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Out of This World
INTERCONNECT SOLUTIONS



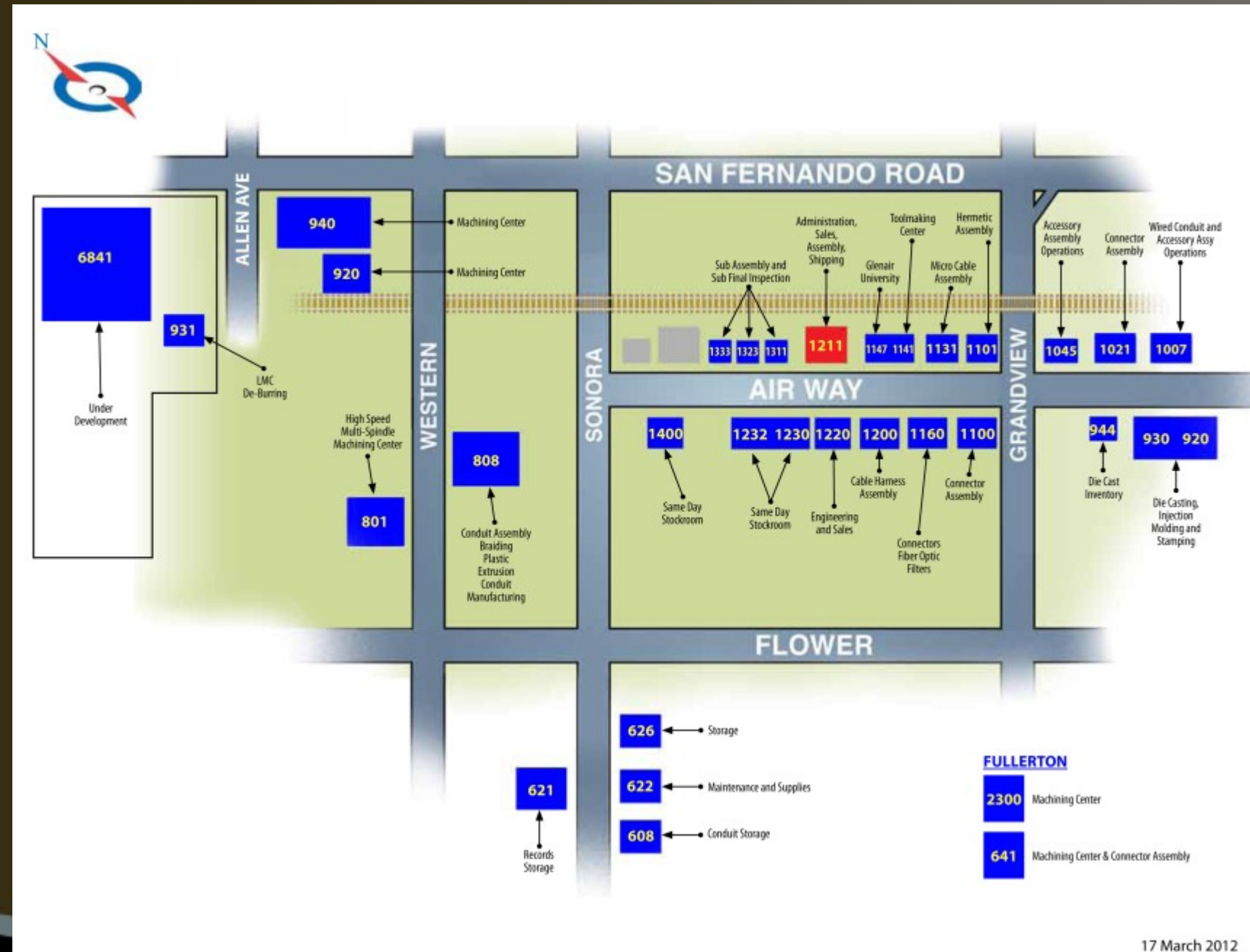
Glenair

An Interconnect Industry Leader Since 1956

- Privately owned—same location, no off-shore manufacturing
- 600,000 square feet of factory space in Glendale alone! Additional factories in Italy and the UK
- Primary Market: military and aerospace interconnect systems
- Excellent customer service and technical product know-how
- Huge inventory of finished goods



Southern California Campus



Why Choose **GLENAIR?**



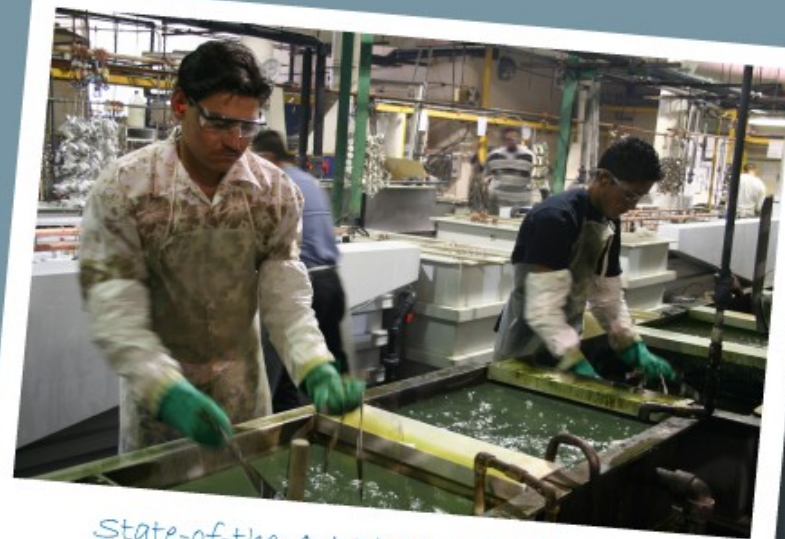
Plenty of Raw Materials!



Outstanding
Customer Service!



High-Production Injection
Molding Equipment



State-of-the-Art Plating Capabilities



Abundant Machining Capacity!



In-House Assembly!



The Industry's Most Experienced
EMI/RFI Braided Shielding Specialists



Huge "Same-Day" Inventory!



One of North America's Largest CNC Milling
and Machining Installations



Clean Rooms for Filter Array and Printed
Circuit Board Assembly

SAE-AS39029

HIGH PERFORMANCE CONNECTOR CONTACTS

SIGNAL • POWER • DATA • SPECIALS



Glenair brings a new perspective to the supply of high-performance Mil-Spec and commercial contacts: High Availability! Whether you need a standard duty socket for a MIL-DTL-28840 connector or an extended duty pin for MIL-DTL-38999 Series III, we have you covered with products that are always in stock—with no dollar or quantity minimums. In addition to the broadest selection and availability, Glenair also delivers outstanding interconnection compatibility. Glenair QPL SAE-AS39029 as well as our proprietary contact series are guaranteed to mate properly and perform at the upper limits of application requirements.

SAE-AS39029
Signal ContactsPower
ContactsHigh-Performance
Data ContactsSpecial Purpose
ContactsHigh-Speed Wire,
Cable, and Flex

GLENAIR, INC. • 1211 Air Way • Glendale, CA 91201-2497 • Tel: 818-247-6000 • Email: sales@glenair.com • www.glenair.com



We Never Lose Contact

From electrons to photons to fluids

Signal &
Thermocouple

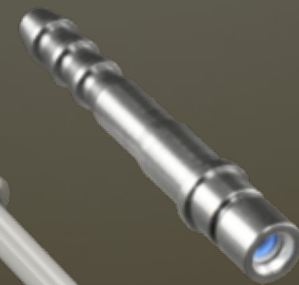
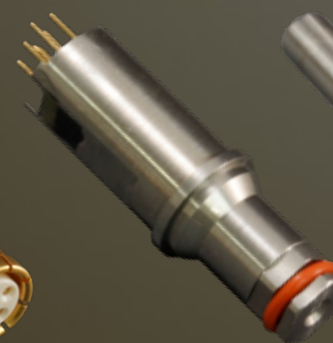
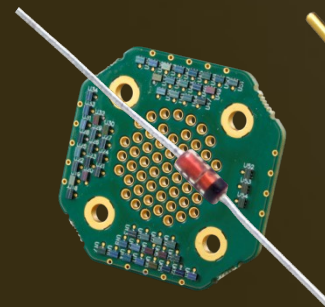
EMI/EMP
Filter

Coax

#8 Optoelectronic

Pneumatic

Fluids



Nano & Micro
TwistPin

Power &
LouverBand

Hermetic

#8 Quadrax

Fiber Optic



AS39029 Contacts: Signal/Shielded/Specials





SAE AS39029 QPL Contacts

High Performance M39029 Crimp Contacts Now Available with Accelerated Lead Times—and No Minimums!

Outstanding Product Availability

Glenair brings a new perspective to the supply of Mil-Spec crimp contacts: High Availability! Whether you need a standard duty socket for a MIL-DTL-28840 connector or an extended duty pin for MIL-DTL-38999 Series II we have you covered with products that are always in stock—with no dollar or quantity minimums. In addition to the broadest selection and availability, Glenair also delivers outstanding interconnection compatibility. Glenair QPL SAE-AS39029 contacts are guaranteed to mate properly and perform at the upper limits of application and specifications requirements.

Shielded Contacts and Fiber Optic Terminals a Specialty

Glenair shielded high-speed/frequency contacts are specified according to size, cable choice and impedance. The contacts are easily incorporated into standard 8, 12 and 16 size contact cavities, enabling users to interchange high-frequency contacts into a broad range of connector insert arrangements. Special 50 Ohm matched impedance contacts, for example, are available as are various coaxial and/or quadrax contact configurations. High speed matched impedance cables can also be supplied directly by Glenair, complementing our new contact product line capability.



- ◆ Qualified to SAE-AS39029 on Dozens of Contacts—and Growing!
- ◆ Same Day Inventory on Popular and Hard-to-Find Styles
- ◆ Highest Quality Materials Including Enhanced Durability Plating
- ◆ Fully Intermatable with Equivalent AS39029 QPL Contacts

About SAE AS39029 Crimp Contacts

In a marketplace saturated with specialty interconnection media, the SAE-AS39029 crimp contact is still the “bread and butter” of the circular connector world. Serving platforms like the D38999, M28840, and countless others, AS39029 crimp contacts continue to offer reliable power and signal transmission in ruggedized applications. A myriad of sizes, termination options and materials mean that end users don’t have to compromise performance or reliability.

Glenair AS39029 contacts are primarily supplied in crimp termination versions. Crimping results in a gas tight connection between the wire and its terminal. Although there are certainly alternatives to crimping, such as ultrasonic welding, resistance welding, insulation displacement technologies and so on, no other available technology delivers the short cycle times, flexibility and low overall cost of crimping—making it the termination technology of choice for most high-performance connector systems.

Crimp connectors are most commonly used to terminate stranded wire. Crimp-on terminals are attached by inserting the stripped end of the wire into the barrel end of the terminal, which is then mechanically deformed (crimped). Military Specification MIL-DTL-22520 provides the aerospace/defense industry with a common set of rugged, reliable hand crimp tools. This specification controls the voltage drop and tensile strength of crimp terminations. Daniels Manufacturing Corporation is the leading manufacturer of these tools. Special crimp tools or pliers are a must, and are supplied by Glenair with appropriate accessory attachments to insure reliable terminations for every wire and contact combination.

The AS39029 product series supplied by Glenair includes all the most popular standard and extended duty pin and socket contacts for use in high-performance circular and rectangular multi-pin connectors. We are also well positioned to supply special-purpose contacts to meet unique application requirements. Here is a selection of the top level QPL slash-sheet part numbers now supplied by Glenair:

High-Performance Connector with Crimp Contacts (Cutaway View)



◆ M39029/27	◆ M39029/59	◆ M39029/77	◆ M39029/90	◆ M39029/106
◆ M39029/28	◆ M39029/60	◆ M39029/78	◆ M39029/91	◆ M39029/107
◆ M39029/56	◆ M39029/75	◆ M39029/83	◆ M39029/102	◆ M39029/113
◆ M39029/57	◆ M39029/76	◆ M39029/84	◆ M39029/103	◆ M39029/114

NextGen High-Speed TwinAx

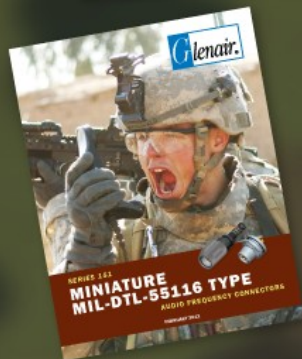
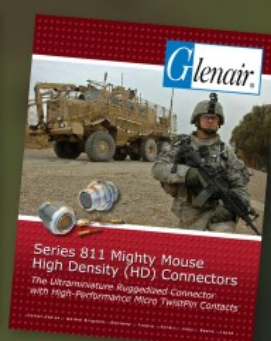
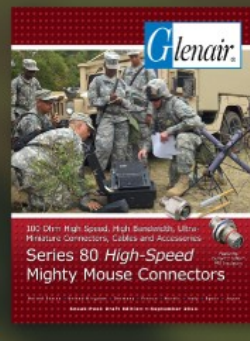
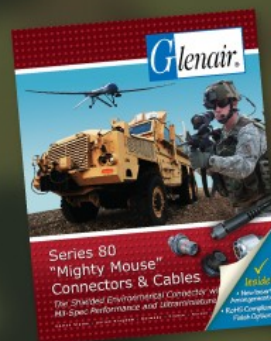
- Glenair designed contact for eSATA, LVDS, CML etc.
- For use in #12 Mighty Mouse and Micro-Crimp cavities
- Special TwinAx Thermax Celltec wire



HIGH-PERFORMANCE

ULTRAMINIATURE CIRCULAR CONNECTORS

SAVE WEIGHT • SAVE SPACE • ENHANCE PERFORMANCE



Glenair designs and manufactures the world's broadest and deepest selection of ultraminiature circular connectors for tactical field applications. Our Series 80 Mighty Mouse has become a new industry standard and is now used in countless high-performance interconnect applications. The Series 88 SuperFly™ is our next-generation nanominiature package for tactical field applications.



