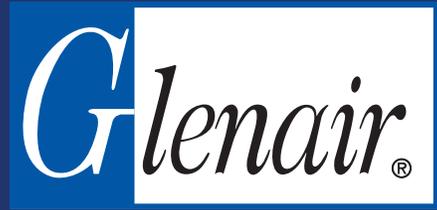




MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



Glenair
SIGNATURE SERIES

Military / Defense Interconnect Solutions

For Land, Sea, Air, and Space Applications

MARCH 2023

Military / Defense Interconnect Solutions

For Land, Sea, Air, and Space Applications

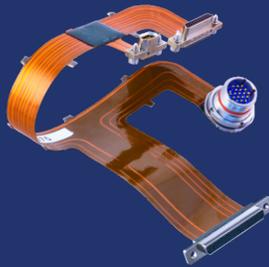


VITA 67.3 SMPM and SMPS RF connectors, contacts, and accessories

TURNKEY INTERCONNECT ASSEMBLIES FOR MILITARY DEFENSE APPLICATIONS



Complex Cable and Wire Protection Conduit Assemblies



Integrated Flex / Rigid Flex Circuit Assemblies

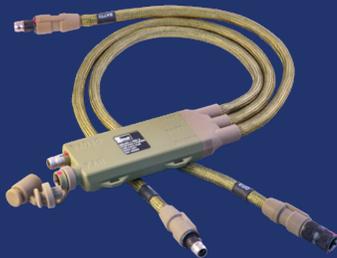


Aerospace-Grade Fiber Optic Interconnect Assemblies



Turnkey High-Frequency RF Coax Interconnect Assemblies

GROUND SOLDIER / TACTICAL CONNECTORS AND CABLES



Series 807 Mighty Mouse Nett Warrior Connectors and STAR-PAN™ Data Hubs



Nanominiature SuperFly® Tactical Interconnects



HiPer 55116™ “Better Than QPL” Field Audio Connectors



SealTac™ and Mighty Mouse Tactical Soldier Connectors

MILITARY VEHICLE CONNECTORS AND HARSH-ENVIRONMENT WIRE PROTECTION



SuperSeal™ Ruggedized Field RJ45 and USB Solutions



PowerTrip™ Connectors for Extreme Environments



TurboFlex® Ultra-Flexible Rugged Power Cable



Heat and AutoShrink Boots and Molded Shapes

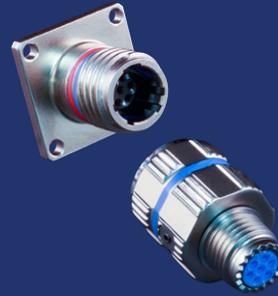
AEROSPACE AND MISSILE SYSTEM APPLICATIONS



El Ochito® and other Signature High-Speed Interconnects



SuperNine® "Better Than QPL" MIL-DTL-38999 Series III



Series 806 Mil-Aero with Optimized SWaP



SuperFly® Datalink Nano High-Speed



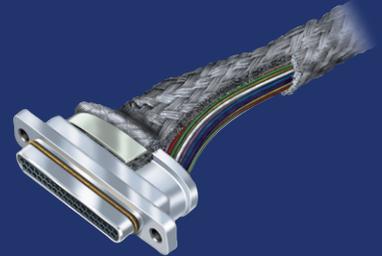
Series 28 HiPer-D® High-Performance M24308



Series 791™ / 792™ Crimp-Contact High-Density Rectangular



HD Stacker™ High-Density Board-to-Board



MIL-DTL-83513 Micro-D QPL and COTS Derivatives



MIL-DTL-32139 Nano QPL and COTS Rectangulars



High-Speed, High-Datarate Fiber Optics

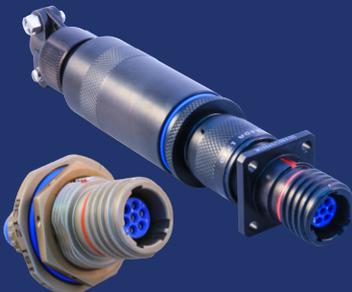


Special-Purpose Circulars: EMI/RFI Filters and Hermetics

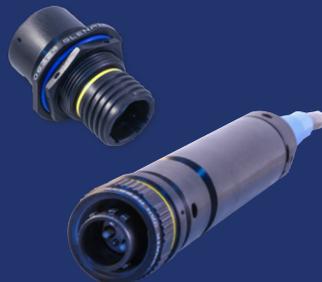


Glenair Signature Backshells and Accessories

NAVY / SHIPBOARD APPLICATIONS



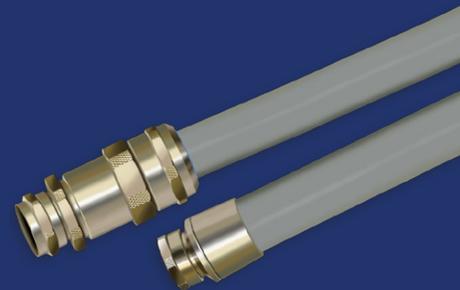
MIL-DTL-28840 QPL Navy Shipboard Interconnects



MIL-PRF-28876 QPL Navy Fiber Optic Interconnects



QPL and Glenair Signature Lightweight Ground Straps



MIL-PRF-24758A US Navy Qualified Conduit System

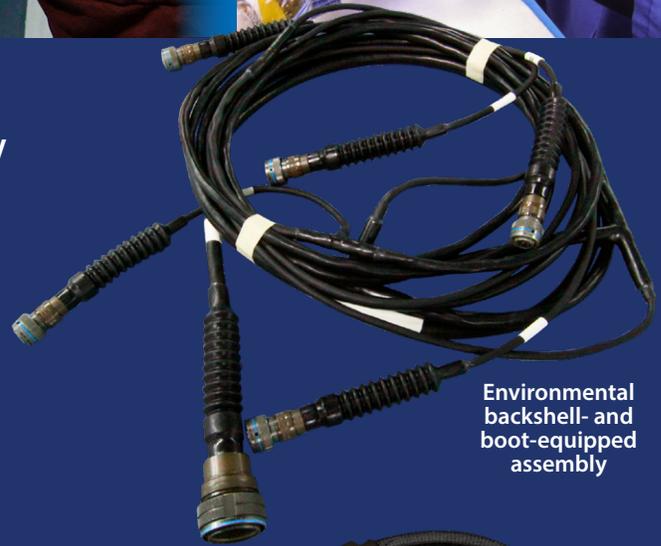
MILITARY DEFENSE
SYSTEMS
SIGNATURE
CABLE AND CONDUIT
ASSEMBLIES



Glenair Turnkey Cable and
Conduit Assemblies for Military
Defense Applications



Glenair's Complex Cable Group is laser-focused on producing turnkey assemblies built principally from Glenair Signature interconnect components including small form-factor connectors, lightweight EMI/RFI shielding, and Glenair Signature wire and cable.



Environmental backshell- and boot-equipped assembly

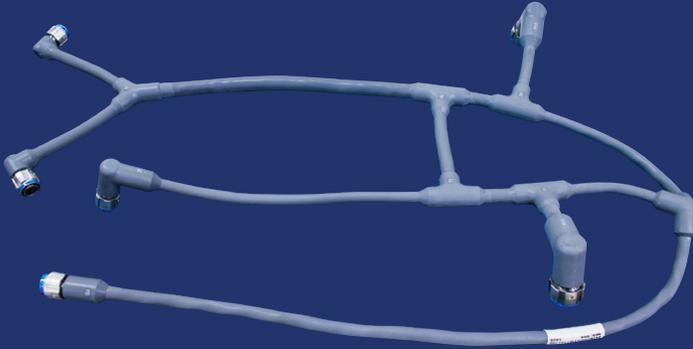


High flexural-modulus conduit wire protection assemblies and lightweight composite conduit fittings

MADE IN USA

Turnkey Military Defense Power and Signal Cable and Conduit Assemblies

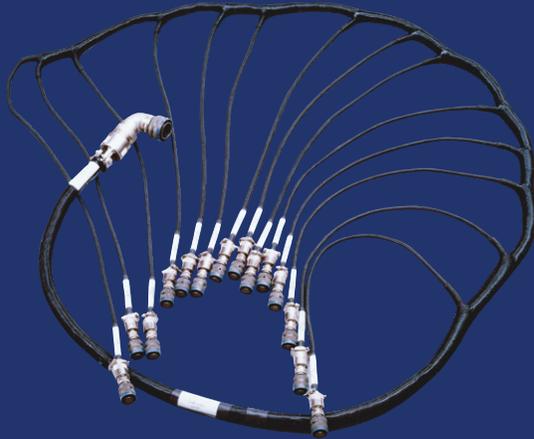
Built with Glenair Signature interconnect components



TurboFlex power distribution / sensor assembly with Duralectric™ overmolding and Mighty Mouse connectors



Non-environmental aircraft cable with integrated circuit breakout box and Mighty Mouse 807 Nett Warrior connectors



Complex multibranch assembly equipped with split-shell backshells for easy field repairability



Fabric overbraided assembly with discrete overmolded interconnect standoffs

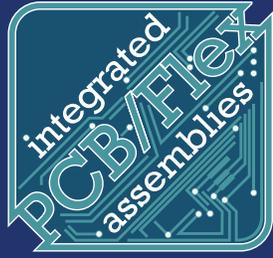


Lightweight microfilament ArmorLite™ EMI/RFI shielded assembly with TurboFlex cable



Complex multibranch overmolded cable assembly for a military fighter jet application

MILITARY DEFENSE
TURNKEY FLEX
CIRCUIT
INTERCONNECT
ASSEMBLIES

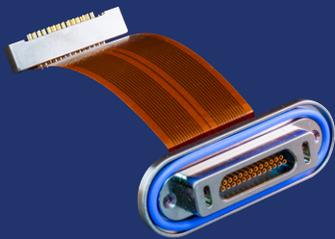


Flex, Rigid Flex, and Rigid PCB assemblies with signature interconnect technology for aircraft LRU applications

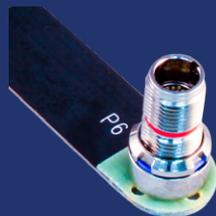


Turnkey connectorized flex, rigid flex, and rigid PCB assemblies incorporating Glenair's broad range of innovative small form-factor circular and rectangular PC-tail connector solutions for optimized ease-of-assembly and SWaP

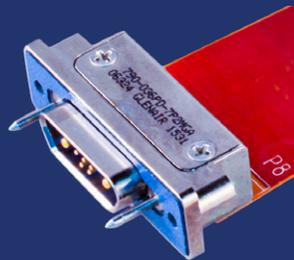
GLENAIR SIGNATURE PC-TAIL CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES



