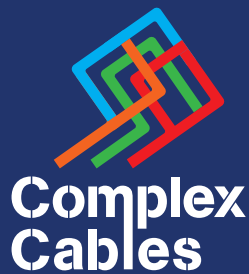
SplayMaster™ high-speed and RF alignment backshells

Polymer- and metal-core conduit wire protection systems



Lightweight composite nut plates and Super DCSPs

TURNKEY
INTERCONNECT
ASSEMBLIES
WITH GLENAIR
SIGNATURE WIRE
AND CABLE



MIL★STAR
HIGH-PERFORMANCE HOOKUP WIRE AND CABLE

**Glenair Turnkey Cable and
Conduit Assemblies for
Autonomous Combat Systems**



MIL★STAR
HIGH-PERFORMANCE HOOKUP WIRE AND CABLE

AEROSPACE-GRADE
SuperFlex
PCB/FLEX CIRCUIT ASSEMBLIES

SpeedLine
Controlled-Impedance Cables

BLUMARK **RF**
COAX CABLES

FIBER KING
FIBER OPTIC CABLES

turboflex
THE ULTRA FLEXIBLE RUGGED POWER CABLE

Glenair is laser-focused on supplying military, aerospace, and defense customers with accelerated lead-time requirements with harsh-environment interconnect assemblies built from stock with Glenair signature wire and cable.



Supplied in bulk—any length, with no minimum order quantity—or in fully-integrated and connectorized assemblies, Glenair wire and cable brands are optimized for the highest performance in mil-aero / defense applications.

FAST DELIVERY AND QUALITY SINCE 1956

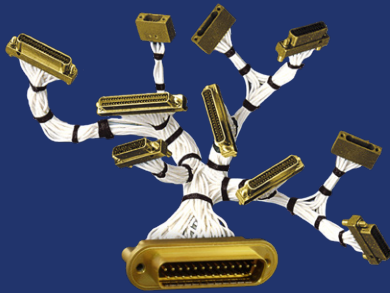
- 3.5 million square feet factory capacity
- Mission-critical sea, air, land, and space interconnect product focus
- Vertically-integrated, all key processes controlled in-house
- Massive inventory of material, component parts, and finished goods
- Glenair worldwide QMS: AS9100D SAE / ISO 9001 certified, and customer-audited

MADE IN USA, ITALY, ENGLAND, AND GERMANY Turnkey Military Aerospace Power and Signal Cable and Conduit Assemblies

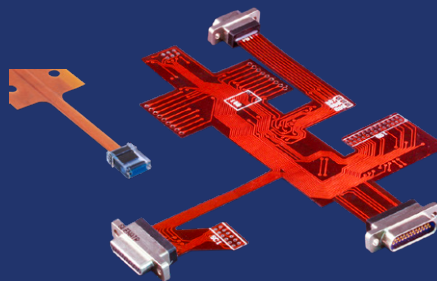


HIGH-SPEED, HIGH-FREQUENCY, HIGH-POWER • ELECTRICAL, OPTICAL, RF, AND FLEX
Built with Glenair Signature interconnect components

HIGH-SPEED, HIGH-FREQUENCY, HIGH-POWER • ELECTRICAL, OPTICAL, RF, AND FLEX



MIL-STAR™ "better-than-QPL" sensor / control wired interconnect assemblies



SuperFlex™ integrated PCB flex, rigid flex, and optical flex circuit assemblies



SpeedLine™ high-speed controlled-impedance multichannel assemblies



BluMark RF™ high-frequency, coax assemblies with G-LinkRF SMA-to-BMB adapters



FiberKing™ harsh-environment and inside-the-box optical assemblies



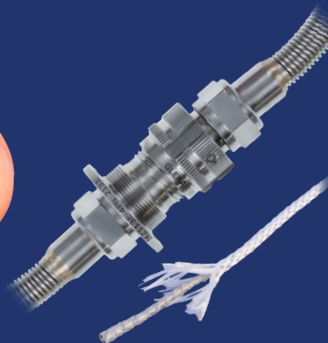
TurboFlex® high-power, high-voltage, high-flexibility cable assemblies

SPECIALTY ENVIRONMENTAL ASSEMBLIES BUILT WITH GLENAIR SIGNATURE WIRE AND CABLE

In addition to conventional land, sea, air, and space interconnect assemblies with overbraiding and overmolding, Glenair is able to supply all of our signature wire and cable brands in specialty harness designs optimized for ultra-harsh environments including high-pressure subsurface and subsea, high-heat and cryogenics, and space.



High-pressure rated subsea (Mil-qualified and COTS) 10K PSI electrical and optical cable assemblies



High Temperature and Cryogenic (ThermaRex™) wired cable assemblies



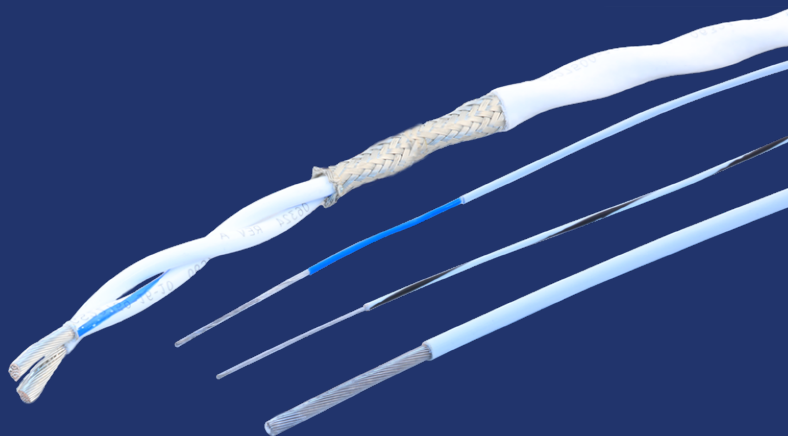
Pure Air / Gas Tube assemblies for high-pressure cooling actuation



Space-grade EMI shielded and open-wire bundle assemblies built in ISO 8 and ISO 6 clean rooms

MIL-STAR™

GS22759 AEROSPACE-GRADE WIRE



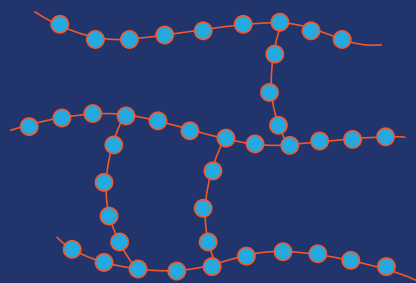
MIL-STAR aerospace-grade hookup wire is fabricated in accordance with SAE AS22759 and AS27500 specifications. Complete baseline qualification test reports are available for all wire types as well as batch testing documentation on every production run.

GLENAIR MIL-STAR™ GS22759 HOOKUP WIRE

Glenair MIL-STAR GS22759 hookup wire is built from the ground up for purity, precision, and performance. Each conductor is precision-drawn from high-purity copper to ensure consistent electrical and mechanical characteristics. Jacket material is formulated for optimal strength, heat resistance, and life-of-system durability.

CROSS-LINKING ETFE FOR IMPROVED STRENGTH AND SERVICE LIFE

Electron-beam crosslinking (XL) of ETFE insulation enhances the material's performance by creating a three-dimensional polymer network that remains stable under demanding operating conditions. The crosslinked structure delivers significantly improved thermal stability and increased resistance to chemicals and solvents, making the insulation more robust in harsh environments. Mechanical strength is also elevated as the polymer becomes less prone to deformation or creep under load. Additionally, XL-ETFE retains excellent surface characteristics for laser marking, enabling permanent, high-contrast identification. Collectively, these benefits contribute to a longer overall service life for the insulated wire, particularly in aerospace and other mission-critical applications.



LOW-FLUORIDE XL-ETFE FOR WHITE PLAGUE MITIGATION

Low-fluoride XL-ETFE insulation for SAE AS22759 wire is engineered to neutralize HF generated during crosslinking process, thereby reducing corrosion potential of surrounding metallic structures including electronics. Manufacturing begins with carefully-formulated ETFE resin that incorporates stabilizers and HF-scavenging additives. The base ETFE is melt-extruded onto the conductor under controlled temperature and shear conditions to limit fluoropolymer degradation. These additives and processes enhance crosslinking / minimize chain scission and neutralize HF generated. During the subsequent electron-beam crosslinking step, the formulation chemistry ensures that crosslinking is favored over chain breakdown, keeping fluoride generation to extremely low levels. The result is a robust, thermally stable XL-ETFE insulation system that meets the demanding electrical, mechanical, and chemical-resistance requirements of AS22759 while significantly reducing the potential for fluoride-related conductor corrosion.

HIGH-AVAILABILITY · NO MOQ

MIL-STAR Hookup Wire for Aerospace-Grade Harness Assemblies



IAW SAE AS22759 batch testing and documentation

MIL-STAR GS22759 WIRE SELECTION GUIDES

MIL-STAR™ ORDER NUMBER	CONDUCTOR	PLATING	INSULATION	INSULATION WEIGHT	AVAILABLE WIRE SIZES	TEMPERATURE RATING
GS22759-16	Copper	Tin	ETFE	Medium	24, 22, 20, 18, 16, 14, 12, 10, 8	150°C
GS22759-17	High-Strength Copper Alloy	Silver	ETFE	Medium	26, 24, 22, 20	150°C
GS22759-18	Copper	Tin	ETFE	Light	24, 22, 20, 18, 16, 14, 12, 10	150°C
GS22759-19	High-Strength Copper Alloy	Silver	ETFE	Light	26, 24, 22, 20	150°C
GS22759-32	Copper	Tin	XL-ETFE	Light	30, 28, 26, 24, 22, 20, 18, 16, 14, 12	150°C
GS22759-33	High-Strength Copper Alloy	Silver	XL-ETFE	Light	30, 28, 26, 24, 22, 20	200°C
GS22759-34	Copper	Tin	XL-ETFE	Normal (Dual-Wall)	24, 22, 20, 18, 16, 14, 12, 10, 8	150°C
GS22759-35	High-Strength Copper Alloy	Silver	XL-ETFE	Normal (Dual-Wall)	26, 24, 22, 20	200°C
GS22759-41	Copper	Nickel	XL-ETFE	Normal (Dual-Wall)	26, 24, 22, 20, 18, 16, 14, 12, 10, 8	200°C
GS22759-42	High-Strength Copper Alloy	Nickel	XL-ETFE	Normal (Dual-Wall)	26, 24, 22, 20	200°C
GS22759-43	Copper	Silver	XL-ETFE	Normal (Dual-Wall)	26, 24, 22, 20, 18, 16, 14, 12, 10, 8	200°C
GS22759-44	Copper	Silver	XL-ETFE	Light	28, 26, 24, 22, 20, 18, 16, 14, 12	200°C
GS22759-45	Copper	Nickel	XL-ETFE	Light	28, 26, 24, 22, 20, 18, 16, 14, 12	200°C
GS22759-46	High-Strength Copper Alloy	Nickel	XL-ETFE	Light	28, 26, 24, 22, 20	200°C
GS22759-51	High-Strength Copper Alloy	Silver	XL-ETFE Low-fluoride	Light	30, 28, 26, 24, 22, 20	200°C
GS22759-52	Copper	Silver	XL-ETFE Low-fluoride	Light	30, 28, 26, 24, 22, 20, 18, 16, 14, 12	200°C
GS22759-53	High-Strength Copper Alloy	Silver	XL-ETFE Low-fluoride	Normal (Dual-Wall)	30, 28, 26, 24, 22, 20	200°C
GS22759-54	Copper	Silver	XL-ETFE Low-fluoride	Normal (Dual-Wall)	30, 28, 26, 24, 22, 20	200°C
GS22759-55	Extra High-Strength Copper Alloy	Silver	XL-ETFE	Light	30, 28, 26, 24, 22, 20	200°C
GS22759-58	Extra High-Strength Copper Alloy	Nickel	XL-ETFE	Light	30, 28, 26, 24, 22, 20	200°C

Conductor Material	Plating	NON-CROSSLINKED ETFE		CROSSLINKED ETFE		LOW FLUORIDE XL-ETFE	
		Medium Weight	Light Weight	Normal Weight	Light Weight	Normal Weight	Light Weight
Soft Copper	Tin	GS22759-16	GS22759-18	GS22759-34	GS22759-32	—	—
	Silver	GS22759-17	GS22759-19	GS22759-43	GS22759-44	GS22759-54	GS22759-52
	Nickel	—	—	GS22759-41	GS22759-45	—	—
High-Strength Copper Alloy	Silver	—	—	GS22759-35	GS22759-33	GS22759-53	GS22759-51
	Nickel	—	—	GS22759-42	GS22759-46	—	—

80 MICRORINCH SILVER CONDUCTOR PLATING FOR RED PLAGUE MITIGATION

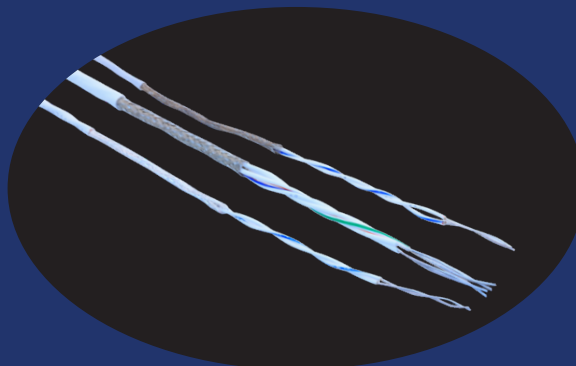
Red plague is a corrosion phenomenon that occurs in silver-plated copper conductors when the silver layer is damaged or porous enough to expose the underlying copper. In the presence of moisture and oxygen, galvanic action between the noble silver and the more active copper accelerates corrosion. The exposed copper oxidizes to form cuprous oxide (red) and—when more oxygen is present—cupric oxide (black). These corrosion products migrate to the silver surface and become visible as “red plague.” This degradation progressively reduces both the electrical conductivity and the mechanical integrity of the conductor. Thin silver coatings below about 1 μm (≈ 40 μin), are more easily compromised during manufacturing and handling, increasing susceptibility to red plague. Using thicker 2 μm (≈ 80 μin) silver plating significantly reduces the likelihood of red plague formation.

MIL•STAR™

GS27500 MULTI-CONDUCTOR CABLE

Glenair MIL-STAR multi-conductor 27500 type cables are built from in-house manufactured GS22759 hookup wire, available with industry qualification as well as Glenair GS signature part numbering. GS27500 constructions for shielded and unshielded cable are:

- Made and tested IAW ANSI/NEMA WC 27500
- 1–5 hook-up wires
- Insulation types including crosslinked ETFE
- Industry-standard and weight-saving Glenair signature shielding materials
- Standard and signature jacket compounds

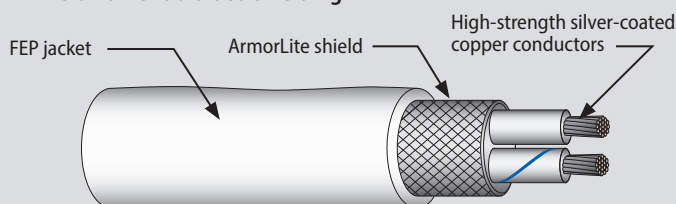


MIL-STAR™ 27500 MULTI-CONDUCTOR CABLES

ANSI/NEMA WC 27500 and Glenair signature multi-conductor cables. Each series supports M22759-16 thru -46 wire types with wire count, gauge, shield, and jacket options as allowed.

968-001

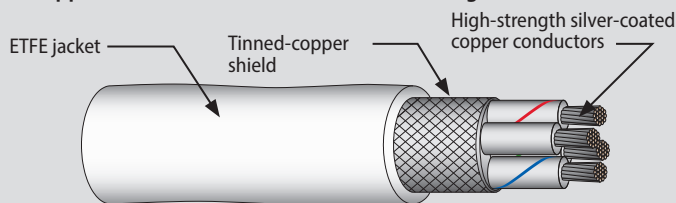
- 27500 type with ArmorLite or AmberStrand lightweight microfilament braided shielding



MIL-STAR GS27500 cables may be specified with signature braided shielding including ArmorLite, ArmorLite CF, and AmberStrand. The ability to supply 27500 type cable in accordance with the ANSI/NEMA standard but optimized for SWaP with lighter weight ArmorLite and AmberStrand shielding is a unique Glenair-only capability.

GS27500

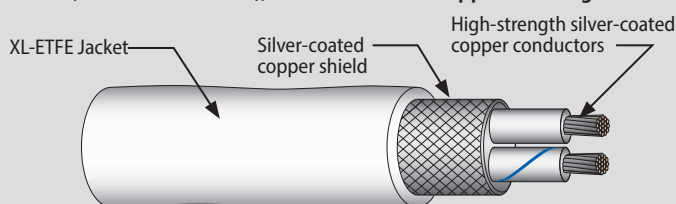
- 27500 type with GS22759-17 wire (silver-plated high-strength copper wire, ETFE insulation), and TC shielding.



This configuration of multi-conductor GS27500 cable is built with GS22759 dash 17 inner wires: silver-plated high-strength copper wire with ETFE insulation. The cable is equipped with an overall tinned-copper EMI/RFI shield and standard fluoropolymer ETFE outer jacket. The superior mechanical properties of high-strength conductors contribute to the overall safety, reliability, and mechanical strength of the cable.

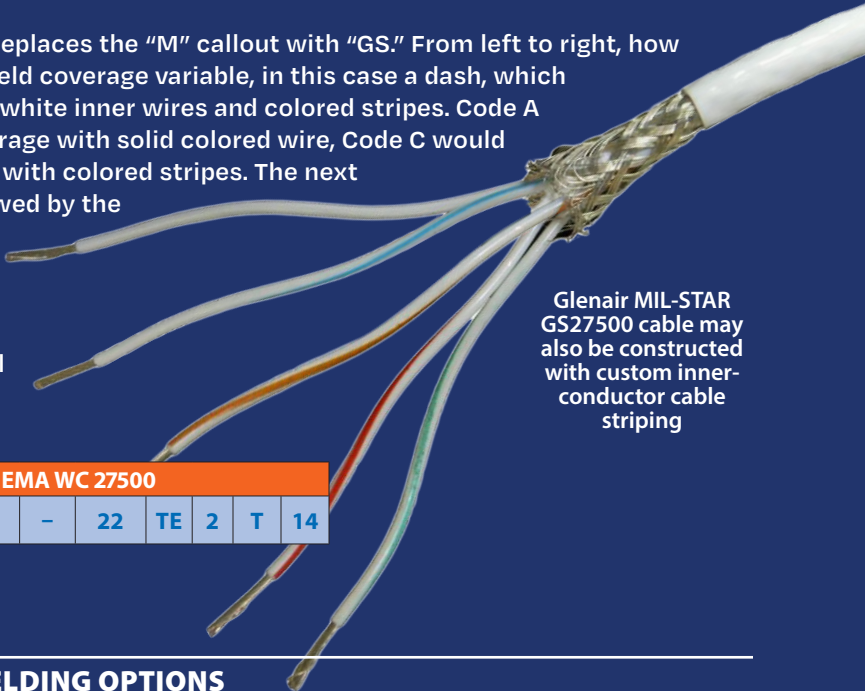
GS27500

- 27500 type with GS22759-33 wire (silver-plated high-strength copper wire, XL-ETFE insulation), and silver-coated copper shielding.



This cross-linked configuration of multi-conductor GS27500 cable is built with GS22759 type dash 33 inner wires: silver-plated high-strength copper wire with cross-linked XL-ETFE insulation. Cable is equipped with an overall silver-plated EMI/RFI shield and cross-linked XL-ETFE outer jacket. This multi-conductor 27500 type cable delivers far superior thermal stability, enhanced chemical resistance, mechanical strength, and electrical properties compared to non-crosslinked versions.

MIL-STAR GS27500 cable part numbering replaces the “M” callout with “GS.” From left to right, how to order variables begin with the color code and shield coverage variable, in this case a dash, which indicates default 85% overall shield coverage, with white inner wires and colored stripes. Code A used in this position would denote 85% shield coverage with solid colored wire, Code C would denote 90% shield coverage with white inner wires with colored stripes. The next variable, 22 in our example, is conductor size, followed by the base wire specification (TE) indicating GS22759-16 wire is to be used in this cable buildup. Final variables include the number of inner wire conductors (2), type of overall shielding (T, for Tinned Copper), and finally jacketing material (14, indicating extruded ETFE in white).



Glenair MIL-STAR GS27500 cable may also be constructed with custom inner-conductor cable striping

Multi-conductor M27500 type IAW ANSI/NEMA WC 27500							
MIL-STAR Cable Sample Part Number	GS27500	-	22	TE	2	T	14

BETTER-THAN-QPL MIL-STAR GSS27500 SHIELDING OPTIONS

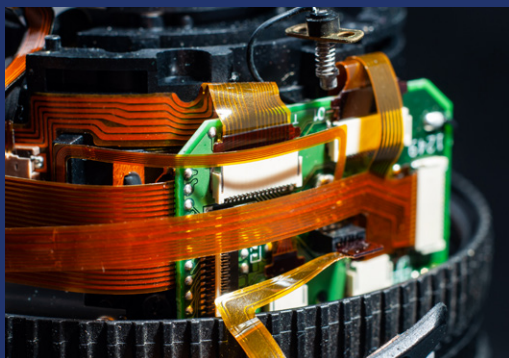
Glenair signature lightweight braided cable shield solutions include single and double layers of metal-clad composite microfilament AmberStrand®, microfilament nickel-clad stainless steel ArmorLite™, and ArmorLite™ CF corrosion-resistant. Utilization of ArmorLite microfilament braid results in up to 78% weight savings versus industry-standard nickel-copper braid.

MIL-STAR GS27500 Shielding Options		
Single Shield Code	Double Shield Code	Shield Description
AM	AS	AmberStrand®, Round
AR	AL	ArmorLite™, Round
AC	AF	ArmorLite™ CF, Round
U	U	Unshielded



AEROSPACE-GRADE SuperFlex™ PCB/FLEX CIRCUIT ASSEMBLIES

Turnkey connectorized flex and rigid flex interconnect assemblies—electrical and optical—incorporating Glenair-made circular and rectangular PC-tail connectors—terminated, tested, and ready for immediate use.

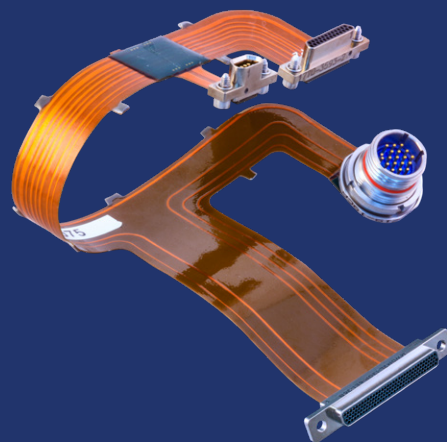


Glenair SuperFlex are PCB / flex interconnect assemblies, produced 100% in-house by Glenair utilizing our own high-performance range of printed circuit board connectors. Typical SuperFlex assemblies are I/O-to-board format solutions designed for optimal size, weight, and routing.

In many applications, Glenair flex and rigid-flex interconnect

circuits are superior to conventional wiring as they can be easily routed in three dimensions, are lighter and smaller than discrete wires, and offer virtually unlimited flex cycles in articulated applications.

Compared with conventional wiring, compact, flexible SuperFlex printed circuit assemblies reduce system complexity and assembly time as well as enhance reliability. Due to their low mass and high circuit density, SuperFlex assemblies are less susceptible to impact and vibration damage than conventional wire harness assemblies, making them an ideal choice in missile and other reduced form-factor applications. Shielding, strain relief, as well as single- and double-sided designs are standard features.



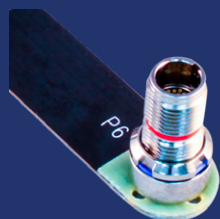
IPC 6012/6013 Class I, II, III,
Types 1-4 Certified Production

Glenair recommends commercial customers specify IPC-6012/6013 standards of workmanship, which are fully supported by Glenair. Military customers may alternatively cite specifications IAW MIL-PRF-31032.

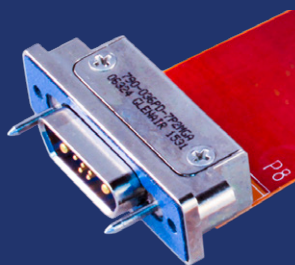
GLENAIR SIGNATURE PC-TAIL CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES



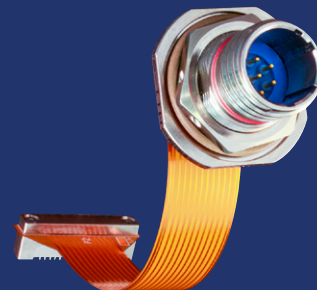
Series MWD Micro-D and
spring-contact AlphaLink



Series 88
SuperFly

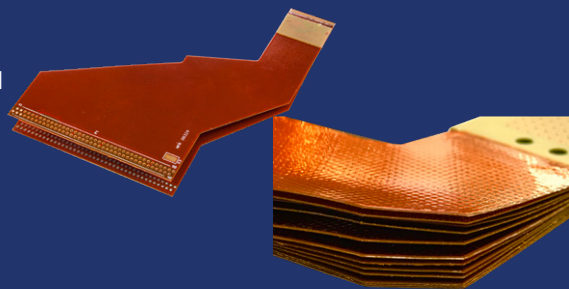


Series 79
Micro-Crimp



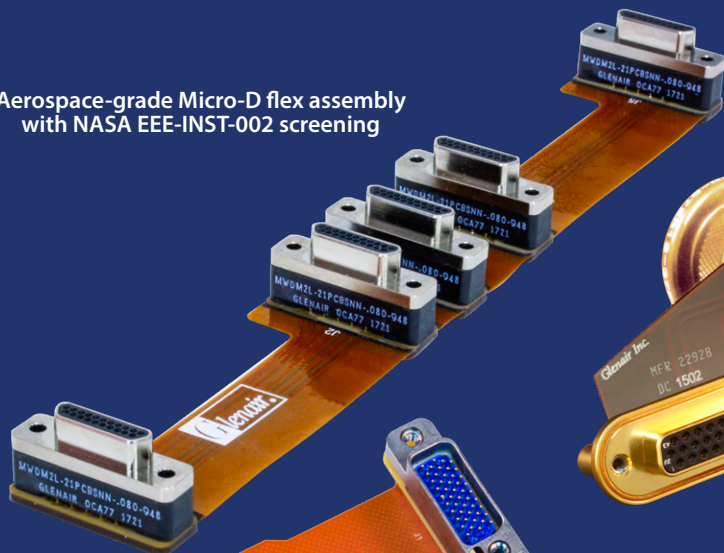
SuperNine MIL-DTL-38999 type flex
with board connector

Glenair SuperFlex turnkey connectorized flex and rigid flex interconnect assemblies incorporate our in-house flex circuit fabrication and innovation. All SuperFlex assemblies are optimized with ground planes and shields, strain relief features, mounting points for improved resistance to vibration and shock, and are available in multi-layer and double-sided configurations. All terminations backpotted for compliance with conformal coating processes. Optical and electrical solutions available. Special long-length assemblies up to 78 inches.



MULTIBRANCH SUPERFLEX ASSEMBLIES WITH GLENAIR SIGNATURE CONNECTORS

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



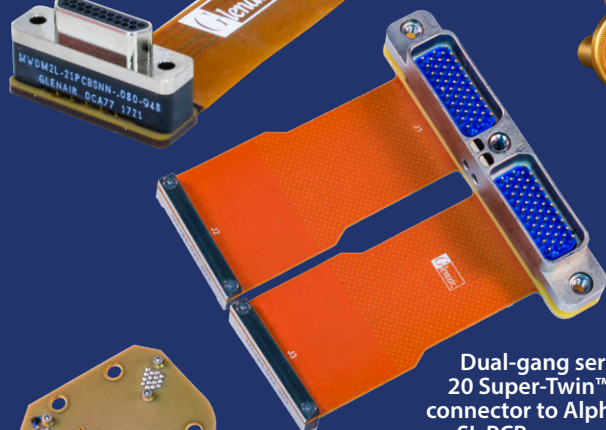
High-shock matched-impedance Mighty Mouse assembly with flex circuit



Aerospace-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper: a tight space-constrained rectangular-to-circular solution



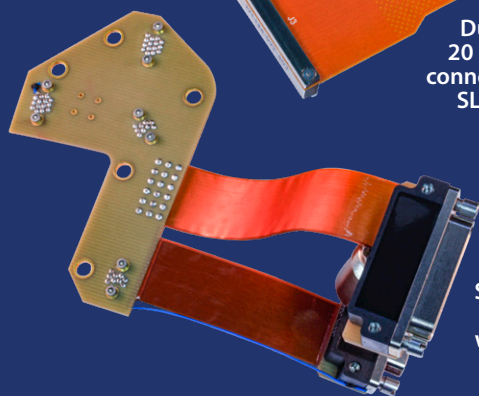
Dual-gang series 20 Super-Twin™ I/O connector to AlphaLink SL PCB connector



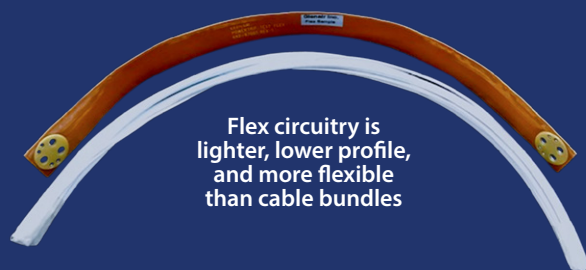
Hybrid flex/rigid flex multibranch Micro-D and Series 23 SuperNine flex assembly with discrete RF circuits



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



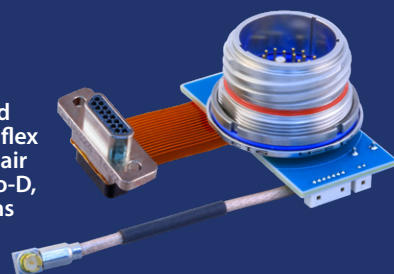
Flex circuitry is lighter, lower profile, and more flexible than cable bundles



Fairway-Flex™
LONG-LENGTH FLEX ASSEMBLIES



High vibration and shock resistant rigid flex assembly with Glenair Mighty Mouse, Micro-D, and RF connections



FIBER KING

FIBER OPTIC CABLES



Turnkey Optical Flex circuit assembly with rugged MT ferrule terminations

Glenair is the worldwide leader in military, aerospace, and harsh-environment fiber optic interconnect assemblies. We manufacture every element in-house, from low-loss simplex, duplex, and multi-line fiber optic cables, to precision termini, military and aerospace-grade connectors, backshells, and tools. Glenair FiberKing fiber optic cables are optimized for reliable, durable performance in military and commercial aviation, space, harsh-environment oil and gas, and multi-termination (MT ribbon) assemblies.