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Series 80 Mighty Mouse (Left)
Compared to D38999 (Right)



Series 80 High Speed
Mighty Mouse



Series 81
High Density
Mighty Mouse



USB, RJ-45 and other
SuperSeal™ Ethernet/Network
Connectors



Series 88 SuperFly™
Ultraminiature Cordsets



Series 15
Audio Connectors



B



Series 80 Mighty Mouse Connectors

*The New Industry Standard for Reduced Size
and Weight Applications*

- Half the size and weight of D38999—with all the performance!
- Currently specified on hundreds of mission-critical applications



SERIES 80

Mighty Mouse Connectors

The New Industry Standard for Reduced Size and Weight Applications

Half the Size and Weight of D38999—with All the Performance

Series 800 UNF Thread Series 801 Double-Start Series 802 "AquaMouse" Series 803 Bayonet

Series 804 Push-Pull Series 805 Triple-Start EMI/EMP Filter Receptacles High-Speed Serial Data Cordsets

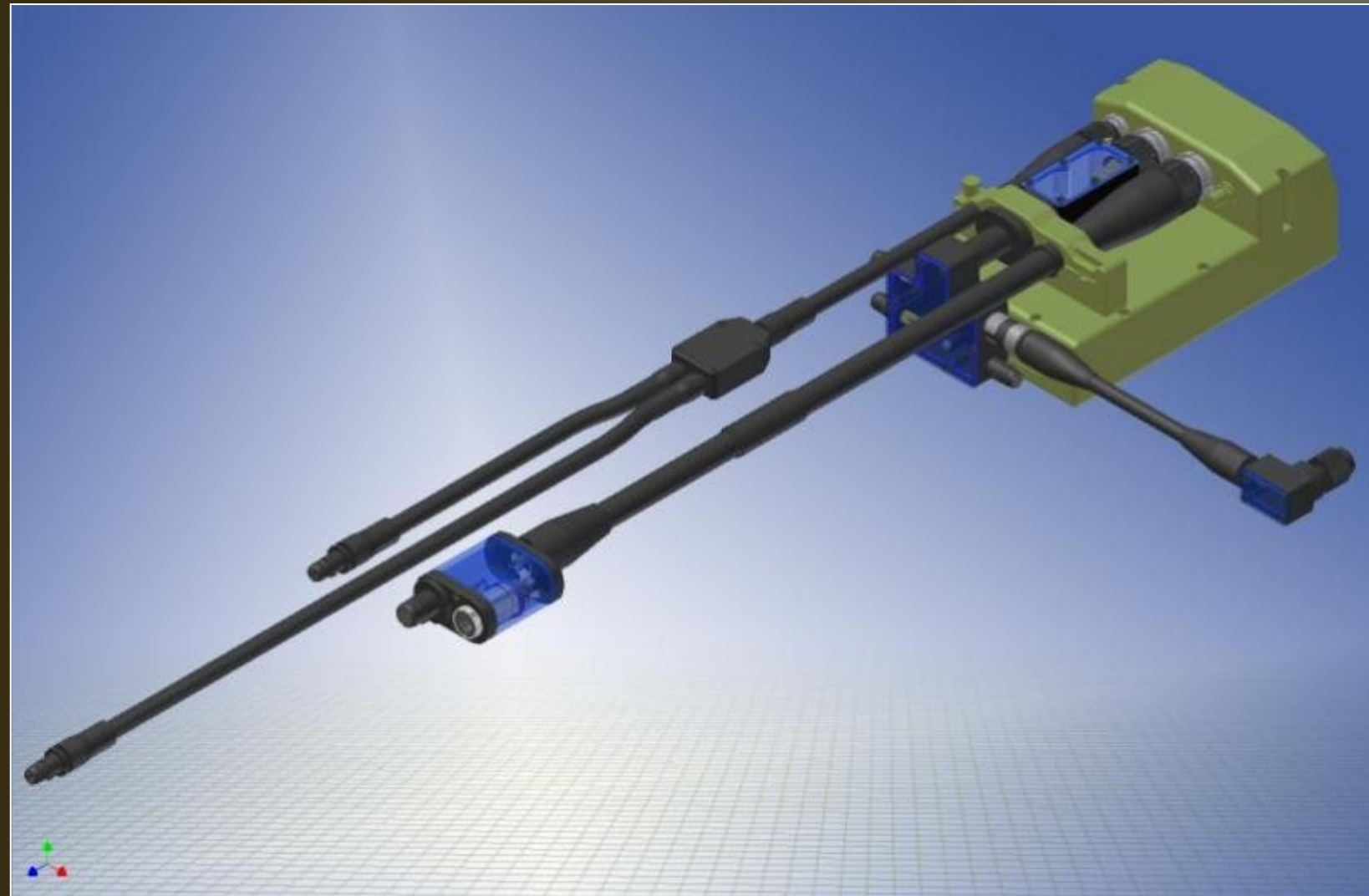
Glenair®

The advertisement features a collage of various Series 80 connectors, including different thread types, bayonet mounts, and specialized versions like EMI/EMP filter receptacles and high-speed serial data cordsets. A soldier in full combat gear, including a helmet and night vision goggles, is shown aiming a rifle, symbolizing the connectors' use in mission-critical military applications. The Glenair logo is prominently displayed in the bottom right corner.

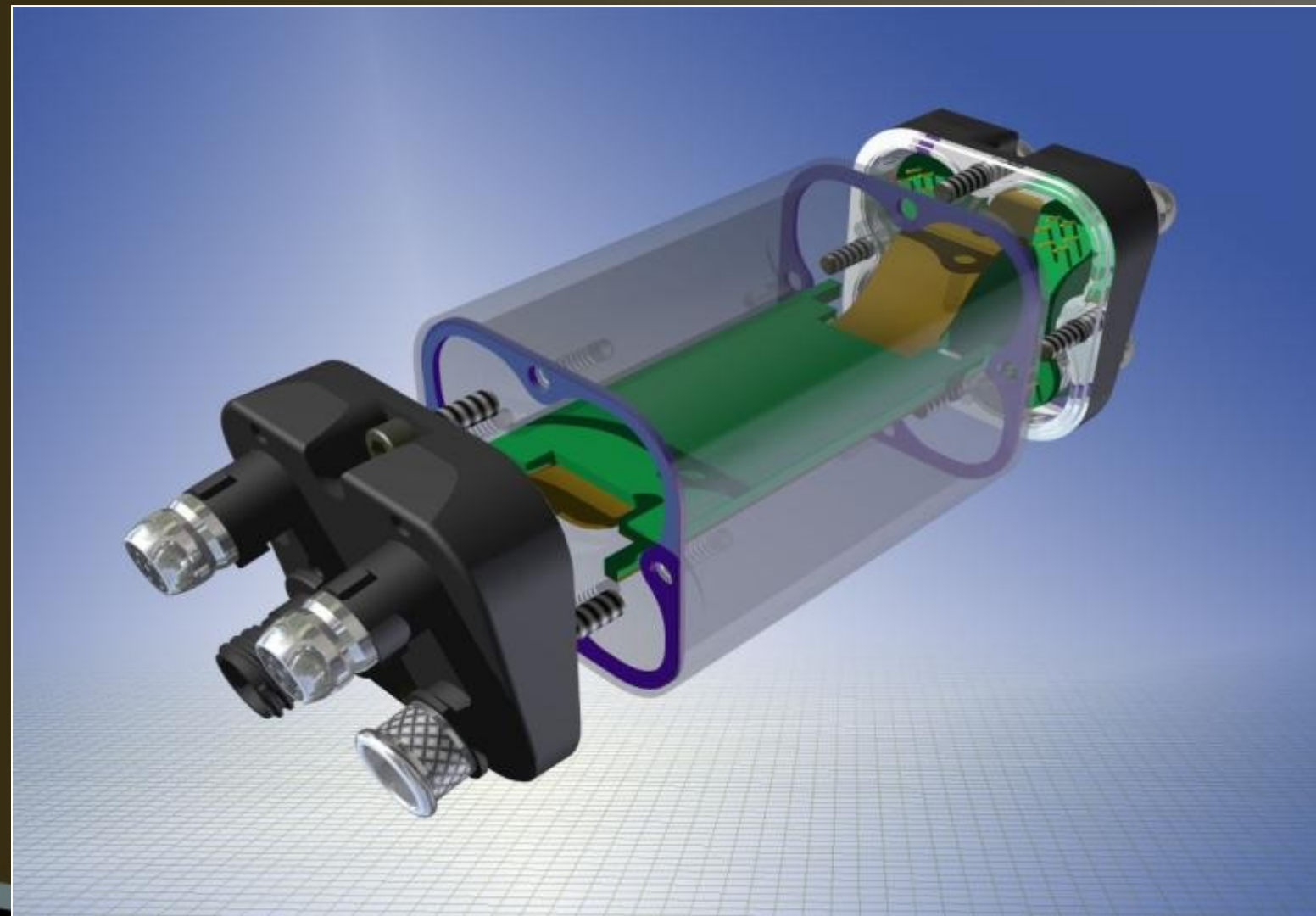
“Mighty Mouse” is a Complete Solution



Mighty Mouse Cables and Integrated Systems are our Specialty

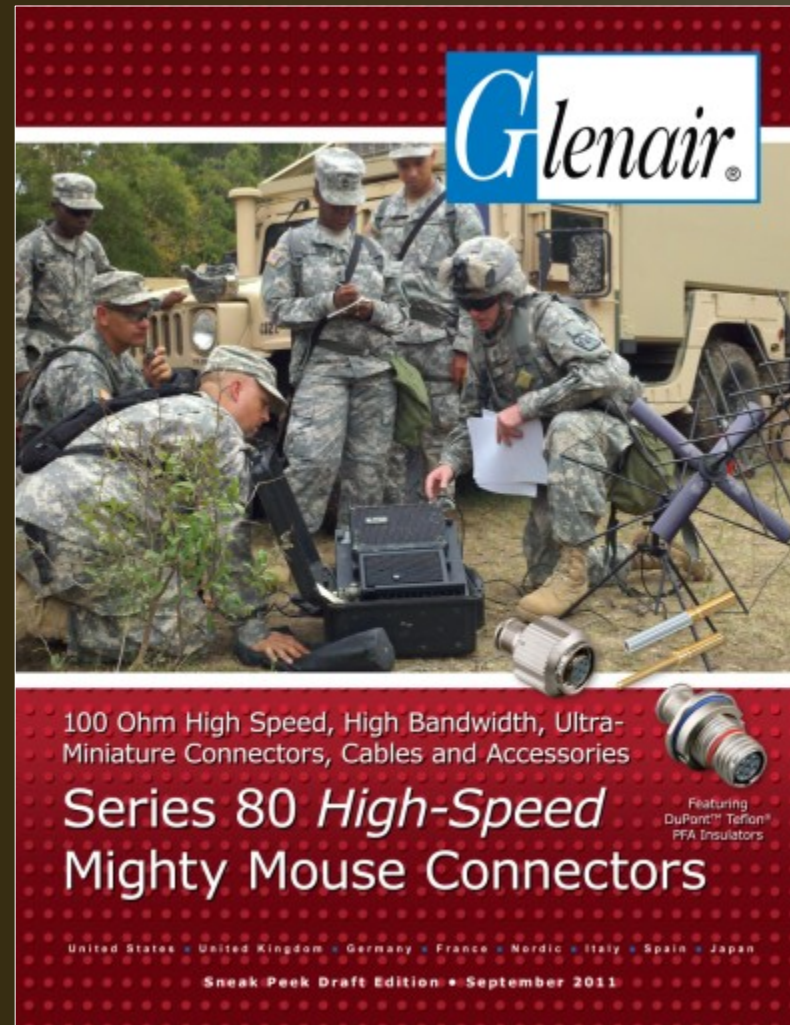


Innovative Mighty Mouse “Cans:” Versatility and Consolidation



New Series 80 Mighty Mouse *High-Speed* with Teflon® Inserts for SATA, USB 3.0

New!



New!

Series 811 Mighty Mouse HD

- Micro TwistPin Mighty Mouse
- Double the pincount of standard MM



SuperSeal™ Mighty Mouse and D38999 RJ-45 and USB

New!

- IP68 sealing in unmated condition
- Crimp and poke termination
- Superior grounding



New!

Series 88 SuperFly™ Ultraminiature Cordsets

- Innovative new hybrid connector/cordsets
- Nano, Micro and Size #23 contacts
- Soldier gear and other tactical apps
- Optimized for high speed



Series 15 Audio Connectors

- QPL and “HiPer” versions of popular 55116 comms connector
- VG qualified ultra-miniature CB Series



QPL AND COMMERCIAL

MIL-AERO

CIRCULAR CONNECTORS

ENVIRONMENTAL, HERMETIC, AND FILTER CLASS CYLINDRICAL CONNECTORS



From satellites to ruggedized shipboard and industrial applications, Glenair supplies literally every power, signal, or high-speed cylindrical connector configuration. From our QPL'd MIL-DTL-38999 hermetic connectors to our revolutionary Series 970 PowerTrip™ solution, Glenair now leads the industry in the design and development of high-performance, mission critical military/aerospace connectors.



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MIL-DTL-38999 and other Environmental Connectors



Series 970 PowerTrip™ Connectors



MIL-DTL-38999 and other Hermetic Connectors



Series 22 Geo-Marine® Connectors



Sav-Con® Connector Savers and Adapters



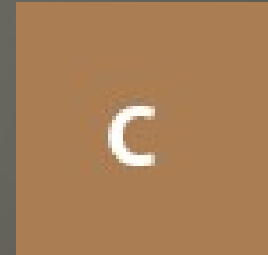
MIL-DTL-5015, 26482 and other Industrial Connectors



MIL-DTL-28840 Connectors



EMI/EMP Filter Connectors



Standard Environmentals: Example: 38999 Environmental TBF and STD Receptacles with Coax



Thermoset Plastic Potted Environmental: Example: 38999 with Quadrax PC Tails Mod Code 491 Backfill and Potting



Hermetic Sealing Can Be Implemented for Any Circular Connector Package...