Series MWD Micro-D and spring-contact AlphaLink



Series 88 SuperFly



Series 79 Micro-Crimp



SuperNine MIL-DTL-38999 type flexi with board connector

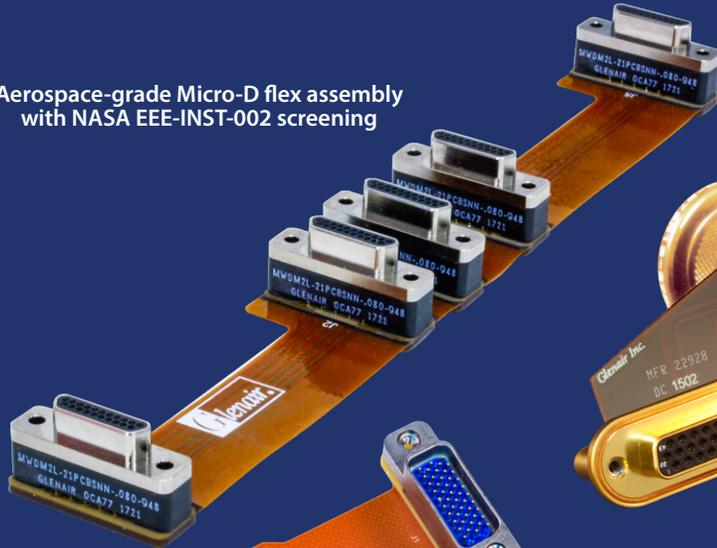
TURNKEY

Flex, Rigid Flex, and Rigid PCB Assemblies with Glenair Signature PC tail connectors for reliable, repeatable performance

for reliable, repeatable performance

MULTIBRANCH FLEX / PCB 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



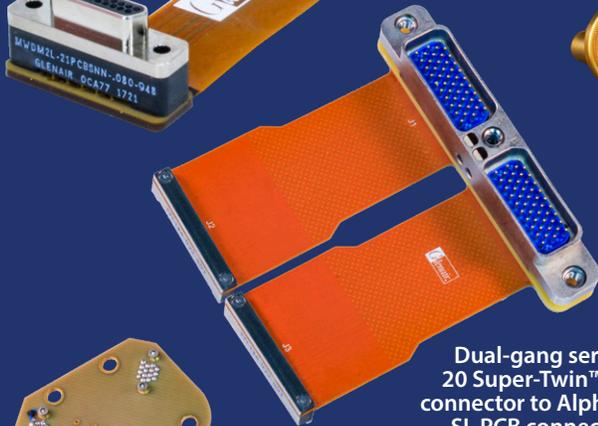
Aerospace-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper: a tight space-constrained rectangular-to-circular solution



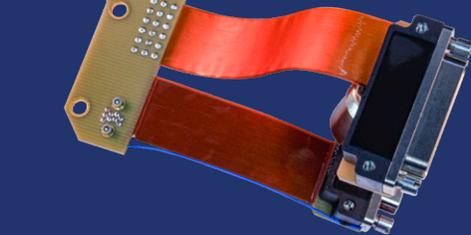
Hybrid flex/rigid flex multibranch Micro-D and Series 23 SuperNine flex assembly with discrete RF circuits



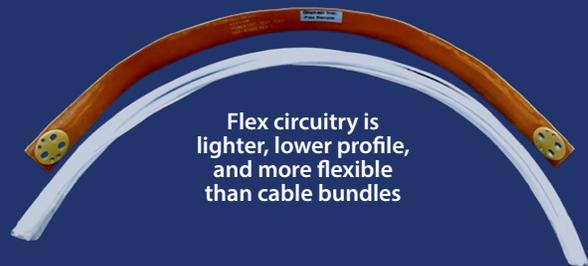
Dual-gang series 20 Super-Twin™ I/O connector to AlphaLink SL PCB connector



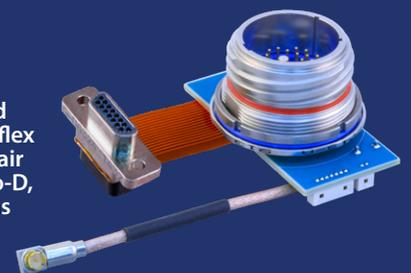
Stacked Micro-D I/O connectors with flex jumper to rigid PCB assembly



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



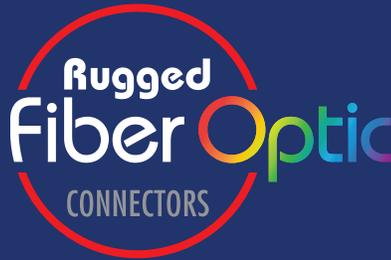
High vibration and shock resistant rigid flex assembly with Glenair Mighty Mouse, Micro-D, and RF connections



Special long-length HiPer-D assembly with clock-spring design element



MILITARY DEFENSE
FIBER OPTIC
INTERCONNECT
ASSEMBLIES



Fiber Optic Cables
and Harnesses:
turnkey environmental
and inside-the-box
assemblies

Glenair manufactures every popular mission-critical fiber optic interconnect system including MIL-DTL-38999 type, MIL-DTL-64266 NGCON, MIL-PRF-28876, ARINC 801, and more. Our fiber optic cable assembly team can integrate these ruggedized, military grade fiber optic technologies into turnkey cable and harness assemblies—terminated, tested, and ready for immediate use.



Hybrid environmental overmolded fiber optic / electrical cable assembly, MIL-DTL-38999 type with 29504/4 and /5 QPL termini



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



Harsh environment overmolded MIL-DTL-38999 Series III type assembly with composite connectors



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



TURNKEY
Fiber Optic Cables and Harnesses
for rugged mission-critical applications



Hybrid MIL-DTL-38999 series III type fiber optic / electrical cable junction box



Harsh environment repairable MIL-DTL-38999 Series III type with FiberCon backshell to prevent fiber media damage



Field-deployable hermaphroditic GFOCA fiber optic cable assembly



Fiber optic multibranch assembly with flexible conduit wire protection and integrated cable storage bay



Point-to-point fiber optic cable with integrated strain relief



High-speed video fiber optic switch and cable junction box assembly



Turnkey Optical Flex circuit assembly with rugged MT ferrule terminations

MILITARY DEFENSE
HIGH-FREQUENCY
RF INTERCONNECT
ASSEMBLIES



Flight-Grade RF, Microwave,
and mmWave Connector
Assemblies and Discrete
RF Contacts and Connectors



RF I/O-to-board cable
assemblies with
Glenair Signature
connectors, contacts,
and cables



VITA 67.3 RF ASSEMBLIES



Fully-customizable
SMPM and SMPS
connectors,
contacts, and
accessories

GLENAIR SIGNATURE MULTI-PIN CONNECTORS FOR RF / MICROWAVE APPLICATIONS



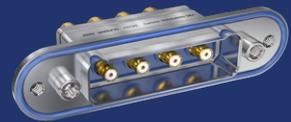
Series 23 SuperNine
"better-than-QPL"
MIL-DTL-38999 Series III
type connector



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



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



Series 795 RF
precision-machined
aerospace-grade
coax connector

FLIGHT-GRADE

RF and Microwave Turnkey Cable Assemblies with Glenair Signature Connectors, Contacts, and Cables

for mission-critical RF applications

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



Size #16 coaxial contacts



Size #12 coaxial contacts



Size #8 coaxial and concentric twinax contacts



26.5 GHz G-Link RF contacts with integral female SMA adapter for easy cable attachment

BLUMARK RF COAX CABLES 50 OHM LOW-LOSS COAX CABLES



Size 047
26.5 GHz
hand-formable
tin-soaked braid



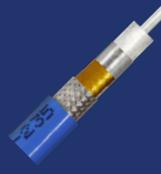
Size 086
40 GHz
FEP or
ETFE jacket



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



Size 200
26.5 GHz
FEP or
ETFE jacket
triple shield



Size 235
18 GHz,
FEP or
ETFE jacket
triple shield



Size 300
18 GHz,
FEP jacket
triple shield



Size 450
10 GHz,
FEP jacket
triple shield

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



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



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



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



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

RF CONNECTOR ADAPTERS AND PROTECTIVE COVERS, PRECISION-GRADE



TNC-SMA
adapters



N-SMA
adapters



SMA-SMA
adapters



SMP-SMA
adapters



2.92-SMA
adapters

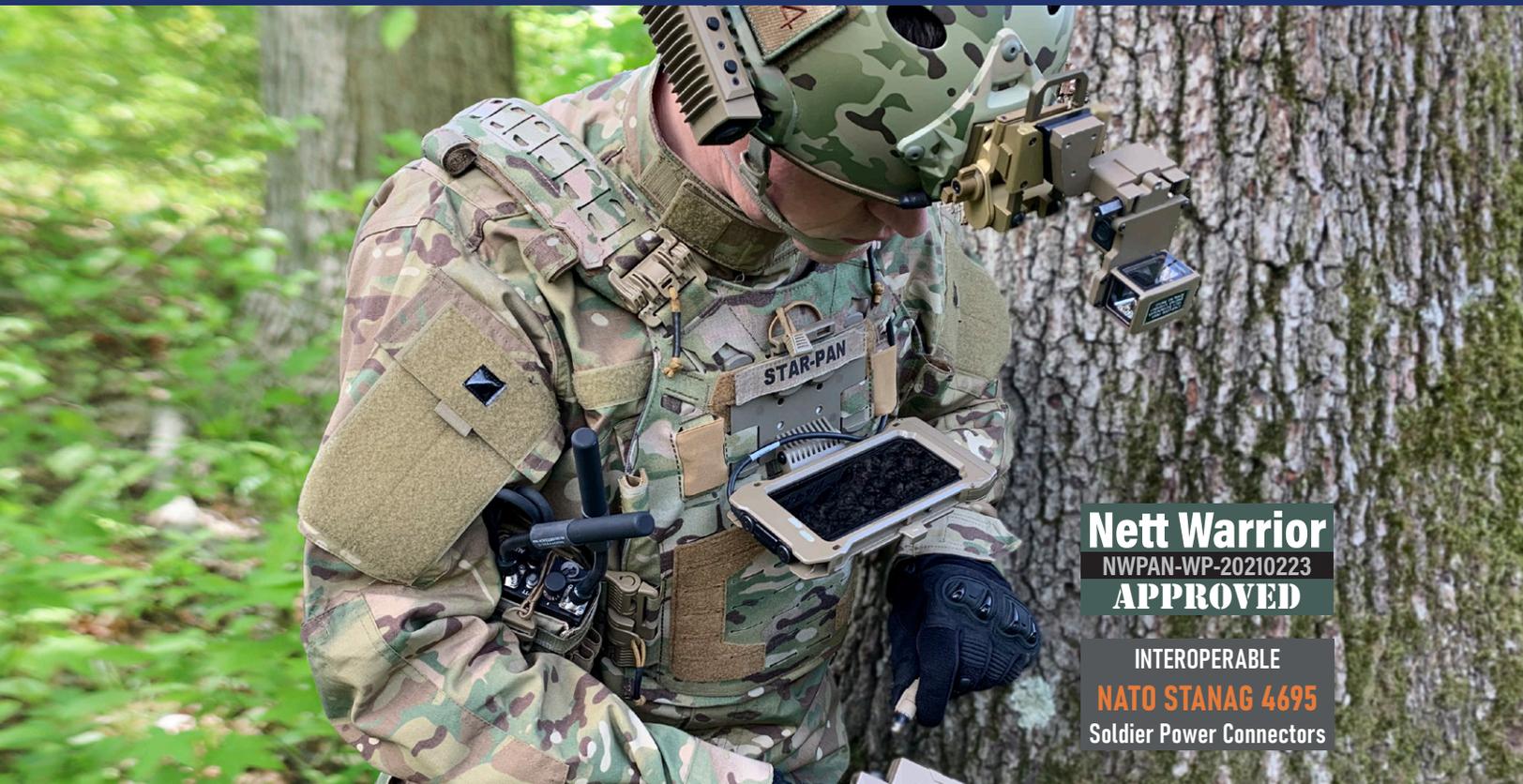


Protective covers
for RF connectors

GROUND SOLDIER INTERCONNECT TECHNOLOGY



Series 807 Mighty Mouse NW micro miniature connectors for dismounted soldier battery charging, radio, and PAN applications, NSN stock-listed.