FIBERKING CABLES

- Lightweight, tight bend-radius fiber optic cable for 10Gb+ avionic networks
- Vibration, radiation, and temperature-resistant space-grade F/O designs
- Ultra harsh-environment (high-pressure, high-temp, water-blocking) oil & gas industry fiber optic cable assemblies
- Ruggedized fiber optic ribbon cable for multi-fiber termination (MT) applications

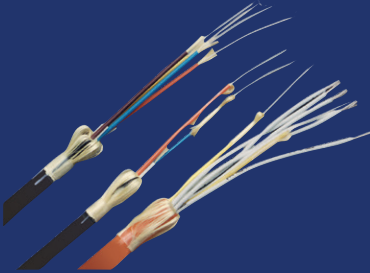
TURNKEY Fiber Optic Cables and Harnesses



For rugged mission-critical applications

The FiberKing Mil-Aero (MA) Ecosystem

The FiberKing Mil-Aero (MA) Ecosystem is a complete flight-grade fiber optic interconnect solution for demanding military and commercial aerospace applications. This complete 10Gb+ low-loss fiber optic solution includes single- and multimode stepped and graded-index cables in simplex, duplex, and multi-line configurations. Glenair SuperNine and Glenair Front Release (GFR) fiber optic connectors are Glenair's signature offerings for high-speed, high data rate avionic networks. Cables and connectors are qualified to strict aviation industry standards for vibration, shock, moisture, and LSZH, and are rated to maximum optical loss (dB / km) at 850 nm $\leq$ 5.0 and at 1300 nm $\leq$ 3.0. Multimode cables are OM4 graded-index. Singlemode cables are OS1 stepped-index.



Hybrid optical / electrical assembly for weight reduction in a high-speed datalink application



Harsh environment overmolded MIL-DTL-38999 Series III type composite



High-density Next-Generation (NGCON) fiber optic harness assembly



Cable reels and field-deployment technologies for both Glenair GFOCA and Eye-Beam™ GMA fiber optic systems



Specialized MT ribbon fiber low-profile molded breakout capabilities



GFOCA I/O-to-board assembly with overbraiding for mechanical protection



Inside-the-box MIL-DTL-38999 type I/O connector to board cable harness

SpeedLine™

Controlled-Impedance Cables

Glenair supplies a wide range of high-speed shielded twisted pair cabling for use with El Ochito®, VersaLink™, SpeedMaster™, and other of our shielded high-speed connector and contact technologies. High flexibility and high-density reduced-weight cable designs are a specialty. Glenair offers turnkey Cat 8 Ethernet, SuperSpeed USB 3.0, HDMI, SATA, and other solutions for today's most mission-critical application platforms.

Glenair SpeedLine cables are optimized for signal integrity, weight savings, flexibility, and durability. In addition, these aerospace and space-grade cables have been optimized for ease of termination and across-the-board compatibility with our broad range of high-speed contact modules and connectors.



SpeedLine™ high-speed cable assemblies such as this VersaLink cordset for DisplayPort 2.0 and USB 4 are supplied as turnkey tested solutions, ready for immediate use

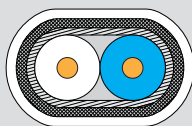
- Cat 8 Ethernet, SuperSpeed USB 3.0, HDMI, SATA, and other solutions for mission-critical applications
- Individual foil shielding around each data pair for reduced crosstalk and attenuation
- Up to 200°C high-temperature-rated cable
- Skydrol resistant, RoHS compliant versions
- Ethernet versions meet ANSI/TIA 568-C.2 Category 6A requirement up to 262 feet/80 meters
- Low-skew SuperSpeed USB data pairs have individual braided shields
- LSZH jacketing options including Duraelectric Light and polyurethane



SpeedLine™ high-speed protocol cables: shielded differential data-pair cables for high-datarate Ethernet, USB, SATA, PCIe, DisplayPort, and HDMI protocols

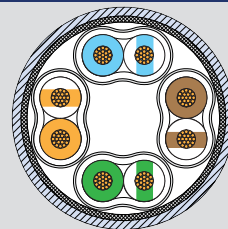
963-069-26

- 100 Ohm #26 AWG flat pair shielded cable for use with VersaLink™ connectors
- Performance up to 18 GHz
- -65 to +200 °C rated operating temperature
- FEP jacket, FEP insulation
- Dual shields: Aluminized Kapton tape and #44 AWG silver-plated copper



963-066-24

- 100 Ohm #24 AWG 4-pair shielded cable for use with El Ochito contacts
- Performance up to 10 Gigabit Ethernet
- -65 to +200 °C rated operating temperature
- FEP jacket, FEP insulation with PTFE tape wrap
- Outer shield: #40 AWG silver-plated copper



Glenair signature SpeedLine high-speed protocol cables are designed for direct application and use with VersaLink™, SpeedMaster™, El Ochito®, and other of our lightweight, small form-factor high-speed protocol connectors.

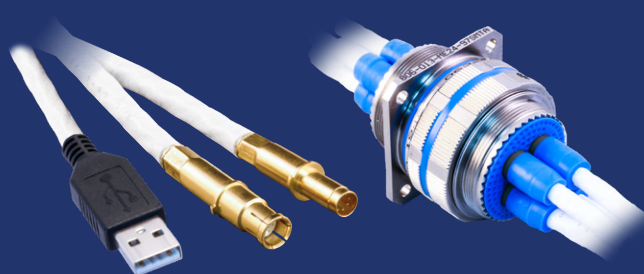
Glenair Signature SpeedLine™ Cables, Shielded Contacts, and Connectors: a complete ecosystem of interconnect technologies for high-speed protocol applications in rugged aerospace-grade systems

Glenair supplies a complete ecosystem of military/aerospace-grade interconnect technology in support of every popular high-speed protocol. Downselect typically begins with protocol identification in accordance with application data rate requirements and standards. For each high-speed protocol, Glenair can supply an exactly-designed, tested, and qualified SpeedLine™ differential data cable, shielded high-speed contact insert, and a signature range of ruggedized, environmentally-sealed connector housings.

SPEEDLINE HIGH-SPEED PROTOCOL CABLE ASSEMBLIES



Glenair SpeedLine high-speed cable assemblies for VersaLink™ include factory-terminated pigtails and double-ended jumpers as well as turnkey Series 806 Mil-Aero and Series 794 Micro-Crimp high-density solutions

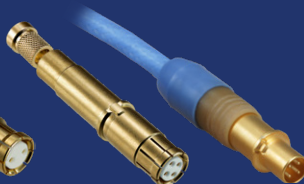


Glenair SpeedLine high-speed cable assemblies for El Ocho™ include single- and double-ended jumpers, commercial protocol connector jumpers, and integrated Series 806 Mil-Aero, SuperNine®, and Series 792 Micro-Crimp

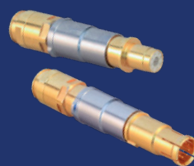
SPEEDLINE-COMPATIBLE HIGH-SPEED DIFFERENTIAL-PAIR SHIELDED CONTACTS



Size #8 differential twinax contacts



Size #8 quadrax contacts



Size #8 El Ocho octaxial



Size #8 SpeedMaster octaxial



VersaLink differential twinax

SPEEDLINE COMPATIBLE GLENAIR SIGNATURE HIGH-SPEED CONNECTORS



Series 806 Mil-Aero high-speed El Ocho micro miniature



SuperNine MIL-DTL-38999 "Better than QPL" high-speed El Ocho



Speed-Master™ modular 10G+ Ethernet (shown in SuperNine packaging)



Series 792 Micro-Crimp precision-machined high-speed El Ocho

BLUMARK COAX CABLES



BluMark RF Low-Loss 50 Ohm Coax Cables are suitable for aerospace applications and test equipment. Jacket options include FEP and radiation-resistant space-grade ETFE.

BluMark RF high-frequency, low-loss cables

are available in eight size categories: 047, 086, 141, 130, 160, 200, 235, and 300. Standard jacket material is FEP. Radiation-resistant ETFE jacketing is also available for space applications. Triple-shielded high-performance cables have expanded PTFE dielectric core for low loss up to 40 GHz. Application selection is based on attenuation (loss budget), and compatibility with a particular RF / microwave connector type and size, as well as flexibility, EMI screening, weight considerations, temperature tolerance, and altitude.

Temperature changes can cause phase shift in coax cables with PTFE dielectric cores. Low Phase Change Fluoropolymer (LPCF) cables are available from Glenair that replace the PTFE core with a fluoropolymer material yielding improved phase stability over a wide temperature range.



RF Cable Assemblies: Glenair is one of just a few interconnect manufacturers that can supply turnkey RF transmission line assemblies—fully connectorized and ready for immediate use—built 100% in-house with Glenair component parts. Configurations include multipin RF cable assemblies with industry-standard single-line RF connectors built around BluMark RF low-loss cable, and Glenair signature high-frequency connectors for rugged multi-port shell configurations.



High-frequency RF contacts for every BluMark RF cable



Glenair signature environmentally-protected multi-port shells provide a common ground plane that eliminates EMI radiation through the RF connector contact

BLUMARK
COAX CABLES **RF**

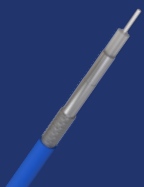
**GLENAIR TURNKEY RF ASSEMBLIES ARE BUILT WITH BLUMARK RF AEROSPACE-
GRADE 50 OHM LOW-LOSS COAX CABLES**



Size 047
40 GHz



Size 086
40 GHz



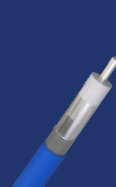
Size 141
30 GHz



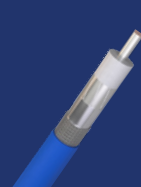
Size 130
40 GHz



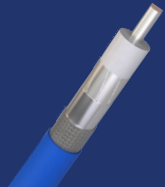
Size 160
40 GHz



Size 200
26.5 GHz



Size 235
26.5 GHz



Size 300
18 GHz

962-025 Series: Triple-Shielded · FEP Jacket
Low phase-change PFA Dielectric

962-032 Series: Triple-Shielded · FEP Jacket
Low-Loss PTFE Tape Wrapped Dielectric

TURNKEY

BluMark RF / Microwave Interconnect Assemblies



With Glenair signature multi-port connectors, low-loss cables, and high-frequency contacts

GLENAIR BLUMARK RF™ COAX ECOSYSTEM OF LOW-LOSS CABLES, COMPATIBLE CONNECTORS, AND SIGNATURE SERIES MULTI-PIN HOUSINGS

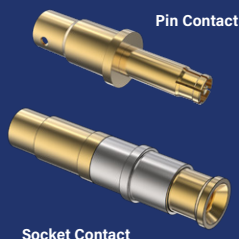
Glenair high-frequency RF technologies—low-loss cables, shielded contacts, and signature connector housings—are typically used in line replaceable units and chassis that are part of an RF communications chain. Examples of common application environments include fighter jet radar, RF/microwave signal processing, various forms of GPS navigation, jamming systems, and more. Glenair turnkey RF assemblies for space applications—again, built from our complete ecosystem of low-loss RF interconnect cables, contacts, and connectors—are optimized for compatibility with size #8, #12, and #16 drop-in contacts for use in environmentally sealed and shielded circular and rectangular connector housings.

Accurate specification of RF assemblies depends on a thorough understanding of these key variables:

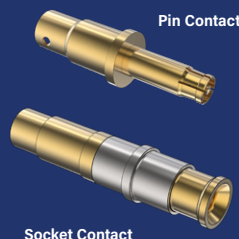
- Operating environment (temp, moisture, etc.)
- Operational frequency range
- Insertion Loss budget
- VSWR requirement



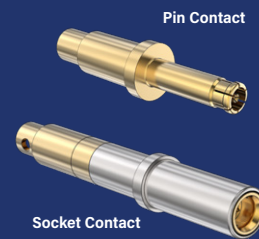
**Size 8 for use with
-086 cable**
**18 GHz BMB interface
50 Ohm**
Solder termination
Snap-in, rear release
pin and socket coax
contacts, spring-loaded.



**Size 12 for use with
-086 cable**
**40 GHz SMPM interface
50 Ohm**
Solder termination
Snap-in, rear release
pin and socket coax
contacts, spring-loaded.



**Size 12 for use with
-047 cable**
**40 GHz SMPM interface
50 Ohm**
Solder termination
Snap-in, rear release
pin and socket coax
contacts, spring-loaded.



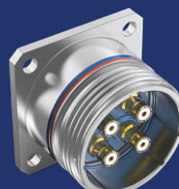
**Size 16 for use with
-047 cable**
**65 GHz SMPS interface
50 Ohm**
Solder termination
Snap-in, rear release
pin and socket coax
contacts, spring-loaded.



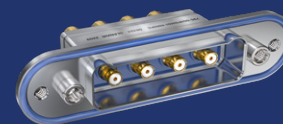
Series 23 SuperNine
"better-than-QPL"
MIL-DTL-38999 Series III
type connector



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



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

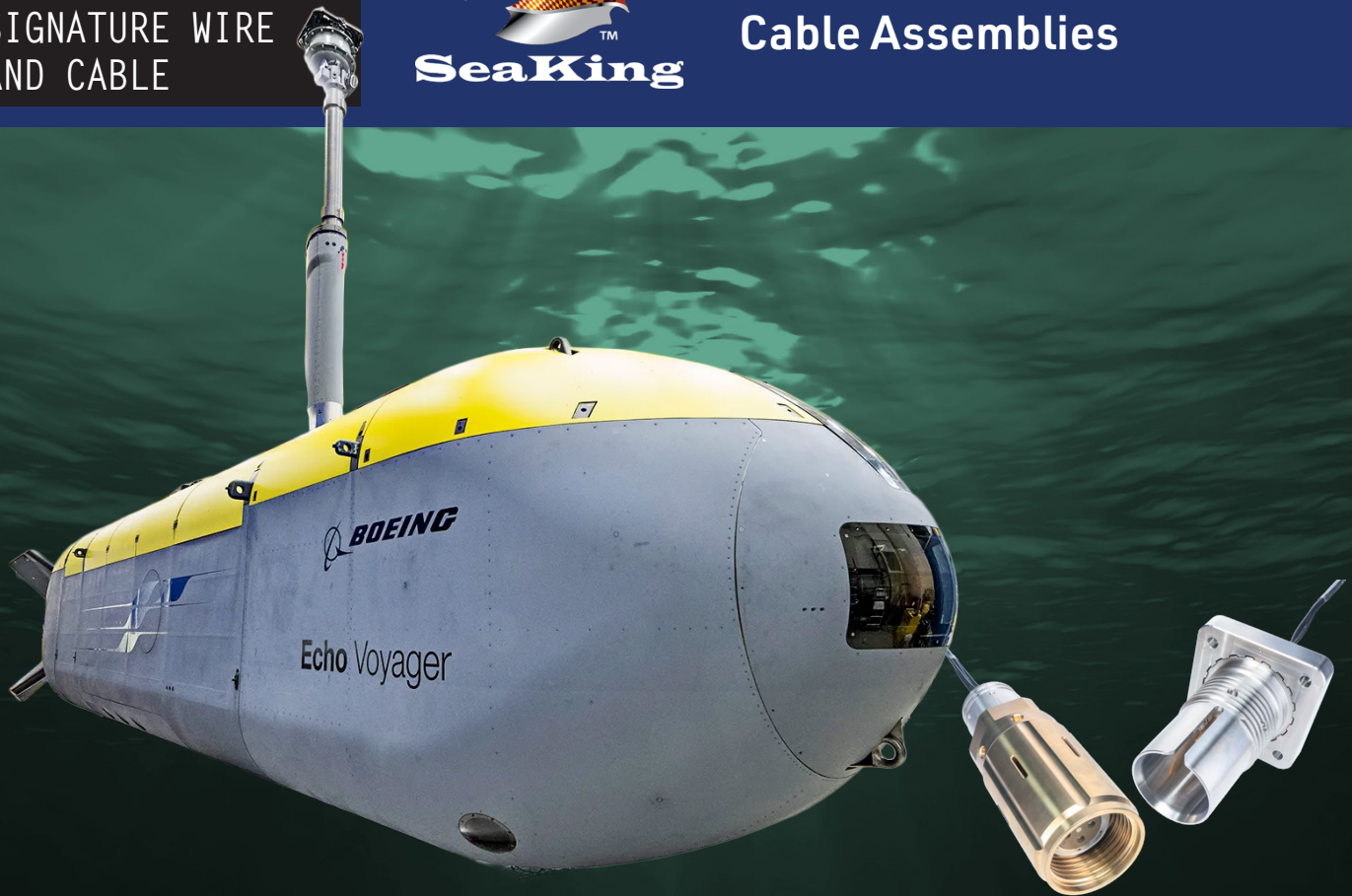


Series 795 RF
precision-machined
aerospace-grade
coax connector

TURNKEY
INTERCONNECT
ASSEMBLIES
WITH GLENAIR
SIGNATURE WIRE
AND CABLE



SeaKing™ High-Pressure Underwater Connectors and Mil-Qualified / MCOTS Cable Assemblies



SeaKing WetMate ROV-Mate,
Diver-Mate, and Stab-Plate

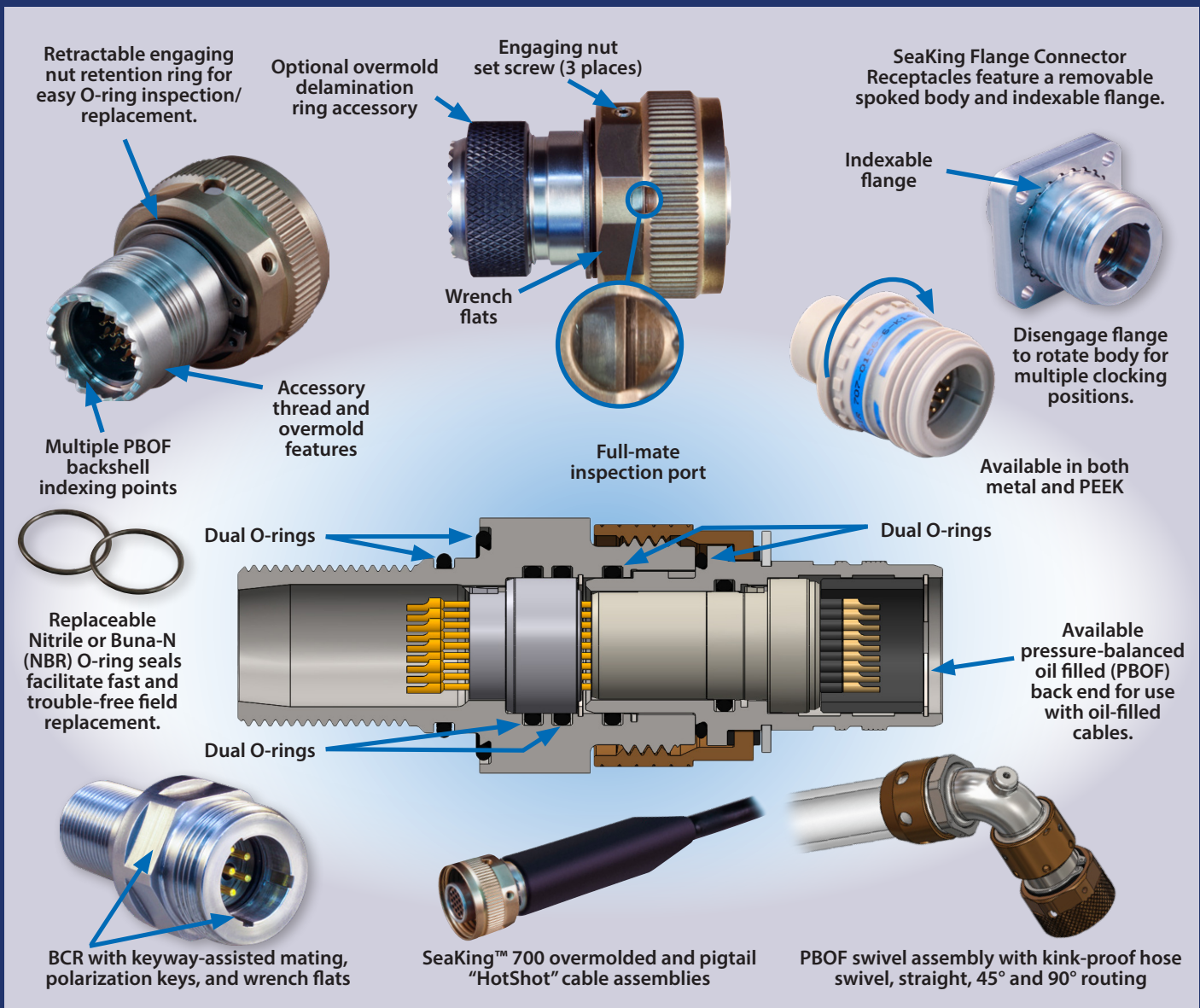
SeaKing 700 is an innovative 10K PSI open-face rated underwater connector series that eliminates a broad range of mechanical design weaknesses found in many of today's high-pressure subsea connector families. From its double O-ring seals and retractable engaging nut, to its multi-keyed mating interface, the SeaKing underwater connector represents a far more reliable approach to subsea power and signal connectivity.

- High density, small form-factor connector
- Dual O-ring seals ensure high-pressure performance for every leak path
- Signal, power, RF, and optical insert arrangements
- Stainless steel or titanium with anti-galling marine bronze engaging nut or cathodic delamination-free PEEK
- Full-mate inspection ports
- Easy O-ring replacement
- Key and keyway polarization

10K PSI / 700 BAR OPEN-FACE RATING SeaKing™ High-Pressure Subsea Connectors



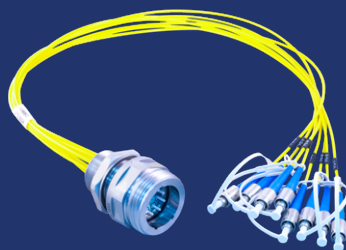
Electrical · Optical · Power · Turnkey Cables



SEAKING HIGH-PRESSURE SUBSEA WET- AND DRY-MATE CONNECTORS



SeaKing 700 10K psi metal and composite PEEK



SeaKing Fiber Optic open-face pressure-rated



Micro-PSI microminiature 10K psi subsea



SuperG55 high-performance COTS 10K psi

RUGGED CONNECTORS
FOR HIGH-POWER
AND HIGH-
FREQUENCY
APPLICATIONS



The TurboFlex® Ecosystem: High-Power
Cables · Contacts · Connectors · Assemblies



TurboFlex is an ultra flexible and rugged power cable solution ideal for high-power electrical distribution and propulsion applications. Constructed from rope-lay or M22759 type copper or aluminum wire and jacketed with Glenair signature Duraelectric insulation, TurboFlex cables are optimized for use in an ecosystem of Glenair signature contact and connector technologies. Turnkey connectorized or lugged cable assemblies—fully tested and ready for immediate use—provide reliable high-temperature tolerant performance up to 4500 VAC.

STANDARD TURBOFLEX R VS. TURBOFLEX M



TurboFlex M M22759
cable construction



TurboFlex R rope-lay
cable construction

All TurboFlex cables are jacketed with Duraelectric insulation, which contributes significantly to the flexibility of the product. Available wire cores include rope-lay cable (TurboFlex R) and M22759 cable (TurboFlex M). Standard TurboFlex R provides maximum flexibility. TurboFlex M has a slightly larger bend radius but far superior flexibility compared to standard M22759 cable.



◀ Duraelectric™ is the high-performance TurboFlex® jacketing material. Different compounding formulas are optimized for weight savings, radiation resistance, ultra low temperatures, conductivity, and immersion in chemical or caustic fuels. Available in a broad range of colors including safety orange.

Compatible power connector series solutions

POWERPLAY: PLUG-TO-PLUG AND I/O CONFIGURATIONS WITH SAFE-TOUCH ARCHITECTURE AND A RANGE OF BACK-END WIRE LINE TERMINATIONS



SuperNine Series III
PowerPlay Triple-Start



SuperNine Series I
PowerPlay Bayonet



Series 806 Mil-Aero
PowerPlay High Density

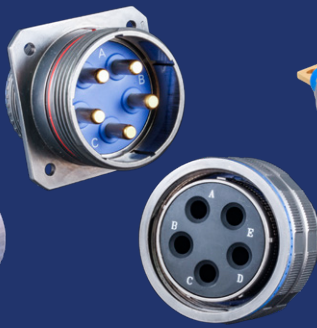


High-Density Micro-Crimp
PowerPlay Rectangular

ADDITIONAL RUGGED CONNECTORS AND ASSEMBLIES FOR HIGH-POWER, HIGH-VOLTAGE, AND HIGH-FREQUENCY APPLICATIONS



PowerLoad™ HV power
distribution connectors



PowerTrip™ high-density
connectors and cables

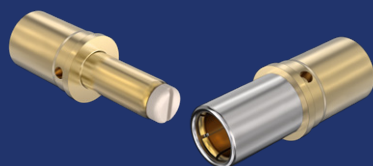


MotorHead™ low-profile,
high-durability power connector
with low-labor-cost assembly



Lightweight / ultra-flexible
TurboFlex HV
cable assemblies

GLENAIR SIGNATURE CROWN RING CONTACTS



- High vibration-resistant, high-conductivity gold-plated copper alloy. Socket contact adds stainless steel Crown Ring; pin contact adds thermoplastic finger-safe tip
- Up to 60% lower contact resistance than equivalent AS39029 contacts
- High operating temperature resistance compared to other specialized high-power contacts

TURBOFLEX® ULTRA FLEXIBLE / RUGGED POWER CABLES WITH DURALECTRIC JACKETING

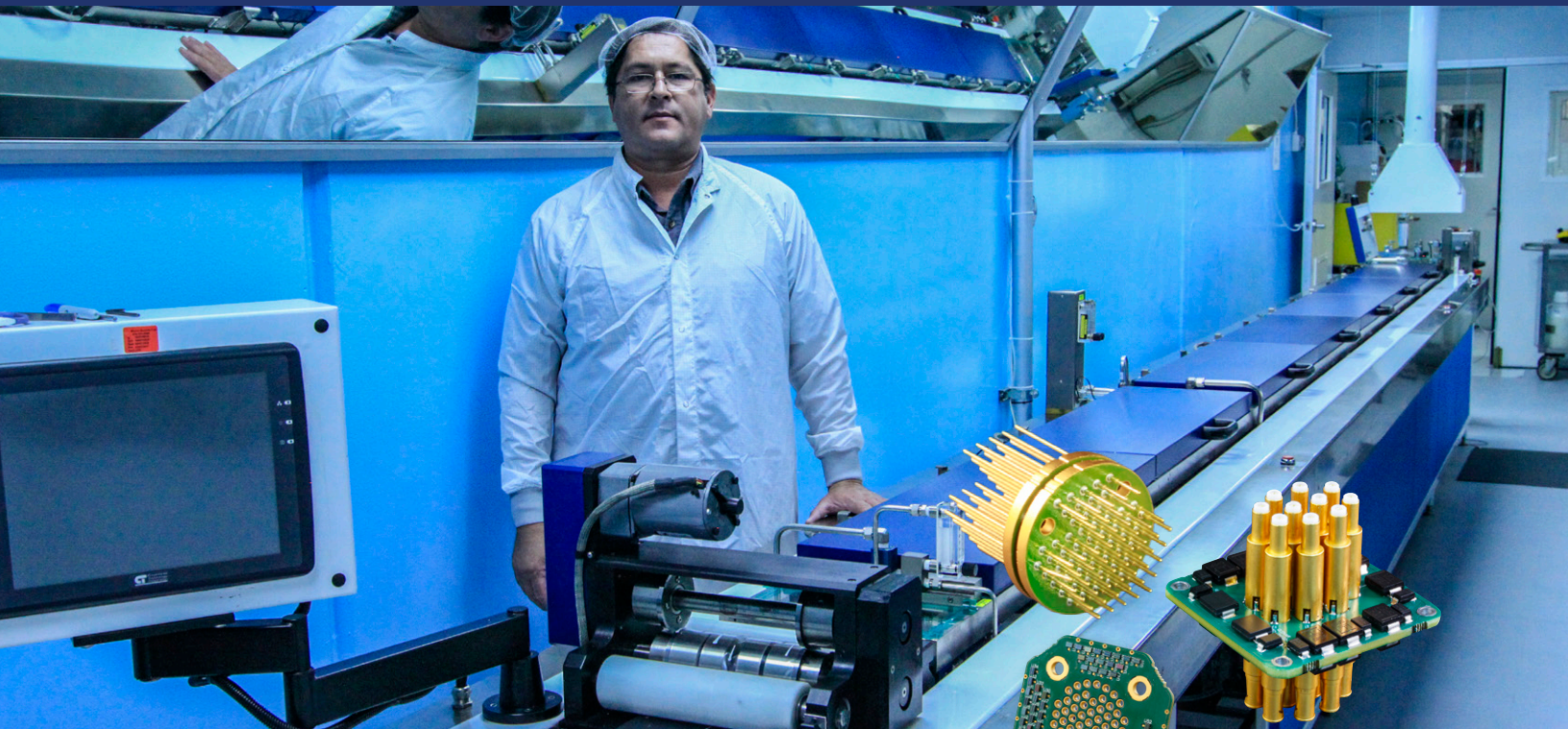
TurboFlex high-flexibility power cabling is optimized for use with PowerPlay connectors and is supplied with Glenair signature Duralectric jacketing material for rugged fluid immersion, caustic chemical exposure, temperature extremes, and UV radiation. Duralectric is available in a broad range of colors including safety orange. Two cable core constructions are supplied: TurboFlex M with AS22759-type conductors, and TurboFlex R with ultra-flexible rope-lay conductors.