Technology Supports Both Pin and Socket Contact in Any Receptacle Style

**MIL-DTL-
26482**



**MIL-DTL-
83723**



**MIL-DTL-
38999 (QPL)**



**MIL-DTL-
5015**



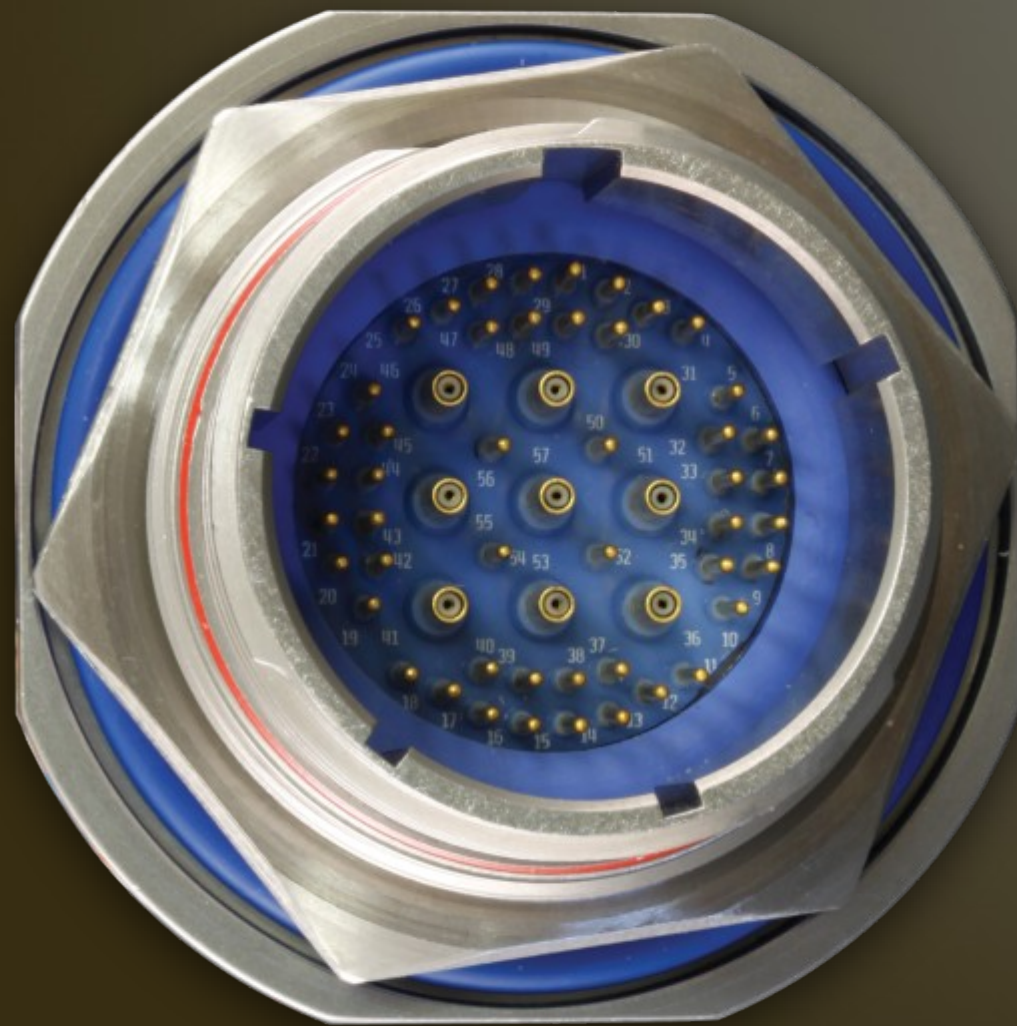
**Series 80
Mighty Mouse**



These are all standard catalog product offerings at Glenair



We Even Do Hermetic Coax



Series 970 PowerTrip™

The Ultimate Marriage of “Trip 9” Packaging and High-Performance Power



MIL-DTL-5015

MIL-DTL-38999

MIL-DTL-28840

PowerTrip™

Series 970 PowerTrip™ Contacts

The High Performance LouverBand

- High conductivity copper body
- Beryllium copper spring
- Higher ampacity
- Size 1/0 thru size 16



Ruggedized Industrial Power and Signal Connectors



Series 22 Geo-Marine

5000 PSI piston-sealed extreme environmental submersible

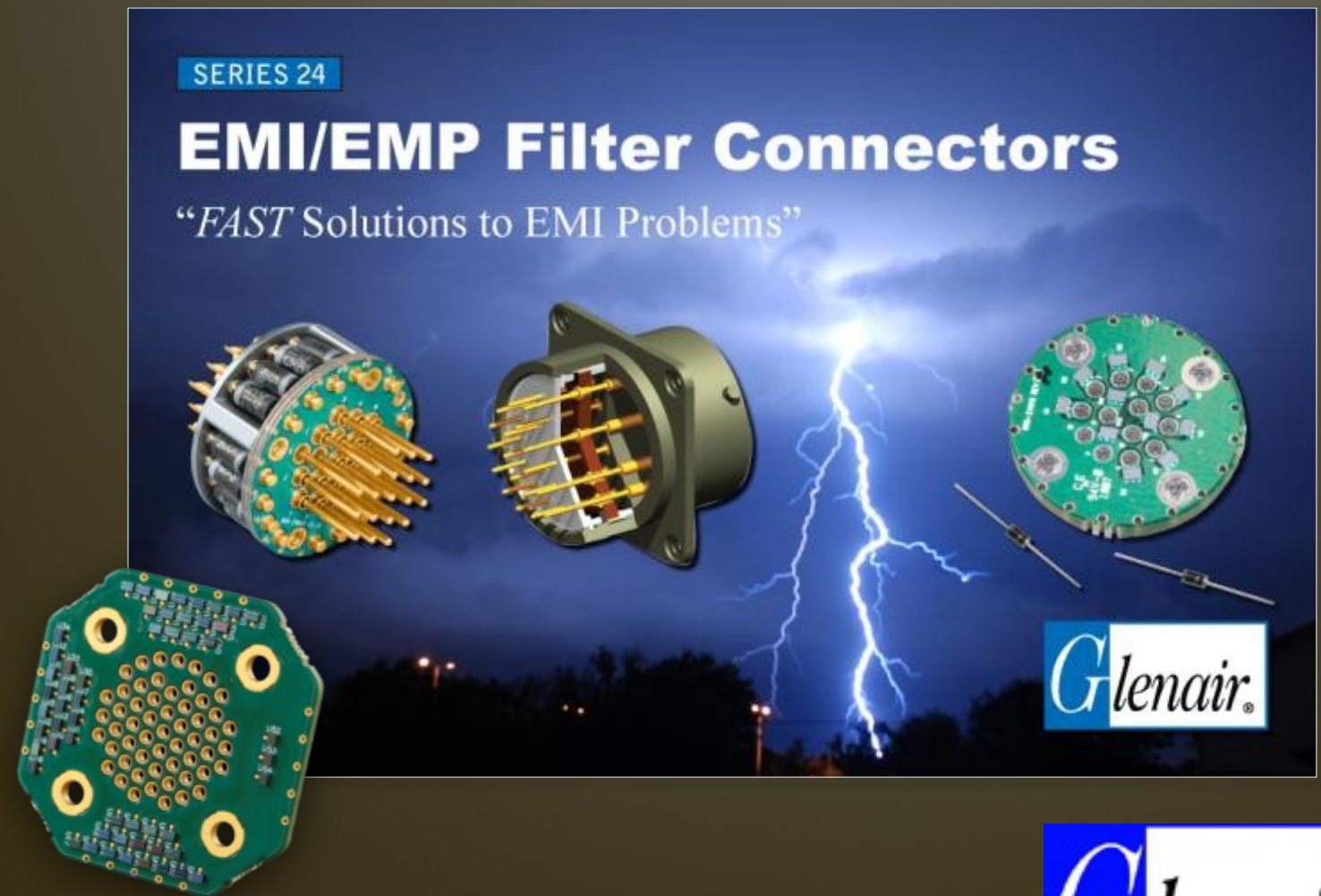


- Undersea exploration, pipeline inspection, and off-shore drilling
- 8 shell sizes / 31 insert arrangements
- Withstand 5000 PSI (mated)
- Major customers include: Halliburton, Schilling Robotics, British Gas and Pipetronics

Series 24 EMI/EMP Filter Connectors

In-House Fabrication of Multi-Pin Planar Array Connectors for EMI Suppression

- Turnkey EMI/EMP solutions: from analysis to delivery, Glenair does it fast and right
- Order straight from the catalog or specify a custom design



Glenair Delivers Filter Technology in Every Density: From Mighty Mouse to 5015

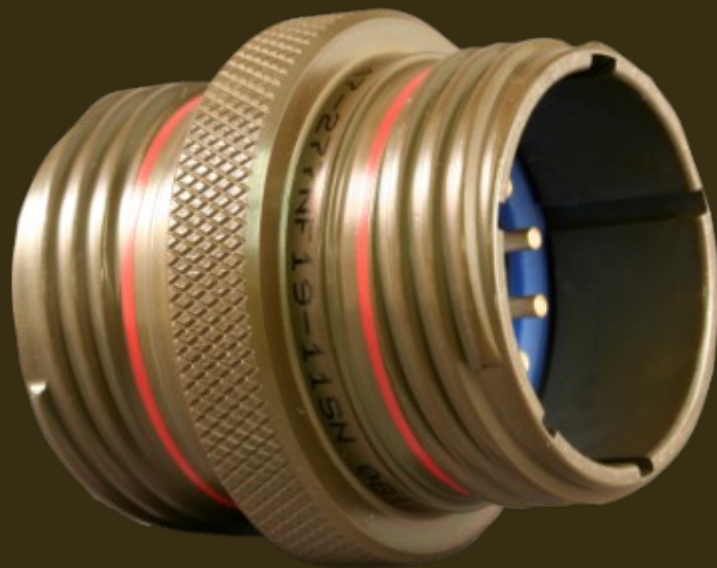


Mil-DTL-38999 (Series III) EMI/EMP Filters: Special Packaging



Sav-Cons®

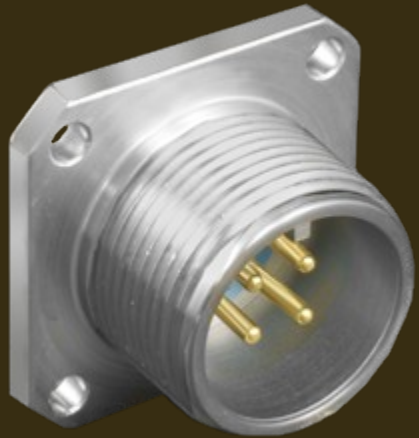
Rugged Connector Go-Betweens for D38999 and Other Mil-Spec Connector Series



- Available for all standard MS circular connector lines
- Protect expensive test equipment and cables from excessive wear and tear.
- One-piece feed-through contact
- Suitable for flight use--meets the same specifications as the mating connector

Summary of Circular Sizes/Densities

Standard



MIL-DTL-5015
MIL-DTL-22992
MIL-DTL-28840

Miniature



MIL-DTL-26482
MIL-DTL-26500
MIL-DTL-83723

Subminiature



MIL-DTL-38999

Ultra miniature



Sr. 80
Mighty Mouse

Micro miniature



Sr. 811
Mighty Mouse
HD

Nano miniature



Sr. 88
SuperFly

HIGH-PERFORMANCE

RECTANGULAR CONNECTORS

FROM NANOMINIATURE & MICRO TO D-SUB:
THE INDUSTRY'S BEST PERFORMANCE AND AVAILABILITY

Glenair manufactures all of the popular industry-standard rectangular connectors used in military and aerospace applications, including special high-performance versions of the M24308 D-Sub and our revolutionary Series 79 Micro-Crimp connector. We offer a small form factor rectangular connector for virtually every I/O and wire-to-board requirement. All of our rectangular connector products are available with flex circuit terminations, as well as turnkey point-to-point cordsets.



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MIL-DTL-83513
Micro-D
Connectors

Series 28 HiPer-D 24308
Compatible Connectors

Turnkey Harness
Assemblies,
Including Flex

Series 89
MIL-DTL-32139
Nanominiature
Connectors

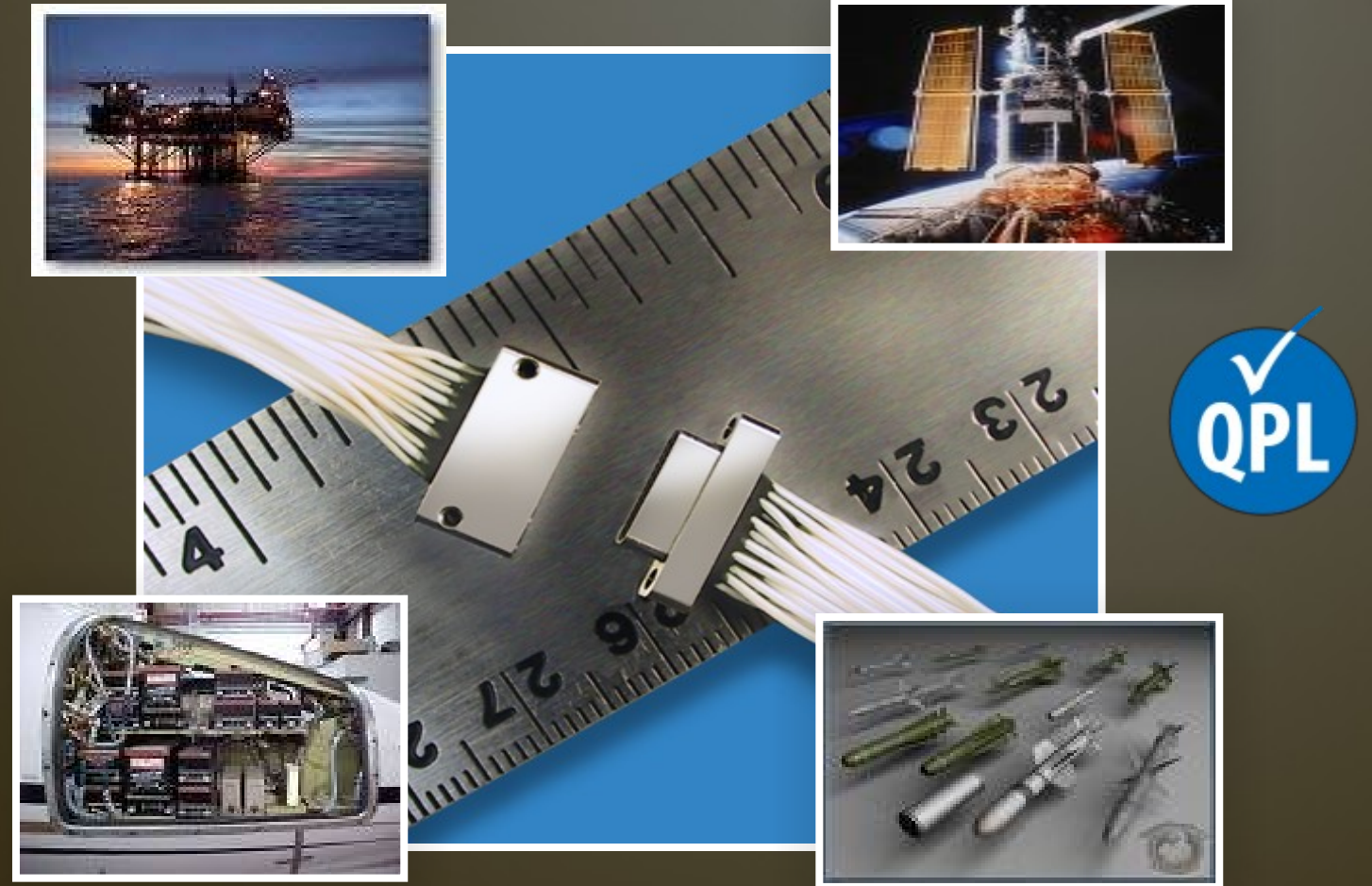
Series 79
Micro-Crimp
Connectors

D



The Series 89 Nano Connector Range

- Super small, light weight and versatile,
- High reliability TwistPin contact system for added performance and reliability.
- Ideally suited for use in down-hole electronics, space systems, missile systems and avionic enclosures.