Nett Warrior
NWPAN-WP-20210223
APPROVED

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

PUSH-PULL QDC Nett Warrior Qualified Power and Data Connectors

Today's warfighters demand quick battery charging and reliable radio operation. Glenair pioneered the original 6-pin Nett Warrior connector, as well as a second-generation 7-pin series with USB-C power integration and delivery. Now Glenair is introducing a signature 10 Amp Crown Ring contact-equipped version for higher-current applications that easily integrates into US / NATO, Nett Warrior, and STAR-PAN hub and cable systems.

Glenair STAR-PAN NG hubs and cables—now equipped with 10 Amp Crown Ring contact receptacles—are smart devices capable of managing next-generation high-power equipment as well as lower-power legacy devices.



SERIES 807 MIGHTY MOUSE NW CONNECTOR LINE

All designs backward-compatible with current and legacy Nett Warrior hardware

- Original 6-pin Nett Warrior plugs and receptacles
- Backward-compatible 7-pin series with USB-C power integration and delivery
- New 10 Amp receptacles for higher-current soldier battery, radio, and PAN C4ISR equipment
- Glenair Signature Mighty Mouse 807 NW connectors are available in pigtail and point-to-point cables for all US/NATO soldier C4ISR devices

US ARMY AND NATO QUALIFIED

Nett Warrior Connectors



For STAR-PAN hub systems, Nett Warrior C4ISR hardware, next-gen and legacy radios and batteries



QUALIFIED FOR USE WITH ALL STAR-PAN AND STAR-PAN NG POWER / DATA HUBS



MATERIALS / FINISH

- Shell: Al alloy / ZNU plated
- Contacts: Cu alloy / Au plated
- Insulators: Rigid dielectric
- O-rings: Fluorosilicone

Series 807 NW Nett Warrior Connector Insert Arrangements

Original NSN-Listed 6-Pin (Nett Warrior Program / NATO STANAG 4695 Approved)

Backward-Compatible 7-Pin USB-C Power Series

10-Amp STAR-PAN NG Series 6-6 and 6-7 Arrangements

SERIES 807 MIGHTY MOUSE NW CONNECTOR LINE: HOW-TO-ORDER



Series 807 NW Plugs (6 pin)	Crimp	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8070-1676-06ZNU6-6PY NSN 5935-01-659-5575	X			X		
807-871-06ZNU6-6PY	X			X		
807-309-06ZNU6-6PY			X	X		
8070-1153-07ZNU6-6EC			X		X	
8070-1153-07ZNU6-6PC		X			X	
8070-1153-00ZNU6-6EC			X			X
8070-1153-00ZNU6-6PC		X				X
Series 807 NW Receptacles (6 socket)	Crimp	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8070-1675-01ZNU6-6SY NSN 5935-01-659-4090	X			X		
8070-1675-07ZNU6-6SY	X				X	
8070-1675-00ZNU6-6SY	X					X
807-874-01ZNU6-6SY	X			X		
807-874-00ZNU6-6SY	X					X
807-874-07ZNU6-6SY	X				X	
807-348-01ZNU6-6SY			X	X		
807-216-07ZNU6-6SY			X		X	
807-216-01ZNU6-6SY			X	X		
807-216-00ZNU6-6SY			X			X
807-216-07ZNU6-6DY		X			X	
807-216-01ZNU6-6DY		X		X		
807-216-00ZNU6-6DY		X				X
Series 807 NW Plugs (7 pin)	Crimp	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8070-1676-06ZNU6-7PY	X			X		
807-871-06ZNU6-7PY	X			X		
Series 807 NW Receptacles (7 socket)	Crimp	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8070-1675-01ZNU6-7SY	X			X		
8070-1675-07ZNU6-7SY	X				X	
8070-1675-00ZNU6-7SY	X					X
807-874-01ZNU6-7SY	X			X		
807-874-00ZNU6-7SY	X					X
807-874-07ZNU6-7SY	X				X	
8070-1299-ZNU6-7DY		X				X
Series 807 NW Receptacles (10 Amp)	Pigtail Assembly	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8071-6924	X			X		
8070-3151-07ZNU6-6SY		X			X	

GROUND
SOLDIER
INTERCONNECT
TECHNOLOGY



Multiport USB hubs,
cables, and peripheral
device manager for
soldier-worn power / data
network applications



JTAC-TOUGH™

STAR-PAN™

Powering soldier connectivity
and C4ISR mission success

The Glenair STAR-PAN™ data hub and power distribution system enables soldiers—particularly in Joint Terminal Attack Controller (JTAC) roles—to make the most of C4ISR devices, improving situational awareness, surveillance, intelligence and reconnaissance while optimizing power monitoring, conditioning, and distribution performance. Importantly, all STAR-PAN™ technologies—from the high-density, NATO standard Mighty Mouse quick-disconnect connectors and cables to the low-profile hub enclosure itself—are designed for optimal size, weight, power, and ruggedized mil-spec performance with battle-tested environmental and EMC sealing and shielding.



STAR-PAN™
Mission Manager
Plug-and-play EUD /
USB peripheral data
exchange device



- Versatile 2, 4, and 6-port high-speed hub configurations
- Compatible with USB 1.1, USB 2.0, and SMBus
- Embedded power charging/conditioning electronics in all designs
- Smart power monitoring for longer mission life
- Robust circuit protection
- Sealed IAW the MIL-STD-810 harsh-environment standard
- New MISSION MANAGER for on-the-fly device integration to soldier C4ISR networks

Glenair's Tactical Interconnect Solutions team is backed by six decades of proven, made-in-America interconnect industry performance in service of US and NATO armed forces.

JTAC-TOUGH™

STAR-PAN™ Scalable Soldier Networks

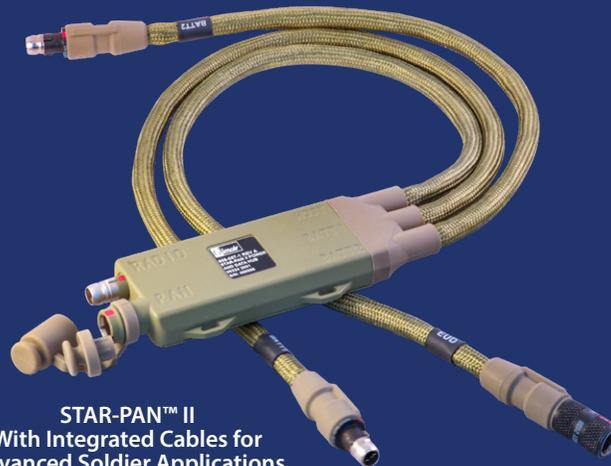


Powering soldier connectivity and C4ISR mission success

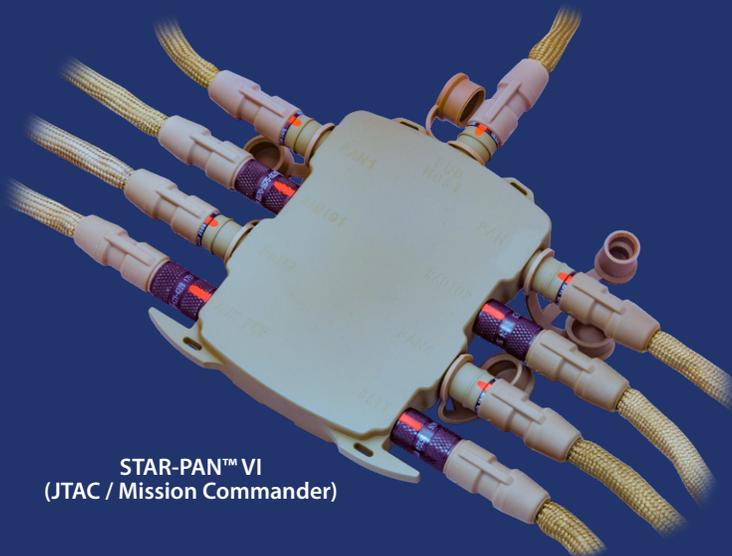
STAR-PAN™ SCALABLE SOLDIER NETWORKING HUBS AND DEVICE MANAGERS



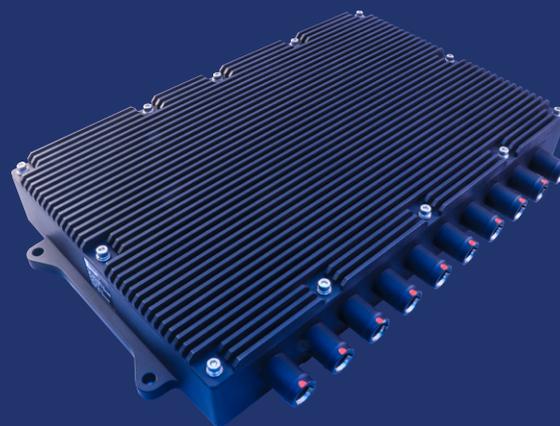
STAR-PAN™ Light
(Standard Soldier)



STAR-PAN™ II
With Integrated Cables for
Advanced Soldier Applications



STAR-PAN™ VI
(JTAC / Mission Commander)



STAR-PAN™ X BASE STATION
10-Port Power / Data Hub for Vehicle,
Helicopter, or Vessel Mounting

OPEN-SYSTEM NETWORK SUPPORT FOR THE COMPLETE RANGE OF C4ISR DEVICES



Radios



Batteries



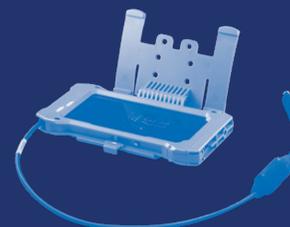
Targeting



Video



GPS



Host / EUD

GROUND
SOLDIER
INTERCONNECT
TECHNOLOGY



The ultimate
nano miniature
tactical connector



Mighty Mouse not small enough?
Meet the toughest, smallest, and
highest-speed connector we've
got—ideal for soldier-wearable
C4ISR equipment

- Push-pull version with high / low force release option
- Threaded version for secure mating
- Hybrid contact system
- First mate / last break power contacts
- Layouts and contact spacing optimized for high-speed

PRINTED CIRCUIT BOARD PLUG AND RECEPTACLES

Quick-Disconnect				Threaded			
Right Angle, Rear Panel Mount	Right Angle, Rear Panel Mount, PCB Mounting Holes	Vertical, Rear Panel Mount	Vertical, Rear Panel Mount, PCB Mounting Holes	Vertical, Rear Panel Mount, Ground Pins	Vertical Plug, Rear Panel Mount	Vertical, Rear Panel Mount	Right Angle, Rear Panel Mount

SERIES 88

SuperFly® Nano miniature Soldier System Connectors and Cordsets



Tactical nano miniature connectors and cables

NANO MINIATURE SUPERFLY® CORDSETS AND PIGTAILS



Overmolded threaded plug and receptacle



Threaded pigtail plug and receptacle



Quick-disconnect overmolded cordset



Quick-disconnect pigtail plug and jam nut receptacle

- IP67 immersion rated
- High-reliability contacts: 5 Amp, 3 Amp, and 1 Amp
- High shock and vibration
- Robust EMI shielding
- Designed for high speed data applications
- Pre-wired, epoxy-sealed cordsets
- Straight and 90° PC tail receptacles
- 27 Contact arrangements
- Front or rear panel mounting
- Aluminum or stainless steel
- Accepts #22 to #32 AWG wire