Available with cable gauge selections from 8 AWG to 4/0, to provide suitable margins for DWV, frequency derating, and peak-load electrical performance.

DURALECTRIC JACKETING

Abrasion Resistance	Good
Wear Resistance	Good
Flame Resistance	Excellent
Sunlight Resistance	Excellent
Flex Resistance	Excellent



All diode-equipped
EMP inserts and planar
array EMI filter inserts
produced in-house

Planar filter array and TVS diode connectors diodes in standard catalog as well as build-to-order configurations

**Table I: Capacitor Array Code /
Capacitance Range**

Class	Pi - Circuit (pF)	C - Circuit (pF)
X	160,000 - 240,000	80,000 - 120,000
Y	80,000 - 120,000	40,000 - 60,000
Z	60,000 - 90,000	30,000 - 45,000
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300
J	70-120	35-60



Planar filter arrays and TVS diodes may
also be incorporated into rectangular
connector packaging such as the
Micro-D and Series 79 Micro-Crimp
devices shown here.

- Planar, multilayer ceramic capacitive filters, with and without transient voltage suppression diodes
- Space-grade plating and outgassing processing
- C and Pi electrical configurations
- PC tail, crimp or solder cup termination
- 35 – 240,000 pF capacitance
- Fast and reliable diode burn-in and test services
- Turnkey in-house manufacturing of all filter connector elements and processes

AEROSPACE-GRADE EMI/EMP Filter Connectors



Innovative designs · total vertical integration



Extended-shell
PC-tail cylindrical filter
with threaded standoff



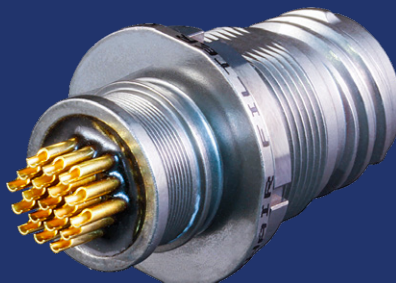
Special-purpose
filter connector cable
adapter (Sav-Con®)



Custom reduced-length
sidecar filter connector design



Series 80 Mighty Mouse
PC-tail filter receptacle



Series 80 Mighty Mouse
solder-cup filter receptacle
with integrated banding porch



MIL-DTL-38999 type
crimp-contact termination
filter receptacle



MIL-DTL-38999 Series
III type EMP TVS diode-
equipped filter connector

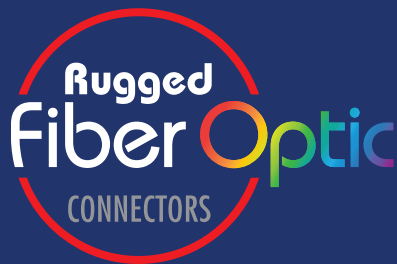


MIL-DTL-83723 type filter
connector, gold-plated for atomic
oxygen corrosion resistance



Quick-disconnect circular with
solder-free contact filter array

INTERCONNECT
TECHNOLOGY
FOR
ELECTROMAGNETIC
COMPATIBILITY



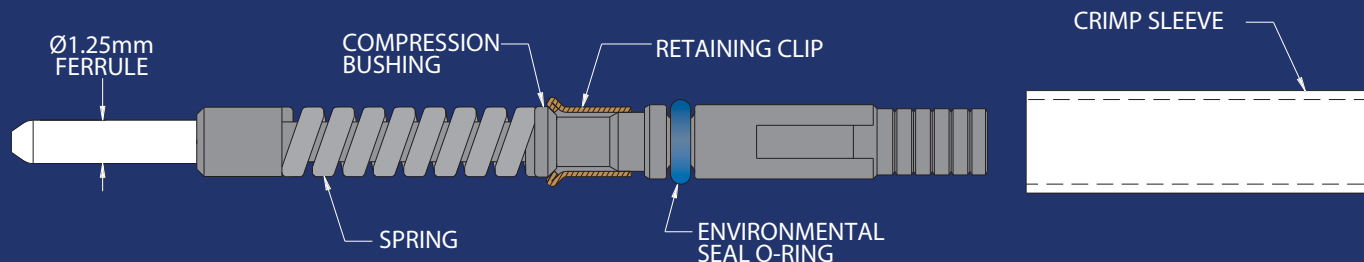
Glenair High Density (GHD) and other EMI-Immune Aerospace-Grade Fiber Optic Connection Systems



Our extensive portfolio of high-speed, high-datarate fiber optic connection systems for military defense applications includes QPL'd MIL-T-29504 termini for Mil-standard 38999 fiber optic connectors, ARINC 801 fiber optic connectors and qualified termini, NAVSEA-qualified 28876 fiber optic connectors and qualified termini, and Glenair Signature High-Density (GHD).

DESIGNED FOR

- Low mass
- Dynamic vibration and shock resistance
- Extreme temperature resistance
- Environmentally sealed
- Flammability, toxicity, low-smoke
- Indirect lightning strike
- Ease-of-maintenance
- Uncompromised reliability



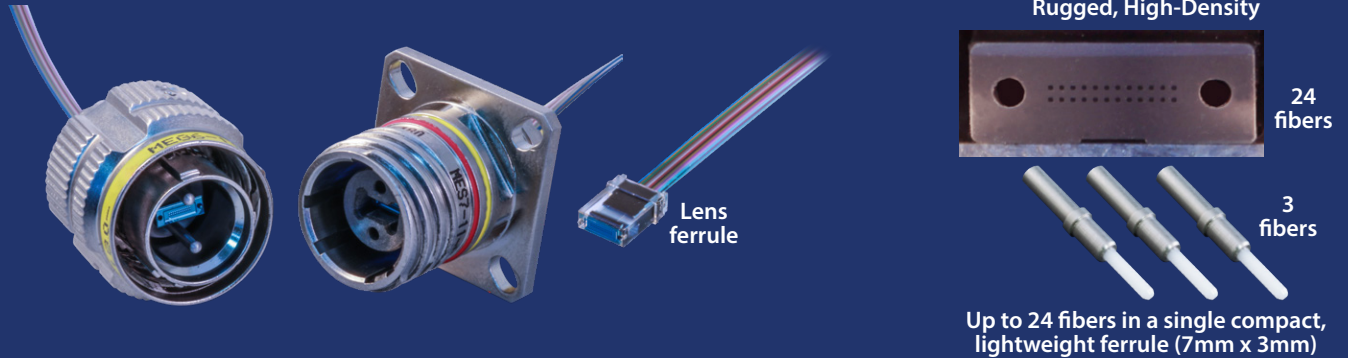
GHD's high-density cavity spacing is achieved with an innovative front-release terminus design that incorporates a high-force spring and compression bushing that enables low-loss performance even in high-vibration / high-shock applications.

AEROSPACE AND DEFENSE Fiber Optic Interconnect Systems



Ruggedized, harsh-environment solutions

ALSO-AVAILABLE MIL-STANDARD TECHNOLOGY: MT FERRULE FIBER OPTICS

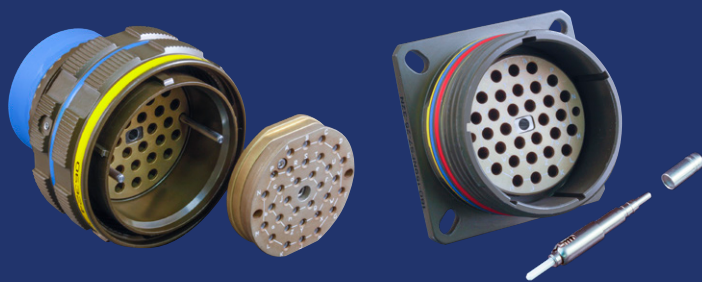


EYE-BEAM POWER: RUGGED, HIGH-POWER FIBER OPTICS FOR DIRECTED ENERGY AND LIDAR APPLICATIONS



- Size #8 drop-in expanded-beam optical contact for rugged military/aerospace applications
- Powerful 20W and higher optical contact ideally suited for directed energy applications
- Turnkey incorporation in Glenair signature SuperNine, Series 792, and Series 806 Mil-Aero connectors
- Compatible with 1064nm polarization-maintaining fiber with a 0.5 dB typical insertion loss
- Low temperature rise at peak power

ALSO-AVAILABLE MIL-STANDARD TECHNOLOGY: ULTRA-LOW dB LOSS ARINC 801 FIBER OPTICS



- Genderless terminus design eliminates pin and socket complexity
- Rear-release size #16 termini
- Singlemode and multimode
- Mechanical and environmental performance IAW ARINC 801 standards
- Sav-Con Connector Savers available

ALSO-AVAILABLE MIL-STANDARD TECHNOLOGY: TIGHT-TOLERANCE MIL-DTL-38999 SERIES III TYPE



- Composite, aluminum and stainless steel shells available
- QPL size #16 MIL-PRF-29504 /4 and /5 precision ceramic termini
- Singlemode and multimode fiber, from 9/125 to 1000 microns
- Ultra-low insertion loss, <.50dB typical
- From 2 to 37 Termini
- Patented MIL-DTL-38999 fiber optic test probes and adapters

INTERCONNECT
TECHNOLOGY
FOR
ELECTROMAGNETIC
COMPATIBILITY

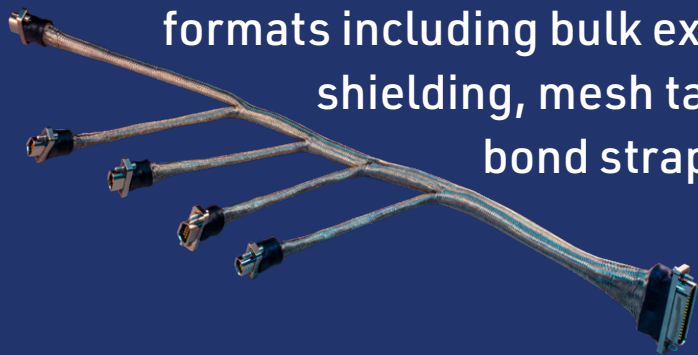
ARMORLITE™

Microfilament nickel-clad expandable stainless steel EMI/RFI braided shielding



ArmorLite™ is an expandable, flexible, high-strength, conductive stainless-steel microfilament braid material designed for use as EMI/RFI shielding in high-performance wire interconnect systems. ArmorLite™ is packaged in a wide range of formats including bulk expandable shielding, mesh tape, and ESD bond straps.

- Ultra-lightweight EMI/RFI overbraiding for EMC and solar radiation applications
- Microfilament stainless steel: 70% *lighter* than NiCu A-A-59569/QQB575
- Lightweight, flexible ESD bond straps
- New ArmorLite™ CF with configuration with enhanced temperature tolerance
- Superior flexibility and “windowing” resistance: 90 to 95% optical coverage
- 70,000 psi (min.) tensile strength
- Flight-grade solution with proven TRL 9 performance



LIGHTWEIGHT, FLEXIBLE ArmorLite™ Microfilament Braid for EMI/RFI Shielding Applications

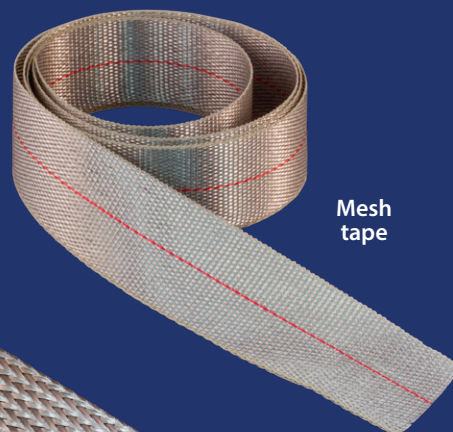


Lightweight · non-windowing · corrosion-resistant · high-temp

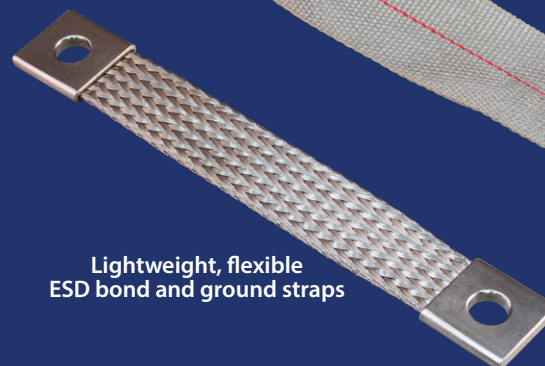
ARMORLITE™ SHIELDING SOLUTIONS AND PACKAGING



Factory overbraided



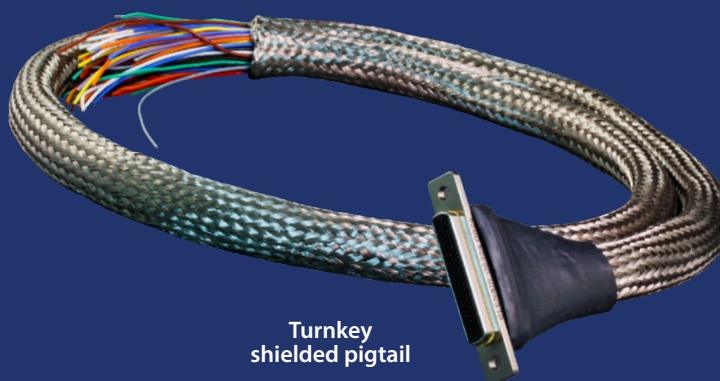
Mesh
tape



Lightweight, flexible
ESD bond and ground straps



Integrated shield sock



Turnkey
shielded pigtail

ALSO AVAILABLE FOR ADDITIONAL WEIGHT SAVINGS: AMBERSTRAND METAL-CLAD COMPOSITE BRAIDED SHIELDING



AmberStrand® 100% vs. nickel-coated copper			
Braid Dia.	AmberStrand® 100% 103-026 (g/ft.)	Nickel-Copper 100-003 (g/ft.)	% Weight Savings/ Foot
.062	.6	1.9	68%
.125	1.0	4.8	79%
.250	1.8	16.1	88%
.375	2.3	18.5	87%
.500	3.7	22.3	83%
.625	4.4	27.7	84%
.750	5.2	34.3	85%
1.000	8.0	35.0	77%

AmberStrand® 75% vs. nickel-coated copper			
Braid Dia.	AmberStrand® 75/25% NiCu 103-027 (g/ft.)	Nickel-Copper 100-003 (g/ft.)	% Weight Savings/ Foot
.062	.9	1.9	52%
.125	1.5	4.8	68%
.250	2.4	16.1	85%
.375	3.9	18.5	79%
.500	5.4	22.3	76%
.625	6.4	27.7	77%
.750	7.2	34.3	79%
1.000	11.0	35.0	69%

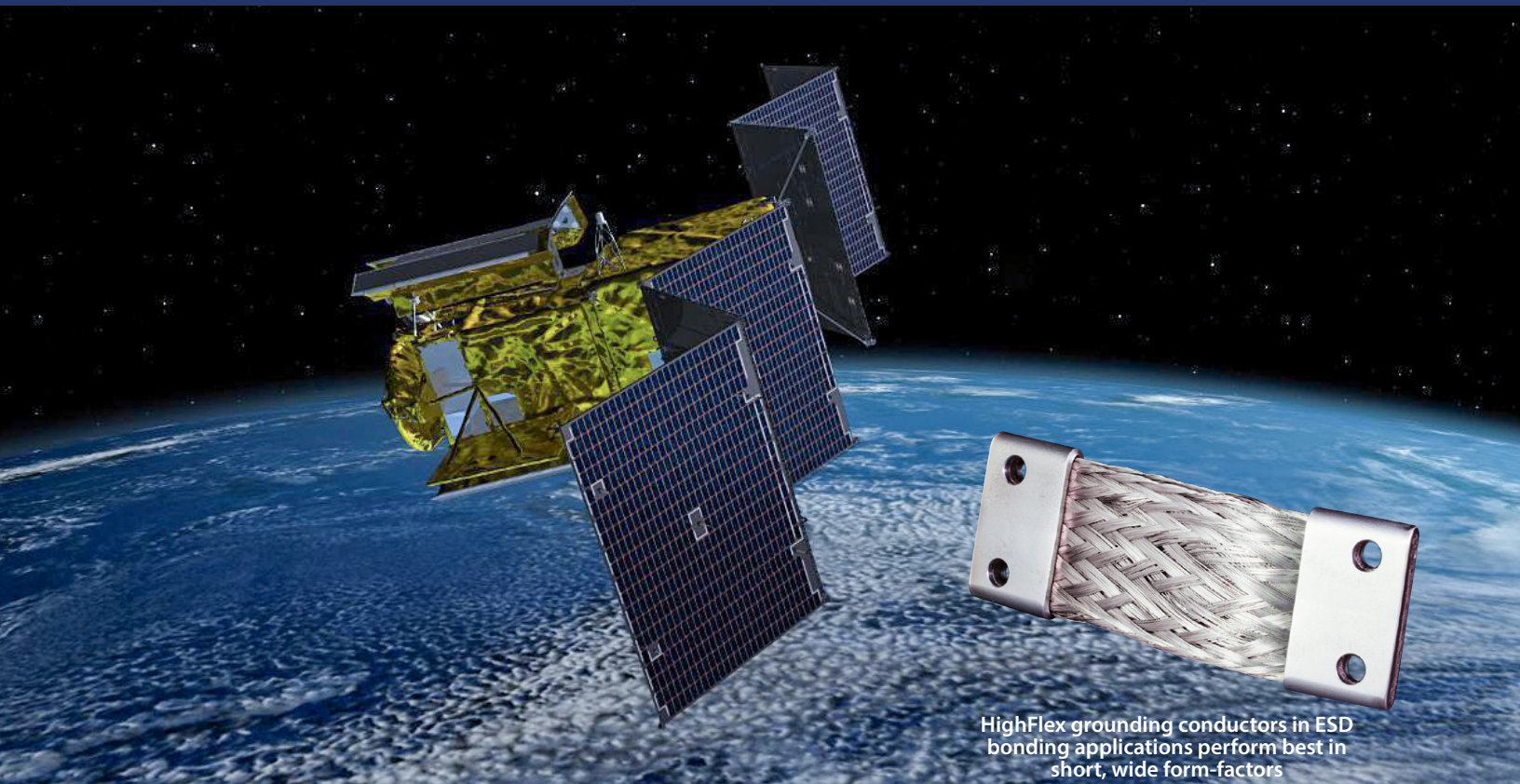


INTERCONNECT
TECHNOLOGY
FOR
ELECTROMAGNETIC
COMPATIBILITY

HIGHFLEX™

GROUNDING CONDUCTORS

Flexible braided straps for EMI noise suppression and equipotential bonding



HighFlex grounding conductors in ESD bonding applications perform best in short, wide form-factors

Flexible, durable ArmorLite ESD bond straps are supplied in microfilament materials optimized for the moderate current and resistance requirements of electrical potential bonding in space applications. ArmorLite 100% offers superior flexibility and ductility. ArmorLite CF is a special construction designed for improved corrosion protection. ArmorLite Ag silver-plated microfilament SST braid offers the lowest electrical resistance. NASA-STD-4005 and ECSS-E-ST-20-07 compliant.



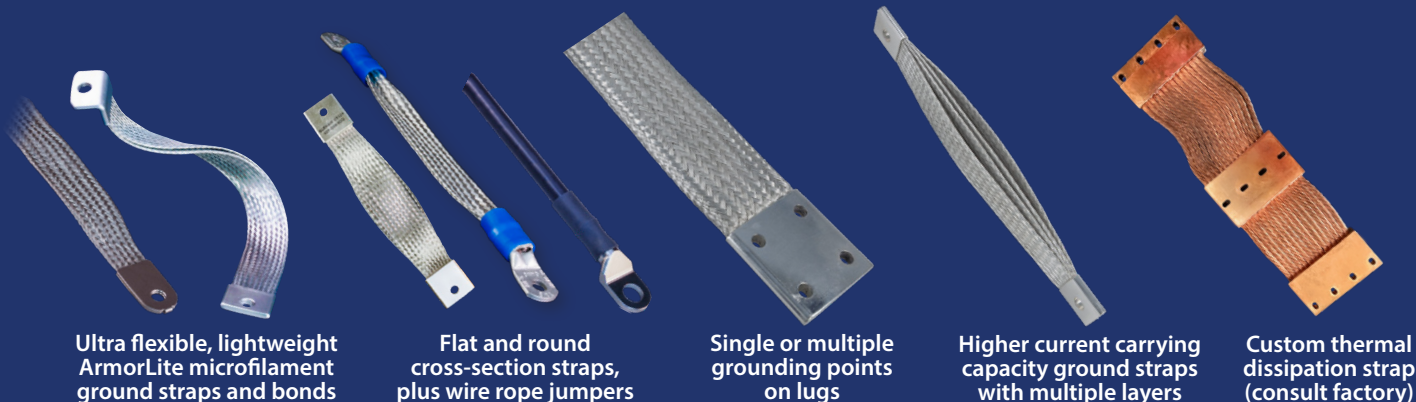
- Durable, low-resistance ground straps with highly conductive or dissipative performance
- High-flexibility, low-resistance bond straps for ESD dissipation
- Glenair signature and comparable industry-standard designs
- Special heat-dissipation custom configuration flexible braided straps
- Microfilament materials with superior mechanical performance, flexibility, and windowing resistance compared to NiCu A-A-59569/QQB575
- Proven performance in space: TRL9

ARMORLITE AND OTHER MATERIALS Ground Straps, Bonds, and Busbars

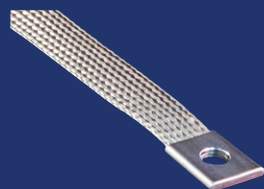


Flexible braided mil-spec and Glenair signature lightweight designs

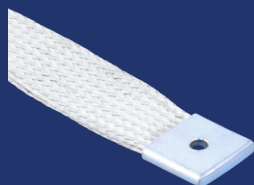
HIGHFLEX GROUNDING CONDUCTORS FOR SPACE FLIGHT EARTHING AND BONDING APPLICATIONS



GROUND STRAP AND ESD BOND MATERIAL COMPARISON



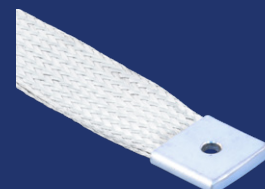
107-105
ArmorLite 100%
Best Weight Reduction



107-322
ArmorLite Ag
Lowest Resistance

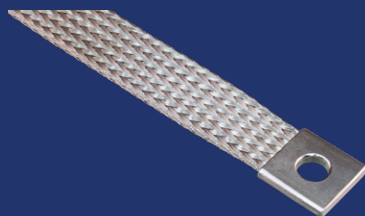


107-108
ArmorLite CF
Best Corrosion Protection



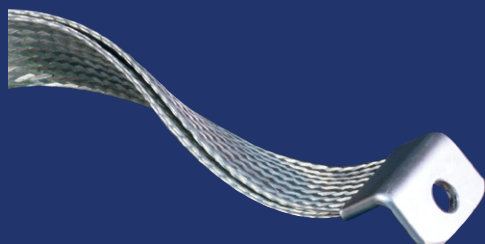
107-102
Standard-Duty Cu/Ag
Lowest Cost

M24749 TYPE IV MIL-SPEC AND GLENAIR SIGNATURE "BETTER THAN QPL" CONFIGURATIONS



- Meets the rigorous specifications of MIL-DTL-24749 Rev. C with width, length, and lug configuration options beyond standard mil-spec straps
- Tested to survive 1000 hours salt spray
- Unique Stainless Steel/Nickel hybrid braid
- Lightweight, durable, configurable crimp lugs: square, radiused, straight, single- and double-right-angle versions

VARIABLE LUG / HOLE / STRAP CONFIGURATION OPTIONS AVAILABLE ON ALL STYLES



Choose single-layer straps or dual-layer for strength and electrical performance.



Available black or clear sleeving over strap. Square or radiused lugs and variable hole sizes.



Straight, single right-angle, and dual right-angle configurable lugs.

INTERCONNECT
TECHNOLOGY
FOR
ELECTROMAGNETIC
COMPATIBILITY

Band-Master ATS®

EMI/RFI Shield Termination System



Quick, easy, cost-effective and highly reliable termination of braided metallic shielding or fabric braid to connectors and backshells

Band-Master ATS® is the advanced termination system for interconnect cable shielding. The unique low profile and smooth inside diameter of the one-piece type 304 austenitic stainless steel clamping band virtually eliminates RFI/EMI/EMP leakage paths. The lock maintains constant tension under extreme environmental conditions. Band-Master ATS® bands have passed severe shock, vibration and thermal cycle testing with negligible deterioration of shell conductivity and have been approved and added to the specifications for the world's largest aircraft manufacturers.

- Precision hand-held tools and termination bands—both from a single supplier
- Innovative Slim Standard and Nano bands reduce weight and improve safety (no buckle cuts)
- Clamp both small and large diameters easily and reliably

BAND-MASTER ATS® ADVANCED TERMINATION SYSTEM



New Micro-Max higher tensile strength with calibration counter



High-volume pneumatic tool for bench use



Save time and tool maintenance costs with the Glenair band tool calibration system

BAND-MASTER ATS® EMI/RFI Shield Termination System



The advanced EMI/RFI shield termination system
for interconnect cabling

RECOMMENDED HIGHEST-PERFORMANCE SIZES AND STYLES



Micro-Max: 601-129 Band-Master ATS® Micro-Max with Counter for use with high-tension, low-resistivity Micro-Max Bands

Designed for use with high-tension Micro-Max .120" width clamping bands. Micro-Max is designed for shield termination requirements to a higher tension range from 100-180 lbs. resulting in lower-resistivity shield termination. Calibrate at 132 ± 3 lbs. for most shield terminations.



Micro-Slim: 601-122 Band-Master ATS® Micro-Slim with Counter for use with lightweight, reduced-thickness Micro-Slim Bands

Micro-Slim bands are narrower width and are better at conforming to irregular platform shapes (elliptical platforms) and individual braid buildup (pig tails). Designed for Micro Slim .120" width clamping bands in a tension range from 60 to 90 lbs. Calibrate at $82 \text{ lbs.} \pm 3 \text{ lbs.}$ for most terminations.



Nano: 601-108 Band-Master ATS® Nano with Counter. The industry's narrowest width, smallest size, and lightest weight shield termination band system

Nano bands are the industry's narrowest width, smallest size, and lightest weight shield termination bands. Designed for use with Nano .075" width clamping bands in a tension range from 25 to 90 lbs. Calibrate at $50 \text{ lbs.} \pm 3 \text{ lbs.}$ for most shield terminations.