Micro-D Connectors and Cables



Ultra-Miniature Rectangular Connectors for Mission-Critical Applications

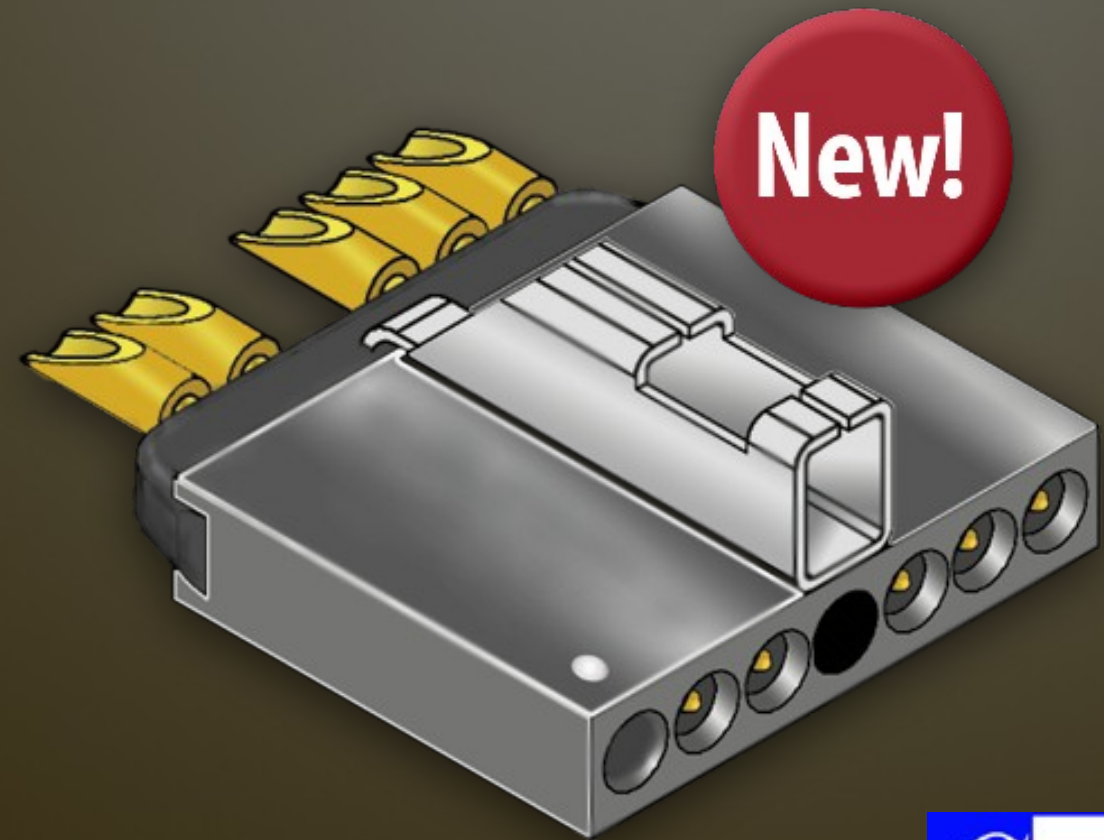
- .050 inch Micro layouts deliver optimal connector package density
- Machined shells and TwistPin contacts deliver optimal reliability and performance



Series 171 MicroStrips

When the time arrives to graduate from COTS performance to Military Performance

- New and improved version of MWS strips
- Latches for secure mating
- Guide Pins
- Board mount
- Surface mount



MLDM Low-Profile Micro-D



MLDM



.260" height

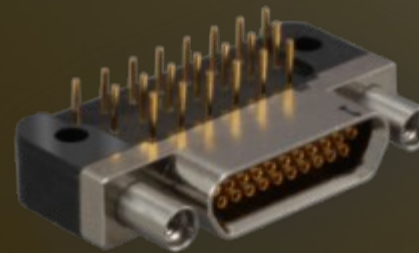
MWDM-51



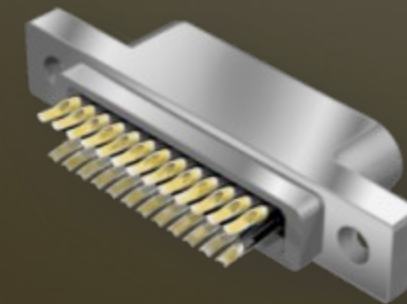
.351" height



Pre-Wired
Pigtail



Right Angle
Board Mount



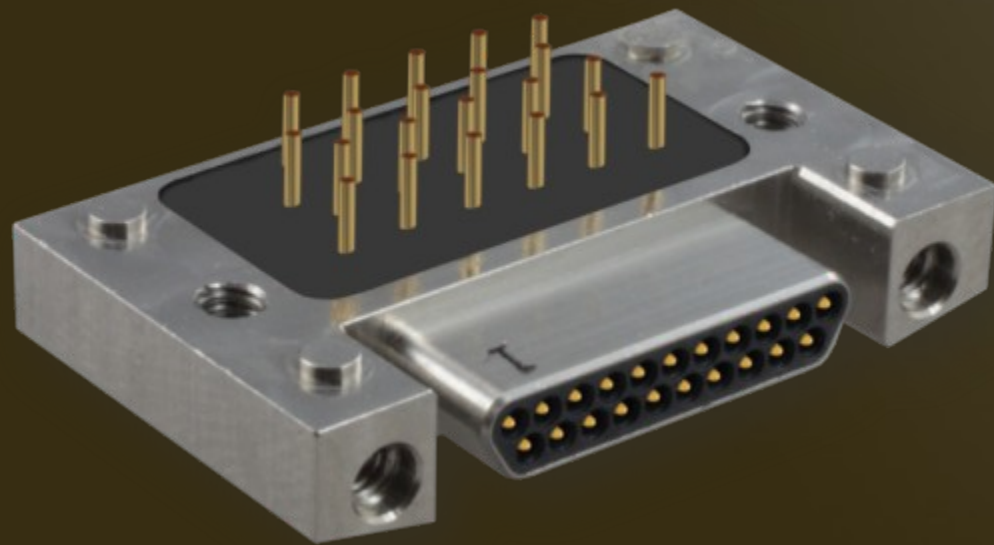
Solder Cup



Well-Master™ 260 (GHTM)

The high temperature Micro-D for
+260°C applications

New!



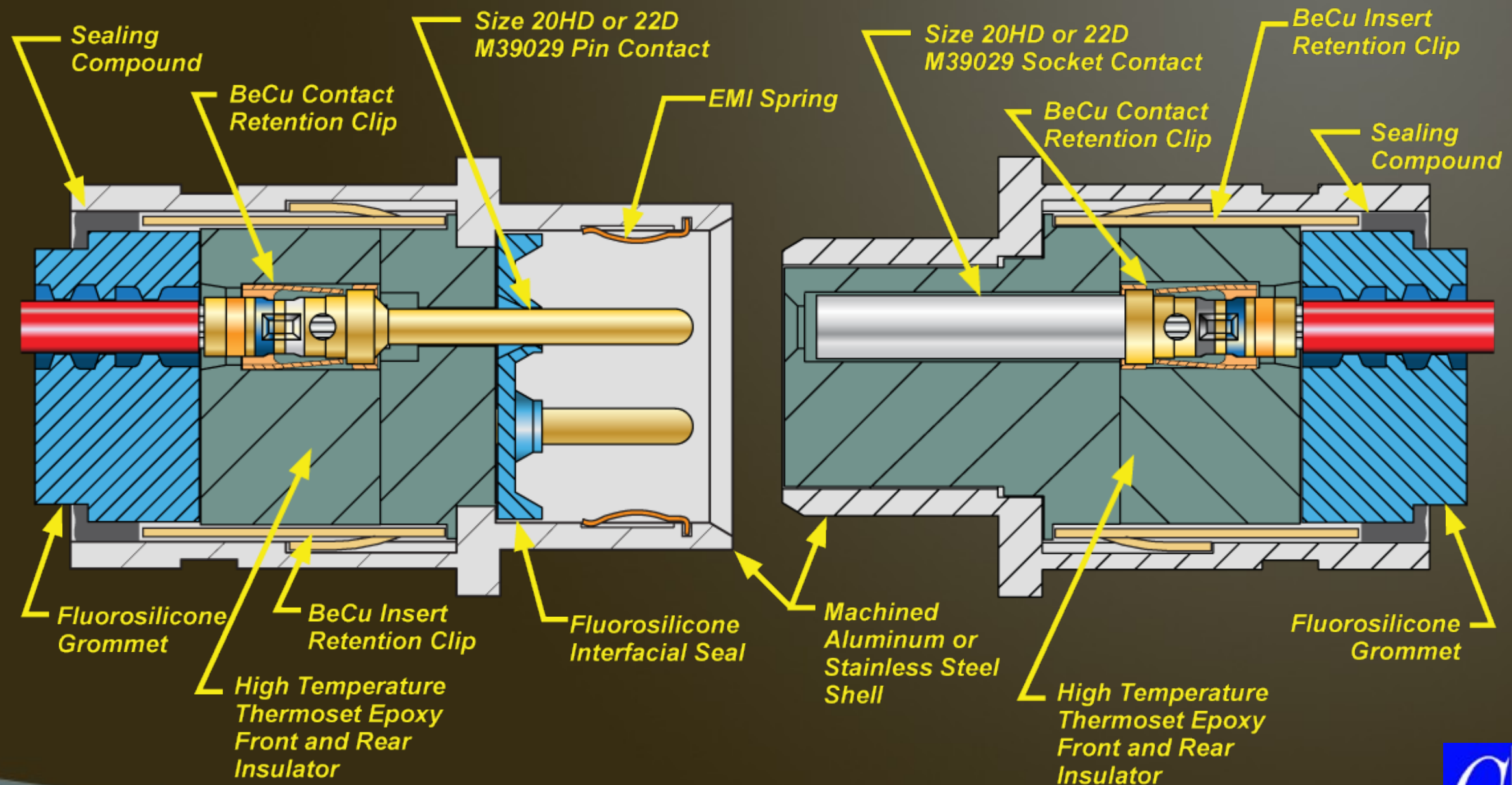
Glenair®

HiPer-D: Intermateable w/ Mil-C-24308

The Extreme Duty D-Sub Connector



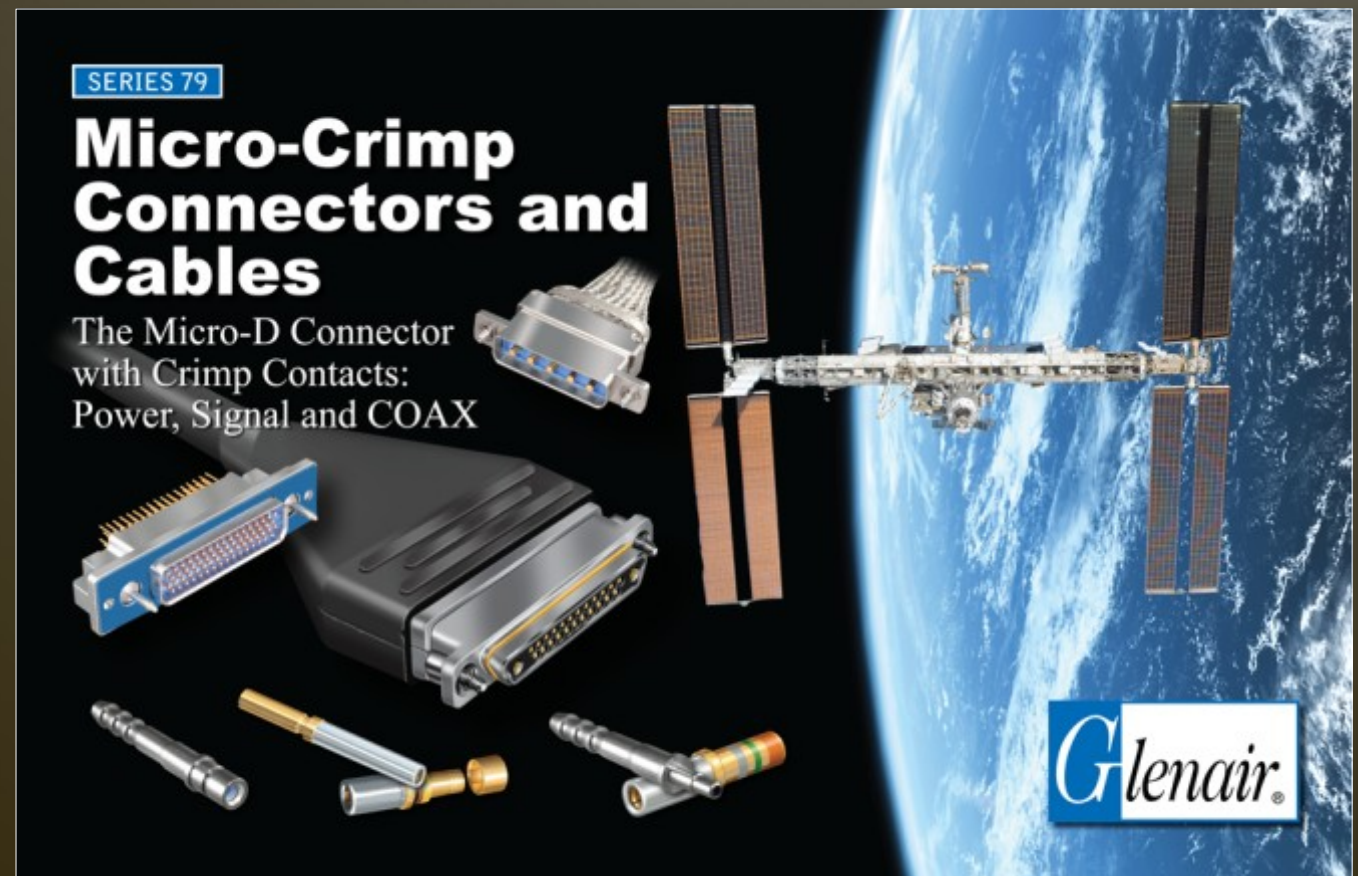
HiPer-D 24308



Series 79 Micro-Crimp Connectors and Cables

The Micro-D Connector with Crimp Contacts: Power, Signal and COAX

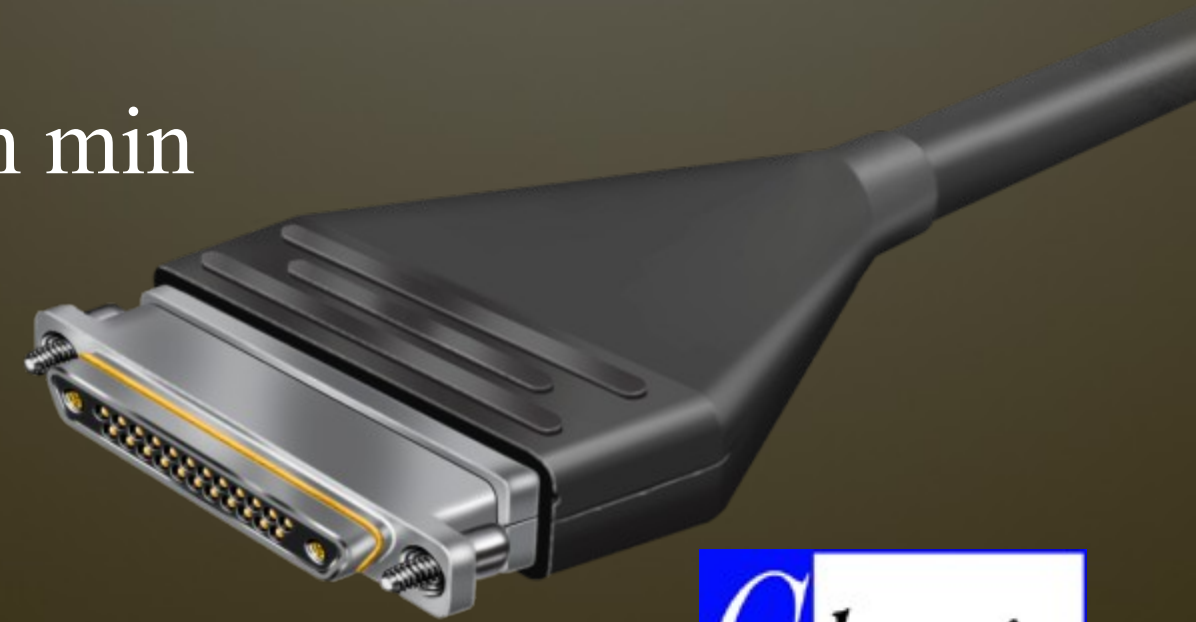
- Incorporates crimp contact technology into an innovative, precision-machined, micro-density, module-to-chassis connector package
- Dozens of tooled layouts