CONTACT ARRANGEMENTS

Series 88 SuperFly connectors are available in 27 contact arrangements with 1 Amp, 3 Amp, 5 Amp contacts, and mixed-contact hybrid arrangements

1 Amp						
B7N (7) 1A	C10N (10) 1A	E19N (19) 1A	F22N (22) 1A	G31N (31) 1A	H37N (37) 1A	J44N (44) 1A

3 Amp					
D3M (3) 3A	E4M (4) 3A	F7M (7) 3A	G10M (10) 3A	K19M (19) 3A	L22M (22) 3A

Combo 1 Amp & 5 Amp			
D2W2N (2) 1A, (2) 5A	F4W4N (4) 1A, (4) 5A	H6W14N (14) 1A, (6) 5A	J7W19N (19) 1A, (7) 5A

5 Amp Contacts			
E3W (3) 5A	F4W (4) 5A	G7W (7) 5A	H10W (10) 5A

Combo 1 Amp & 3 Amp					
C2M2N (2) 1A, (2) 3A	E4M4N (4) 1A, (4) 3A	F4M8N (8) 1A, (4) 3A	G6M10N (10) 1A, (6) 3A	G6M12N (12) 1A, (6) 3A	K13M19N (19) 1A, (13) 3A

GROUND
SOLDIER
INTERCONNECT
TECHNOLOGY

HiPer 55116

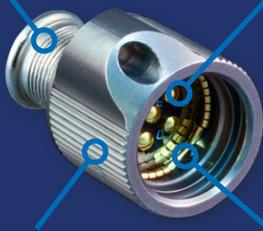
QPL and high-performance MCOTS 55116
Audio / Radio Connector Technology



Series 152 HiPer 55116 connectors offer significant performance advantages for modern soldier communication systems

Integrated banding porch/shrink boot groove

<10 mΩ contact resistance



1000 hour+ salt spray corrosion-resistant

Integrated EMI Ground Spring

Fully intermateable and interoperable with MIL-DTL-55116 connectors

- Intermateable and interoperable with standard MIL-DTL-55116 connectors
- Low contact resistance: Less than 10 milliohms
- Integrated EMI ground spring provides improved 2.5 milliohm shell-to-shell conductivity performance
- IP68 rated sealing in mated and unmated condition, prevents water ingress into radio equipment
- 1,000 hour+ salt spray corrosion resistance
- Integrated cable shield termination band porch
- Superior 100 pound cable pull test rating

GLENAIR DLA QUALIFIED SERIES 151 STANDARD MIL-DTL-55116 AUDIO CONNECTORS



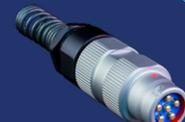
151-001 MIL-DTL-55116 QPL audio plug with wire strain relief



151-002 MIL-DTL-55116 QPL audio plug/overmold adapter



151-003 MIL-DTL-55116 QPL radio-mount jam nut receptacle



151-004 MIL-DTL-55116 QPL in-line receptacle, strain relief



SERIES 152 INTERMATEABLE

HiPer 55116

Radio Connectors and Cables

Superior environmental, EMC, and durability performance



SERIES 152 HIPER 55116 CONNECTOR SELECTION GUIDE



Audio plug, field serviceable, with wire strain relief and rigid contacts, crimp and solder cup



Overmolded audio plug cordset with wire strain relief



Audio plug with shield termination porch, overmolding adapter and rigid contacts, crimp and solder cup



Overmolded audio plug cordset



In-line receptacle with shield termination porch, overmolding adapter, and non-rigid spring contacts, crimp and solder cup



Overmolded in-line audio receptacle cordset



Radio-mount jam nut audio receptacle with non-rigid spring contacts or PC tails and optional ground pins

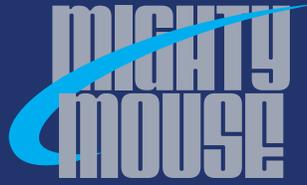


Filtered radio-mount jam nut audio receptacle with non-rigid spring contacts, solder cup or PC tails



Special adapter configurations and protective covers

GROUND SOLDIER INTERCONNECT TECHNOLOGY



Mighty Mouse SealTac™ Push-Pull Connectors and Cable Jumpers



The Mighty Mouse Series 86 SealTac is a durable, environmentally-sealed push-pull connector with outstanding user ergonomics. Receptacle target-contact designs are fully sealed, easy to maintain and clean, and immersible to 30 PSI / IP68 in the unmated condition. Spring pin contacts (plug side) are rated to 2 Amps and can withstand virtually unlimited mating cycles.

- High-durability unlimited life-cycle performance
- 30 PSI open-face / IP68-level sealing (box side)
- Ergonomic keyed push-pull mating
- High-density micro miniature form factor
- Maintenance-free spring contact inserts
- Integrated EMI/RFI ground spring and shield termination band porch
- High vibration and shock resistant
- Full qualification testing complete and available

Shell Size / Contact Arrangements		
06-7 shell size 6, 7 contacts	07-10 shell size 7, 10 contacts	08-19 shell size 8, 19 contacts

Spring-pin equipped Mighty Mouse harsh-environmental

SERIES 86 SEALTAC APPLICATIONS



C4ISR soldier devices



Rugged computers and hand-helds



Power and data hubs



Tactical Communications Gear



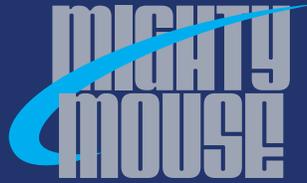
Helmet quick-disconnects

CONNECTOR SELECTION GUIDE

<p>IN-LINE RECEPTACLES</p>		<p>860-051-01 Series 86 spring contact push-pull in-line receptacle for cable applications</p>
<p>IN-LINE PLUG</p>		<p>860-050-06 Series 86 target contact push-pull in-line cable plug</p>
<p>JAM-NUT PLUG</p>		<p>860-050-07 Series 86 target contact push-pull jam-nut mount plug</p>
<p>CABLE JUMPER Receptacle-to-receptacle</p>		<p>861-001 Series 86 spring contact push-pull receptacle-to-receptacle overmolded cable jumper</p>
<p>CABLE JUMPER Plug-to-plug</p>		<p>861-002 Series 86 target contact push-pull plug-to-plug overmolded cable jumper</p>
<p>CABLE JUMPER High-speed HDMI</p>		<p>861-003 Series 86 target contact push-pull plug or spring contact push-pull receptacle-to-HDMI overmolded cable jumper</p>
<p>CABLE JUMPER High-speed USB 3.0</p>		<p>861-004 Series 86 target contact push-pull plug or spring contact push-pull receptacle-to-USB 3.0 overmolded cable jumper</p>

Series 86 SealTac™ Performance Summary		
	Performance	Specification
DWV	500 Vac	EIA 364-20
IR	5 GΩ, 200 Vdc	EIA 364-21
Temperature Range	-55°C / +125°C	
Contact Ω	40 mΩ	EIA-364-23 (26 AWG wire included)
Durability	2500 cycles min	EIA-364-09
Mating Force	8 lbs (size 06) 12 lbs (size 08)	EIA-364-13
Random Vibration		MIL-STD-810H, method 514.8, Annex E, figure 514.8E-1. One hour each axis, longitudinal and perpendicular axes
Shock		Mil-Std-810, method 516, Procedure I (40 G's, 11ms). 3 shocks X 3 axes X 2 directions = 18 shocks
Water Immersion	30 psi, 30 minutes, 100 MΩ min	EIA 364-21, mated and unmated (open face)

GROUND
SOLDIER
INTERCONNECT
TECHNOLOGY



Mighty Mouse micro
miniature connector series
for optimized SWaP

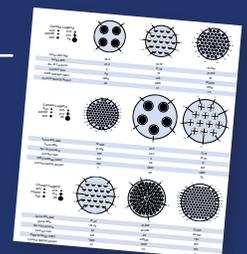


Mighty Mouse vs. 38999: less than half the size and weight.

Mighty Mouse Connectors: Reducing the Size and Weight of Tactical Interconnect Systems for Over 25 Years

- 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



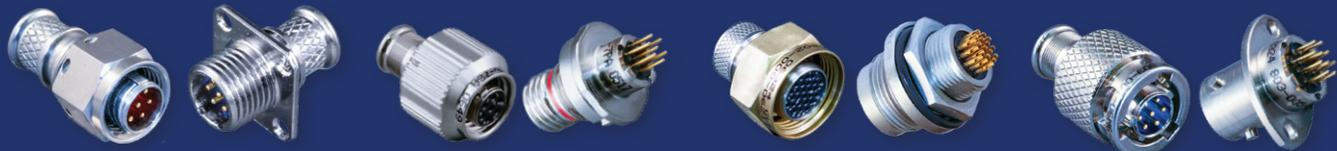
67 arrangements,
from 1–130 contacts

SERIES 80 MICRO MINIATURE Mighty Mouse Connectors and Cables

Awesome performance, itty-bitty package



CHOOSE FROM 8 DIFFERENT COUPLING DESIGNS



Series 800
UN thread

Series 801
double-start ACME thread

Series 802
AquaMouse UNEF thread

Series 803
bayonet coupling



Series 804
quick-disconnect

Series 824
locking quick-disconnect

Series 805
triple-start thread, size #23
contact layouts

Series 806
modified triple-start, size #22HD
and #20HD layouts

AVAILABLE MIGHTY MOUSE CONNECTOR CLASSES



IP67
environmental

Glass-to-metal seal
hermetic

CODE RED
Lightweight hermetic

EMI/RFI
Filter

EMP Transient Voltage
Suppression



Bulkhead feed-thrus and
penetrators

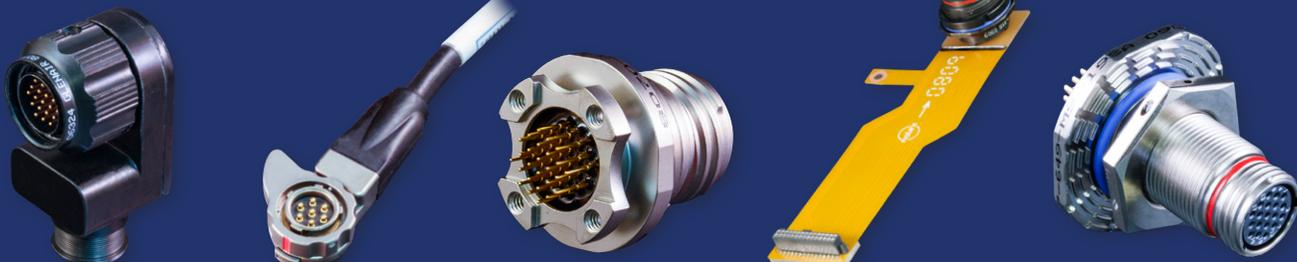
Sav-Con[®]
connector savers

High-frequency
RF / Microwave

High-speed
Ethernet

Single- and multimode
fiber optic

AVAILABLE COTS SPECIAL-PURPOSE DESIGNS AND PACKAGING



Low-profile COBRA

Mouse Bud

Double-standoff PC tail

COTS flex jumpers

Special feed-thrus

MILITARY VEHICLE INTERCONNECT TECHNOLOGY



SuperSeal RJ45 and USB field connectors. Now available for USB SuperSpeed 3.0



Military-grade, ruggedized field connectors that deliver improved environmental sealing, EMI/RFI grounding, and a broader range of wire termination options for RJ45 and USB—now for SuperSpeed 3.0



- New SuperSpeed USB 3.0 protocol support
- Superior sealing—IP67 unmated—for complete system protection against water, sand and dust
- Highly durable SuperSeal™ insert design, provides enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, PC tail and cable assemblies

Available ruggedized memory stick
32GB, 64GB, and 128GB versions

SuperSpeed USB 3.0 Ruggedized connectors and cables



MIL-DTL-38999 Series III USB / RJ45 field connectors

NEW SUPERSPEED USB 3.0 RUGGEDIZED FIELD CONNECTORS



Cable plug

Wall mount
receptacle with
metric clinch nuts

Wall mount
receptacle with
slotted holes

Wall mount
receptacle with
round holes

Jam nut mount
Receptacle

TURNKEY SUPERSPEED USB 3.0 CABLE ASSEMBLIES AND JUMPERS



Glenair SuperNine USB 3.0 cable jumpers, SuperSeal to standard USB Type A and Micro-B connectors

SuperSeal USB 3.0 connectors are available as turnkey cable jumpers. Rugged field connector styles—including plug, wall mount and jam-nut receptacles—may be cabled with commercial 3.0 connector types including male Type A, female Type A, and male Micro B. Assemblies may be ordered with straight or right angle cable exit. In addition, the USB 3.0 insert may be ordered in horizontal or vertical orientation to provide protection against mis-mating. Maximum overall length is 15 feet.