Slim Standard: 601-109 Band-Master ATS® Slim Standard with Counter for use with lightweight, reduced-thickness Slim Standard Bands

Slim bands are 50% lighter and 50% lower-profile than standard bands and maintain similar performance. Slim bands are better at conforming to irregular platform shapes (elliptical platforms) and individual braid buildup (pig tails). Tension range is 30 – 80 lbs. Calibrate at $100 \text{ lbs.} \pm 3 \text{ lbs.}$ of linear pull.



Glenair Band-Master ATS® system tools and bands have been made in America in partnership with Band-IT® IDEX for over four decades and are the trusted, reliable solution for aerospace-grade cable shield termination.

Recommended Band Part Numbers

Size	A		Fits up to Dia.		B		C		Part Number Pre-coiled	Hand Tool Part Number
	Length in	mm			Width in	mm	Thickness in	mm		
Micro-Max	8	203	.88	22.4	.12	3.0	.015	0.4	601-701	601-129
	14	356	1.88	47.7	.12	3.0	.015	0.4	601-703	
Micro Slim	8	203	.88	22.4	.12	3.0	.01	0.3	601-601	601-122
	14	356	1.88	47.7	.12	3.0	.01	0.3	601-603	
Nano	6	152	.60	15.2	.075	1.9	.009	0.9	601-501	601-108
	9	229	.94	23.9	.075	1.9	.009	0.9	601-505	
	14	356	1.80	45.7	.075	1.9	.009	0.9	601-509	
Slim Standard	9	228	.94	23.9	.24	6.1	.01	0.3	601-571	601-109
	14	355	1.80	45.7	.24	6.1	.01	0.3	601-573	

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

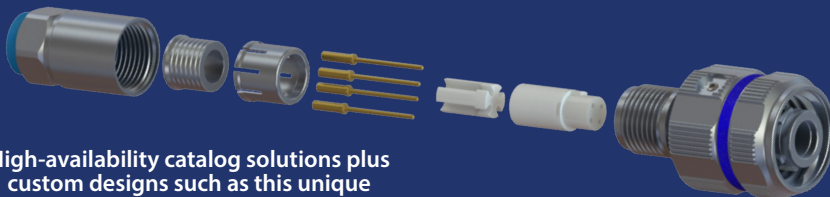


Series 806 Mil-
Aero: Advanced
performance, reduced
size and weight



Innovative design meets key performance benchmarks for harsh vibration, shock, and environmental settings—as well as high-altitude, unpressurized aircraft zones with aggressive voltage ratings and altitude immersion standards.

SIZE AND WEIGHT SAVING SOLUTIONS: CATALOG OR CUSTOM



High-availability catalog solutions plus custom designs such as this unique Quadrax implementation

- Next-generation small form factor aerospace-grade circular connector
- Designed for harsh application environments including SWAMP-zone sensors, flight navigation electronics, and flight deck avionics
- Integrated anti-decoupling technology
- High density 20HD, 22HD, RF, power, and high-speed contact arrangements
- Hermetic and filter versions
- +200°C temperature rating

Series 806 Mil-Aero Ultraminiature Circular Connectors



For harsh mil-aero applications IAW MIL-DTL-38999

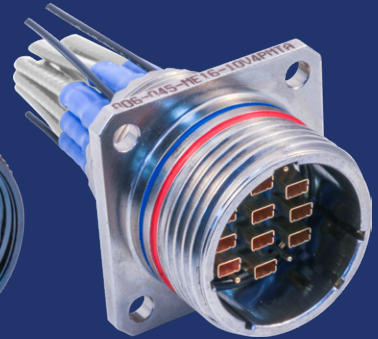
SUPPORTED SIGNAL, DATA, AND POWER INTERFACES: I/O AND CABLE-TO-CABLE



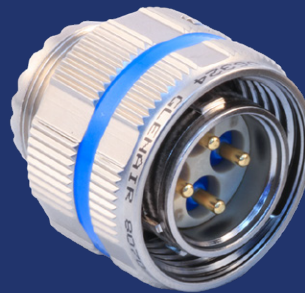
Series 806 Mil-Aero environmental series with micro miniature #20HD contact layouts



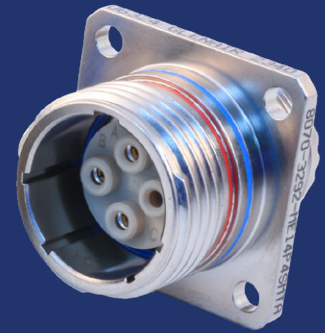
Hybrid Series 806 connectors with VersaLink high-speed Ethernet and standard signal arrangements



Series 806 Mil-Aero micro miniature circular with hybrid high-speed El Ochito octaxial contacts and standard 39029 signal contacts



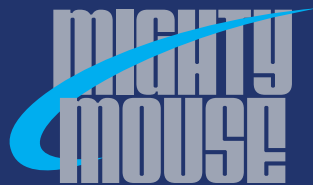
Series 806 Mil-Aero micro miniature with PowerPlay Crown Ring contact arrangements for satellite payload power distribution



SERIES 806 MIL-AERO: FEATURES / SPECIFICATIONS

- Next-generation small form factor aerospace-grade circular connector
- Designed for harsh application and high-altitude environments
- Robust and reliable anti-decoupling technology
- High density 20HD, 22HD, RF, and high-speed contact arrangements
- Lightweight hermetic and filter versions
- +200°C temperature rating
- Improved ramp angle on mating interface for better vibration and shock resistance High-density #20HD and #22HD arrangements for reduced size and weight
- Supported wire sizes:
 - #20HD contacts 20–24 AWG
 - #22HD contacts 22–28AWG
- Dielectric withstanding voltage
 - #20HD layouts: 1800 VAC
 - #22HD layouts: 1300 VAC
- Reduced pitch triple-start modified anti-decoupling stub ACME mating threads
- +200°C operating temperature
- “Triple ripple” wire sealing grommet (75,000 ft. rated)
- Snap in, rear release crimp contacts
- Metal contact retention clips
- Integral Nano-Band shield termination platform
- EMI shielding effectiveness per D38999M para. 4.5.28 (65 dB min. leakage attenuation @ 10GHz)
- MIL-S-901 Grade A high impact shock

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION



Mighty Mouse micro
miniature connector series
for optimized SWaP

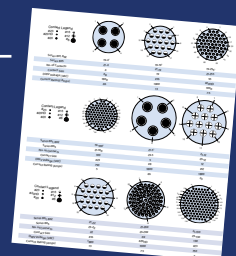


Mighty Mouse vs. 38999: less than
half the size and weight.

Mighty Mouse connectors:
reducing the size and
weight of electrical wire
interconnect systems
since 1997

- 8 coupling styles and 67 contact arrangements from 1 – 130 contacts
- MIL-DTL-38999 caliber performance
- Size #23, #22, #20, #20HD, #16, #12, #8 signal, power, RF, and high-speed contacts
- Discrete connectors and turnkey cable assemblies

FULL RANGE OF SUPPORTED CONTACTS, 67 CONTACT ARRANGEMENTS



67 arrangements,
from 1–130 contacts

GLENAIR SIGNATURE Mighty Mouse Connectors and Cables



Awesome performance, itty-bitty package

CHOOSE FROM 8 DIFFERENT COUPLING DESIGNS



AVAILABLE MIGHTY MOUSE CONNECTOR CLASSES



AVAILABLE NEXT-GENERATION TACTICAL CONNECTOR SERIES



SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

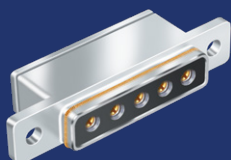
SERIES
790
HD

Micro miniature high-density
crimp-contact rectangular with
advanced environmental and
EMC performance

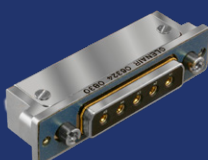


Series 790 is the advanced-performance, aerospace-grade crimp-contact rectangular connector

SERIES 790 MICRO-CRIMP PRODUCT SELECTION GUIDE



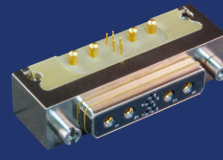
Crimp terminated
cable connectors



Crimp terminated
panel mount
connectors



Panel mount
connector with
auxiliary sealing



90° PCB panel mount
and free-standing
connectors

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

HIGH-DENSITY Series 790 Micro-Crimp

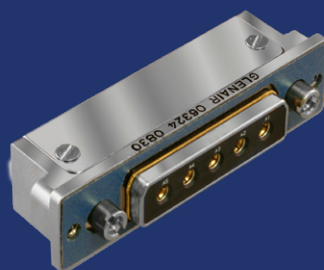


Micro miniature crimp-contact rectangular

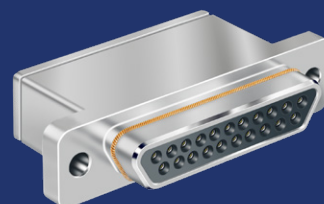
SERIES 790 MICRO-CRIMP TECHNOLOGY SHOWCASE



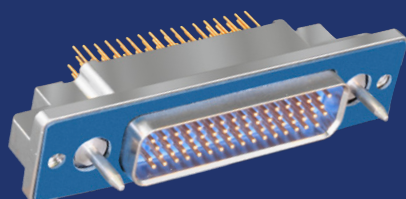
31 insert arrangements supporting signal, power, and high-speed contacts



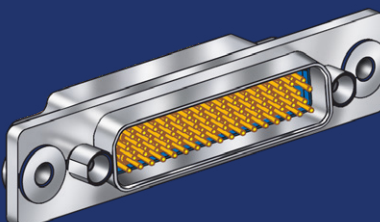
Integrated EMI Shroud
Right angle printed circuit board connectors have an EMI shroud to prevent electromagnetic interference.



Integrated Ground Spring
Series 790 plugs are available with auxiliary EMI springs for superior EMC performance.



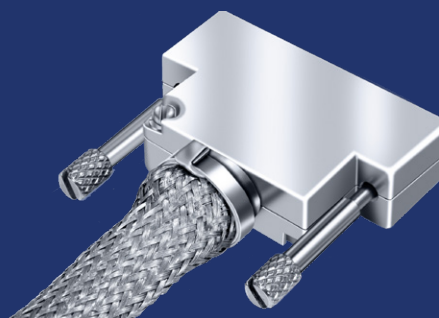
Guide Pins for Blind Mating
Series 790 panel connectors can be configured with guiding hardware for module-to-chassis applications.



Float Mount Connectors
790-050P connectors are equipped with rear-panel float mounting assemblies to provide additional mounting lee-way in rack and panel applications.



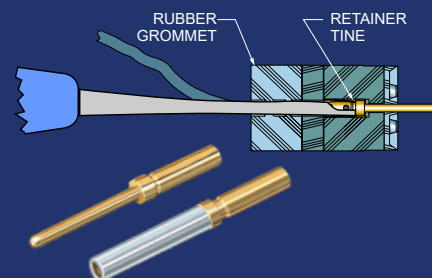
EMI Backshell Adapters
These two-piece adapters fit into a groove on Micro-Crimp cable connectors. Attach to connector with screws (provided). Elliptical banding platform provides ample room for large wire bundles.



Jackpost Hardware Options
A complete range of jacking hardware is available including captivated, low-profile and extended versions.



Shield Termination System
Glenair Band-Master Advanced Termination System delivers turnkey shield termination tools, bands, and calibration services.



Rear-Release Crimp Contacts
Series 790 Size #23 contacts conform to the AS39029 requirements but are not covered by a slash sheet. Size #16 and size #12 contacts are standard "QPL" contacts used in MIL-DTL-38999 connectors.

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SERIES™
791
Scoop-
Proof

Precision-machined
micro-miniature rectangular
connector for demanding
aerospace applications



Originally designed for NASA's Orion project, the 791's small size and blind mate capability make it a perfect choice for 2U and 3U electronics modules. Applications include radars, satcom, exoatmospheric vehicles, flight avionics, power distribution units, and satellite instrumentation.

Polarized / keyed shells prevent mis-mating and allow designers to specify identical layouts side-by-side without risk of circuit damage

- Dual-lobe small form factor aerospace-grade rectangular connector approved for manned space flight
- Scoop-proof recessed pin contacts
- 37 arrangements; 12 shell sizes; size 23, 16, 12 and 8 contacts
- Environmental
- EMI shielded
- Guide pins for blind mate modules



Prevent mis-mating with Mod Code 555 special keying option

SCOOP-PROOF Series 791 Dual-Lobe Micro Miniature Crimp-Contact Rectangular



For demanding space applications

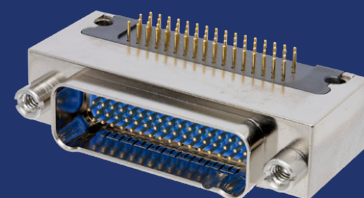
FEATURES OF SERIES 791 COMPARED TO MICRO AND D-SUBMINIATURE CONNECTORS



Higher-density crimp-contact insert arrangements



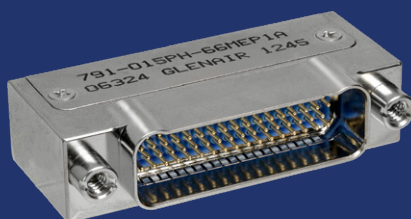
High-density power and mixed power-and-signal arrangements



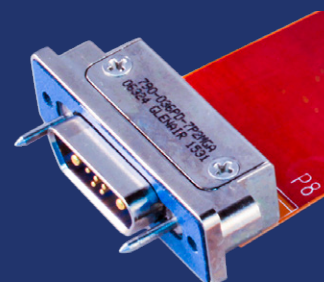
Fully-shrouded straight and right-angle PC tail configurations



Panel-mount design with O-ring sealing



Scoop-proof mating interface



Float-mount designs for rack-and-panel applications



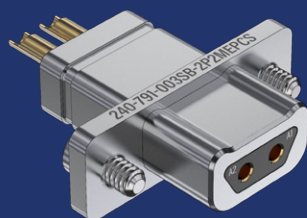
Rugged-construction dual polarization lobes



Special keying option prevents mis-mating



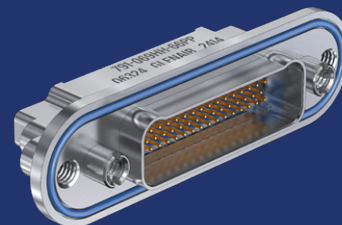
Integrated banding porch for shield termination



EMI / RFI filter receptacles



High-temperature +300°C ThermoRex configurations



Glass-to-metal seal hermetic connectors

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SERIES™
792
High-Speed

Micro miniature rectangular
connector with El Ochito[®]
contacts for high-speed
aerospace applications



The Series 792 connector brings high-speed data-rate performance to the Glenair Series 79 rectangular family. Size 8 cavities accept standard Quadrax or El Ochito[®] shielded octaxial contacts making it a perfect choice for radars, weapons systems, mission computers and displays, communications gear, and more.

HIGH-SPEED PROTOCOL CAPABILITY:

- 10GBase-T
- 40GBase-T
- HDMI 2.0
- DisplayPort 1.4
- DVI Single / Dual
- eSATA / SATA 3.0
- SpaceWire
- USB 3.2 Gen 1x1

El Ochito[®]

- High-speed Ethernet, USB 3.0, HDMI, and DisplayPort
- PCB-mount and cable connectors
- Scoop-proof interface
- 12 arrangements, 6 shell sizes, from 1 to 9 way
- Precision-machined dual-lobe polarized shells
- Environmentally sealed
- Integrated EMI shielding and grounding
- Blind mating

HIGH-SPEED Series 792 Micro-Crimp Contact Rectangular



With high-density El Ochito octaxial shielded contacts

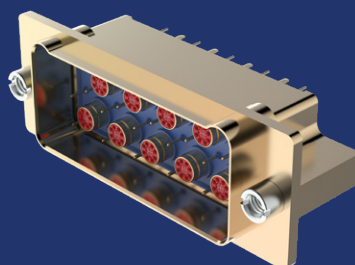
DESCRIPTION	REQUIREMENT	PROCEDURE / NOTES
Operating temperature	-65° to +175°C	EIA-364-32 Test Condition IV
Current rating	1.5 Amps (datalink contacts) 5 Amps (Size #23 contacts)	Datalink contacts tested: El Ochito® White
DWV (sea level)	750 VAC (Size #23 contacts) 1000 VAC (datalink contacts)	EIA-364-20
Insulation resistance	5000 MΩ minimum	EIA-364-21
Contact resistance, 25°C	55 millivolt maximum	EIA-364-06, 1.0 A test current, #24 AWG wire

DESCRIPTION	REQUIREMENT	PROCEDURE / NOTES
Shell-to-shell resistance	2.5 millivolt maximum	EIA-364-83
Shielding effectiveness	Frequency Attenuation dB	EIA-364-66
	100 75	
	1000 50	
	3000 44	
	6000 38	
Ingress protection	10000 35	IEC-60529
	IP67 rating	



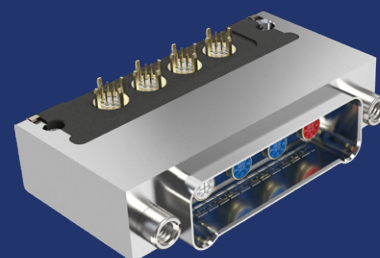
Twinax, Quadrax and El Ochito®

Connectors are available in three configurations: twinax for a single high-speed wire pair, quadrax for two data pairs, and El Ochito® for four.



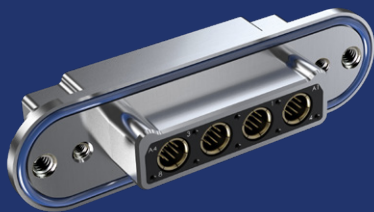
Up to 9 data ports

The Series 792 Size F with nine ports is the largest connector in the series and is the only two row version. Sizes A – E, with one to five ports, are single row.



PCB Connectors

Series 792 PCB connectors have straight or right angle PC tails. Contacts are non-removable and are epoxy sealed.



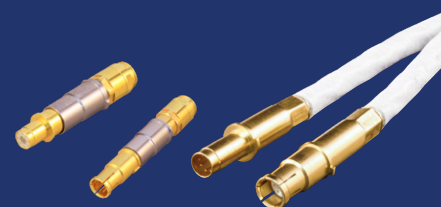
Panel Mount

Panel mount connectors have O-ring and threaded mounting holes for easy installation and are available with guide pins and float mounts.



Cable Connectors

High-speed shielded contacts snap into Series 792 cable connectors and are easily removed with a standard plastic tool.



El Ochito® Contacts and Jumpers

Available as catalog offerings for Ethernet, SuperSpeed USB, HDMI, DisplayPort, SATA, and other multi-gigabit protocols.

El Ochito® octaxial contacts are intended for harsh environment military and aerospace data networks, and provide up to 50% total weight savings and 20 times faster data rates compared to legacy quadrax-based solutions.



El Ochito®
White
GbE
10GbE
40GbE



El Ochito®
Blue
USB 3.0



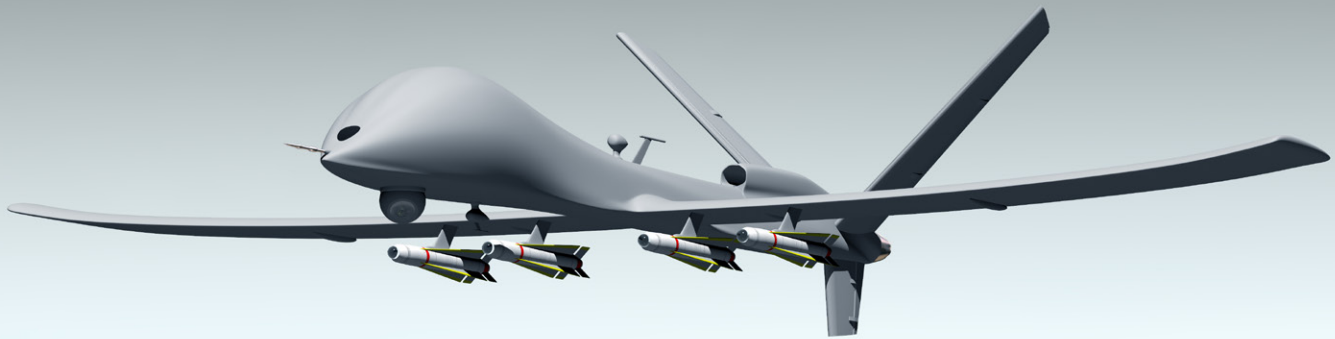
El Ochito®
Red
HDMI, SATA,
DisplayPort

- Snap-in, rear release octaxial contact for use with aerospace-grade high-speed cable
- Environmentally protected
- Support for all major high-speed datalink protocols
- Significant size and weight savings compared to quadrax

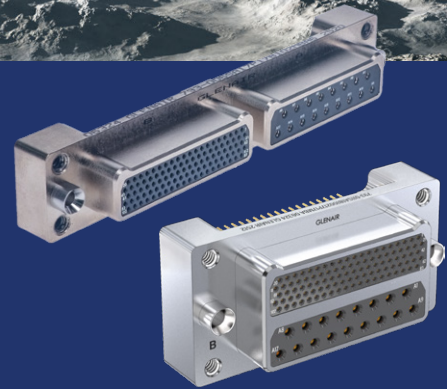
SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SERIES
793
Dual-Bay

Dual-bay rack-and panel
scoop-proof micro-crimp
rectangular



The Series 793 Dual-Bay Micro-Crimp is a high-reliability aerospace-grade rectangular connector with two inserts for up to 204 contacts. Intended for vehicular and avionics equipment, the Series 793 Dual-Bay saves size and weight compared to legacy rack-and-panel connector designs. The tight-tolerance guide-pin equipped dual-lobe shell assures accurate alignment in rack-and-panel applications. Scoop-proof pin contacts are recessed to prevent damage.

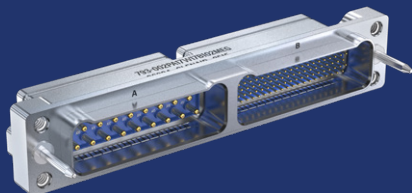


- Horizontal and vertical configurations
- Optimized for blind mate applications with robust guide hardware and mounting features
- Side-by-side or top-and-bottom dual-bay interface enables smaller footprint

DUAL-BAY Series 793 Rack-and-Panel



Side-by-side and top-and-bottom configurations



Connector Types

Crimp, Rear Release

793 connectors have metal retention clips inside the contact cavities. Wired contacts snap into connector bodies and can be removed with a release tool. Size 23 contacts are included with connector. Other sizes are ordered separately.

PCB Termination

793 connectors are available in straight tail or 90° PCB versions. Connectors have factory-installed PCB terminals. Terminals are epoxy sealed and are compatible with conformal coatings.

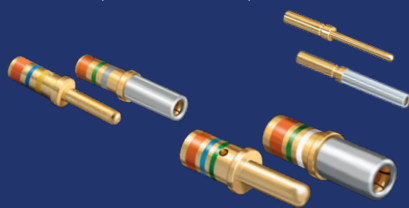
Contact Sizes

Size 23 (#22 – #28 AWG wire)

Size 16 (#16 – #20 AWG wire)

Size 12 (#12 – #14 AWG wire)

Size 8 (#8 AWG wire)



Panel Mounting

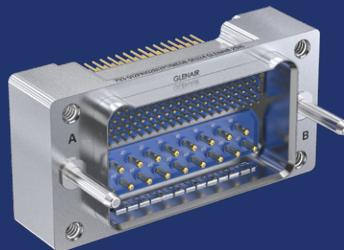
Space-saving Series 793 connectors are designed for rear panel installation. Panel mounting holes have stainless steel #6-32 self-locking threaded inserts.

Environmental Protection

793 crimp connectors have fluorosilicone wire grommets and interfacial seals for ingress protection. PCB versions have epoxy-sealed terminals.

Blind Mating

Series 793 connectors have precision machined shells and guide pins for use in blind mate rack-and-panel applications.



EMI Shielding

Ground Springs

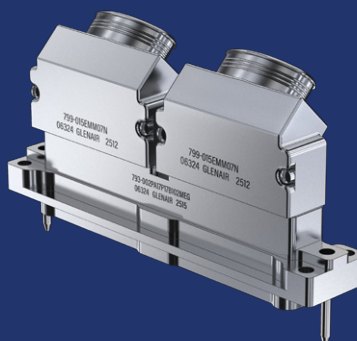
Optional ground springs provide low, stable shell-to-shell resistance. Available on 793 receptacles.

90° PCB Shroud

Right angle PCB connectors have a metal shroud over contact tails for EMI shielding.

EMI Backshell

Crimp connectors have grooves for attaching EMI backshells. Terminate cable shield to backshell with Band-Master ATS® band strap.

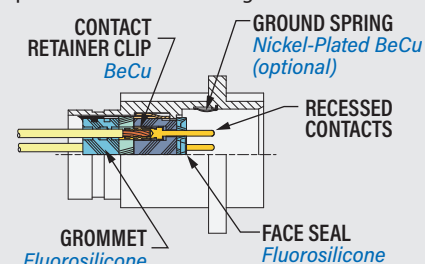


Hardware Options

Hardware options include guide pins, jackscrews, or screwlocks.

SCOOP-PROOF INTERFACE

Series 793 pin contacts are recessed to protect them from damage.



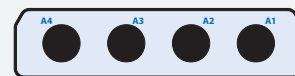
INSERT ARRANGEMENTS

Identification numbers are mating face of plug (socket) connector



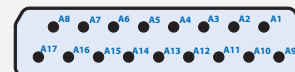
102

102 #23 Contacts



4W4

4 #8 Contacts



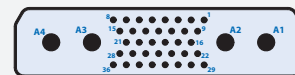
17W17

17 #16 Contacts



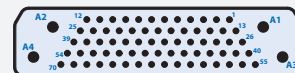
68W2

66 #23, 2 #12 Contacts



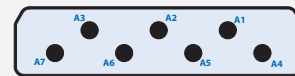
40W4

36 #23, 4 #12 Contacts



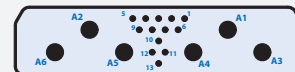
74W4

70 #23, 4 #16 Contacts



7W7

7 #12 Contacts



19W6

13 #23, 6 #12 Contacts

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SERIES™
794
Versa
Link

Advanced-performance
mil-aero rectangular with
VersaLink™ contact technology
for high-speed wire-to-board
applications



Series 794 brings high-speed performance to the Glenair Micro-Crimp family. Purpose-designed for VersaLink contacts, 794 connectors offer 1–36 high-speed VersaLink data ports in a single housing or in hybrid layouts with size 22HD contacts.

HIGH-SPEED PROTOCOL CAPABILITY:

- 10GBase-T
 - 40GBase-T
 - 100GBASE-CR4
 - HDMI 2.0 / 2.1
 - DisplayPort 1.4 / 2.0
 - DVI Single / Dual
 - eSATA / SATA 3.0
 - SpaceWire
 - USB 3.2 Gen 1x1, Gen 3x1, Gen 2x2, Gen 3x2
- Designed for avionics and other high-datarate aerospace applications
 - Supported protocols include 10Gb Ethernet, USB 3.0, HDMI, and DisplayPort and SATA
 - Dual-lobe, scoop-proof shells prevent mating damage
 - Available with optional polarizing keys
 - 1-36 VersaLink Pairs, plus #22HD contact combo layouts
 - Rugged environmental design with robust EMC performance
 - Ideal for blind-mate applications

VERSALINK Series 794 Micro-Crimp High-Speed Twinax



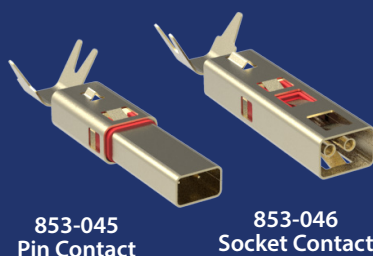
With "zero crosstalk" VersaLink™
Twinax contact modules



Available gold-plated panel spring improves electrical bonding for panel-mount connectors

The Series 794 is intended for harsh high-vibration avionics and aerospace applications. The series supports VersaLink High-Speed twinax contact modules for 10Gb Ethernet, USB 3.0, HDMI and other protocols. Machined aluminum alloy shells feature dual lobes for polarization. Pin contacts are recessed to prevent scooping damage. Rear-release crimp contacts conform to M39029 EMI grounding fingers in the receptacle minimize EMI. Fluorosilicone face seals and wire grommets protect from moisture and contamination. Panel mount versions are available with an O-ring or a metal spring for improved panel bonding. Board-mount versions include straight terminals.