Micro-Crimp Advantage other Rectangulars: Smaller, with Improved Shielding and Sealing

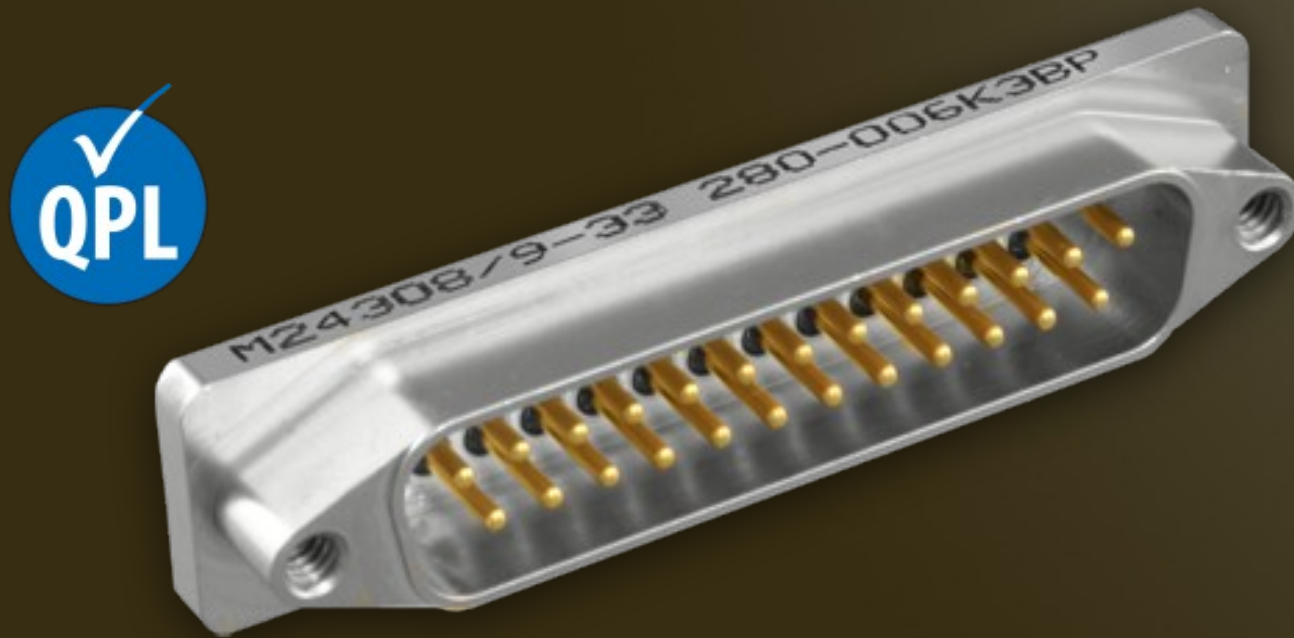
Higher Density than MIL-DTL-24308 and ARINC
Better Performance than MIL-PRF-83513

- EMI spring on plug—aluminum shroud on right angle PCB
- Shielding effectiveness: 60 dB attenuation min from 100 MHz to 1000 MHz
- IP67 protection from water ingress
- Guide pins for blind mating

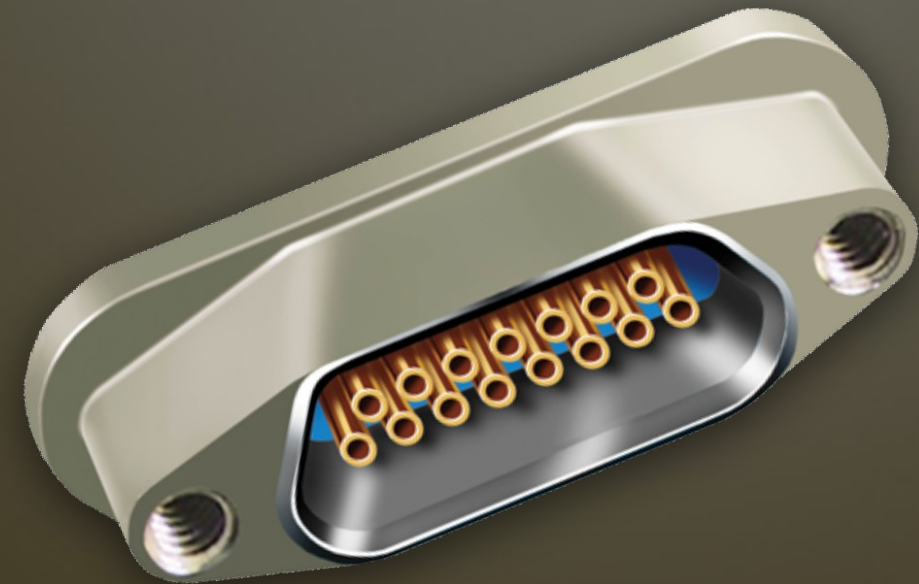


Special Hermetic Rectangulars

MIL-DTL-24308 (QPL)



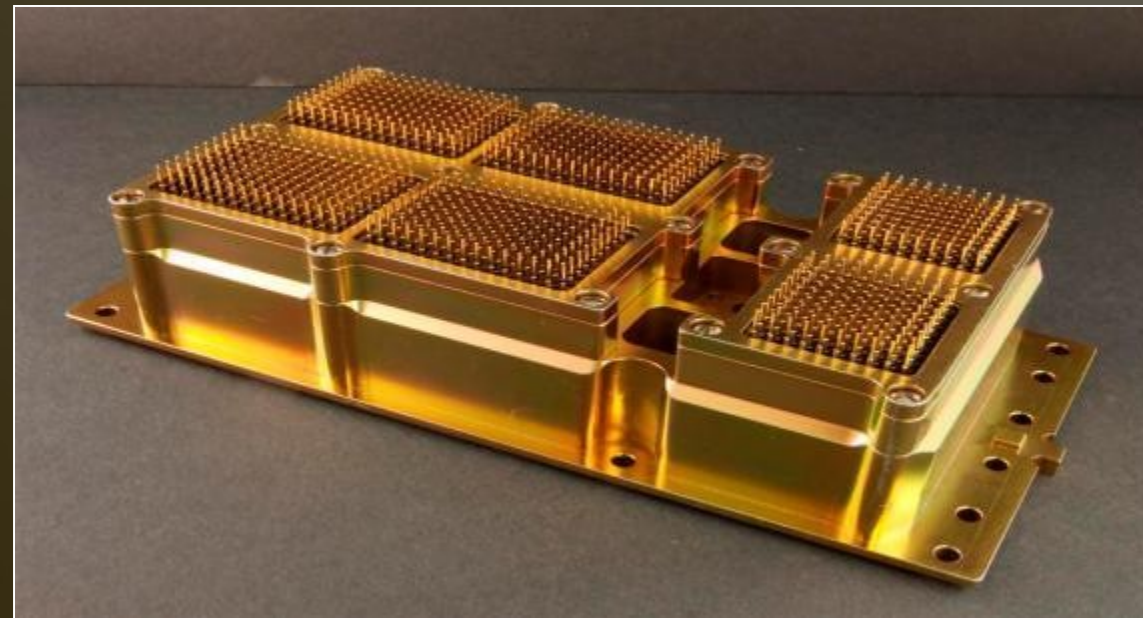
MIL-PRF-83513



Again...standard catalog product offerings

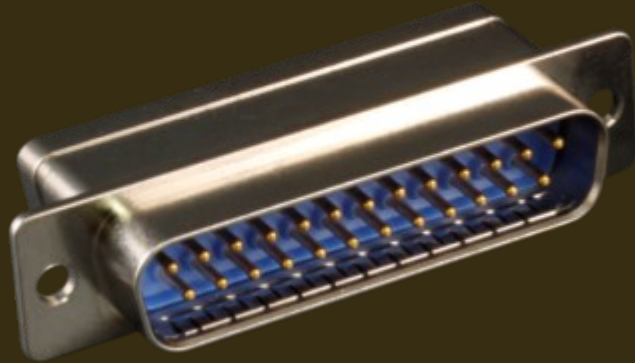


Special ARINC's: Filters and Quadrax



Rectangular Series Summary

Hiper-D



Glenair Sr. 28

M24308

5 - 7.5 AMPs

11 Layouts

9-104 Positions
Crimp, Pre-Wired,
Solder Cup, PCB

Micro-Crimp



Glenair Sr. 79

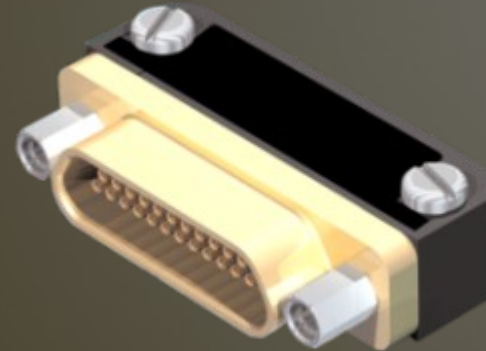
N/A

5-23 AMP

31 Layouts

2-102 Positions
Crimp, Pre-Wired,
Solder Cup, PCB

Micro-D



Glenair Sr. 17

M83513

3 AMP

8 Layouts

9-100 Positions
Pre-Wired, Solder
Cup, PCB

Nano



Glenair Sr. 89

M32139

1 AMP

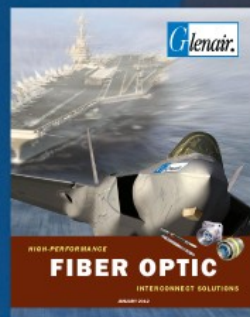
7 Layouts

9-51 Positions
Pre-Wired, PCB

QPL AND COMMERCIAL

HIGH-PERFORMANCE FIBER OPTICS

FOR LAND, SEA, AIR, SPACE, AND C4ISR APPLICATIONS



Glenair fiber optic interconnect technologies deliver high data rate and bandwidth, reduced size and weight, EMI immunity, enhanced security, and spark/arc immunity. Our broad offering of fiber optic systems includes qualified MIL-PRF-28876 connectors and termini for shipboard applications, MIL-DTL-38999 Series III type fiber optic connectors and termini for aerospace applications, as well as our revolutionary Eye-Beam™ Expanded Beam termini, and copper-to-fiber media converters.



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GHD High Density
Fiber Optic
Connection System



MIL-DTL-38999
Type
Fiber Optic
Connection System



GFOCA M83526 Compliant
Fiber Optic Connection System



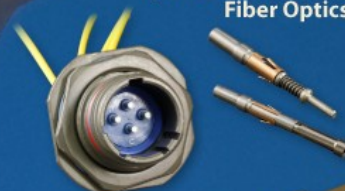
MIL-PRF-28876
Fiber Optic
Connection System



Series 80
Mighty Mouse
Fiber Optic
Connection System



Eye-Beam™ Expanded Beam
Fiber Optics



Copper-to-Fiber
Media Converters/
Active Components



Fiber Optic
Termination,
Test, and
Cleaning Kits

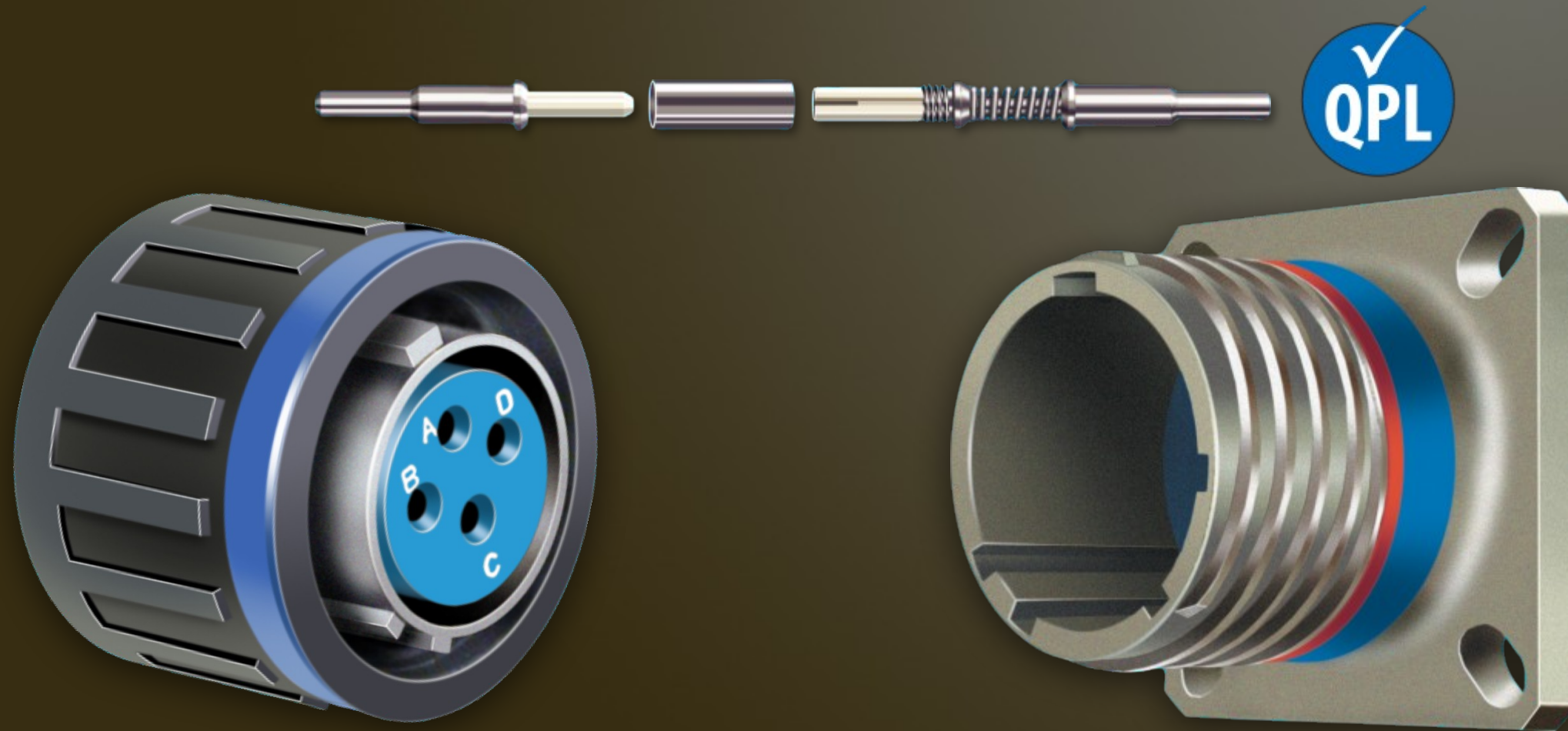


E



MIL-DTL-38999 Type

Most Popular Aerospace Fiber Optic Connection System



High Density (GHD)

For 50% + Size and Weight Reduction



Size #23 Fiber Optic Mighty Mouse

Even Smaller and Lighter

New!