SUPPORTED USB 3.0 CONNECTOR TYPES



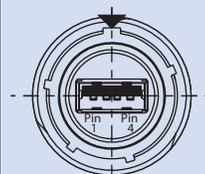
USB 3.0 male
Type A

USB 3.0 female
Type A

USB 3.0 male
Micro B

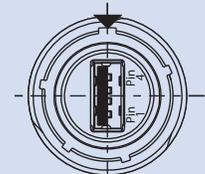


USB ORIENTATION OPTIONS



Horizontal

▼ = Master Keyway



Vertical

MILITARY VEHICLE INTERCONNECT TECHNOLOGY



**POWER
TRIP™**

Series 970 PowerTrip™
reduced size and weight
power connectors for extreme
environments



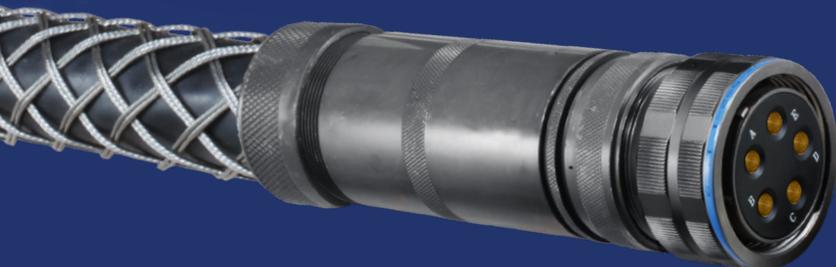
Reduced size and weight power connectors



Lightweight plug with ratcheting coupling nut and LouverBand contacts



Keyed receptacle with superior sealing and EMI shielding



- Fast, easy mating with triple-start ACME thread: 360° turn for full mating
- Reduced size and weight compared to 5015/VG95234 solutions
- LouverBand sockets for improved current ratings and longer life, up to 2000 mating cycles
- Splined backshell interface for improved backshell attachment and EMI shielding
- Ratcheting coupling nut for secure mating
- Operating temperature -65° C to +200° C
- Hermetic and filter options available

The Series 970 PowerTrip™ offers improved performance compared to standard 5015 type power connectors: higher density and lighter weight packaging, rapid mating and demating triple-start threaded coupling, and extremely rugged splined and threaded backshell attachment interface

SERIES 970 PowerTrip™ Connectors and Cables



The power connector for extreme environments

SERIES 970 POWERTRIP™ CONNECTOR STYLES



Plug
970-001



Square Flange
Receptacles
970-003



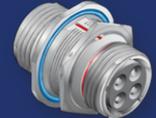
Jam Nut Receptacles
970-004



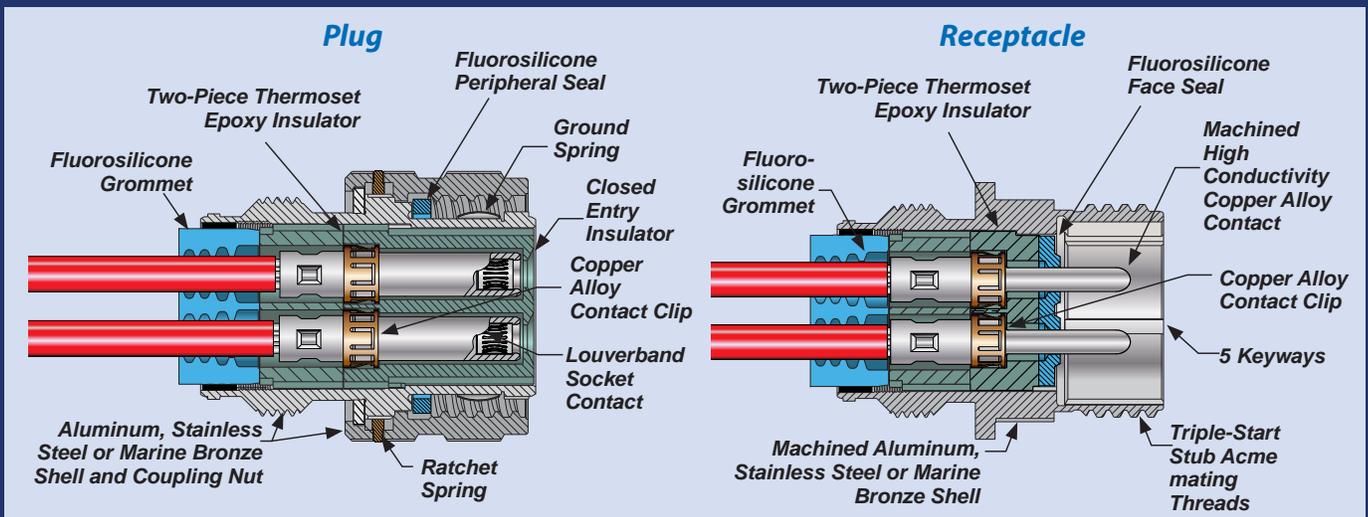
Cable Receptacles
970-005



Feed-Thru Bulkhead
970-006

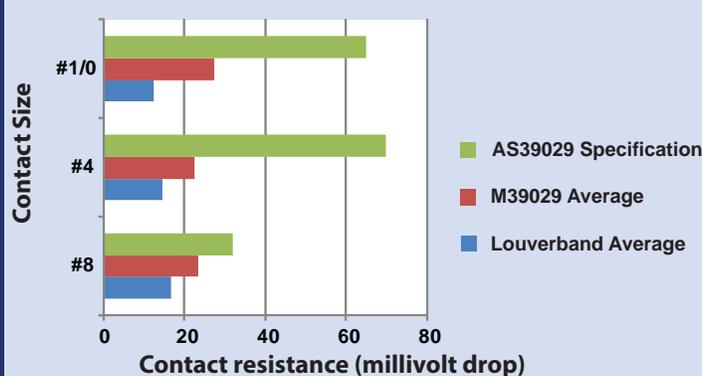


Hermetic Feed-Thru
Bulkhead
970-007



Series 970 PowerTrip™ Specifications	
Current Rating	Up to 225 A.
Dielectric Withstanding Voltage	2000 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +200° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness	65 dB minimum from 1GHz to 10GHz.
Durability	2000 mating cycles

CONTACT RESISTANCE AFTER 1000 MATING CYCLES



ABOUT THE POWERTRIP CONTACT SYSTEM

Series 970 contacts are precision-machined using high conductivity copper alloy. A stamped and formed spring ("LouverBand") is installed into the socket contact. The spring is made from 6 mil copper alloy. Testing has demonstrated that this contact system outperforms conventional aerospace-grade contact systems. The LouverBand spring provides many points of electrical contact with the mating pin, as opposed to a few "high spots" on a conventional four-finger contact as shown in the figure below. The size #8 PowerTrip socket contact has a total of 18 louvers. The #4 has 27 louvers, and the #1/0 has 42 louvers. The LouverBand design offers lower voltage drop for reduced joule heating. In addition to its electrical advantages, the LouverBand also is mechanically superior to four-finger contacts. The LouverBand spring has consistent, stable normal force, even when subjected to thousands of mating cycles and temperature extremes.



Conventional contact on the left, LouverBand contact on the right

LouverBand socket contact cutaway

MILITARY
VEHICLE
INTERCONNECT
TECHNOLOGY

turboflex
THE ULTRA FLEXIBLE RUGGED POWER CABLE



The ultra flexible and rugged power cable solution—ideal for rotating turret applications and weight reduction in SWaP-sensitive vehicle applications. TurboFlex cable is jacketed with Duralectric™ to provide outstanding flexibility and resistance to environmental and chemical exposure.



Available in a broad range of gages, 16 AWG to 450 MCM



◀ Duralectric™ is the high-performance TurboFlex® jacketing material perfectly suited for immersion, chemical or caustic fluid exposure, temperature extremes, UV radiation and more—available in a broad range of colors including safety orange



Many sizes In-stock and available for immediate, same-day shipment. No minimums!

TurboFlex ultra-flexible power distribution cable with rugged Duraelectric™ jacketing



TURBOFLEX CABLE APPLICATION EXAMPLE



This multibranch TurboFlex power and data interconnect assembly for a ruggedized defense application demonstrates the remarkable flexibility and minimal bend radius of large form-factor (up to 450 MCM) TurboFlex cable. Example shown features UV- and chemical-resistant Duraelectric jacketing in FED-STD 595C Safety Orange.

ABOUT TURBOFLEX WITH DURALECTRIC™ D JACKETING

Duraelectric™ D is a Glenair Signature elastomeric material used in wire insulation, cable and conduit jacketing, overmolding, and shrink boots. Glenair TurboFlex high-flexibility power distribution cables are supplied with Duraelectric jacketing in different wall thicknesses, as well as “tell-tale” dual-layering.

TurboFlex core conductors are available in three aerospace-grade material and temperature configurations:

- T = Tin/Copper (-60° – 150°C),
- S = Silver/Copper (-60° – 200°C)
- N = Nickel/Copper (-60° – 260°C)

A signature configuration of TurboFlex is available with high-temperature shielding and lightweight aluminum conductors.