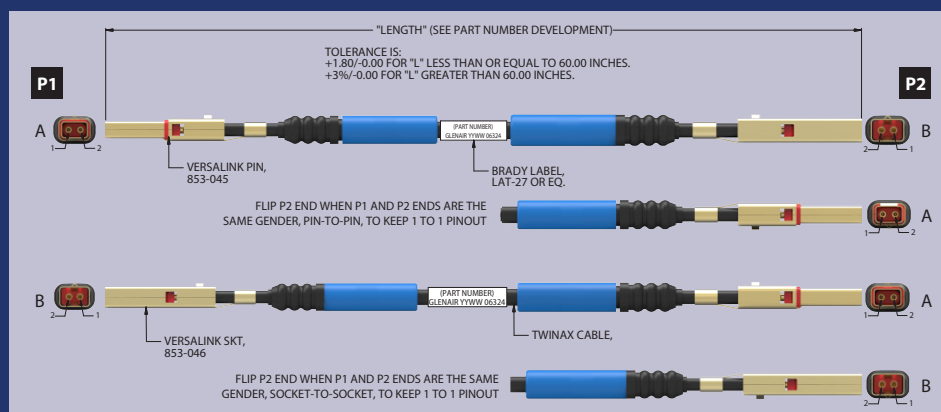
VERSALINK CONTACTS



853-045
Pin Contact

853-046
Socket Contact

8574-0001 VERSALINK PREWIRED CABLE ASSEMBLIES



SERIES 794 VERSALINK CONTACT ARRANGEMENTS

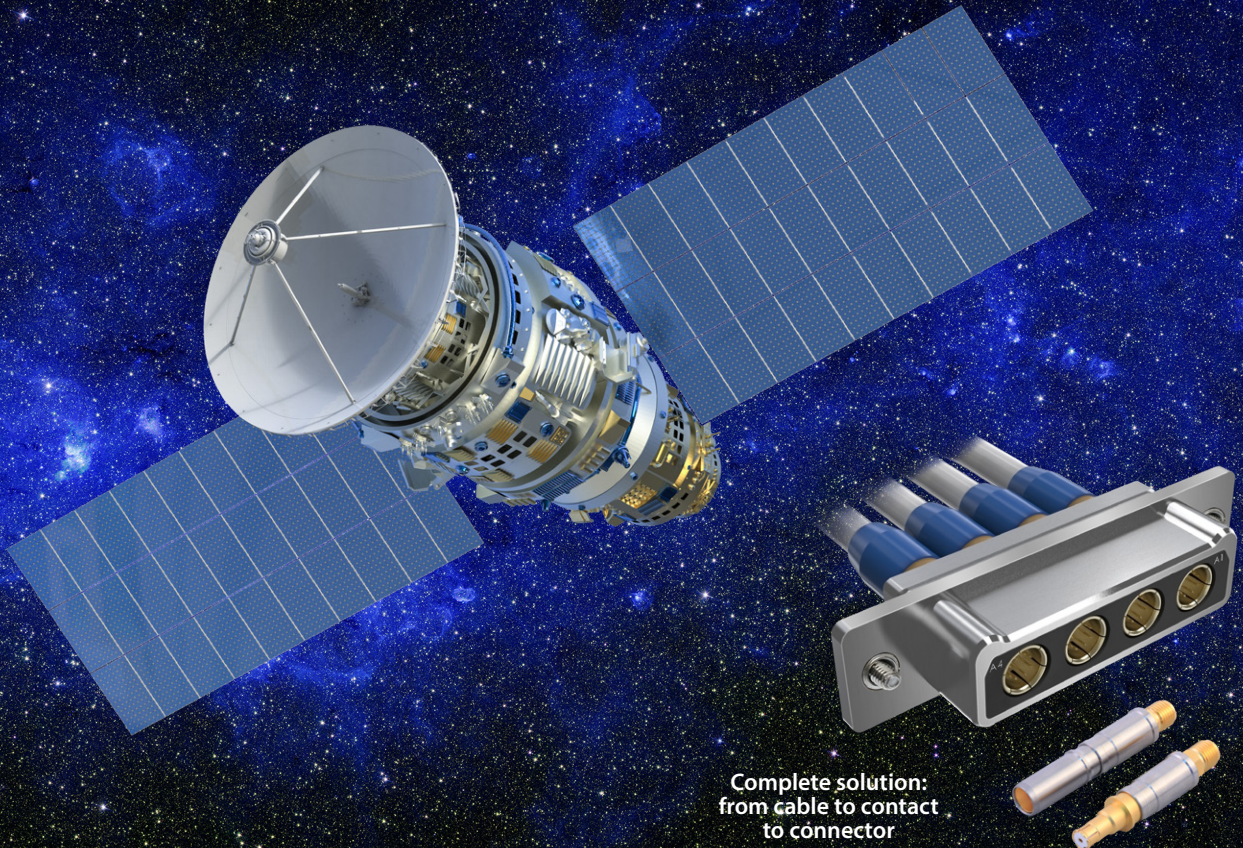
VersaLink Module
22HD Contact

22HD Connect						
A-1V: 1x VersaLink	B-2V: 2x VersaLink (SATA 3)	B-1V4:1X VersaLink; 4X 22HD	C-2V2:2X VersaLink; 2X 22HD	D-2V4:2X VersaLink; 4X 22HD (USB 3.1 Gen 2)	E-3V4: 3X VersaLink; 4X 22HD	E-2V6: 2X VersaLink; 6X 22HD
F-4V: 4X VersaLink (40G Ethernet)		G-4V12:4X VersaLink; 12X 22HD (USB 3.1, USB 3.2, HDMI, DisplayPort, DVI)		H-6V16: 6X VersaLink; 16X 22HD (DVI Dual Link)		J-6V:6X VersaLink
K-8V: 8X VersaLink		L-7V20: 7X VersaLink			P-4V: 4X VersaLink (40G Ethernet)	Q-8V8: 8X VersaLink
R-10V:10X VersaLink		R-8V16: 8X VersaLink; 16X 22HD			S-14V: 14X VersaLink	
T-18V: 16X VersaLink		U-36V: 36X VersaLink				

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SERIES
795
RF

Precision-machined, scoop-
proof aerospace-grade coax
connector for RF, microwave,
and mmwave applications



Complete solution:
from cable to contact
to connector

Series 795 RF connectors are supplied in single- and dual-row configurations with up to nine size #8, seventeen size #12, and seventeen size #16 cavities optimized for use with Glenair Series 852 high-frequency RF contacts. The scoop-proof dual-lobed shell protects the interconnect from mis-mating and mechanical damage. Robust environmental sealing ensures life-of-system reliability. Crimp-removable contacts snap easily into the connector housing and accept high-performance, low-loss BluMark RF cable.

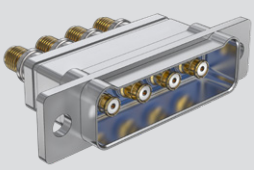
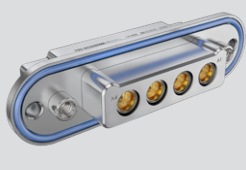
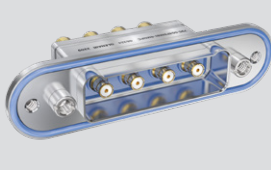
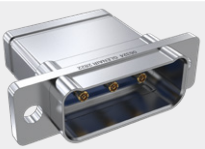
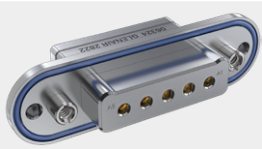
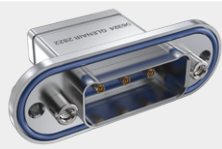
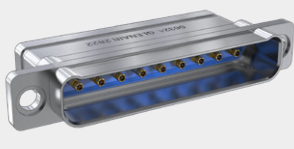
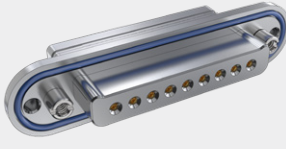
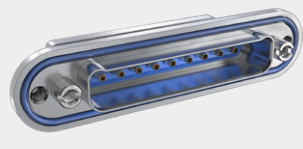
- High-frequency, multi-pin RF solutions from 18 GHz to 65 GHz
- Twenty-six layouts for size #8, #12, or #16 RF contacts (sold separately)
- Unibody connector design with common ground plane
- Environmentally-sealed
- Scoop-proof interface
- EMI spring available on receptacle connectors
- Snap-in, rear-release contact design
- Optimized for 50 Ohm BluMark RF coax cables

Series 795 Micro-Crimp Multipin RF

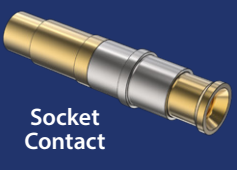
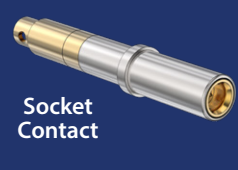


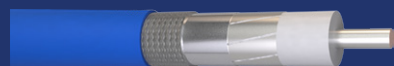
Multi-port micro miniature rectangular with drop-in support for RF and microwave contacts

Series 795 RF Connector Selection Guide

Cable Plugs, Socket Contacts	Cable Receptacles, Pin Contacts	Panel Mount Plugs, Socket Contacts	Panel Mount Receptacles, Pin Contacts
 795-001S (#8 BMB Contacts)	 795-002P (#8 BMB Contacts)	 795-003S (#8 BMB Contacts)	 795-004P (#8 BMB Contacts)
 795-005S (#12 SMPM Contacts)	 795-006P (#12 SMPM Contacts)	 795-007S (#12 SMPM Contacts)	 795-008P (#12 SMPM Contacts)
 795-009S (#16 SMPS Contacts)	 795-010P (#16 SMPS Contacts)	 795-011S (#16 SMPS Contacts)	 795-012P (#16 SMPS Contacts)

GLENAIR SIGNATURE HIGH-FREQUENCY RF CONTACTS AND BLUMARK RF CABLE

50 Ohm 18 GHz BMB	50 Ohm 40 GHz SMPM	50 Ohm 65 GHz SMPS
 Pin Contact 852-071	 Pin Contact 852-099	 Pin Contact 852-133
 Socket Contact 852-070	 Socket Contact 852-100	 Socket Contact 852-159



BLUMARK
COAX CABLES **RF**

Series 962 BluMark RF 50 Ohm Coax Cables are available in eight size categories: 047, 086, 130, 141, 160, 200, 235, and 300. These low attenuation cables are suitable for aerospace applications and test equipment. Jacket options include FEP and radiation-resistant space-grade ETFE. Triple-shielded high performance cables have expanded PTFE dielectric core for low loss up to 40 GHz.

- Low attenuation
- FEP and ETFE jackets
- Low phase change cables
- Eight size categories
- Compatible with standard RF/microwave connectors

SMALL FORM-FACTOR
INTERCONNECTS
FOR SIZE AND
WEIGHT REDUCTION

SUPERFLY DATALINK



The nano miniature 10G Ethernet,
USB 3.0, and DisplayPort connector with
El Ochito® octaxial contact technology

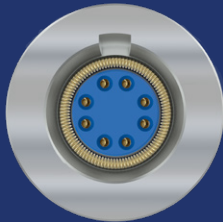


High speed, harsh environment SuperFly® Datalink connectors—with shielded El Ochito® octaxial contacts for 10Gb Ethernet, SuperSpeed USB, and high datarate video display protocols—deliver outstanding signal integrity and save significant size and weight compared to Quadrax.



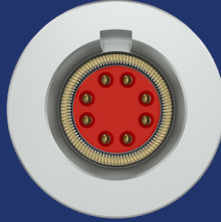
**SuperFly Datalink
White**

Up to 40G Ethernet



**SuperFly Datalink
Blue**

SuperSpeed USB



**SuperFly Datalink
Red**

HDMI, DisplayPort 1.4,
and SATA

- Ultra-small size
- Shielded Octaxial contacts
- Up to 5 Gbps
- 10Gb Ethernet and SuperSpeed USB
- El Ochito Red insert for high-speed video; consult factory for layouts
- Environmentally protected
- Factory-terminated cables or discrete contacts and cables for customer assembly

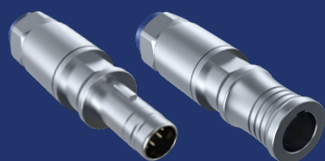
SERIES 882 SuperFly[®] Datalink High-Speed Nano Miniature



With El Ochito[®] octaxial contact technology

CONNECTOR CONFIGURATIONS

Quick-disconnect “push-pull” versions are ideal for tactical gear. Threaded-coupling versions are intended for aircraft and space-grade applications where secure mating is a requirement.



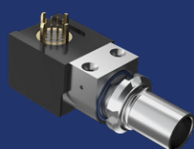
Quick Disconnect



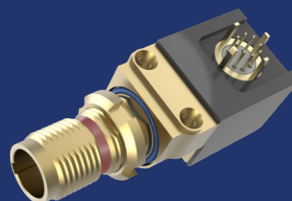
Threaded Coupling



Straight PC Tails

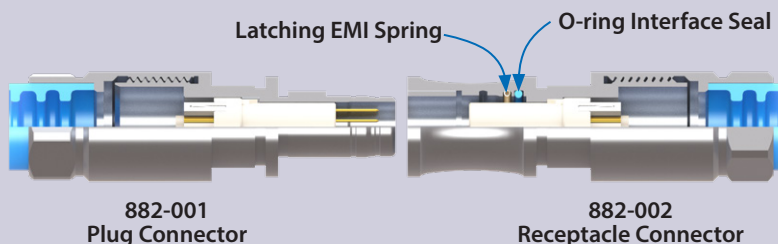


Right Angle PC Tails



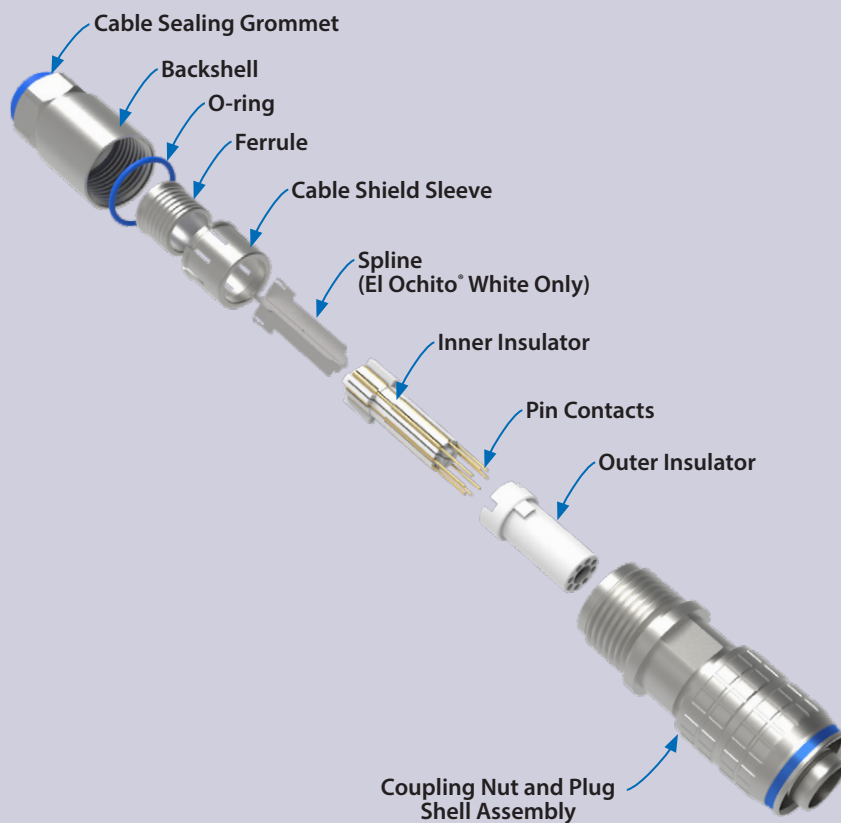
Conformal-coating-compliant panel mount connectors

PUSH-PULL QUICK-DISCONNECT



Push-pull SuperFly Datalink receptacle connectors feature a canted coil spring for secure mating and excellent EMI protection. A fluorosilicone O-ring provides watertight sealing when mated.

THREADED-COUPLING CABLE CONNECTOR



Cable connectors feature gold-plated crimp contacts, precision insulators, integral backshell, sealing grommet, and machined shells. Cable connectors are available as unassembled kits or ready-to-use factory-terminated cordsets.

HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS



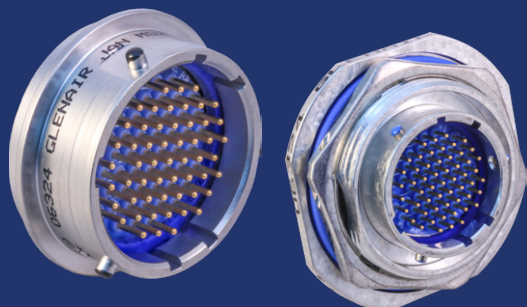
The advanced-performance MIL-DTL-38999
Series I type bayonet-lock connector



"Better-than-QPL" three-point
high-vibration bayonet coupling

SuperNine® is a "Better-than-QPL"
MIL-DTL-38999 signature series
offering available only from Glenair.
Series I scoop-proof bayonet-lock
connectors deliver outstanding
vibration and shock performance
and fast mating / demating.

ALSO AVAILABLE: SUPERNINE SERIES II LOW-PROFILE



SuperNine Series II is a
low-profile, non-scoop-
proof design that offers
the same fast bayonet-
lock mating as Series I
while saving space and
weight. Environmental,
Hermetic, and Filter
classes available.

- Scoop-proof design prevents pin damage and short circuits
- Improved, positive-lock, 3-point stainless-steel pin bayonet coupling for outstanding shock and vibration resistance
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500 + mating cycles exceeds MIL-DTL-38999 specification
- Glenair signature Tin-Zinc finish is RoHS compliant and cadmium compatible

SERIES 23 SuperNine MIL-DTL-38999 Series I



Scoop-proof bayonet-lock connectors with "Better-than-QPL" performance

- Integral banding porch eliminates need for add-on accessories
- Improved plug ground fingers deliver outstanding EMI performance
- Precision-machined key/keyway polarization for reliable mismatching protection
- Expanded receptacle styles include clinch nut and helicoil mounting, and i-line configurations

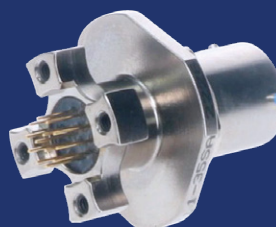
ENVIRONMENTAL CRIMP-CONTACT AND PC-TAIL CONFIGURATIONS



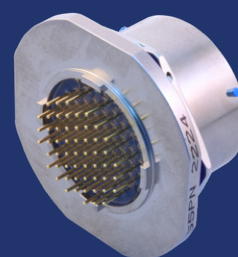
Integrated banding porch



Sav-Con® connector savers and gender-changing adapters



Dual-standoff, metric and standard-threaded, and washout standoff PC-tail receptacles



HIGH-SPEED ENVIRONMENTAL PLUGS AND RECEPTACLES



SpeedLine
Controlled-Impedance Cables

Optimized for Glenair signature El Ocho octaxial high-speed contacts and SpeedLine high-speed protocol cable



WHITE
10GBASE-T

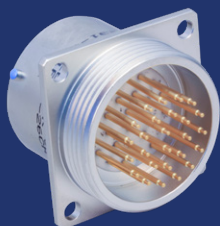


BLUE
USB 3.0

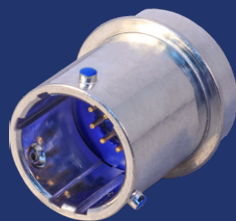


RED
HDMI, SATA, DisplayPort

GLASS-SEAL AND SIGNATURE CODE RED LIGHTWEIGHT HERMETIC CONNECTORS WITH $<1 \times 10^{-7}$ LEAK RATE PERFORMANCE



Wall-mount receptacle



Solder-mount receptacle



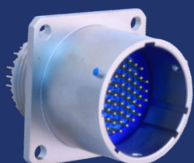
Jam-nut receptacle



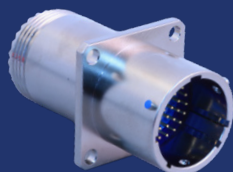
Lightweight CODE-RED hermetic seal connectors



EMI/EMP FILTER CONNECTORS



Wall-mount receptacle with PC tail or solder-cup contacts



Wall-mount receptacle with crimp contacts



Jam-nut receptacles—crimp, solder, or PC-tail contacts



Filter Sav-Con® connector adapters

HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS



The advanced-performance MIL-DTL-38999
Series III type connector



Glenair recommends
SplayMaster cable
organizer backshells
for high-speed and RF
SuperNine applications

SuperNine® Series III is a "Better-than-QPL" MIL-DTL-38999 connector family with outstanding durability, sealing, ease of shield termination, PC tail configurations, environmental and hermetic classes, connector savers, plus off-the-shelf EMI/EMP filter connectors and more—all with Glenair's legendary service, support, and product availability.

- Across-the-board improvements in mating-cycle and contact durability
- Advanced ease-of-use features such as integrated band porches and PC-Tail standoffs
- Advanced-performance improvements in every connector class—from filters to composites
- Complete range of IP68 PC tail receptacles with high-durability contacts
- Five different designs of printed circuit board connector standoffs
- DLA QPL versions also available



Triple-start stub-ACME connectors with "Better-than-QPL" performance

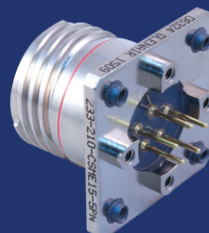
ENVIRONMENTAL CRIMP-CONTACT AND PC-TAIL CONFIGURATIONS



Anti-decoupling, high vibration ratcheting cable plug with integral band porch



Environmental feed-thru receptacle with signature Tin-Zinc RoHS plating materials



Environmentally-sealed PCB receptacle with threaded standoffs and clinch nuts



SuperNine PowerPlay with Crown Ring contacts. Optimized for use with TurboFlex cable

HIGH-SPEED AND RF ENVIRONMENTAL PLUGS AND RECEPTACLES



SpeedLine
Controlled-Impedance Cables™

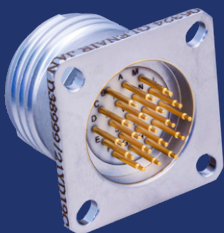
Optimized for Glenair signature El Ocho octaxial high-speed contacts, SpeedLine high-speed protocol cable, and SplayMaster cable organizer backshells



BLUMARK RF
COAX CABLES™

High-frequency RF multi-pin solutions optimized for use with Glenair signature BluMark RF coax cables and SplayMaster cable organizer backshells

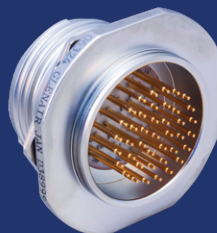
GLASS-SEAL AND SIGNATURE CODE RED LIGHTWEIGHT HERMETIC CONNECTORS WITH $<1 \times 10^{-7}$ LEAK RATE PERFORMANCE



Glass-to-metal sealed and lightweight CODE RED encapsulant-seal hermetic



Hermetic bulkhead feed-thrus for variable panel thicknesses



Weld-mount hermetic receptacle



Wire termination options—from solder cup to crimp and PC tail

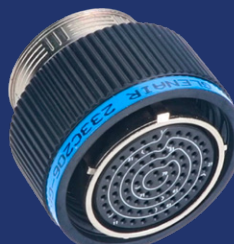
EMI /EMP FILTER CONNECTORS



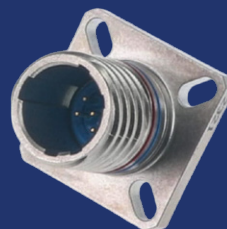
Signature Sav-Con filter connector cable adapter with RoHS MegaNickel plating



EMI / EMP filter receptacle with solder cup wire termination



Molded composite thermoplastic PEEK plugs and receptacles in classes J (Cad/O.D.) and M (Electroless Nickel)



HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS



The advanced-performance MIL-DTL-38999
Series IV breech-lock connector



From vertical launch fire-control, tracking, and multi-target missile systems to rugged industrial applications, Glenair "Better-than-QPL" SuperNine and DLA-qualified D38999 Series IV connectors are the ultimate solution for positive and reliable breech-locking performance.

- QPL manufacturer of MIL-DTL-38999 Series IV Class F, W, and G connectors
- "Better-than-QPL" SuperNine Series IV offers advanced performance and features beyond the mil-spec
- Optimized for SWAMP area applications
- Quick-disconnect 90° breech coupling mechanism
- Visual, audible, and tactile full-mate indicators
- Integrated EMI grounding fingers
- -65°C to 200°C operating temperature range



QPL QUALIFIED AND GLENAIR SIGNATURE SuperNine MIL-DTL-38999 Series IV

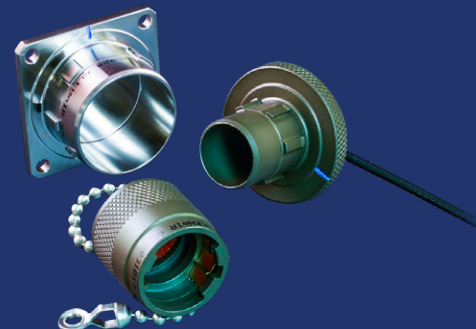


Breech-lock connectors with “Better-than-QPL” performance

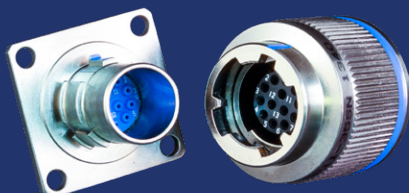
SUPERNINE SERIES IV “BETTER-THAN-QPL” FEATURES AND BENEFITS

- Secure breech-lock mating connector meets D38999 shock and vibrate
- Integral banding porch eliminates need for back-end accessories
- Improved plug ground fingers deliver outstanding EMI performance—equal to D38999 Series III
- Glenair Signature Tin-Zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, #12, and High-Speed Twinax, Quadax, and Octaxial EI Ochito Size #8 plus hybrid arrangements
- 500 mating cycles exceeds MIL-DTL-38999 specification

38999 SERIES IV ACCESSORIES



QPL accessories including protective covers and dummy receptacles



Series IV solutions are available in environmental and hermetic class configurations in shell sizes from 11–25 supporting a popular range of MIL-STD-1560 insert arrangements

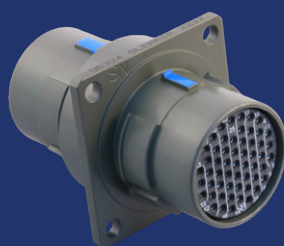


Glenair's complete Series IV solution includes support for power, signal, and hybrid insert arrangements including shielded coax, #22, #20, #16, and #12 contacts

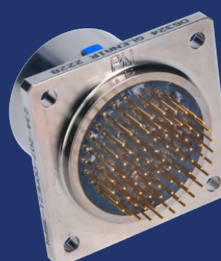
“BETTER-THAN-QPL” SUPERNINE SERIES IV CONNECTOR DESIGNS



Sav-Con® connector saver, black zinc-nickel finish



Dual-flange panel-mount feedthrough



Panel-mount receptacle with sealed PC-tails



Plug with wing-lock coupling and EMI ground fingers

SUPPORTED CRIMP-CONTACT SHELL STYLES



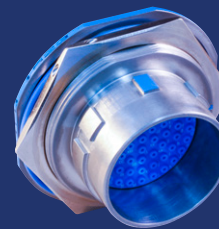
Plug



Wall-Mount Receptacle



Box-Mount Receptacle



Jam-Nut Receptacle



In-Line Receptacle

HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS



Best-of-Class Hermetic
Seal Connector Design



Resolve gas, moisture and
particle ingress problems with
conventional glass-sealed
hermetic or advanced
CODE RED lightweight
encapsulant-sealed
designs

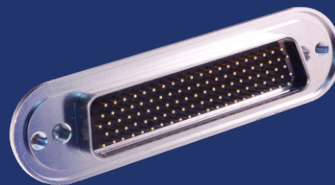
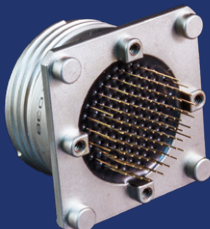
ALL SOLUTIONS DELIVER

- Superior pressure resistance to 32,000+ PSI
- Higher resistance to extreme operating temperatures to 260°+ C
- Superior mechanical strength
- No material breakdown or aging over time
- Helium leak rate $<1 \times 10^{-7}$ cc/sec to 1×10^{-10}

CODE RED

LIGHTWEIGHT HERMETIC SEALING

Lightweight hermetic encapsulant sealing solution with 1×10^{-7} leak rate performance. Available today in Mighty Mouse 806 Mil-Aero, M24308/9 D-Sub and D38999/23



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

ADVANCED PERFORMANCE Glass-Sealed Hermetic Connectors

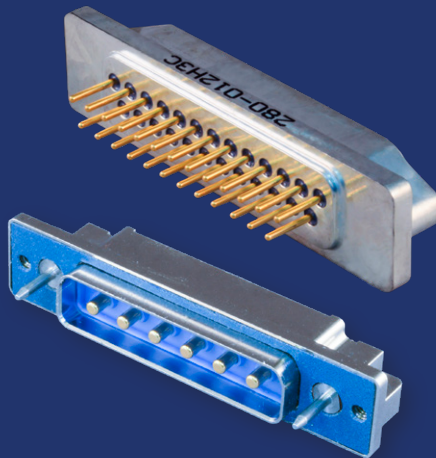


Thousands of same-day-availability part numbers

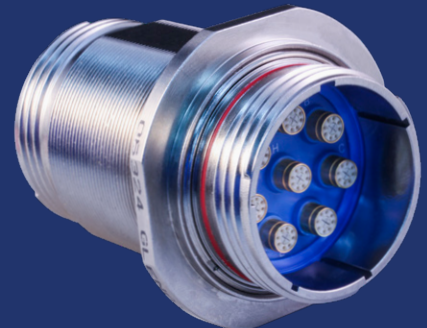
UNIQUE HERMETIC OFFERINGS AND CATALOG (COTS) SOLUTIONS