Size #23 Fiber Optic Termini



181-063 Pin Terminus

181-064 Socket Terminus

Termini Type	Optical Fiber Type	Part Number	A Ferrule I.D.	Fiber Size Core/Cladding*
Pin	Multi Mode	181-063-126	126.0 microns	50/125, 62.5/125
	Single Mode	181-063-1255	125.5 microns	9/125
Socket	Multi Mode	181-064-126	126.0 microns	50/125, 62.5/125
	Single Mode	181-064-1255	125.5 microns	9/125

*Consult factory for additional sizes

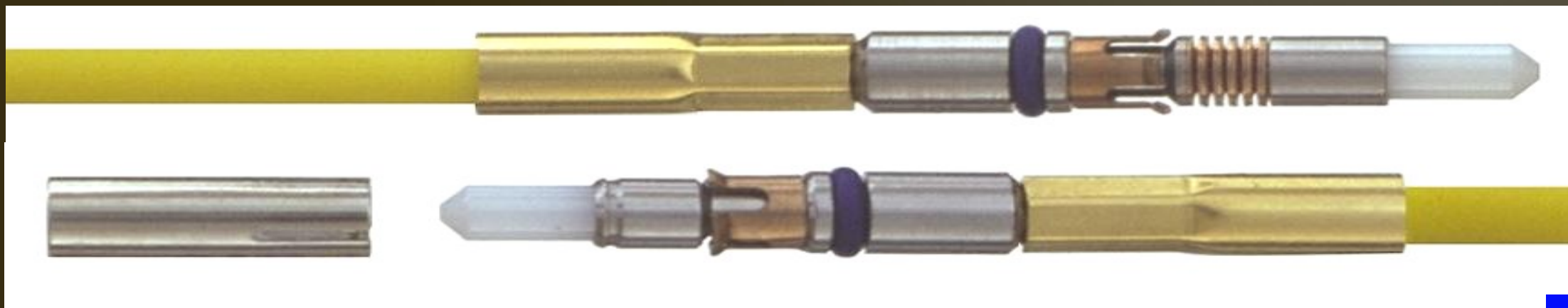
*Series 801 6-4 with size #23 fiber optic termini
vs. equivalent functionality D38999*



Series 801
Shell size 6, 4 channel
5 Grams (less contacts)

D38999 Series III
Shell size 13, 4 channel
21 Grams (less contacts)

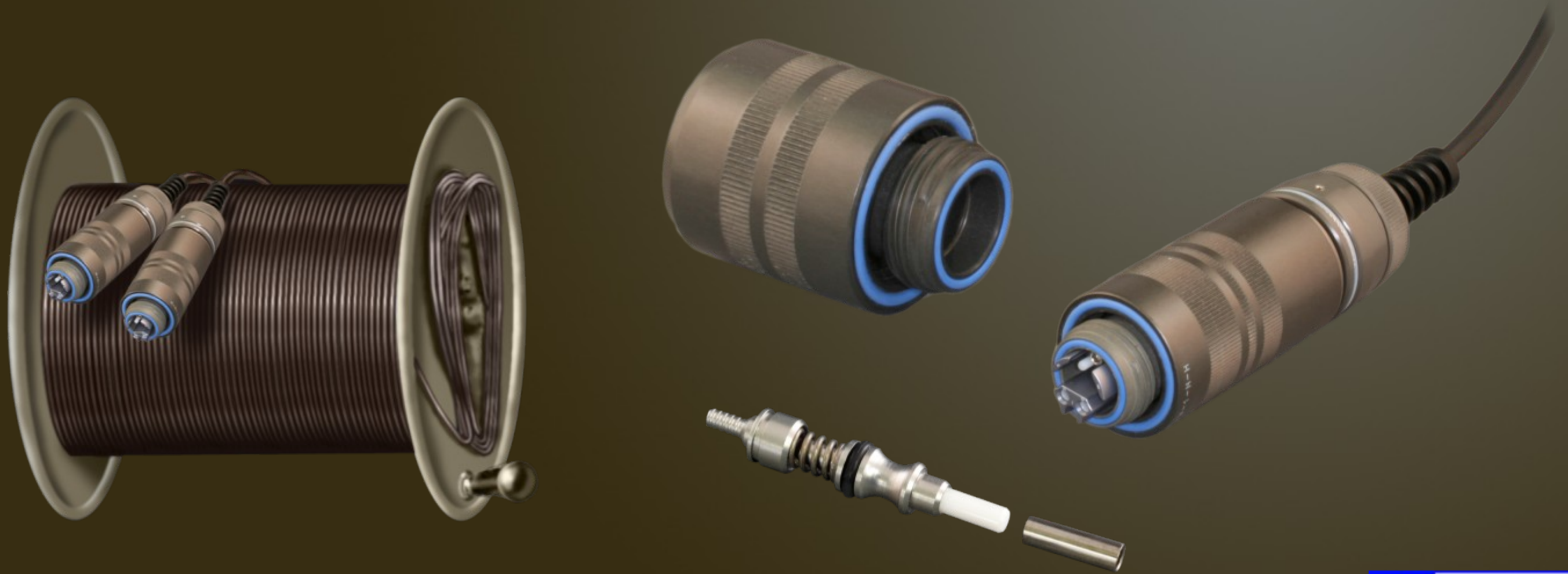
M28876 Fiber Optic Connection System



Glenair M29504/14 and /15 Termini



GFOCA M83526 Compliant Hermaphroditic

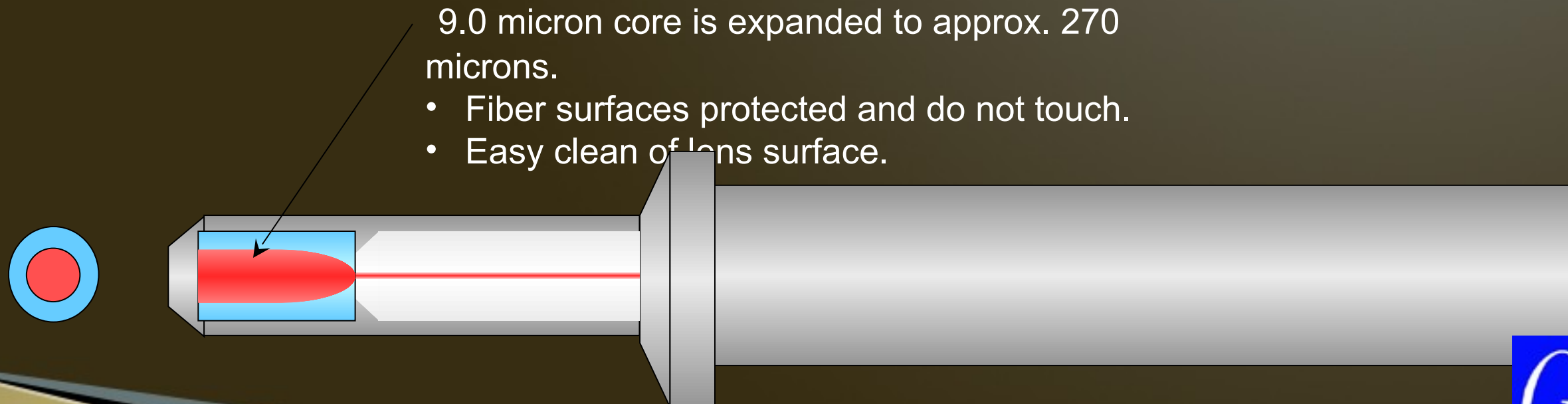
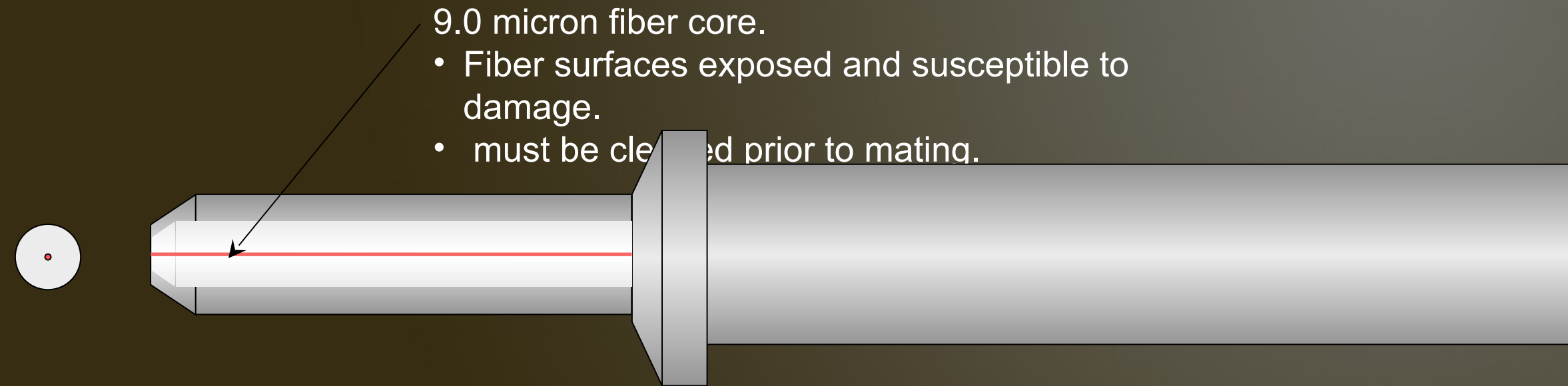


New!

Eye-Beam Fiber Optics



Eye-Beam Grin Lens Terminus



Glenair Fiber Optic Media Converters

- Gigabit Ethernet Fiber-Optic Media Converter
 - Converts Gigabit Ethernet (1000BASE-T) from copper twisted pair to a pair of optical fibers
 - Ruggedized packaging for -40C to +85C operation
- Digital Visual Interface (DVI) Fiber-Optic Media Converter
 - R,G,B, clock signal transport
- Size-8 Active Contact
 - Up to 4.25 GB/sec
 - 10 GB version coming



New!

*"050-100 Series"
Gigabit Ethernet
Media Converter*



*"050-200 Series"
DVI Media
Converter*



*"050-300 Series"
Size-8 Media
Converter*



NEXT GENERATION

SHRINK BOOTS JACKETS AND SHIELDS

FOR EXTREME ENVIRONMENTAL AND EMI/RFI PROTECTION



Cable assemblies, exposed to harsh environmental, mechanical and electromagnetic stress are routinely equipped with boots, shields, and jackets designed to protect critical circuits from damage. Glenair offers a complete, turnkey solution to cable and conduit protection that includes innovative lightweight braided EMI/RFI shielding, revolutionary Duralectric™ jacketing, and our full spectrum Series 77 Full Nelson environmental shrink boot product family.



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Series 77 Full Nelson
Environmental
Shrink Boots

ArmorLite™ Micro
Stainless Steel and
AmberStrand®
Composite
EMI/RFI
Braided Shielding

Industry Standard
EMI/RFI Metal
Braided Shielding
and Sleeving

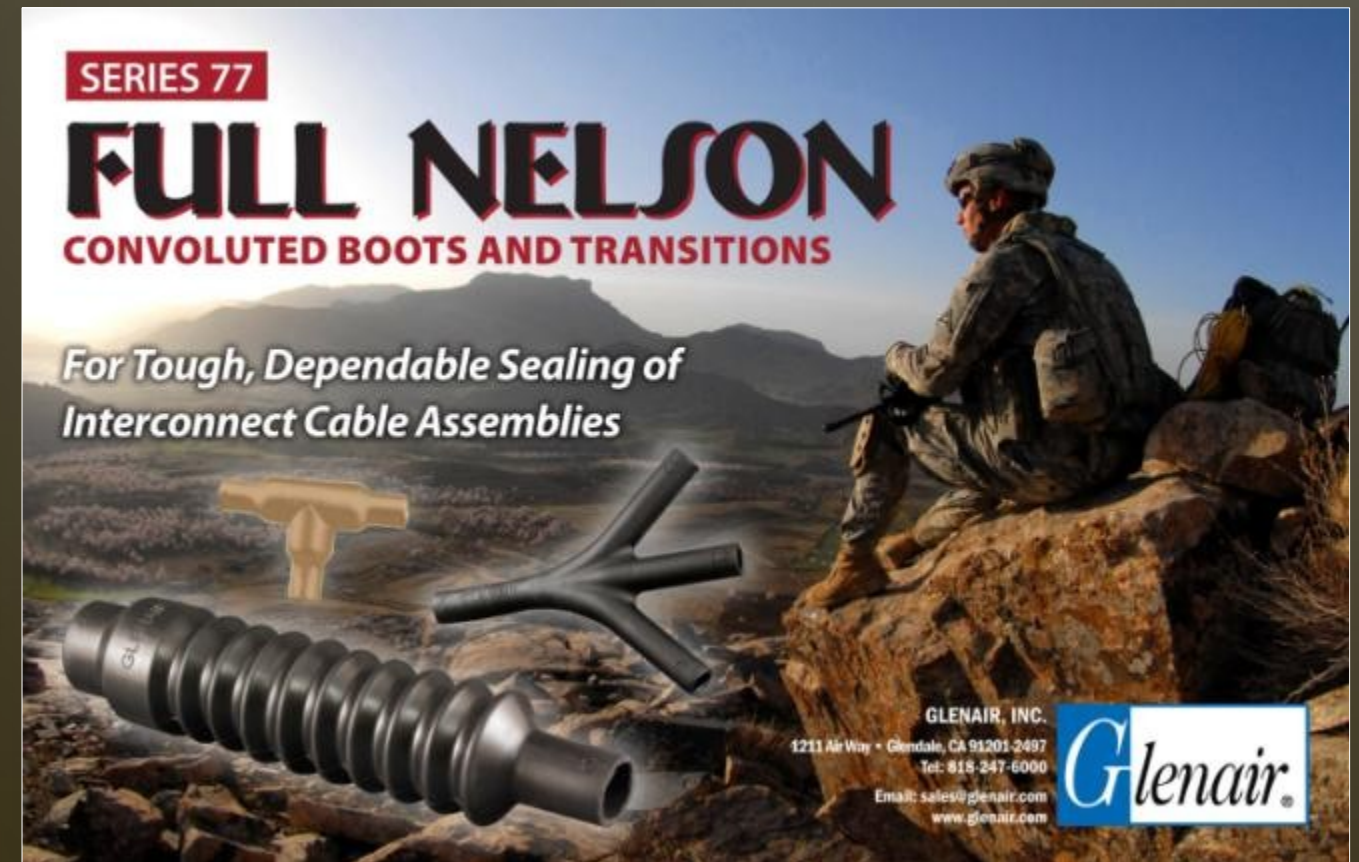
Duralectric™, Viton®,
and other
Cable and Conduit
Jacketing