DURALECTRIC™ D PHYSICAL PROPERTIES		
Property	Typical Result	Test Method
Hardness, Shore A	60	ASTM D2240
Tensile Strength, psi	1100	ASTM D412
Elongation, %	500	ASTM D412
Tear Strength, Die B, ppi	150	ASTM D624
Low Temperature Impact at -65°C	Pass/No Cracks	ASTM D2137
Accelerated UV/Sunlight Resistance, 53 yr. Equiv. Exposure	Pass/Excellent	IEC 60068-2-5
Ozone Resistance	Pass/No Cracks	ASTM D1149
Zero Halogen	Pass	IEC 754-1

DURALECTRIC™ D ELECTRICAL PROPERTIES		
Property	Typical Result	Test Method
Dielectric Strength, kV/mm	19	ASTM D419
Comparative Tracking Index, VAC	> 600	ASTM D3638

DURALECTRIC™ D FIRE RESISTANCE PROPERTIES	
Property	Typical Result
Flammability	
Oxygen Index, %	45
FAR 25.853, 12 Second Vertical	Pass
FAR 25.853, 60 Degree	Pass
FAR 27.1365 b,c	Pass
BSS7230 Method F2	Pass
IEC60614-1	Pass
EN60695-2-12, 850°C Glow-Wire	Pass
UL1685 FT4/IEEE1202	Pass
Smoke Density	
BSS7238	Pass
NES 711	Pass
EN 60695-2-11	Pass
UL1685 FT4/IEEE1202	Pass
Combustion Toxicity	
BSS7239	Pass
NES 713	Pass
SMP800 C	Pass

GENERAL DURALECTRIC D PERFORMANCE SUMMARY

- Service Temperature Range: -65°C to 260°C
- Fire Resistant and Low Smoke-Zero Halogen (LSZH)
- RoHS materials
- Resistant to common aerospace, military and industrial fluids
- UV resistant



MILITARY
VEHICLE
INTERCONNECT
TECHNOLOGY



DLA, Navy, and TACOM-
Qualified environmental heat-
shrink boots and molded
shapes



For advanced abrasion protection,
environmental sealing, splicing,
and wire protection

NAVSEA-Qualified
Heavy-Wall Boot
5617649



ALSO AVAILABLE: AUTOSHRINK COLD-SHRINK BOOTS



Autoshrink D
UV-Resistant / LSZH



Autoshrink F
Advanced Fluid Resistant



Autoshrink S
Subsea



Autoshrink T
High-Temperature-Tolerant

ENVIRONMENTAL Heat-Shrink and Autoshrink™ Boots and Molded Shapes

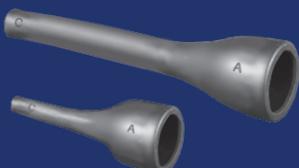


abrasion protection · environmental sealing · splicing

COMPLETE RANGE OF ENVIRONMENTAL HEAT-SHRINK BOOTS AND MOLDED SHAPES



Standard lipped or lipless boots



Long tail and high-ratio configurations



90° and 45° angle boots



SuperFly, Mighty Mouse, and D-subminiature configurations



Convoluted accordion boots



Y, T, and multibranch transitions



Colored boots available

Glenair Series 77 "Full Nelson" TACOM APPROVED Shrink Boots

Description	Military Part Number	Glenair Part Number	Raychem Part Number	Hellermann Part Number	Description	Military Part Number	Glenair Part Number	Raychem Part Number	Hellermann Part Number
Heat Shrinkable Low Profile 3-Entry "Y" Transition	12273148-1**	770-009Y*05	381A301-**	492H412-*	Heat Shrinkable Straight Lipped 2-Entry Long Tail Boot	12273147-1**	770-020S*02	202F211-**	313F322-*
	12273148-2**	770-009Y*06	381A302-**	492H413-*		12273147-2**	770-020S*03	202F221-**	313F332-*
	12273148-3**	770-009Y*07-01	381A303-*01	492H414-*01		12273147-3**	770-020S*04	202F232-**	313F343-*
	12273148-4**	770-009Y*08-01	381A304-*01	492H415-*01		12273147-4**	770-020S*05	202F242-**	313F353-*
Heat Shrinkable Low Profile 3-Entry "T" Transition	12273148-5**	770-009Y*07	381A303-**	—	12273147-5**	770-020S*06	202F253-**	313F364-*	
	12273162-1**	770-012T*01	301A511-**	412H622-*	12273147-6**	770-020S*07	202F263-**	313F374-*	
	12273162-2**	770-012T*02	301A512-**	412H623-*	12273147-7**	770-020S*08	202F274-**	313F385-*	
	12273162-3**	770-012T*03	301A513-**	412H624-*	12273176-1**	770-021A*02	222F211-**	333F322-*	
Heat Shrinkable Low Profile 4-Entry 3:1 Transition	12273162-4**	770-012T*04	301A514-**	412H625-*	12273176-2**	770-021A*03	222F221-**	333F332-*	
	12273163-1**	770-014*09	462A421-**	573H532-*	12273176-3**	770-021A*04	222F232-**	333F343-*	
	12273163-2**	770-014*10	462A422-**	573H533-*	12273176-4**	770-021A*05	222F242-**	333F353-*	
	12273163-3**	770-014*11	462A423-**	573H534-*	12273176-5**	770-021A*06	222F253-**	333F364-*	
Heat Shrinkable Adapter Shim Boot	12273163-4**	770-014*12	462A424-**	573H535-*	12273176-6**	770-021A*07	222F263-**	333F374-*	
	12273164-1**	770-019SB*01	202E334-**	313E445-*	12273176-7**	770-021A*08	222F274-**	333F385-*	
	12273164-2**	770-019SB*02	202E344-**	313E455-*					
	12273164-3**	770-019SB*03	202E336-**	313E447-*					
Heat Shrinkable Convoluted Strain Relief 2-Entry Boot	12273164-4**	770-019SB*04	202E346-**	313E457-*					
	12273242-1**	770-022C*01	202C611-**	313C722-9					
	12273242-2**	770-022C*02	202C621-**	313C732-9					
	12273242-3**	770-022C*03	202C632-**	313C743-9					
	12273242-4**	770-022C*04	202C642-**	313C753-9					
	12273242-5**	770-022C*05	202C653-**	313C764-9					
	12273242-6**	—	202G621-**	—					
	12273242-7**	—	202G632-**	—					
	12273242-8**	—	202C642-**	—					
12273242-9**	—	202C653-**	—						

M85049-QUALIFIED BOOTS



M85049/140 (straight), /141 (right-angle), and /142 (transitions)

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY

HighSpeed

VersaLink™, SpeedMaster™, El Ochito®,
and other Signature high-speed
datalink connectors



SpeedLine
High-Speed Data Link Cables

Glenair high-speed datalink
assemblies are proudly made
with Signature SpeedLine
high-speed cable

Glenair Signature high-speed interconnects are
optimized for all popular datalink protocol standards



RF / HIGH-SPEED DATALINK CONTACTS



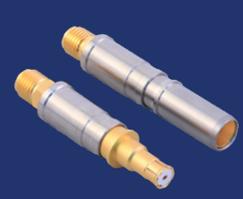
Size #8 differential
twinax contacts



Size #8 spring-loaded
BMB microwave contacts



Size #12 SMPM type
spring-loaded coaxial



G-LinkRF
SMA contact adapter

SIGNATURE High-Speed Datalink Interconnect Solutions up to 28 Gbps

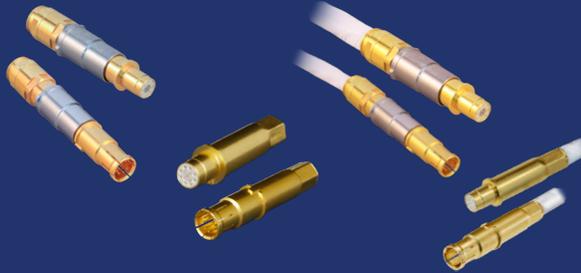


El Ochito

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

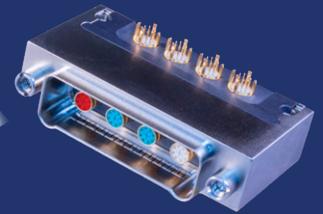


El Ochito®:
The high-speed octaxial contact with patented data pair isolation



Discrete contacts for D38999 Series III, Series 806 Mil-Aero, SuperNine®, ARINC 600, and Series 79 for both #24 and #26 gauge cable

Turnkey jumpers with Cat 6A #24 or #26 gauge flexible aerospace cable



Series 79 right-angle PCB connector with El Ochito white (Ethernet), blue (USB 3.0), and red (100 Ohm HDMI, DVI, SATA, and PCI)



Series 882 SuperFly Datalink El Ochito nanominiature



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



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



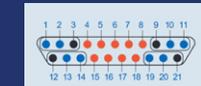
Series 792 Micro-Crimp precision-machined high-speed El Ochito



GLENAIR SIGNATURE HIGH-SPEED CONNECTOR SERIES



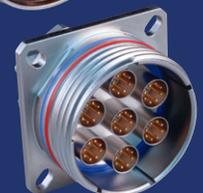
VersaLink micro miniature differential twinax with Signature Series 806, 795, and Micro-D packaging



High-Speed Micro-D TwistPin contact 10+Gb/sec. (example insert with four high-speed signal pairs)



GMMD modular high-speed Micro-D RF / 10GbE connector



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

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY

 **SuperNine[®]**

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



ThermaRex[™]

SuperNine “ThermaRex”
ultra high-temperature
tolerant connectors
for hypersonic missile
applications

SuperNine[®] is a “Better-than-QPL”
MIL-DTL-38999 series connector
with outstanding durability, sealing,
ease of shield termination, broad
range of PC tail configurations,
environmental and hermetic
bulkhead feed-throughs, connector
savers, as well as off-the-shelf EMI/
EMP filter connectors and more—all
with Glenair’s legendary service,
support, and product availability



Designed for use in
rugged vibration and
shock applications,
Glenair SuperNine is the
only D38999-type series
connector to pass the Bell
Helicopter 299-100-B29
vibration testing

SERIES 23

SuperNine®

MIL-DTL-38999 Series III Type

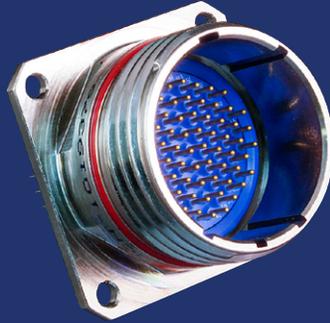
Advanced performance aerospace / defense connectors



RUGGED, HIGH VIBRATION AND SHOCK COUPLING AND MATING TECHNOLOGY



Anti-decoupling, high vibration ratcheting coupling nut for ultimate safety and reliability



Triple-start stub ACME mating thread profile for fast mate and demate during maintenance cycles



Special-purpose high-voltage in MIL-DTL-38999 Series III packaging

BROAD RANGE OF PC TAIL STANDOFF DESIGNS FOR I/O-TO-BOARD APPLICATIONS



Dual standoff design for superior resistance to vibration and shock

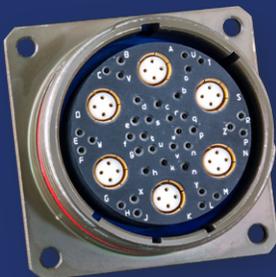


EMI / RFI planar-array filter connector for critical avionic systems



Ultra low-profile flat configuration for reduced package size applications

HIGH-SPEED AND RF DESIGNS FOR SENSORS AND SATELLITE UPLINK DATA COMMS



Industry-standard Quadrax-equipped layouts for signal and high-speed data



Ultra-light weight Octaxial contacts for 10Gb data transfer per contact



High-frequency RF designs for satcom communications

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY

SERIES
806
MIL-AERO

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 Ultraminature Circular Connectors



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

SERIES 806 MIL-AERO: FEATURES / SPECIFICATIONS

- **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**
- **“Triple ripple” wire sealing grommet (75,000 ft. rated)**
- **Integral Nano-Band shield termination platform**
- **EMI shielding effectiveness per D38999M para. 4.5.28 (65 dB min. leakage attenuation @ 10GHz)**
- **10,000 amp indirect lightning strike**
- **MIL-S-901 Grade A high impact shock**