Coax, Triax, Quadrax and
hybrid-contact layouts



Rectangular hermetics including
Series 28 HiPer-D and Series 79



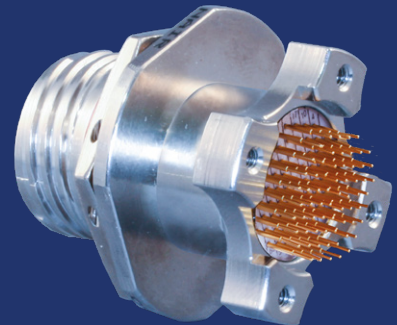
El Ocho high-speed octaxial contacts
in a lightweight CODE-RED sealed
bulkhead feed-thru



Triax hermetic



Hermetic Sav-Con
Feed-thrus and Gender
Changers



Dual-flange PC tail
hermetic



Hermetic with crimp-
removable contacts



Hermetic bulkhead
penetrators



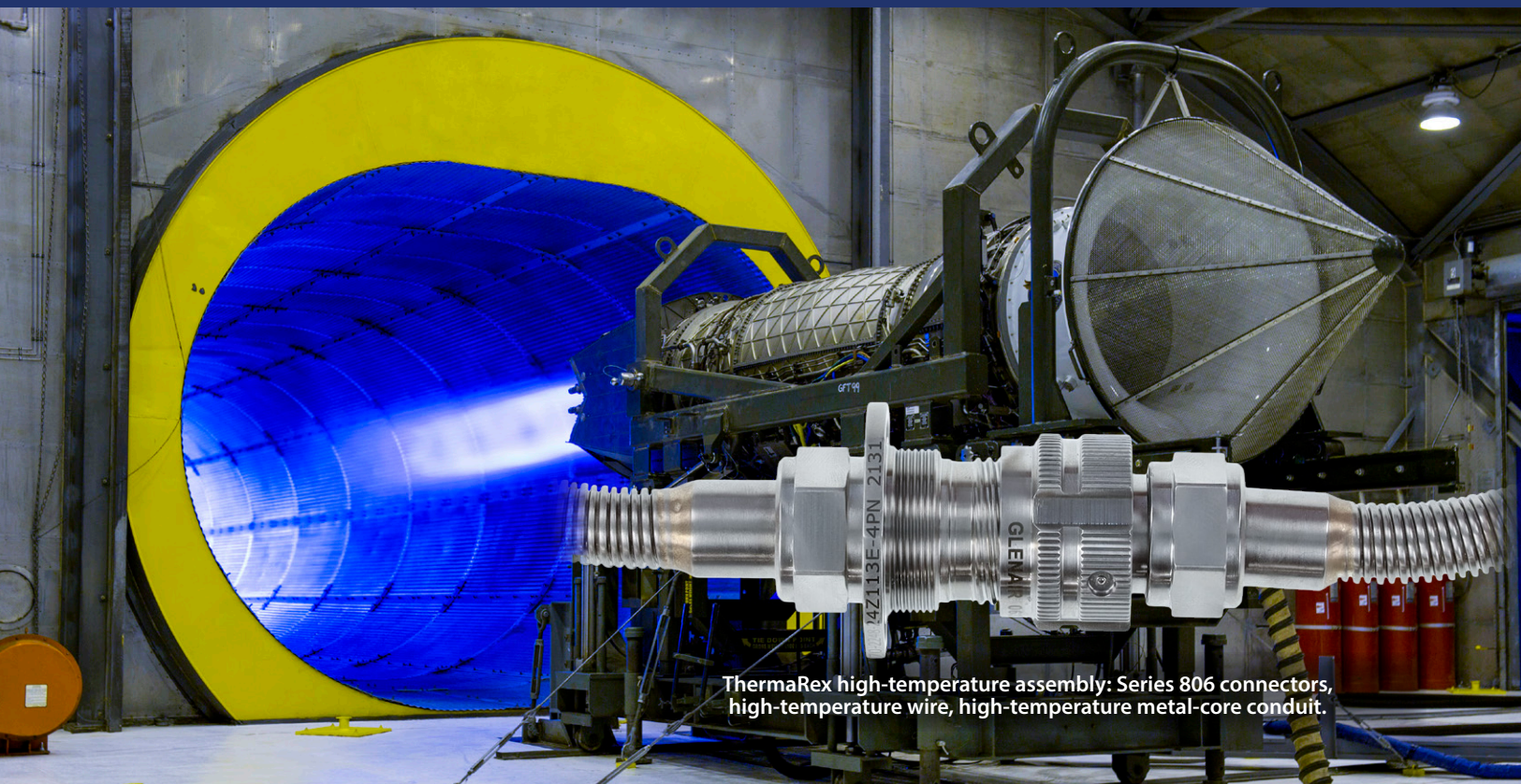
Hermetic receptacles with
integrated band porch

HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS

ThermaRex™

CRYOGENIC • HIGH-TEMPERATURE

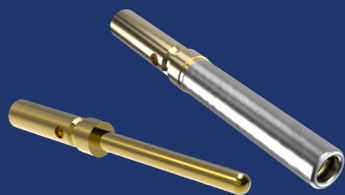
Cryogenic and high-temperature tolerant
connectors, cables, and conduit systems



ThermaRex high-temperature assembly: Series 806 connectors, high-temperature wire, high-temperature metal-core conduit.

Sensor devices in aerospace engine applications are increasingly exposed to higher temperature operating environments. Rugged sensors in FADEC equipment—an extreme high temperature environment—are also exposed to temperature extremes well beyond the capabilities of conventional interconnect devices. Glenair ThermaRex interconnect solutions are designed to survive and excel in high continuous operating temperature application environments. The ThermaRex product family includes connectors, cables, and wire protection conduit systems.

HIGH-TEMPERATURE TOLERANT CROWN RING CONTACTS: ThermaRex™ HT SERIES



Glenair Signature Crown Ring contact series provides reduced contact resistance, superior conductivity, and higher temperature-tolerance than conventional AS39029 contacts.

- Superior conductivity performance compared to beryllium copper contacts, across full temperature range
- Up to 60% lower contact resistance than AS39029 contacts (normalized, less wire)
- Contact bodies made from high-temperature and stress-relaxation-resisting non-beryllium copper material
- Stainless steel Crown Ring
 - Provides socket forces without stress relaxation at high-temperatures
 - Moves socket spring function from socket body to ring, allowing use of high-conductivity copper
- Gold over nickel plating
 - Thicker plating than industry standards for reduced contact fretting and higher temperature endurance
 - Gold over nickel is “gold standard” for high-reliability aerospace contacts
- Crimp versions use standard industry tooling, including crimp die/locator and insertion/extraction tools (2AWG Crown Ring contacts require custom tooling)

EXTREME-TEMPERATURE TOLERANT ThermaRex Interconnect Solutions



High-temperature and Cryogenic

The ThermaRex product family includes connectors, cables, and wire protection conduit systems organized into two temperature ranges: ThermaRex HT (high-temperature), and ThermaRex Cryo.

260°C ThermaRex HT Connector



- Service rating up to 260°C
- Vibration-resistant threaded coupling
- High-temperature ceramic insulators and silicone seals
- Durable stainless steel construction
- Available in Series 806 and SuperNine®
- Utilizes Glenair Crown Ring contacts

-195°C ThermaRex Cryo Connectors for Liquefied Natural Gas Sensor Applications



Environmental



Hermetic

Environmental

- Environmental-class service rating down to -195°C
- Vibe and shock at D38999 level, immersed in LN2
- Cryogenic temperature-resistant Duraelectric K grommet and interfacial seals
- Cold temperature-resistant thermoplastic dielectric insulator

Hermetic

- Hermetic-class service rating -195°C to +200°C
- Series 806 micro-miniature high-density packaging
- Corrosion-resistant stainless steel shell construction
- Glass-to-metal hermetic seal leak rate $<1 \times 10^{-7}$ cc He / sec @ 1 ATM

Complementary ThermaRex Ecosystem Technologies



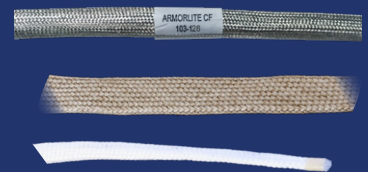
High- and low-temperature hookup wire and shielded twisted pair



High-temperature polymer-core wire protection conduit



Flexible stainless steel metal-core jacketed conduit



Three classes of high-temperature tolerant flexible braided shielding

HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS



**Blind-mate, float-mount, and assisted
release connectors with adjustable
separation force and misalignment feature**



- Designed to withstand the rigors of launch and flight—including shock, vibration, thermal vacuum, acceleration, and temperature extremes
- Crimp-removable contacts standard. PC tails, dual-flange standoffs, hermetically sealed, and custom blind-mate configurations available

Dead-Face connectors for isolation and disconnection of electrical signals prior to connector separation.

HIGH-DENSITY SUPERNINE SERIES III LANYARD-RELEASE IAW MIL-DTL-38999 AND MIL-STD-1560



Lanyard-release plug with
adapter code H accessory
thread interface



Lanyard-release plug with
integrated cable shield
banding platform



Broad range of insert
arrangements
IAW MIL-STD-1560



Also available:
industry-standard
AS81703

SPACE-GRADE BLIND MATE SuperNine Float-Mount and Adjustable Separation Force Connectors



IAW MIL-DTL-38999, environmental, crimp contact

BLIND-MATE AND ADJUSTABLE SEPARATION FORCE (ASF) CONNECTORS



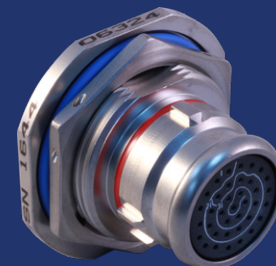
Roll-off nose: allows for the smooth disconnection of blind mate plugs and receptacles.



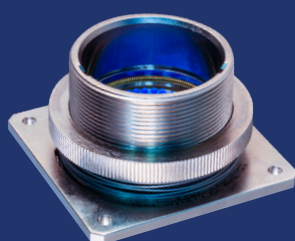
Float mounting: allows for coplanar movement of the receptacle during mating, preventing contact and shell damage. Environmental sealing is accomplished with auxiliary external seals.



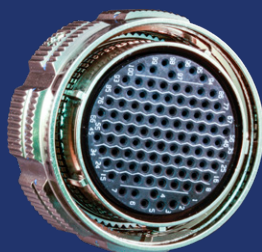
Misalignment accommodation: Radial, axial, and angular misalignment during mating is accounted for with integral wave springs.



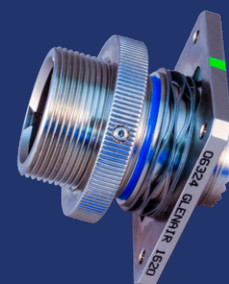
Glass-to-metal hermetic sealing: protects critical interfaces and instrumentation while allowing roll-on / roll-off blind mating.



EMI shielding: Glenair incorporates ground springs in receptacle connectors and grounding fingers in special coupling nut-equipped plugs to optimize 360° shell-to-shell continuity.



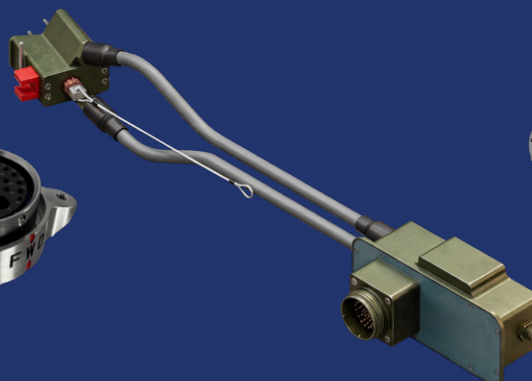
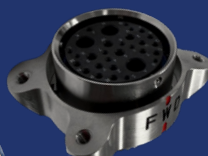
Assisted separation force: Adjustable kick-off style with spring-loaded posts and an adjustment ring to overcome contact retention (normal force).



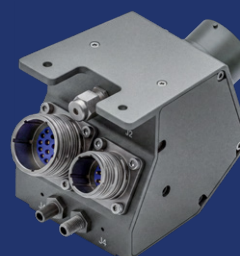
ALSO AVAILABLE: WEAPONS STORES, UMBILICALS, AND MISSILE-LAUNCH INTERFACE CONNECTORS



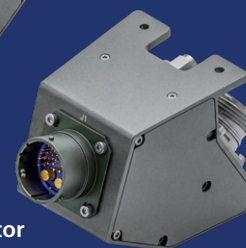
MIL-STD-1760 / MIL-DTL-83538 type Launcher, Store, and Buffer connectors



Hybrid lanyard-release umbilical assembly with power, signal, gas pipe, and gas valve interconnects



Multi-connector junction box assembly with power, signal, gas pipe, and RF interconnects



Glenair supplies complete launcher and store interconnect solutions, including MIL-STD-1760 / MIL-DTL-83538 rail-launch connectors, integrated umbilical looms, gas pipe interconnects, interconnect boxes, and turnkey subassemblies

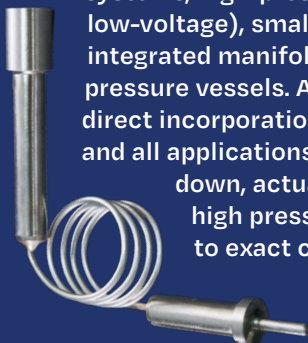
HARSH
ENVIRONMENTAL
AEROSPACE AND
MISSILE LAUNCH
CONNECTORS

Joule-Thomson Type Pure Gas Manifolds, Pipework, and Valve Subassemblies IAW DEF STAN 58-96



Also available: rotary unions and joints for high-pressure pure-air / argon applications and systems

Glenair high pressure pure-air/nitrogen gas solutions are designed and performance tested for use in a wide variety of defense and aerospace applications, including cooling of infrared detectors, missile seekers, and all high pressure pneumatic actuation and deployment systems. Products include sealed-for-life gas supply systems, re-chargeable gas supply systems, high-pressure solenoid valves (miniature and low-voltage), small-bore pipe assemblies, relief valves, integrated manifold assemblies, charge valves and high-pressure vessels. All systems and ancillaries are designed for direct incorporation into joule-Thomson (JT) cryogenic systems and all applications which require reliable pressurization, blow down, actuation, and IR cooling. Glenair pure-air and high pressure systems and components are designed to exact customer requirements and specification.



Brazed stainless steel pipework

- **Ultraminiature and lightweight pneumatic components and sub-assemblies**
- **Pure air and nitrogen (DEF STAN 58-96)**
- **High-pressure cylinders, solenoid valves, rotary joints, manifolds, and complete sub-assemblies**

PURE AIR/NITROGEN

Joule-Thomson Lightweight Modular IR Cooling and Actuation Systems



For use in IR guided weapons and ejection systems

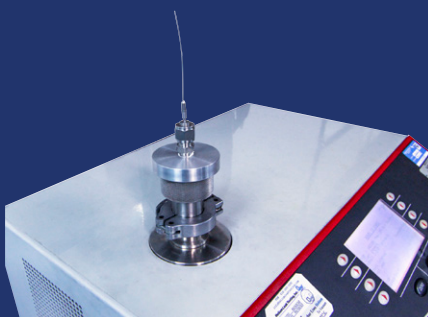
Glenair pure gas/nitrogen systems and sub-assemblies provide passage of nitrogen and other pure, pressurized gases through precision-machined components such as pressure regulating valves, solenoids, and Joule-Thomson cryogenic cooling systems. Assemblies feature precision stainless steel pipeworks and tubing that are fabricated using a flux-free brazing process and are ultrasonically cleaned and packaged in a sealed, dust-free environment. Electromechanical components are also precision-machined with material properties and dimensional attributes per customer specifications.

- **Manifold assemblies – including charging valves, relief valves or burst discs, pressure gauges, control valves**
- **Pipework sub-assemblies connecting cylinders to manifolds or components**
- **Pressure regulating valves**
- **Solenoid valves – manifold or in-line; single or two-stage**
- **Manifolds to other sub-assemblies**

Typical Performance	
Flow Rate	Typical Flow Rate is 5 liters per minute (lpm) @ 150 psi.
Operating Temperature	-65°C +175°C for all applicable mechanical requirements.
Physical Shock	No loosening of parts, cracking or other deleterious results hindering further part operation after 300 G's in each of 3 mutually perpendicular planes.
High Impact Shock	All components withstand high impact shock per MIL-S-901.
Vibration	All components withstand high-vibration with no evidence of cracking, breaking or loosening of parts.



Pressure test rig



Gas tube helium leak test equipment

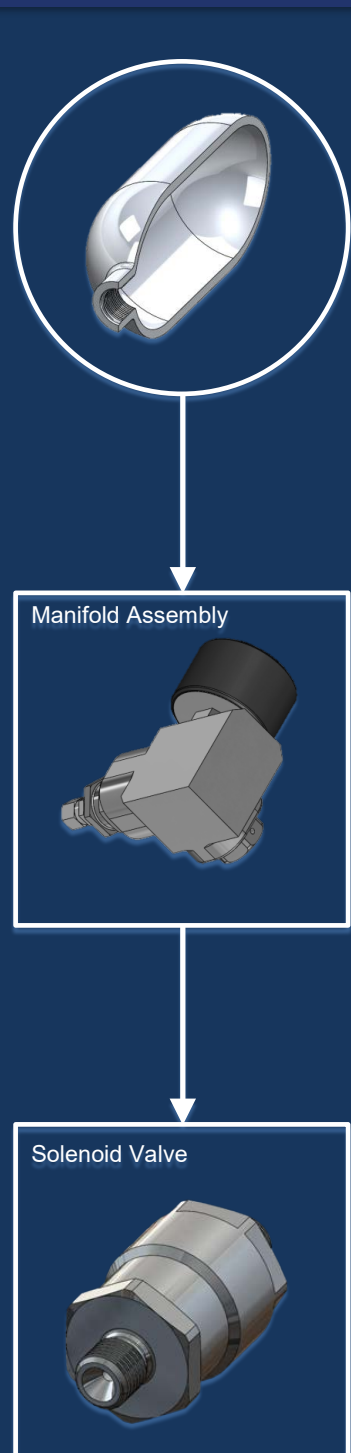


Pure air compatibility test equipment



Brazing control panel

Solutions built to exact customer requirements and specifications



HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS



Rugged I/O to spring-pin contact
connectors and flex assemblies



AlphaLink® SL flex jumpers: Compact point-to-point assemblies that combine lightweight flex circuitry with Glenair signature I/O and board-level connectors. These turnkey jumpers reduce system size and weight while accelerating assembly qualification and test of missile and other mission-critical electronic systems.

ALSO NOW AVAILABLE FROM GLENAIR: MIL-DTL-55302 PCB



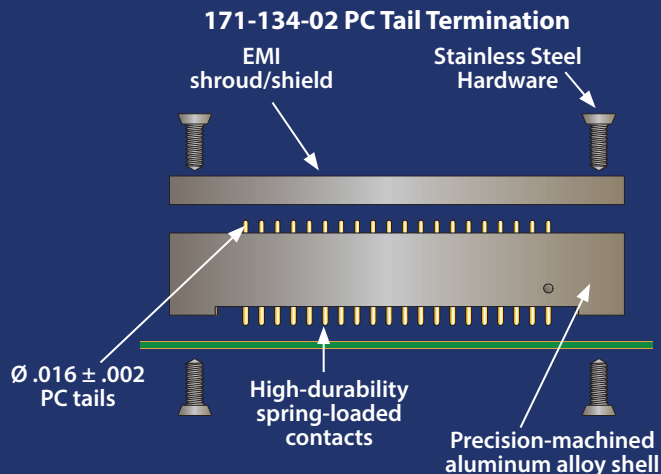
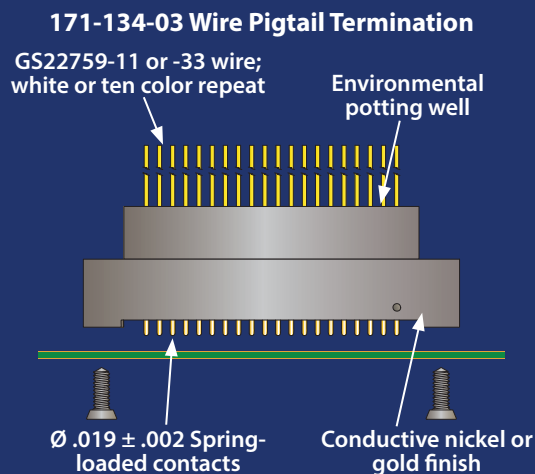
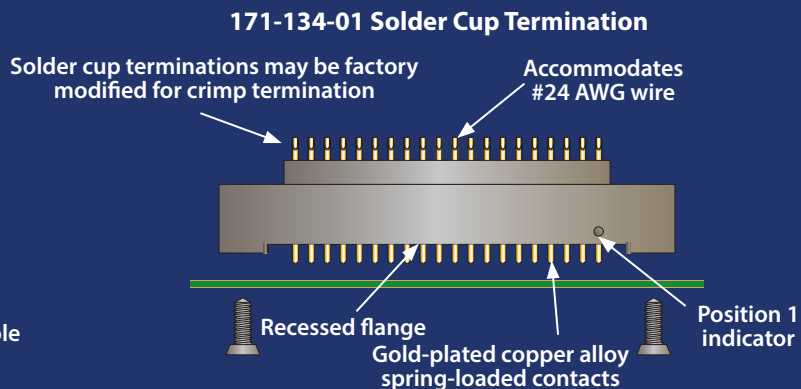
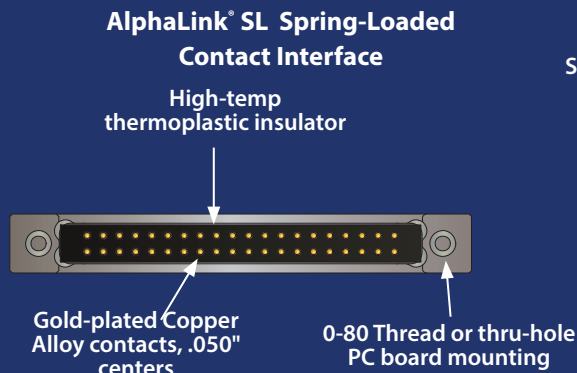
Glenair MIL-DTL-55302 qualified and signature board connectors—with hyperboloid contacts—offer superior electrical and mechanical performance compared to popular COTS-grade board-mount solutions. Glenair offers the 55302 /57 through /64 design with size #22 contacts on .100" contact spacing (GTBA and GTBB series), and qualified /190 and /191 slash sheets with size #24 contacts on .075" contact spacing (GTCA and GTCB series). Both designs utilize low mating/demating force, low-resistance, and high shock and vibration resistant hyperboloid socket contacts.

- Chemically etched, copper-clad polyimide flex circuit jumpers offer excellent temperature tolerance, dimensional stability, and reduced size and weight
- All designs utilize AlphaLink®SL board connectors with solder-free spring-loaded contacts
- Glenair small form-factor Mighty Mouse, Micro-Crimp, HiPer-D, and SuperFly I/O connectors
- Designed for optimal electrical performance, including matched-impedance applications

POINT-TO-POINT AlphaLink® SL Flex Jumpers



Rugged I/O to spring-pin contact connectors and turnkey flex assemblies



ALPHALINK® SL SOLDER-FREE I/O-TO-BOARD AND BOARD-TO-BOARD JUMPERS



Series 89 Rectangular Nanominiature-to-AlphaLink SL flex jumper (rear-panel-mount plug or receptacle)



High-reliability Micro-D MIL-DTL-83513 type rectangular-to-AlphaLink SL flex jumper

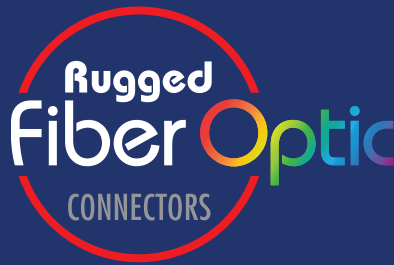


Series 79 Micro-Crimp advanced-performance rectangular-to-AlphaLink SL flex jumper



AlphaLink-to-AlphaLink board-to-board flex jumper assembly

HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS



VITA 66 Style MT Ferrule Rugged Optical Backplane Connectors



The VITA 66 interconnect series introduces fiber optic connectivity to VPX ruggedized embedded computing systems. Glenair's VITA 66.1 and 66.4 compliant blind-mate, optical MT module/backplane connectors use the open architecture defined in VITA 46. These products are both compatible with VPX systems and available as standalone connector solutions for reliable, high-speed transmission in extreme commercial and military environments.

- VITA 66.1 and 66.4 spec compliant
- Integrated alignment pins
- Glenair designed spring-loaded MT ferrules
- Supports industry standard MT ferrules—up to 24 channels per MT
- No unique tooling required for assembly

APPLICATIONS

- VPX compliant backplanes
- Embedded computing devices
- Military aircraft (Phased Array) Radars
- Flight computers and other aircraft LRUs
- Command center comms equipment



Also available: VITA 67.3
SMPM and SMPS
RF connectors, contacts,
and accessories

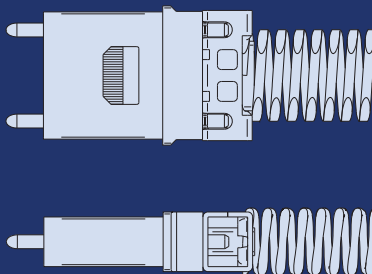
VITA 66.1 STYLE MT Ferrule Fiber Optic Backplane Connectors



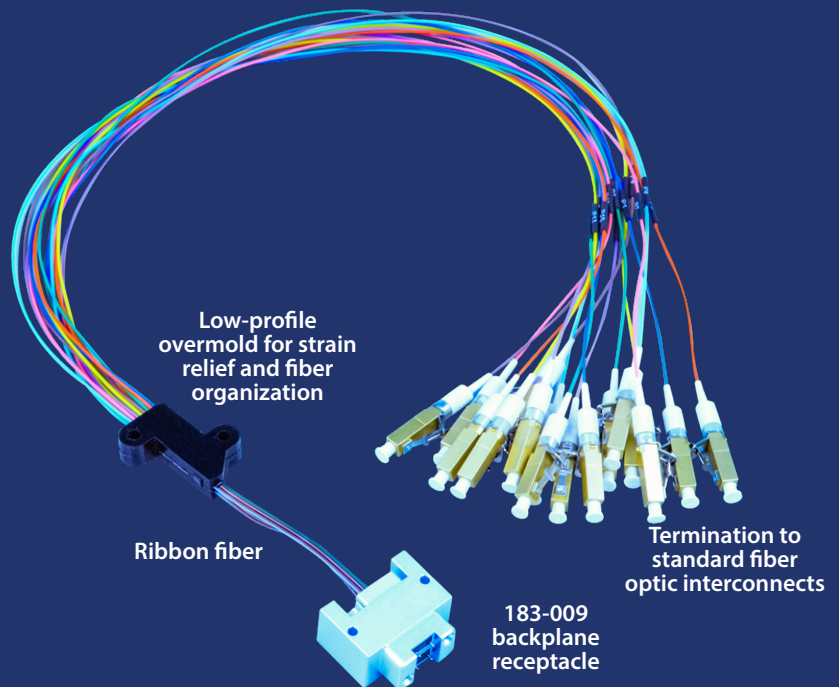
Rugged, blind-mate MT solution

TURNKEY VITA 66.1 CONNECTORS, CABLE ASSEMBLIES, AND FERRULES

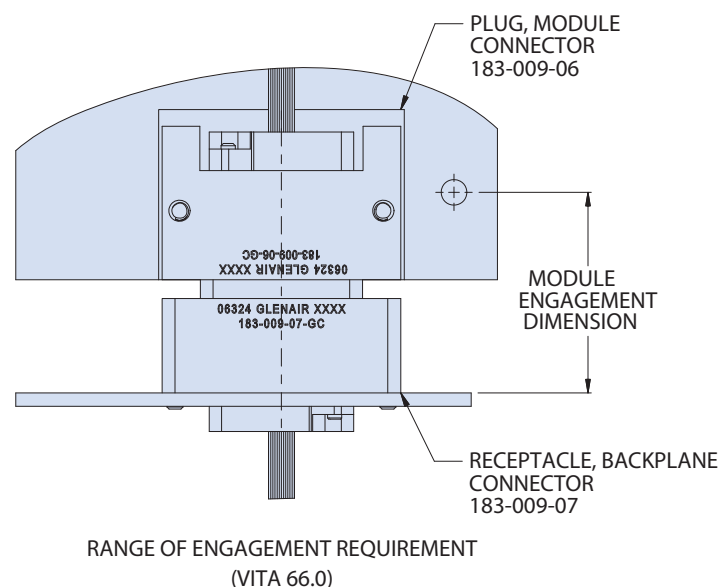
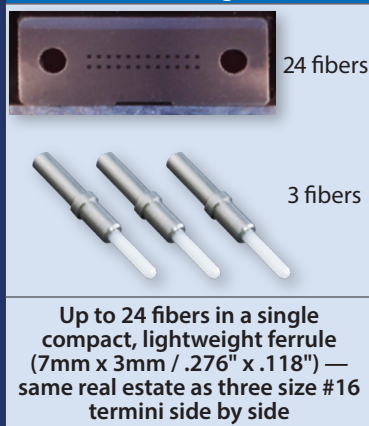
Glenair can design, terminate, and test complex multibranch and point-to-point assemblies incorporating VITA 66.1 style backplane connectors with standard commercial fiber optic interconnects for termination to board-level transceivers. Low-profile cable overmolds provide fiber media organization and ribbon-to-wire strain relief. Discrete backplane connectors and MT ferrule assemblies are also available



Glenair designed floating MT ferrule contacts



The MT Ferrule High-Density Advantage



HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS



Compliant pin brush-contact
connectors for legacy and
new design LRM module-to-
backplane applications



Glenair Line Replaceable Module (LRM) connectors are drop-in solutions for military and commercial avionics, missile systems, C4ISR, and other harsh-environment LRM module-to-backplane interconnect applications. Available in single bay, dual bay, and triple bay packaging, Glenair LRM brush contact connectors support both standard SEM-E size modules as well as custom design requirements. Fully qualified and intermateable with Amphenol Staggered Grid LRM products, the Glenair LRM solution introduces important performance improvements including precision-machined, gold-plate over nickel compliant pins and zero-FOD / zero electrical discontinuity weld-in-place brush contacts. Digital signal LRM module and backplane blind-mate connectors as well as mixed contact support for power, GPPO coax (SMPM), fiber optic (MT) inserts, and 270VDC power inputs available.