F



Series 77 Full Nelson

Convolute Boots and Transitions



New Materials

- 2050 Type 5
Viton Fluoroelastomer Blend
- 2051 Type 6
High Performance Elastomer Alloy
- 2071 Type 7
Flexible Polyolefin

Introduction



Series 77 Shrink Boots Material Properties

Shrink Boot Typical Material Properties

Property	Type 1 High Performance Elastomer	Type 2 Zero Halogen Polyolefin	Type 3 General Purpose Polyolefin	Type 5 Viton Fluoroelastomer Blend	Type 6 High Performance Elastomer Alloy	Type 7 Flexible Polyolefin
Flexibility	Semi-rigid	Semi-flexible	Flexible	Flexible	Flexible	Highly Flexible
Operating Temperature Range	-75°C to +150°C	-90°C to +125°C	-55°C to +135°C	-55°C to +150°C	-55°C to +135°C	-55°C to +135°C
Shrink Temperature (min.)	135°C	135°C	120°C	135°C	135°C	135°C
Tensile Strength (psi)	1700	1100	1400	2200	1500	1400
Elongation (% min.)	400	250	450	400	300	250
Long Term Heat Aging	3000 hrs, 150°C	3000 hrs, 135°C				
Heat Shock	4 hrs, 215°C	4 hrs, 215°C	4 hrs, 225°C	4 hrs, 225°C	4 hrs, 220°C	4 hrs, 255°C
Heat Aging	168 hrs, 150°C	168 hrs, 160°C	168 hrs, 175°C	168 hrs, 150°C	168 hrs, 150°C	168 hrs, 175°C
Dielectric Strength (V/mil)	300	300	250	200	300	300
Volume Resistance (ohm-cm)	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹¹
Water Absorption (%)	0.5	0.5	0.5	0.5	0.5	0.5
Flammability	Burn Time <15 sec. Burn Length <25mm	Burn Time <15 sec. Burn Length <25mm	Burn Time <120 sec. Burn Length <25mm	Burn Time <120 sec. Burn Length <25mm	Burn Time <120 sec. Burn Length <25mm	Burn Time <80 sec. Burn Length <25mm
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes
Oxygen Index (% min.)		30				
Temperature Index (°C)		250				
Smoke Index (max.)		20				
Toxicity Index (max.)		3				

Shrink Boot Fluid Resistance

Fluid	Type 1 High Performance Elastomer	Type 2 Zero Halogen Polyolefin	Type 3 General Purpose Polyolefin	Type 5 Viton Fluoroelastomer Blend	Type 6 High Performance Elastomer Alloy	Type 7 Flexible Polyolefin
Lubricating Oil	Very good	Good	Good	Excellent	Excellent	Good
Hydraulic Fluid	Very Good	Good	Good	Excellent	Excellent	Good
Aviation Fuel	Very Good	Good	Good	Excellent	Excellent	Fair
Gasoline	Very Good	Fair	Fair	Excellent	Excellent	Good
De-icing Fluid	Excellent	Very Good	Good	Excellent	Excellent	Good
Automotive Diesel	Good	Fair	Very Good	Excellent	Excellent	Fair

Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324

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www.glenair.com

A-4

Printed on 11/11/11

High-Performance Jacket Materials:

New!

DURAELECTRIC™

**The Ultimate in Durable Wire, Cable
and Conduit Jacketing**



Flexible,
environmentally-
tough jacketing
For conduit and
cable



Glenair®

Innovative, Braided Wire Cable Shields and Coverings

Lightweight, Flexible Shielding Solutions for Advanced EMI and Abrasion Protection

- Dozens of material choices, from conductive metals to high-temperature plastics
- Available in tubular braided form or applied directly to your assembly

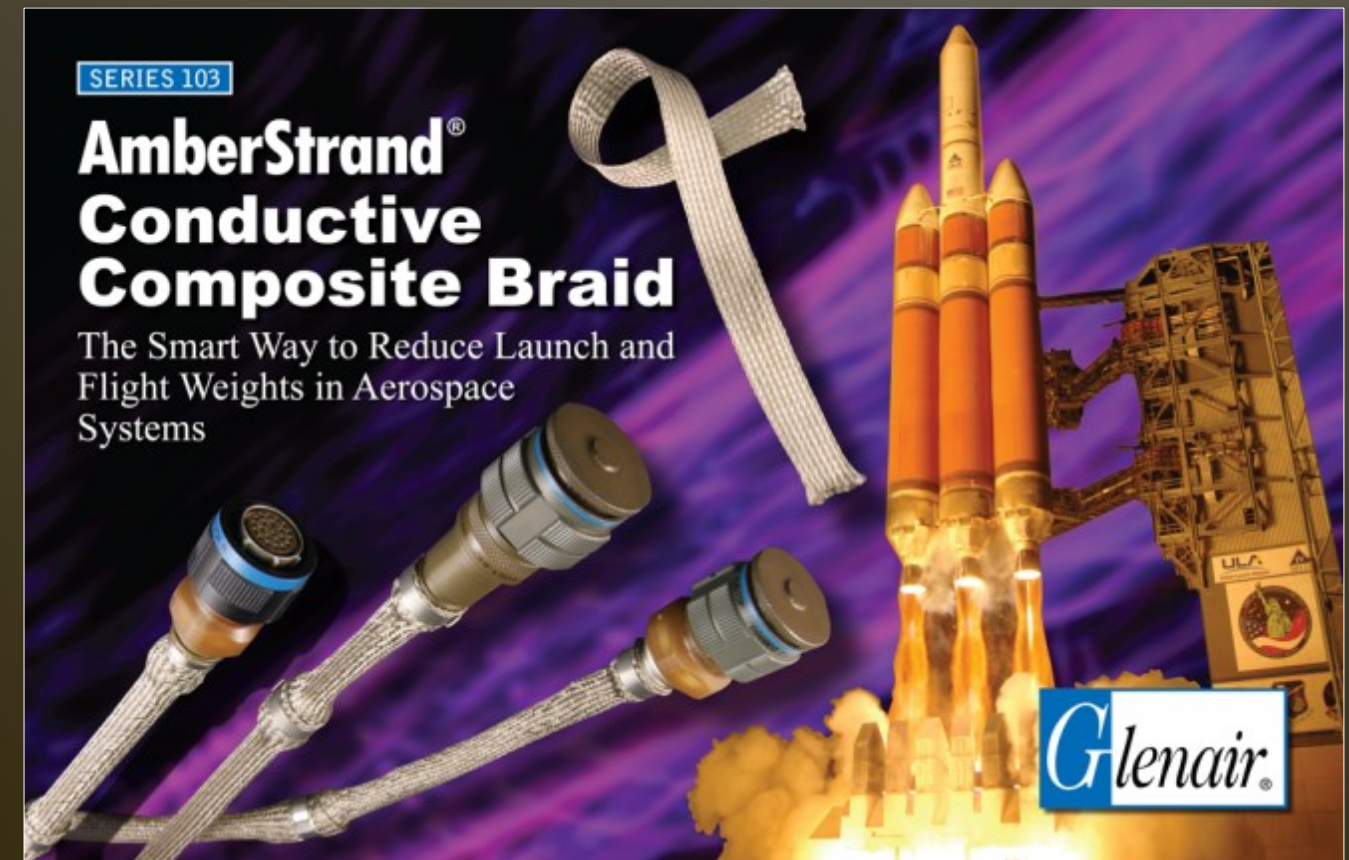


AmberStrand® Conductive Composite Braid



The Smart Way to Reduce Launch and Flight Weights in Aerospace Systems

- Metal-clad composite material delivers outstanding EMI shielding performance
- Flexible material resists kinks and bends that diminish shielding effectiveness



ArmorLite™ Microfilament Stainless Steel Braided Shielding

Extremely lightweight and temperature tolerant conductive EMI shielding

- Flexible SS material resists kinks and bends that diminish shielding effectiveness
- Superior electrical properties and shielding performance



New!

Glenair®

SERIES 72, 74, AND 75

METAL AND POLYMER CORE CONDUIT SYSTEMS

THE FLEXIBLE, LIGHTWEIGHT ALTERNATIVE
TO STANDARD JACKETED CABLES



Conduit systems are ideally suited when wire protection requirements do not allow the specification of standard jacketed and shielded cabling. Jet aircraft landing gear applications, for example, require greater flexibility and mechanical protection against impact damage than is possible to provide in even the most aggressively armored cables. Glenair metal-core and polymer-core conduit systems provide superior electromagnetic compatibility, flexibility, and ease-of-installation and maintenance compared to standard jacketed cables. Choose from turnkey factory-terminated systems or convenient user-installable fittings and materials.



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Series 72 Annular
Polymer-Core
Conduit Systems



Series 74 Helical
Polymer-Core
Conduit Systems



Series 75
Metal-Core
Conduit Systems



MIL-PRF-24758
Navy Shipboard
and Other
Special Purpose
Conduit System



Turnkey Factory
Terminated
Assemblies



G



Polymer-Core Materials: Series 72

Annular, Economical, Mid-Range Performance



Quick and easy installation

- Economical, Lightweight and Flexible
- Easy-to-install fittings
- Thermally-stabilized Kynar®, PVDF and Siltem materials available
- Braid options for superior EMI protection
- Ideal for expandable systems or prototypes
- Used in air, rail and transit applications



Glenair

Polymer-Core Materials: Series 74

Helical, High-Temperature, High-Performance



Lightweight, durable and flexible

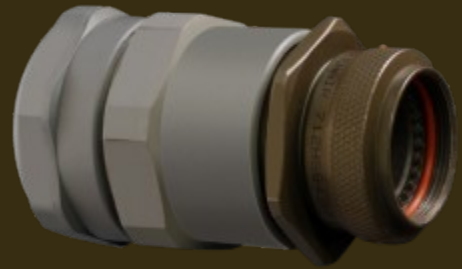
- *Lightweight*
- *Flexible*
- *Economical*
- *Low-Smoke, Zero Halogen PEEK material available*
- *Braid options for superior EMI protection*
- *Ideal for expandable systems or prototypes*
- *Harsh chemical environment resistant*
- *Used in landing gear and aerospace applications*



Glenair

Metal-Core Materials: Series 75

Crush Proof, Sealed, Optimal EMC



Crush-proof EMI protection

- Continuous solder seal for optimum EMI/EMP protection
- Superior crush resistance
- Used by the U.S. Navy in harsh-environment topside shipboard applications
- Metallic braid provides tensile (pull) strength
- Used in tanks, heavy machinery, airframes and submarines



MIL-PRF-24578A Navy Approved “BlueJacket” Conduit System

*Specialized Harsh Environment Conduit System
for US Navy Applications*



- Optimum EMC and crush protection
- Innovative fitting design provides superior sealing and ease-of-assembly
- Superior jacket materials resist damage and improve lifecycle maintenance



QPL AND COMMERCIAL

BACKSHELLS AND CONNECTOR ACCESSORIES FOR EVERY ENVIRONMENTAL, MECHANICAL, AND EMI REQUIREMENT



Glenair is one of the original military/aerospace manufacturers engaged in the design and production of high-performance backshells, dustcaps, shield termination devices and other connector accessories. In operation since 1956, Glenair has designed and produced more innovative connector accessory products than the rest of our industry combined. Glenair interconnect engineers are responsible for developing literally thousands of innovative connector accessories—from lightweight and corrosion-free composite thermoplastic strain reliefs to innovative fiber optic backshells. Today, the company is able to supply accessory solutions for every requirement, no matter how unique or challenging.

Circular Connector Backshells and Accessories



Rectangular Connector Backshells and Accessories



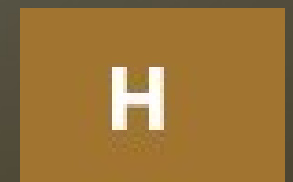
Composite Backshells and Accessories



EMI/RFI CostSaver Composite Junction Boxes



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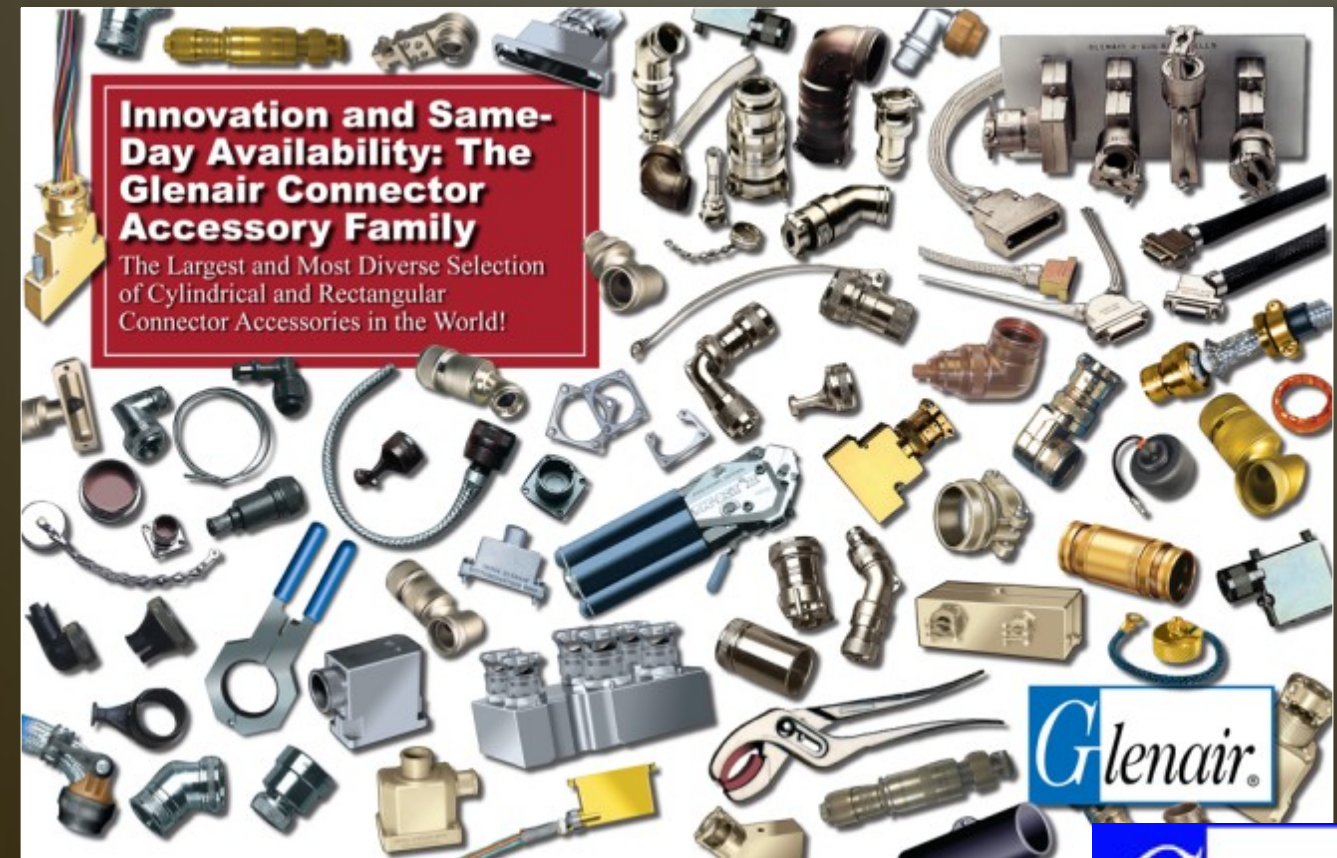


Backshells and Connector Accessories

The Largest and Most Diverse Selection of Cylindrical and Rectangular Connector Accessories in the World



- 90,000 part numbers ready for immediate same-day shipment
- No GAPS: Every MS and commercial type, size, material, and plating



Advances in Metal Backshells

StarShield 470-013 Series

- “Zero-Length” Wire Shield Termination
- Optimal grounding of EMI/EMP braided shielding.
- The unique Star-Shield configuration completely eliminates “standing antenna” problems common with pigtail shield termination systems.
- The backshell utilizes familiar heat shrink tube technology for fast and reliable termination of shielding—even with dissimilar wire types and gauges.