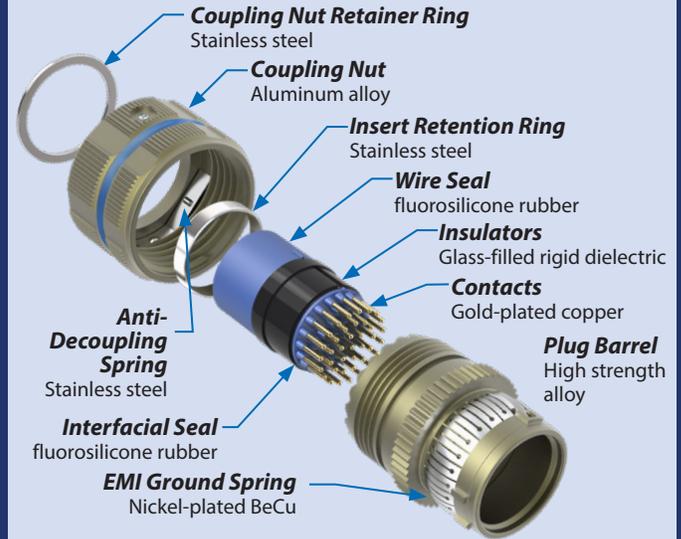


AVAILABLE LIGHTWEIGHT ALUMINUM “CODE RED” HERMETICS

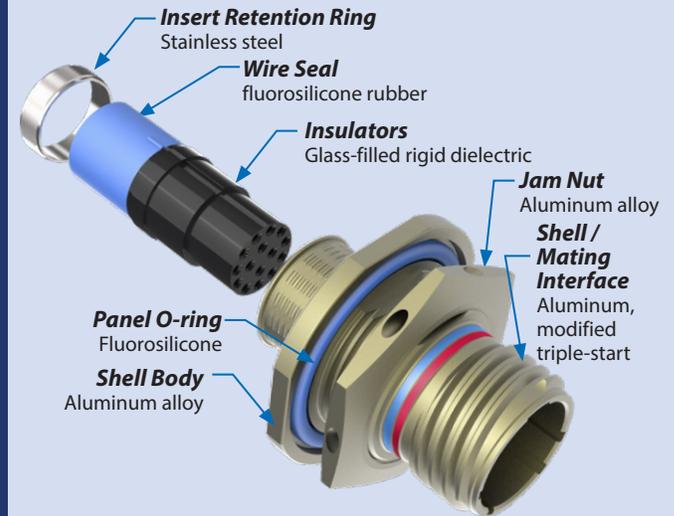
CODE RED is a lightweight encapsulant sealing and assembly process with 50% package-weight savings compared to glass-to-metal seal Kovar/stainless steel solutions. Non-outgassing CODE RED (IAW NASA/ESA) provides durable hermetic sealing with 1×10^{-7} leak rate performance. Gold-plated copper contacts deliver outstanding low-resistance current carrying capacity.



SERIES 806 MIL-AERO PLUG

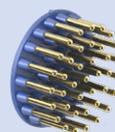


SERIES 806 MIL-AERO RECEPTACLE



SMALLER AND LIGHTER WITH EQUAL D38999 PERFORMANCE?

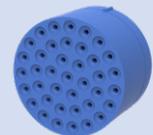
High-Density Layouts
Twice as many contacts in a smaller package



“Top Hat” Insulator
High voltage rating, foolproof alignment



Triple Ripple Wire Seal
Reliable 75,000 ft. altitude immersion



AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY

SUPERFLY DATALINK



The Nano miniature Shielded Octaxial
Interconnect for High-Speed Datalink Protocols

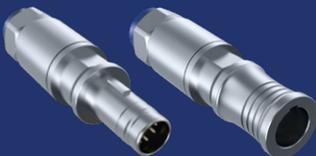


High speed, harsh environment SuperFly[®] Datalink connectors—shielded for 10Gb Ethernet, SuperSpeed USB, HDMI, SATA, and DisplayPort protocols—deliver outstanding signal integrity and save significant size and weight compared to Quadrax solutions.

PANEL MOUNT CONNECTOR



Panel mount SuperFly Datalink receptacles feature straight or right angle printed circuit board terminals. SuperFly Datalink board mount jacks are epoxy-sealed and are compatible with conformal coatings.



Quick Disconnect



Threaded Coupling



Straight PC Tails



Right Angle PC Tails

The high-speed nano miniature connector for harsh environment defense applications

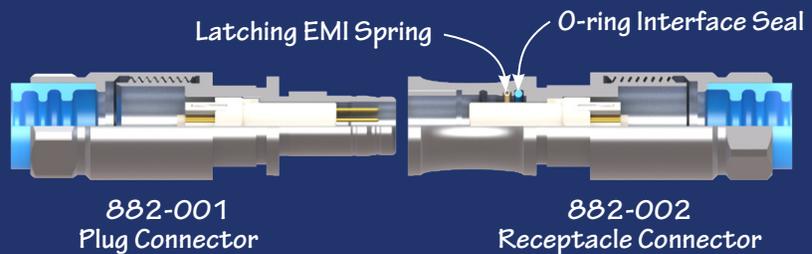
SUPERFLY DATALINK

The High-Speed Ultraminiature Connector for Harsh Environments



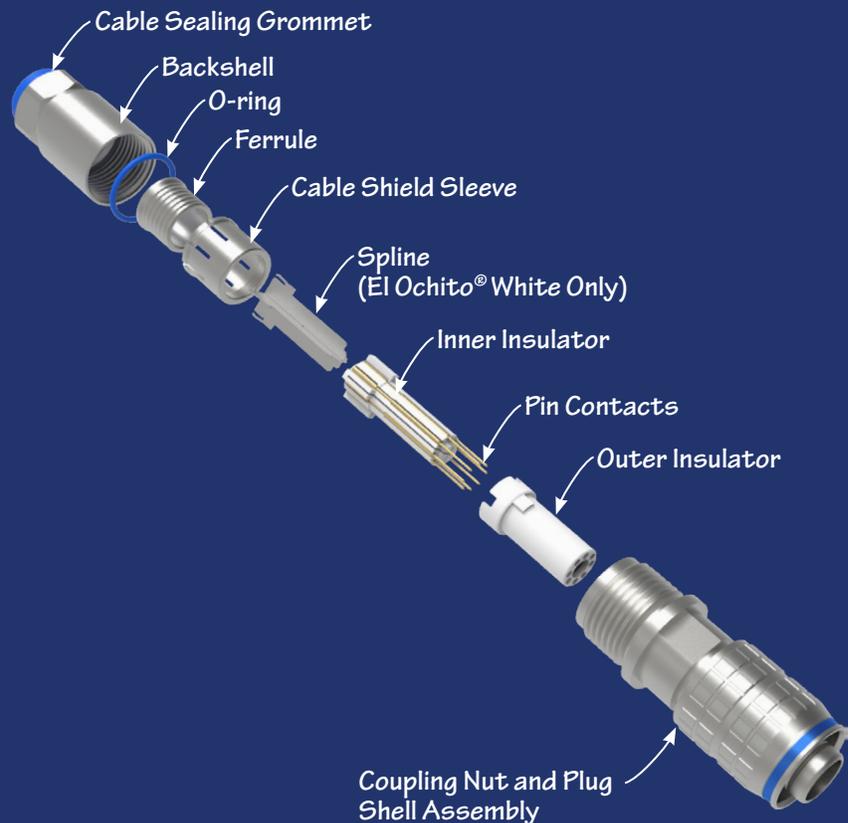
- Ultra-small size
- Shielded Octaxial contacts
- Combo arrangement for HDMI 2.0 and DisplayPort 1.2
- 40Gb Ethernet, SATA and SuperSpeed USB
- Up to 10 Gbps per pair
- PCB or cable termination
- Threaded or Quick-disconnect
- Environmentally protected
- Aerospace-grade performance
- Panel-mount connectors fully-sealed for compatibility with conformal coatings used in board assembly

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.



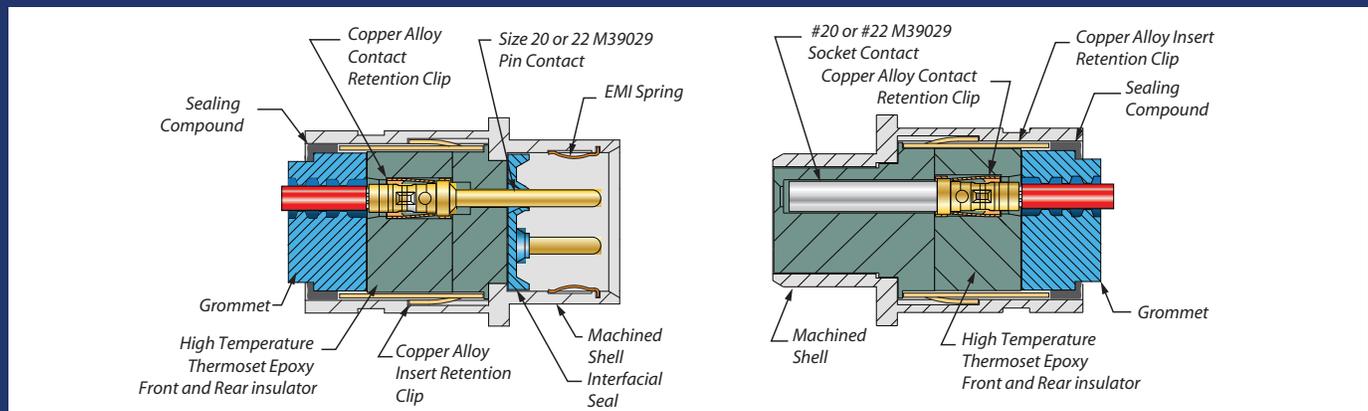
Advanced-Performance HiPer-D Connectors—Aerospace-Grade M24308 Intermateable



HiPer-D: the advanced-performance M24308 intermateable with one-piece precision-machined shells and enhanced shielding, sealing, and high temperature and vibration tolerance

- Advanced temperature, vibration and EMC/ electrical performance
- 11 standard and 20 combo insert arrangements
- High temperature epoxy insulators
- Watertight sealing
- Rugged machined one-piece shell

STANDARD AND HIGH DENSITY HiPer-D® - CUTAWAY



Precision-machined · shielded · sealed

Glenair HiPer-D M24308 D-sub connectors are ideally suited for both high-altitude and exoatmospheric applications including jet aircraft avionic systems and military defense on-board satellite computers. Connectors are supplied with auxiliary grounding fingers, fully-sealed inserts, accommodation for precision-machined backshells, and are fabricated with materials and production processes designed to eliminate the broad range of electrical, mechanical, and environmental failure modes endemic in stamped-and-formed connector packaging.



HiPer-D High-Performance D-Sub vs. MIL-STD-24308		
Specification / Feature	M24308	HiPer-D
Temperature	-55°C to +125°C	-65°C to +200°C
Insulator	Thermoplastic	Thermoset Epoxy
Shell	Steel (Brass)	Aluminum (SST)
Voltage	1000 VAC	1000 VAC
Grounding	Dimples in shell (not in Mil-Spec)	Nickel-plated Copper Alloy EMI spring
Environmental	No	Yes
Vibration, sine	20 g	60 g
Vibration, random	N/A	43 g
Shock	50 g	300 g
Bolt-on backshells	No	Yes

HIPER-D M24308 COMBO-DS FOR POWER, SIGNAL, AND RF APPLICATIONS

- Size #8 power and 50 ohm or 75 ohm RF contacts
- Mixed layouts with #8's and #20's
- 200°C continuous operating temperature
- 20 tooled layouts
- Crimp and PC tail terminations



HIGH-SPEED HIPER-D HIGH-PERFORMANCE M24308

Crimp contact non-environmental connectors with #8 contacts for high-speed data transmission

- One-piece rugged machined aluminum shell
- Two to five size 8 Coax, Twinax, or Quadrax contacts
- Common ground plane (no insulators)
- Available in straight and right angle PCB versions
- Non scoop-proof solution. For scoop-proof rectangular connector requirements, see Series 792



NEXT-GENERATION
MICRO
MINIATURE
CONNECTORS



High-density, crimp-contact, power and signal connectors with precision-machined micro miniature packaging

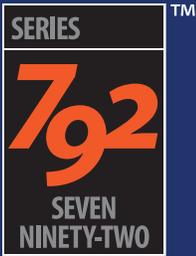


Originally designed for NASA's Orion project, the 791's small size and blind mate capability make it a perfect choice for 2U and 3U electronics modules. Applications include radars, satcom, exoatmospheric vehicles, flight avionics, power distribution units, and satellite instrumentation.