- Low mating and unmating forces
- High mating cycles
- Compliant pin board terminations on PC tails
- Single, dual, and triple-bay staggered-grid layouts: digital signal, power, RF, MT optical, and 270VDC contact
- Mechanical features include polarization keys, ESD shrouds, straddle-mount lead frames, and guide/ground pins

LOW INSERTION FORCE, HIGH DENSITY LRM Brush Contact Connectors



Staggered-grid backplane and module solutions
Qualified · intermateable · harsh-environment

ABOUT GLENAIR LRM AND BACKPLANE CONNECTORS

Glenair has fully qualified its Staggered Grid LRM interconnect series for reliable interoperability with existing industry products. LRM and backplane connectors manufactured by Glenair are equipped with superior performance brush contacts with precision-machined compliant pin terminations and zero-FOD weld-in-place brush contacts. The connectors are manufactured to standard SEM-E size formats with accommodation for common PWB and heat sink widths and thicknesses.

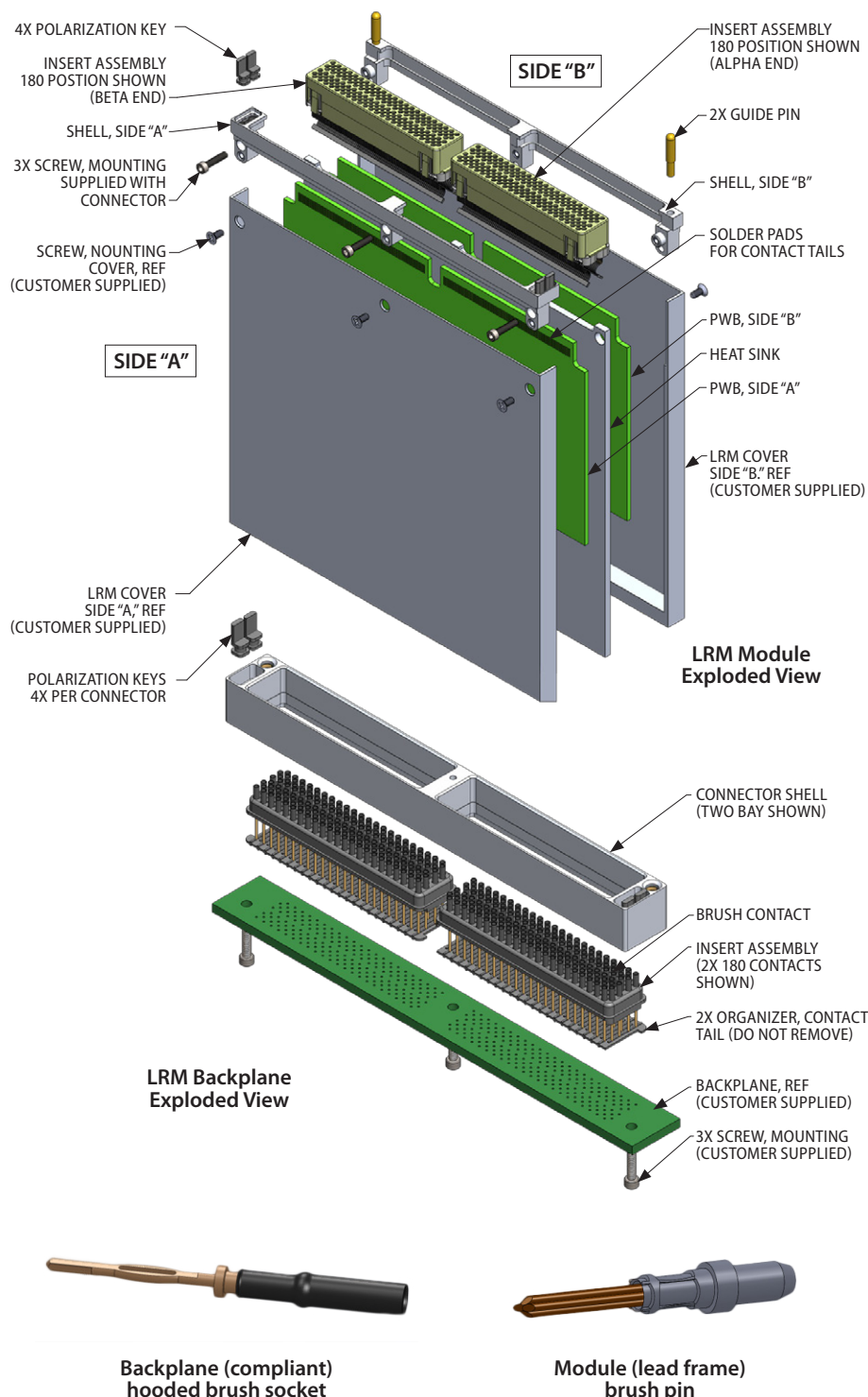
EMI SHIELD: Aluminum alloy 6061-T6 per AMS 4150; finish is hardcoat anodize per MIL-A-8625 with epoxy final coat. Ground tabs are chromate treated (iridite).

POLARIZATION KEYS: Stainless steel per AMS 5640; finish is black oxide per MIL-DTL-13924. Key retaining ring is Polyamide (nylon 12) with 50% glass filled fibers.

GUIDE PINS: Beryllium copper alloy per ASTM B196, finish is gold per ASTM B 488 over nickel per AMS-QQ-N-290.

ABOUT BRUSH CONTACTS

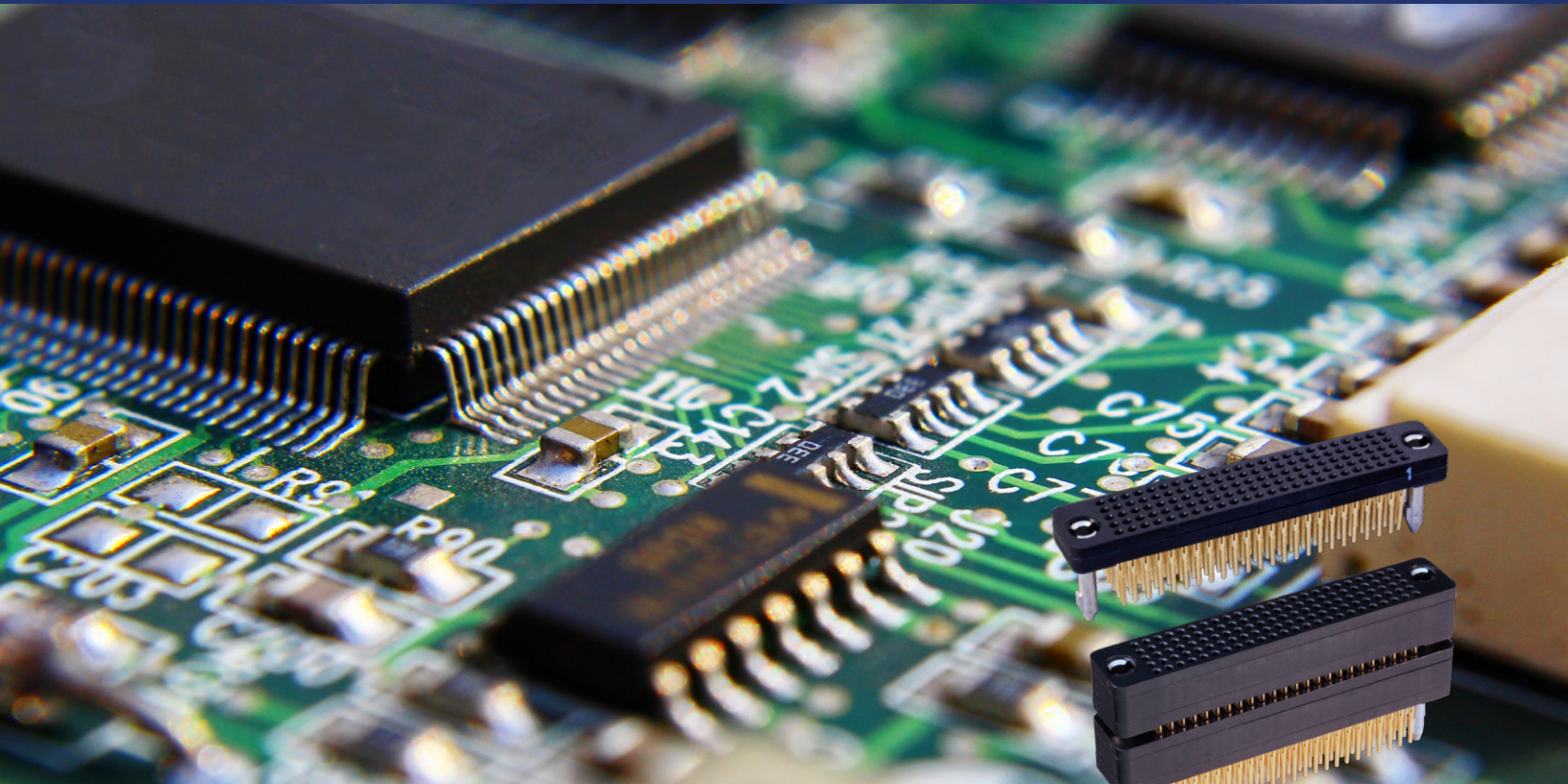
- Virtually zero fretting corrosion
- Long service life: tested to 200 mating cycles
- No micro-arching
- Zero FOD / zero electrical discontinuity welded brush construction
- Precision-machined compliant pin backplane termination
- Straddle-mount termination (module connector)
- Intermateable with Amphenol LRM



HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS

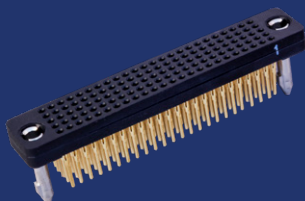


High-density, solder-free, compliant pin
board-to-board stackable connectors

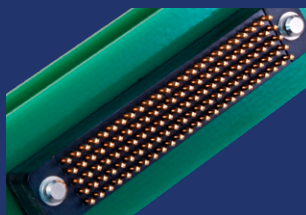


HD Stacker: the innovative
mission-critical board-to-board
connector with fail-safe signal
integrity and rugged, reliable
harsh-environment performance

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



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



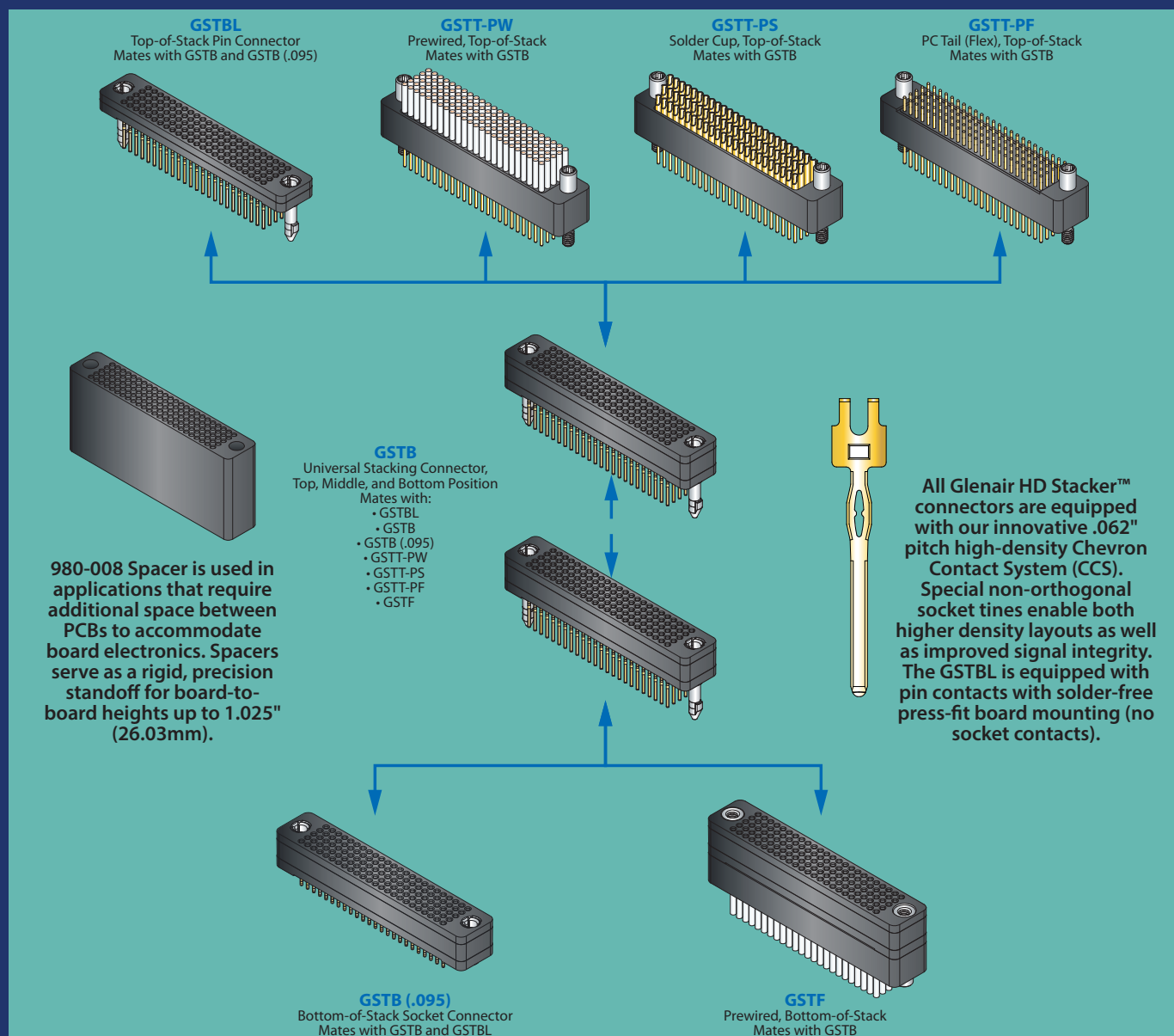
.0625" pitch contact spacing:
highest available density



Polarized shells and keyed
guide pin hardware prevent
mis-mating

Rugged, solder-free compliant pin board-to-board stackable connectors

HD STACKER™ POSITION AND MATING COMPATIBILITY GUIDE



QUALIFICATION TESTING

IAW MIL-DTL-55302G:

- Contact engagement/separation
- Contact retention
- DWV
- Electrical resistance
- Mechanical vibration and shock
- Insulation resistance
- Thermal shock
- Contact resistance
- Humidity

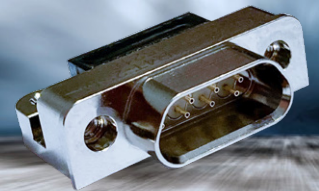
High-frequency electrical performance tests were performed for: Insertion loss, return loss, crosstalk, and time domain performance metrics including impedance and eye pattern.



HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS



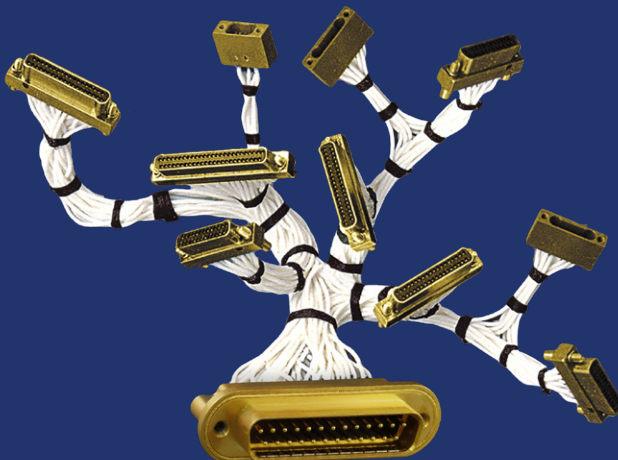
MIL-DTL-83513 and
Glenair signature
Micro-D connectors
and splice-free
cable assemblies



GMMD SMT modular Micro-D
with support for signal, power,
high-speed and RF

TwistPin equipped MIL-DTL-83513 Micro-D connectors and
cables offer outstanding mating performance, durability, low
contact resistance, and same-day availability

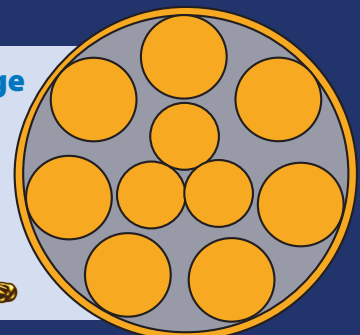
- High density TwistPin contacts on .050" centers
- Turnkey multibranch and complex cable assemblies
- 9 to 130 contact arrangements
- Single row, multi-row, low profile and high density insert arrangements
- QPL and commercial versions



Splice-free Micro-D and Nano
cable assemblies

The Micro TwistPin Advantage

Seven strands of TwistPin BeCu wire
make direct contact with the machined
socket, assuring low resistance, plenty
of contact wipe, and superior shock
and vibration performance.

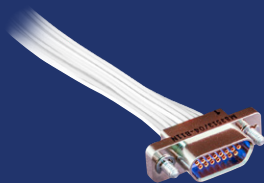


MIL-DTL-83513 AND COMMERCIAL Micro-D Connectors



Mission-critical mating performance
Industry-leading selection and availability

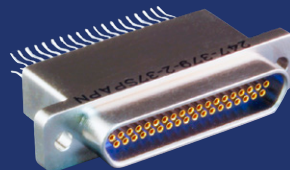
MATERIAL CLASSES AND QUALIFICATIONS



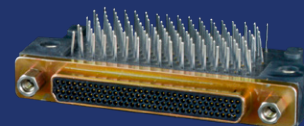
Environmental



Hermetic

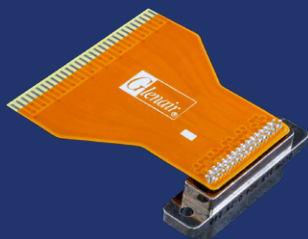


EMI / RFI Filter



Space-Grade

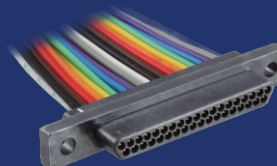
TERMINATION STYLES



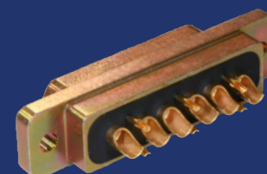
Flex



PCB

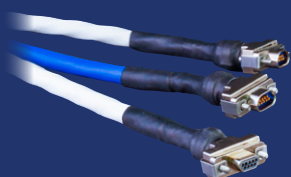


Pigtail

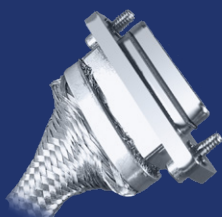


Solder

WIRED / CABLED CONFIGURATIONS



SpaceWire flight-grade and
lab-grade assemblies



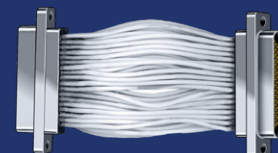
Shielded



Uninsulated



Insulated



Back-to-Back

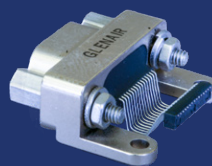
PCB DESIGNS



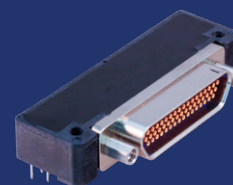
Vertical



Horizontal

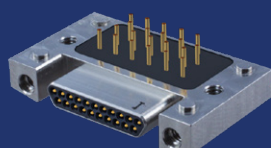


Surface-Mount

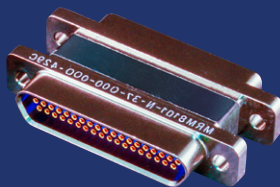


Shrouded

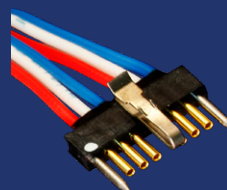
SPECIAL-PURPOSE DESIGNS



High-Temperature



Sav-Con®



Latching MicroStrip

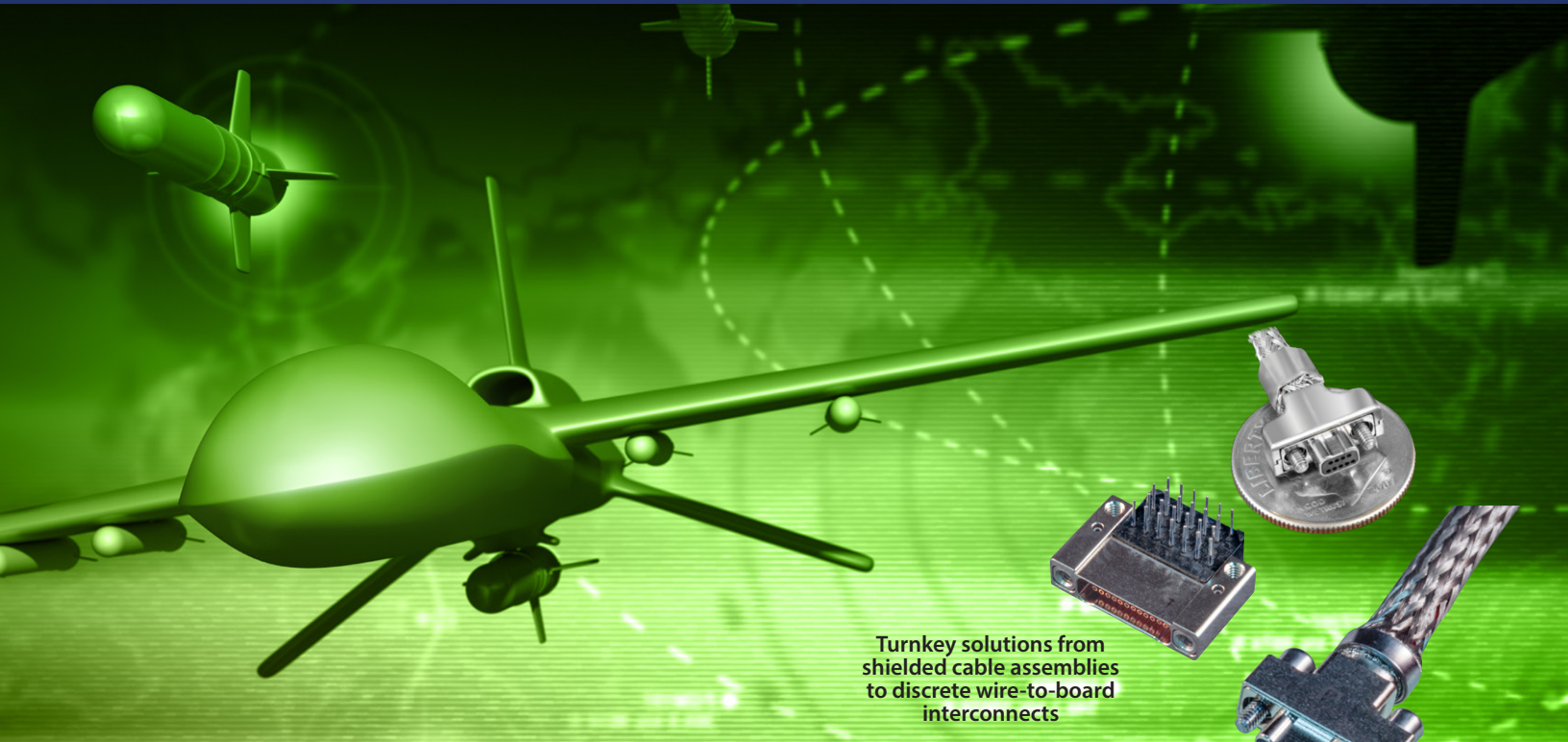


FOD-free "G-Click"
latching Micro-Ds

HIGH-DENSITY
RECTANGULAR
CABLE, BOARD,
AND BACKPLANE
CONNECTORS



MIL-DTL-32139 QPL and Glenair signature
nano miniature connector designs

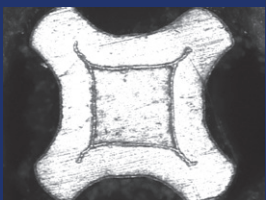


Turnkey solutions from
shielded cable assemblies
to discrete wire-to-board
interconnects

The M32139 Nano is the smallest and lightest mil-spec connector in the business. 1 Amp contacts are set on .025" centers and terminated to 30 AWG wire or PCB tails. Glenair supplies both standard QPL designs as well as a broader range of signature offerings.

- Single and double row
- Metal shell, aluminum, titanium or stainless steel
- TwistPin contact system
- Gold alloy contact, unplated
- Thru-hole and surface-mount PCB versions

THE NANO TWISTPIN ADVANTAGE



Transverse cross-section
of a TwistPin contact crimped
to solid wire



- Gas-tight crimp joint
- Better shock and vibration performance
- Corrosion proof contact alloy



SERIES 89 Nano Miniature Connectors



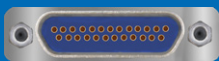
Ultra high density · single- and dual-row · cable and PCB

Series 89 Nano miniature Connector Performance	
Contact Spacing	.025" (0.64mm) Contact Centers
Wire Accommodation	#30-#32 AWG
Current Rating	1 AMP Max
DWV	250 VAC RMS Sea Level
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +125° C.
Contact Resistance	71 Millivolt Drop Maximum
Shock, Vibration	100g's, 20 g's
Durability	200 Mating Cycles
Corrosion Resistance	48 Hours Salt Spray
Mating Force	5 Ounce Max, 0.4 Ounce Min

HOW SMALL ARE THEY?