New!

CastleGrip 490-001 Series

- Straight, 45° and 90° Configurations
- Direct Replacement for Isodyne ISO 150 Series



Extremely Lightweight Composite Adapters

Fully Tooled Composite Series

- 440-143 with Qwik-Ty
- 440-144 without Qwik-Ty
- Straight, 45°, 90° Standard, 90° Low-Profile, 90° Split Low-Profile



Plating Capabilities

From military standard to RoHs compliance



Electroless Nickel

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +200°C
 Glenair Code **M**



Zinc-Nickel

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **ZR**



Black Zinc-Cobalt

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **UCR, F7**



Marine Bronze

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +200°C
 Glenair Code **AB**



Plated Composite

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +200°C
 Glenair Code **XM, XMT**



Unplated Composite

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **XB, XO**



Black Anodize

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **C**



Cadmium

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **NF, LF, JF**



Stainless Steel

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +200°C
 Glenair Code **Z1, ZL, ZW**



AlumiPlateSM

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **AL, XAL**



Nickel-PTFE

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +175°C
 Glenair Code **MT, XMT, ZMT**



Hardcoat Anodize

Cost \$ \$ \$ \$ \$
 Conductivity + + + + +
 Corrosion Resistance \$ \$ \$ \$ \$
 -65 to +200°C
 Glenair Code **G2**

Revolutionary Swing-Arm EMI/RFI Composite Strain Reliefs

The Lightweight, Composite Thermoplastic Cable Clamp with Adjustable Saddle-Bars and EMI/RFI Shield Socks

- Save assembly time and reduce SKUs with the versatile Swing-Arm
- Many versions available with and without shield socks



New!

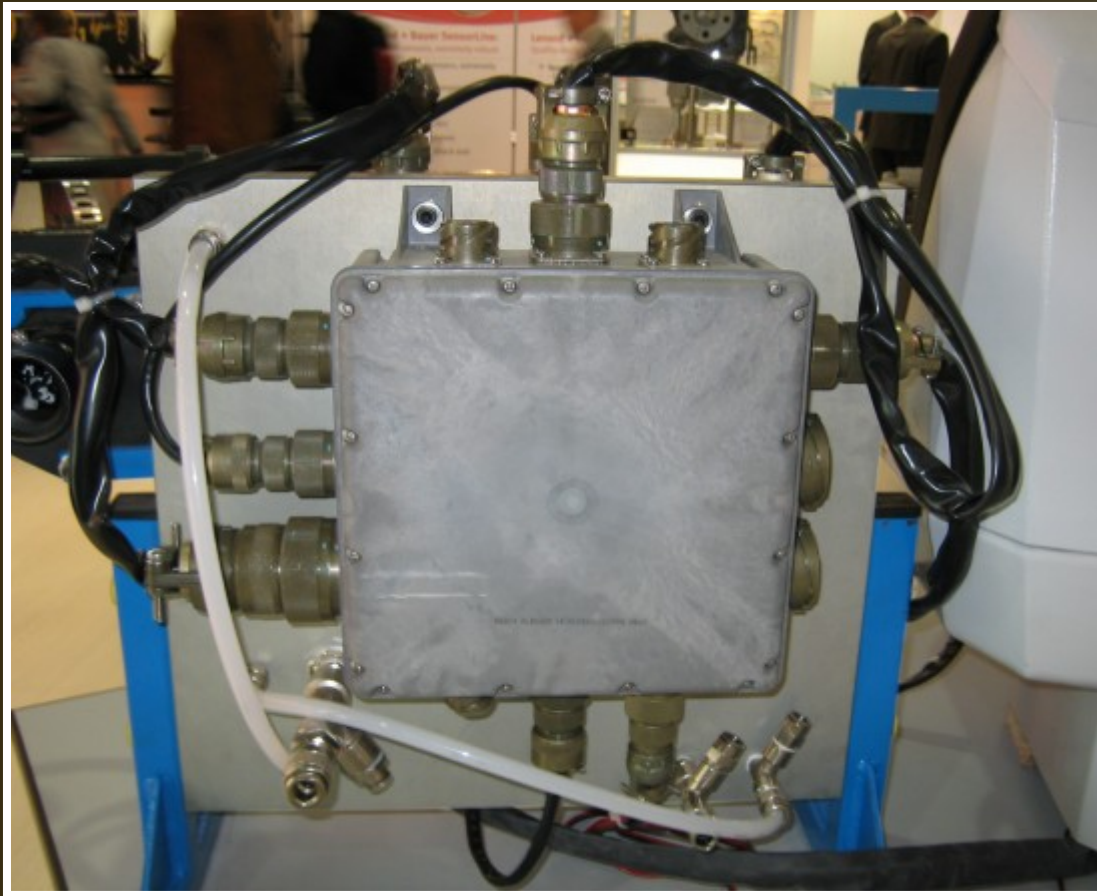
PiggyBack Boot Adapters

- Composite boot adapters with integrated boots
- For environmental and EMI/RFI applications
- Labor savings in assembly and better quality control
- Boot-on-a-Band-in-a-Can and Shield Sock versions



EMI/RFI Composite Junction Boxes

Elimination of Heavy, Corrosive Metal Boxes

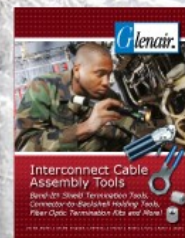


- Injection molded, internally plated and designed to replace existing metal boxes which are prone to galvanic corrosion due to incompatible interconnect component parts and mounting hardware.

HEAVY-DUTY

INTERCONNECT ASSEMBLY TOOLS

THE RIGHT TOOL FOR EVERY
INTERCONNECT ASSEMBLY REQUIREMENT



Glenair offers its connector and connector accessory customers every convenience in the provision of contact termination, shield termination, and backshell-to-connector assembly tooling. We are also proud to offer branded solutions from other well-known tool manufacturers such as Daniels (DMC) crimp tools. From pneumatic Earth-Bond tooling for the rail industry, to fiber optic termination and test equipment, Glenair is your most knowledgeable and reliable source for special-purpose interconnect assembly tooling.

Backshell-to-Connector
Assembly Tools



BandMaster™ ATS
EMI/RFI Shield
Termination System



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Prevent Damage and Insure Proper Assembly

With Backshell to Connector Assembly Tools and Kits



- Backshell Assembly Wrenches and Sockets
- Soft Jaw Pliers
- Strap Wrenches
- New Hex Pliers Design for Composites
- Torque Wrench



BandMaster™ ATS Shield Termination

Hand-held and Bench Mount Tooling for Reliable EMI Shield Termination



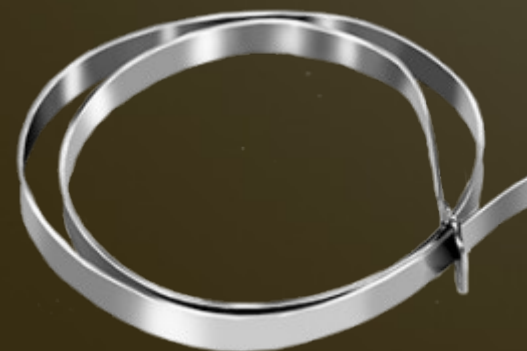
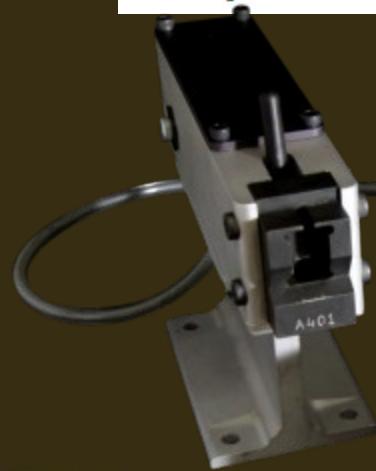
Step One: Cable Prep



Step Two: Install Band



Step Three: Trim Braid



MISSION CRITICAL

HIGH RELIABILITY CABLE ASSEMBLIES

**CUSTOMER BESPOKE CABLE HARNESSES AND
ASSEMBLIES FOR MIL/AERO APPLICATIONS**



Harsh
Environment
Overmolded
Multi-Branch
Assemblies

Inside-the-Box Fiber Optic/
Electric Pigtail Assemblies



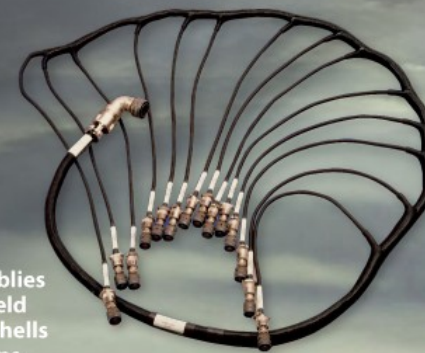
Harsh Environment Fiber Optic/
Electrical Assemblies



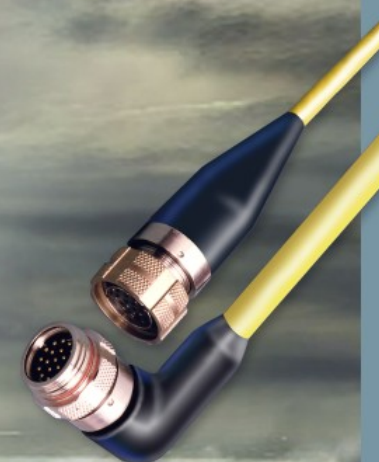
Multi-Branch Assemblies
with Protective Fabric
Braiding



Miniature Micro and
Nano Open Wire
Bundle Assemblies



Repairable Assemblies
with Glenair Shield
Termination Backshells
and Cable Clamps



Harsh
Environment
Overmolded
Cables



Complex
Interconnect
Assemblies with
Industry-Standard
Connectors and
Fittings



Wired, Terminated
and Tested Conduit
Assemblies

K

Glenair has been the go-to cable house for high-performance interconnect cable assemblies for more than 50 years. We specialize in delivering terminated, tested cable harnesses and assemblies with 100% reliability and quality control. We offer complete, turnkey cable assembly services from design engineering to fabrication and test, and are qualified to all military and commercial aerospace standards.



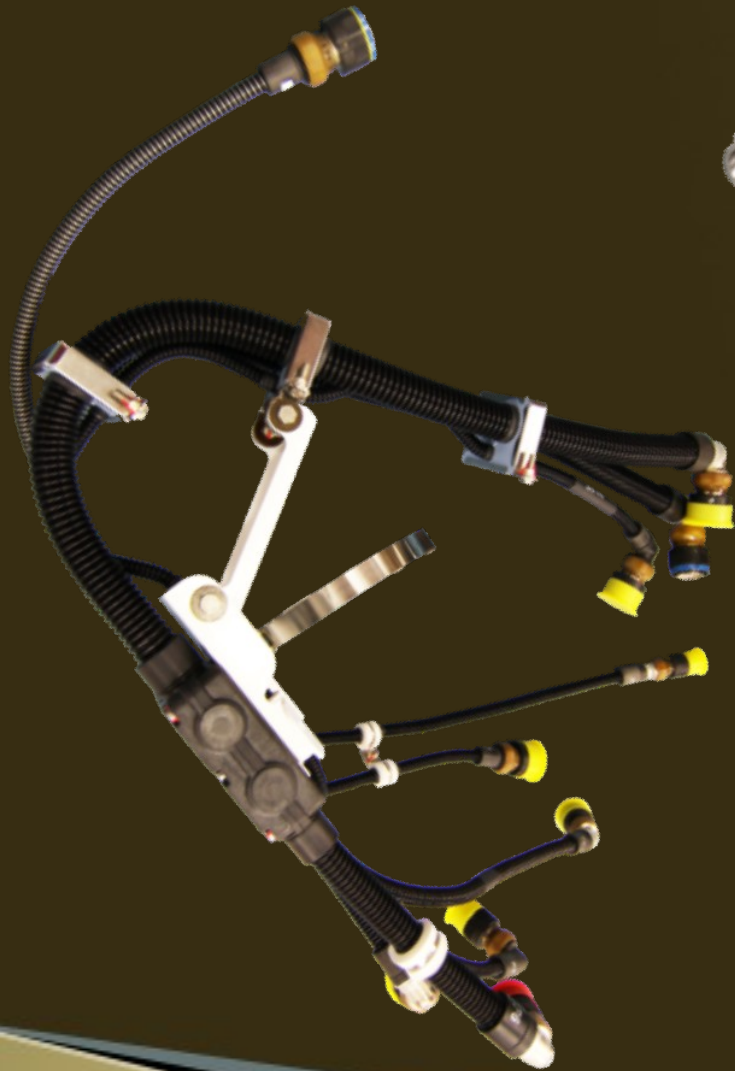
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Turnkey Cable Assemblies



Turnkey Conduit Assemblies



So What Exactly Does Glenair Bring to the Table?

One-of-a-Kind Service From a One-of-a-Kind Supplier

- Outstanding product availability: literally thousands of items in stock
- Liberal policies on NRE costs, samples, and RMA's
- The industry's best (and free!) engineering and technical support team
- No dollar or quantity minimums!
- Comprehensive product documentation and information access
- Ample, professionally-managed manufacturing capacity
- The size and scale to tackle every interconnect challenge



A World of

Interconnect
Solutions