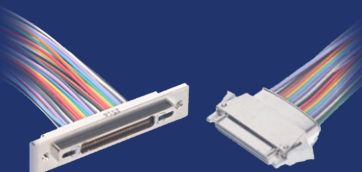
D-Subminiature Connector
25 Contacts
on 0.109 Inch Spacing



Micro-D Connector
25 Contacts
on 0.050 Inch Spacing

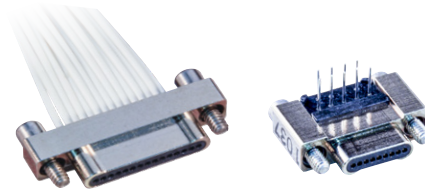


Nano Connector
25 Contacts
on 0.025 Inch Spacing

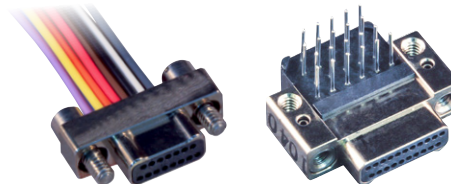


Also available: FOD-free latching
nanominiature connectors

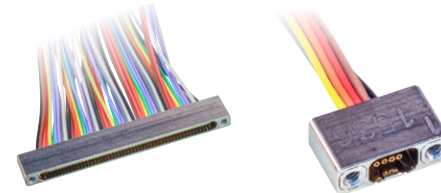
Nano Rectangular Single-Row Connectors and Accessories



Nano Rectangular Dual-Row Connectors and Accessories



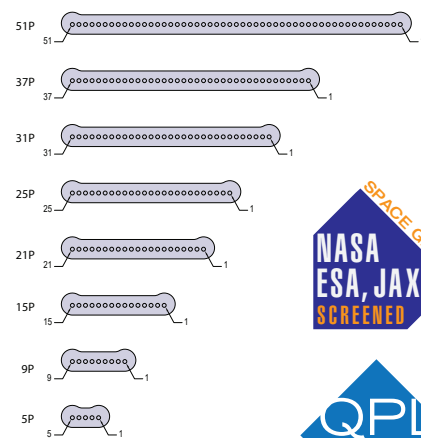
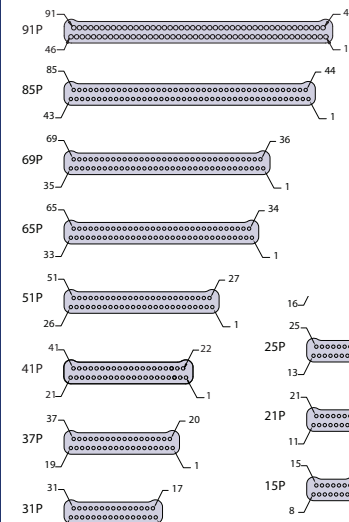
MIL-DTL-32139 Qualified Connectors and Accessories



Nano Circular Connectors and Accessories



NANO MINIATURE CONTACT ARRANGEMENTS



INNOVATIVE
WIRE PROTECTION
CONNECTOR
ACCESSORIES



Circular backshell and
accessory designs for
weight reduction, life-
of-aircraft durability, and
optimal reliability



Heat shrink boot / wire routing
clamp assembly

Innovative solutions to EWIS environmental sealing, wire management, strain relief, and EMC shield termination

Glenair is the go-to design partner for innovative solutions to electrical wire interconnect system (EWIS) problems in airframe applications. Our backshell and connector accessory design engineers are responsible for more problem-solving innovation in our industry than every other connector accessory supplier combined. Take our extensive composite thermoplastic connector accessory series, for example. Glenair can supply the lightest weight solution for all EWIS cable routing, shield termination, environmental sealing, and cable strain relief applications—all in conductively-plated engineering thermoplastic.



Composite thermoplastic backshells and strain
reliefs reduce weight and improve durability

GLENAIR: MASTERS OF THE BACKSHELL UNIVERSE

- High-performance circular connector accessories for every environmental, mechanical and electromagnetic shielding requirements
- Tens of thousands of innovative part numbers in inventory ready for same-day shipment
- Fast turnaround on made-to-order accessories, typically only two to three weeks
- Constant, relentless backshell innovation

NEW INNOVATIONS IN Circular Backshells and Accessories



Unique, problem-solving backshells and connector accessories for aerospace applications

HIGH-TEMP, LIGHTWEIGHT COMPOSITE THERMOPLASTIC ACCESSORIES



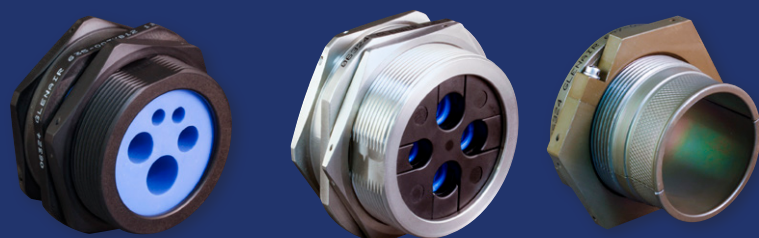
Split-shell and snap-lock banding backshells

Dummy stowage shorting plugs and receptacles

Piggyback boot Band-in-a-Can

Drop-in EMI/RFI shield termination configurations

PRESSURE BOUNDARY, FIREWALL, AND SPLIT-SHELL FEED-THRU



Pressure boundary composite feed-thru

Firewall pressure boundary feed-thru

EMI/RFI split-shell metal feed-thru

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

OTHER ENVIRONMENTAL AND EMC EWIS TECHNOLOGIES



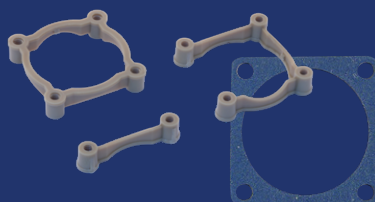
Self-locking protective covers

SplayMaster™ high-speed and RF alignment backshells

Heat- and cold-shrink boots and transitions



Leonardo's ProSeal spring-loaded protective covers



Lightweight composite nut plates and conductive EMC gaskets

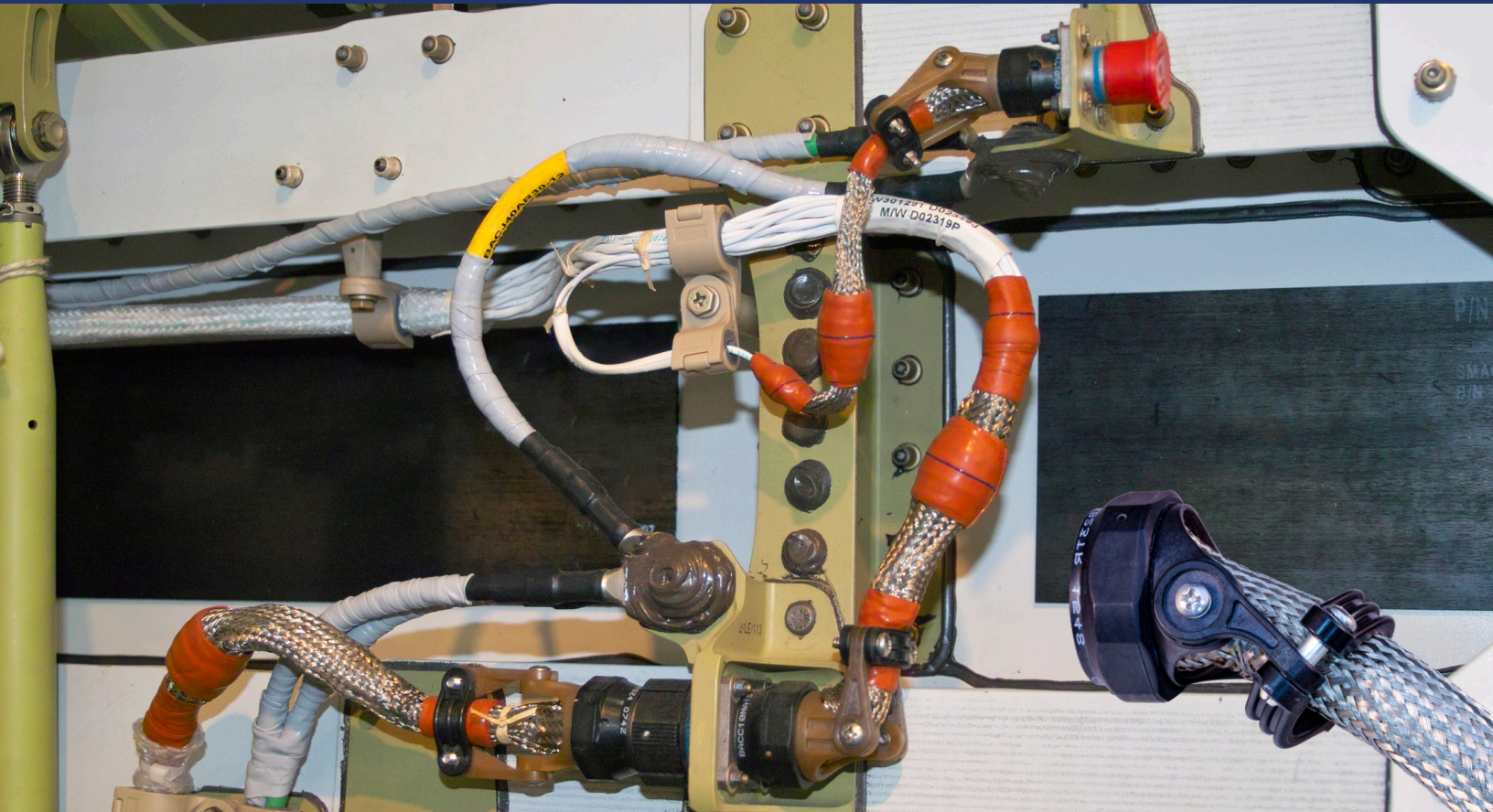


Lightweight Dummy Contact Sealing Plugs (DCSP)

INNOVATIVE
WIRE PROTECTION
CONNECTOR
ACCESSORIES

SWING ARM®

3-in-1 lightweight composite clamp with
optional drop-in braid termination follower



Glenair's composite Swing-Arm® is a lightweight and corrosion-free cable clamp with cable shield termination options for a wide range of EWIS applications. This innovative articulating strain relief has become the standard shield termination device for weight reduction in both military and commercial airframe applications. Made from temperature-tolerant composite thermoplastic, rugged Swing-Arm® clamps offer easy installation, long-term performance, and outstanding weight and SKU reduction. Performance tested to stringent AS85049 mechanical and electrical standards and available for all commonly-specified mil-standard and commercial cylindrical connectors including MIL-DTL-38999, SuperNine, and Series 806 Mil-Aero.

Introducing Swing-Arm FLEX®, Glenair Next- Generation Composite Swing-Arm® Strain Relief

- Significant weight reduction: no saddle bars or hardware
- Rapid assembly: cable self-centers on bundle, little or no wrapping tape required
- Braid sock and drop-in band termination follower versions for EMI/RFI applications
- Internal conductive ground path



User-configurable straight, 45°, and 90° cable routing

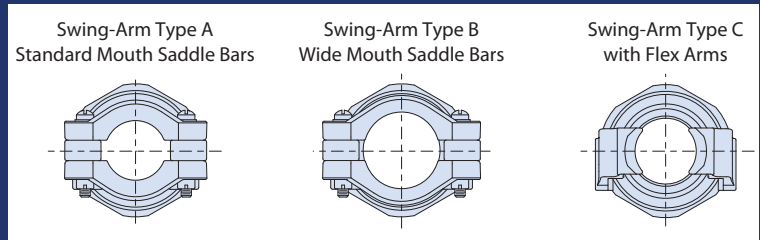
SWING ARM®
COMPOSITE THREE-IN-ONE BACKSHELL
FLEX

SWING-ARM 3-IN-1 LIGHTWEIGHT Composite thermoplastic strain-relief and EMI/RFI shield termination device



THREE STYLES OF SWING-ARM STRAIN RELIEF CLAMPS

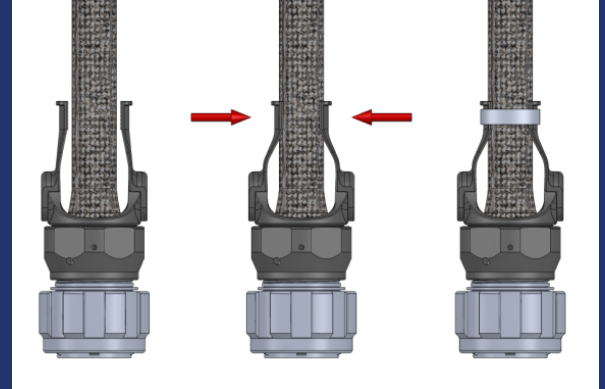
- **Style A - standard mouth, rigid saddle bars**
- **Style B - wide mouth (for larger cable diameters), rigid saddle bars**
- **Style C Swing-Arm FLEX - no saddle bars, self-centering round cable strain relief**



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



Fast and reliable termination of individual wire and overall EMI cable shielding with industry-standard Band-Master ATS® tools and straps. New slim profile bands eliminate sharp strap cutoff for improved safety.



DROP-IN FOLLOWER FOR DIRECT TERMINATION OF OVERALL OR INDIVIDUAL WIRE SHIELDING

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

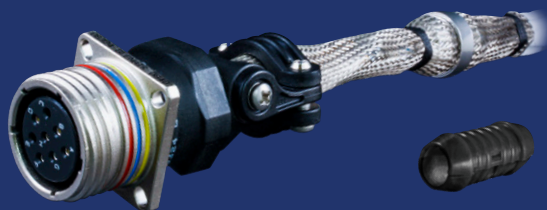


SWING-ARM AND SWING-ARM FLEX WITH OPTIONAL INTEGRATED SHIELD SOCK

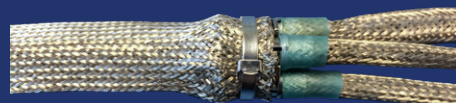
For fast and reliable EMI/RFI shield termination of individual wire and overall cable shielding



SWING-ARM SHIELD SOCK TERMINATION OPTIONS, STANDARD SPLIT RING OR STARSHIELD STAR



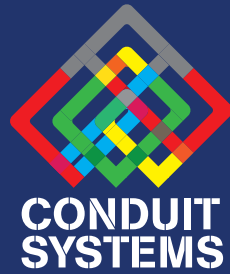
Termination of shield sock to cable shield with split support ring



Termination of shield sock to individual wire shields with auxiliary "flex shield" HST and StarShield™ Star



INNOVATIVE
WIRE PROTECTION
CONNECTOR
ACCESSORIES



Conduit components and
wired assemblies with proven
aerospace performance



Ultra-flexible polymer-
core point-to-point fiber
optic conduit assembly

All of the metal-core conduit and polymer-core convoluted tubing systems we fabricate at Glenair may be wired and assembled at our factory with tamper-proof crimp ring or solder terminations according to customer requirements. Reduced size and weight factory terminated conduit assemblies offer the utmost in environmental ruggedness, reliability and durability. Certified factory assemblers and calibrated tooling guarantee reliable long-term performance. Glenair's expertise in wired conduit systems extends from simple point-to-point jumpers to complex multibranch assemblies as well as turnkey integrated systems and LRUs with flexible conduit interconnect cabling.

TURNKEY FACTORY-TERMINATED CONDUIT ASSEMBLIES



Complex multibranch aircraft electrical
wire conduit assembly with high-
temperature polymer-core conduit



Lightweight multibranch wire protection
conduit assembly with high-temperature
polymer-core convoluted tubing



Crush-resistant commercial aerospace
metal-core conduit assembly

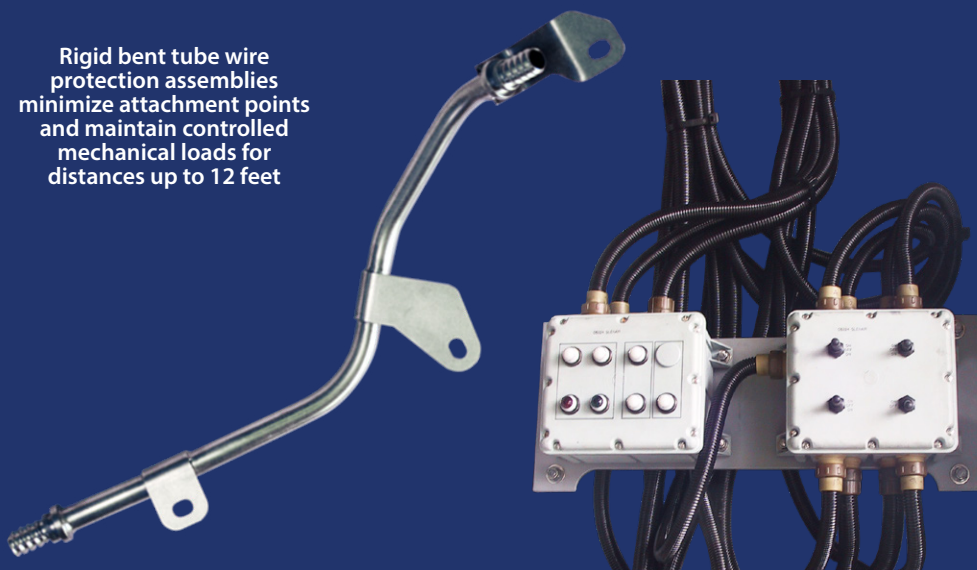
RUGGED Conduit Wire Protection Systems



Flexible, impact resistant alternatives to
lighter-duty jacketed cable assemblies

COMPLEX, MULTIBRANCH ASSEMBLIES WITH INNOVATIVE LIGHTWEIGHT POLYMER-CORE WIRE PROTECTION CONDUITS

Rigid bent tube wire protection assemblies minimize attachment points and maintain controlled mechanical loads for distances up to 12 feet



Turnkey integrated box assembly and wired polymer-core interconnect system

PEEK, PFA, ETFE, Siltem polymer core and Glenair signature high-temperature polymer core conduit solutions and user-installable fittings



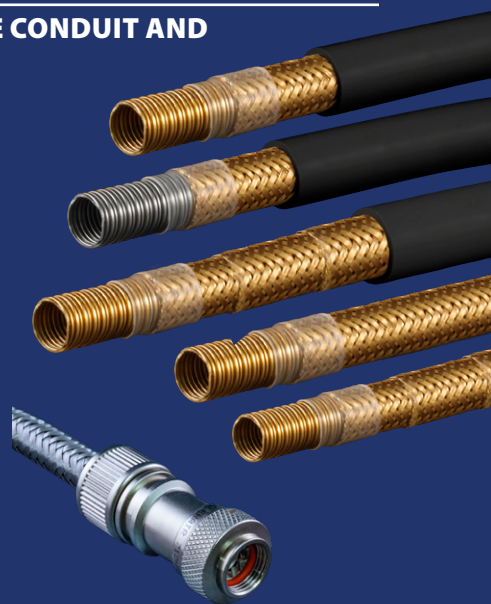
COMPLEX, MULTIBRANCH ASSEMBLIES WITH HEAVY-DUTY METAL-CORE CONDUIT AND OVERBRAIDING WIRE PROTECTION MATERIALS



Turnkey wheel well impact-resistant metal-core conduit assembly



Metal-core conduit wire protection aircraft brake assembly



Brass, SST, or nickel-iron metal-core conduit material types with innovative microfilament and drawn filament braiding. Factory terminated or for use with user-installable fittings.

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.



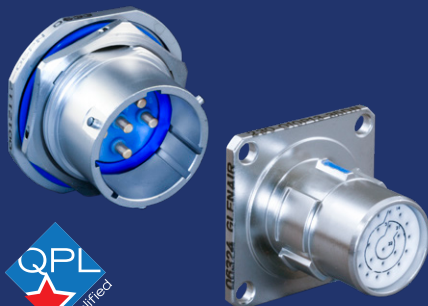
MIL-DTL-38999 Series III
Environmental Connectors



MIL-DTL-38999 Series IV
Environmental Connectors



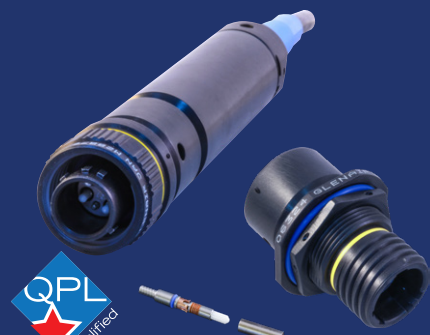
MIL-DTL-28840 Shipboard
Connectors and Accessories



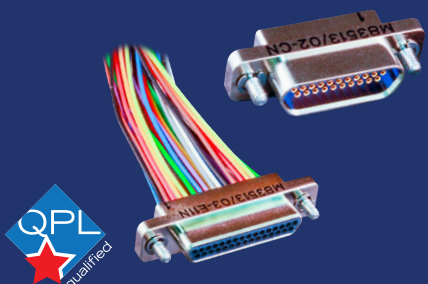
MIL-DTL-38999 Series I, II, III, and IV
Hermetic Connectors



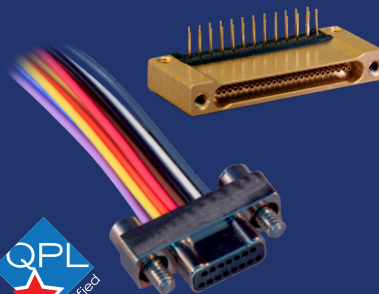
MIL-DTL-24308
Hermetic Connectors



MIL-DTL-28876
Shipboard Fiber Optic



MIL-DTL-83513 Micro-D
Connectors and Accessories



MIL-DTL-32139 Nanominiature Connectors
and Accessories



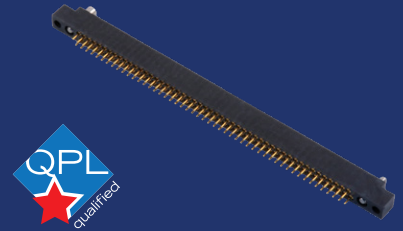
MIL-DTL-29504 Fiber Optic Termini and
AS39029 Electrical Contacts



MIL-DTL-55116 Radio / Audio Connectors



807 NW Nett Warrior
Qualified Tactical Connectors



MIL-DTL-55302 hyperboloid contact
PCB interconnects



M85049 (AS85049) Backshells and
Connector Accessories



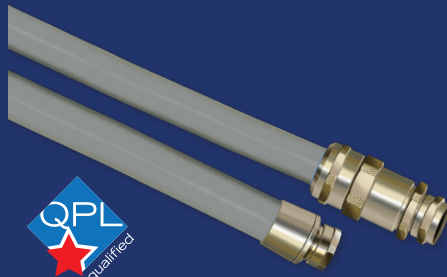
MIL-DTL-83723 Backshells and Connector
Accessories



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



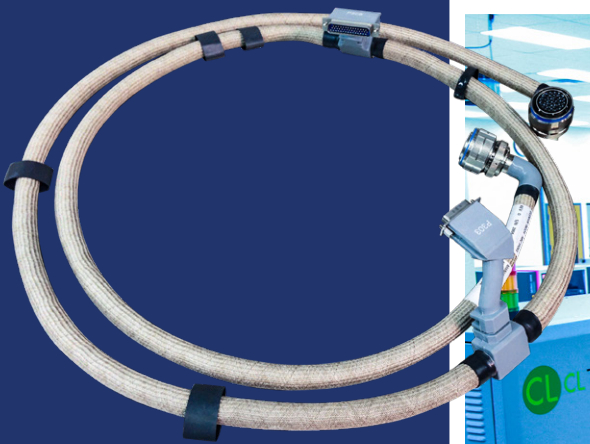
GLENAIR GLENDALE:

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

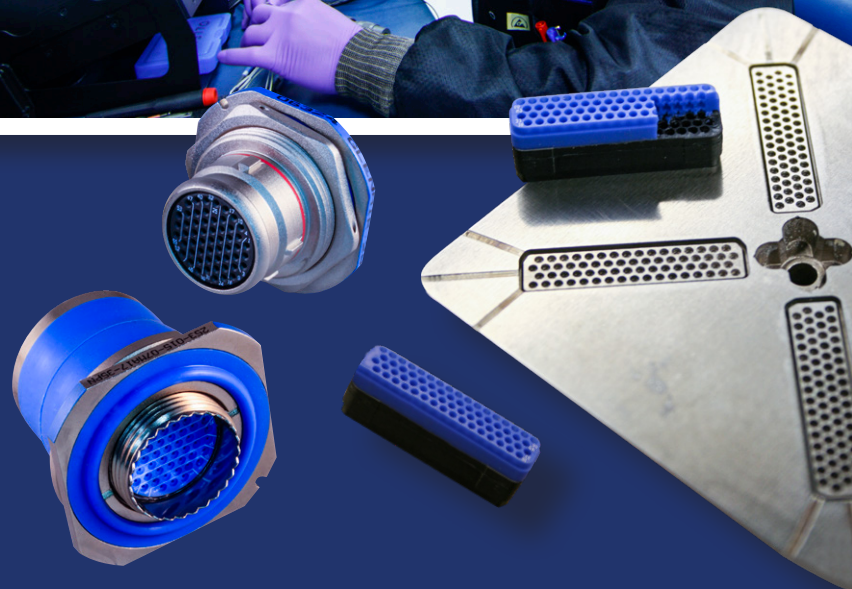


Glenair operates the largest high-reliability interconnect manufacturing operation in the United States, allowing us to fully support our broad range of land, sea, air, and space customers.





Glenair SoCal's most important asset: highly technical staff, fully empowered with all the right facilities and operation resources.





SAME-DAY SHIPMENT STOCKING

Immediate availability for high-demand connectors and tooling.



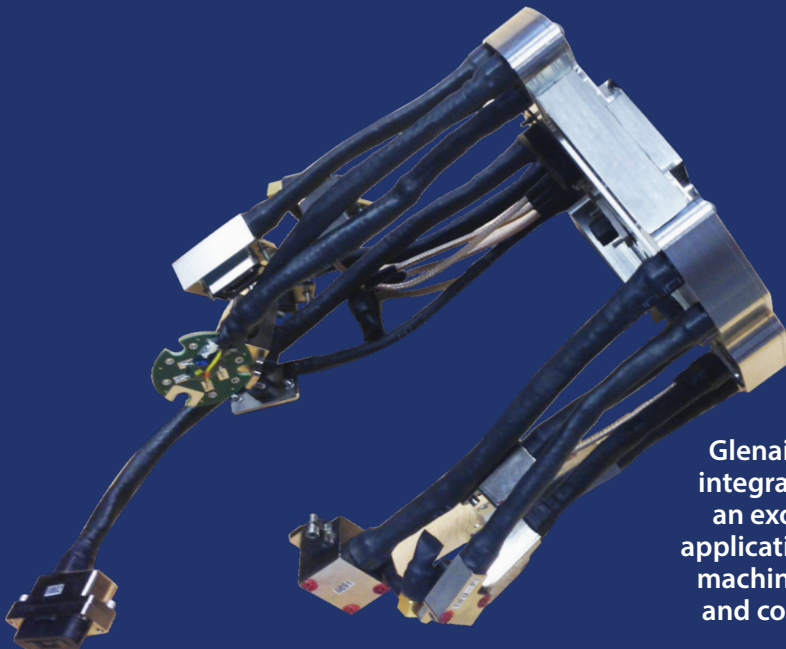
HARNESS ASSEMBLIES

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



IN-HOUSE TESTING CAPABILITIES

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



Glenair UK complex integrated system for an exoatmospheric application with custom machined connectors and complex cabling





GLENAIR UK:

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

GLENAIR ITALIA:

Manufacturing harsh-environment military, nuclear, and aerospace interconnect technologies for power, high-speed Ethernet, and hermetic seal applications.



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



ADVANCED HERMETIC SEAL AND CONNECTOR PLATING CAPABILITIES

Space-compliant gold and nickel plating performed in-house. Hermetic seal connector fabrication with performance levels to 1×10^{-7} helium leak rates.



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



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

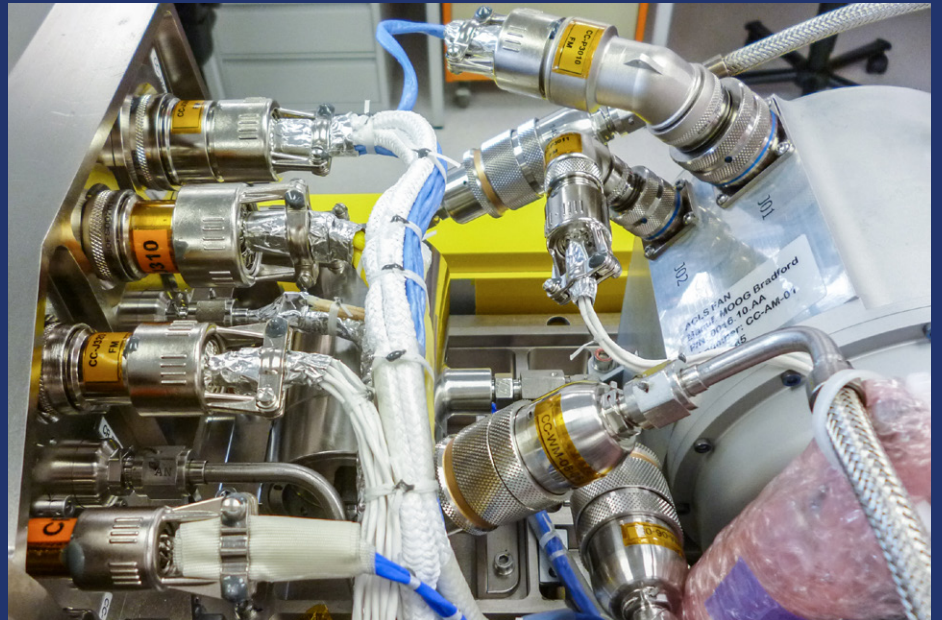


GLENAIR SALEM:

Our space systems business unit in Salem, Germany includes a 600 m² production floor, 300 m² ISO 8 and ISO 6 clean rooms, an ISO 5 flow chamber (certified to ESD Standard 61340-5-1), with ample accommodation for large mock-up and integration projects.



CLEAN ROOM ASSEMBLY
with both environmental
filtering and electrostatic
discharge protection.



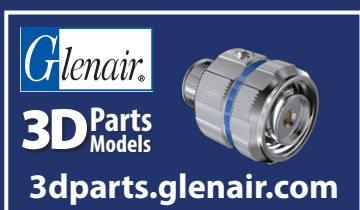
SPACE-GRADE HARNESS FABRICATION AND INTEGRATION
In-house or at customer facility.



ELECTRO-MECHANICAL
Fabrication of space-grade
interconnect technologies
including HDRM (release nut)
mechanisms.



MISSION-CRITICAL INTERCONNECT SOLUTIONS



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