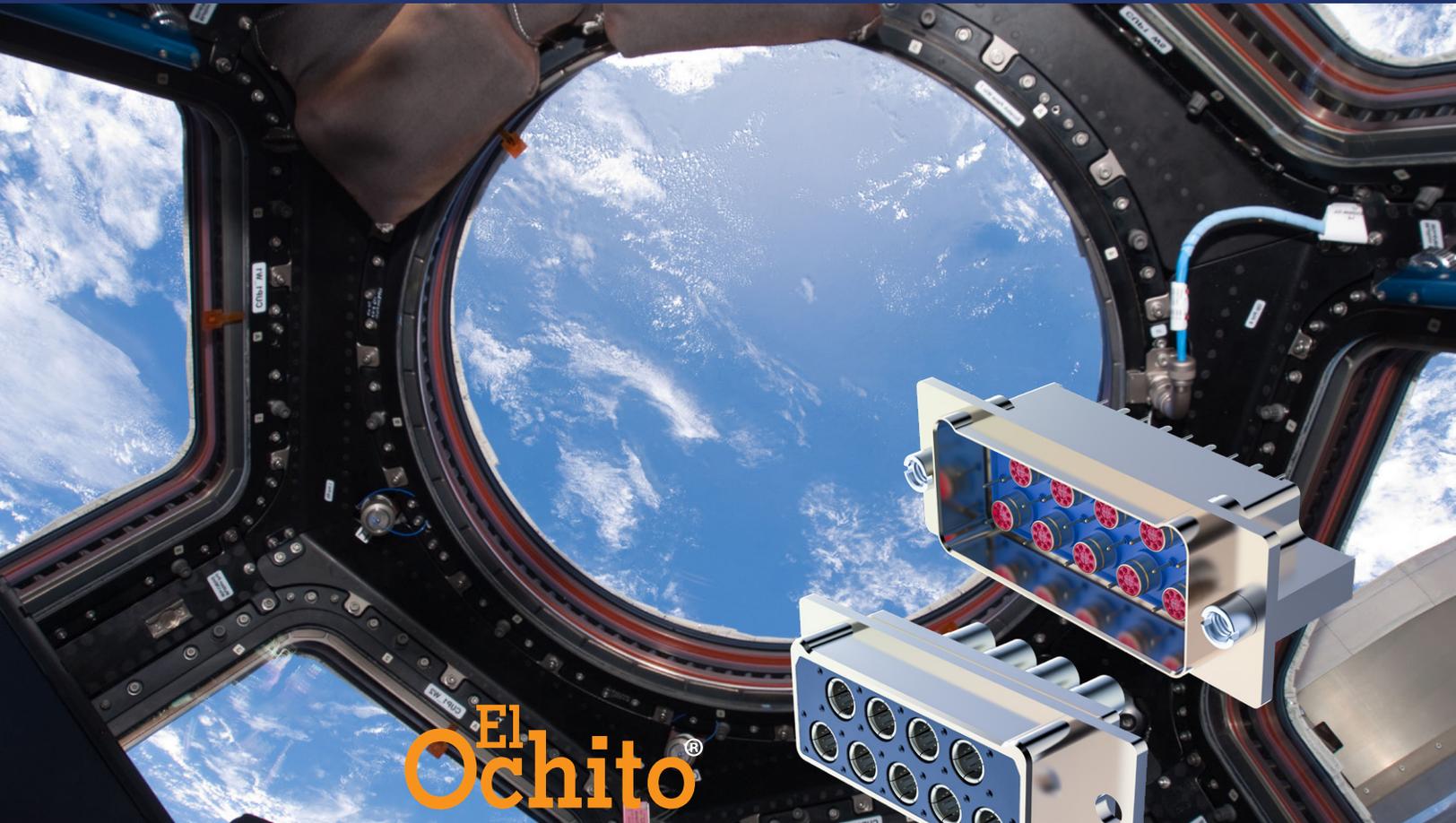


Polarized / keyed shells prevent mis-mating and allow designers to specify identical layouts side-by-side without risk of circuit damage

- Next-generation small form factor aerospace-grade rectangular connector
- Scoop-proof recessed pin contacts
- 37 arrangements, 12 shell sizes for the ultimate in versatility
- Rugged aluminum alloy dual-lobe shell
- Environmental
- EMI shielded
- Blind mating



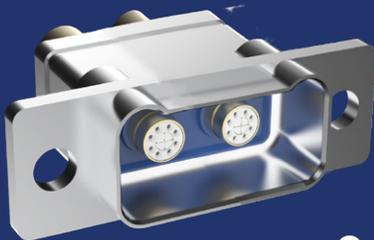
High-speed El Ochito® variants of Glenair Signature micro miniature crimp-contact rectangular connectors



El Ochito®



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 Ethernet, USB 3.0, HDMI
- Printed circuit board and cable connectors
- Scoop-proof interface
- 12 arrangements, 6 shell sizes for the ultimate in versatility
- Rugged aluminum alloy dual-lobe polarized shells
- Environmentally sealed
- Integrated EMI shielding and grounding
- Blind mating

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY

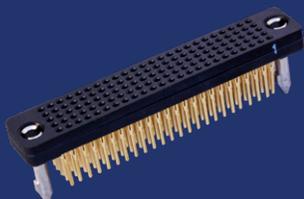
HDSTACKER™

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

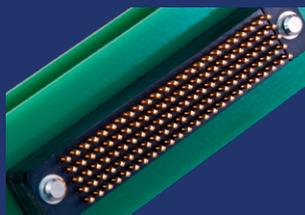


HD Stacker: the innovative mission-critical board-to-board connector with fail-safe signal integrity and rugged, reliable harsh-environment performance

- 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



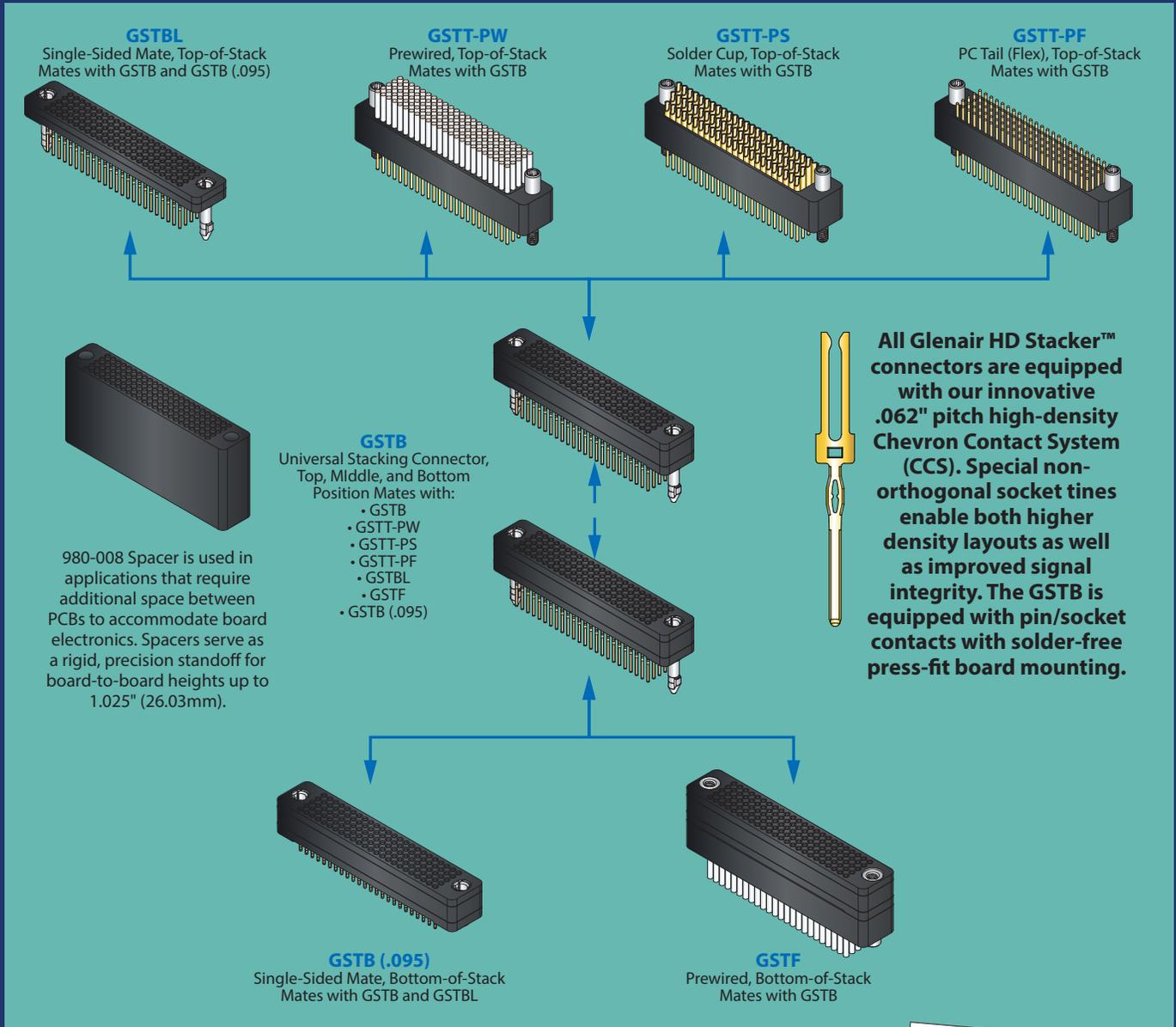
.0625" pitch contact spacing: highest available density



Polarized shells and keyed guide pin hardware prevent mis-mating

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

HD STACKER™ POSITION AND MATING COMPATIBILITY GUIDE



QUALIFICATION TESTING / HIGH-SPEED PERFORMANCE

Stacker connectors were qualified in accordance with MIL-DTL-55302G testing for:

- 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. Complete test reports are available at www.glenair.com/test-reports-and-technical-information



AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY



MIL-DTL-83513 and
Glenair Signature
Micro-D Connectors
and Splice-Free
Cable Assemblies



The world leader in Micro-D connectors: from COTS to custom, backshells to hardware, Glenair has it all



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

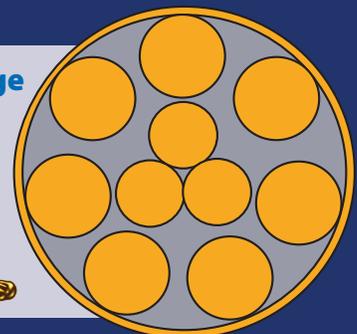
- High density TwistPin contacts on .050" centers
- Turnkey multibranch and complex cable assemblies
- 9 to 130 contact arrangements
- Single row, multi-row, low profile and high density insert arrangements
- QPL and commercial versions



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



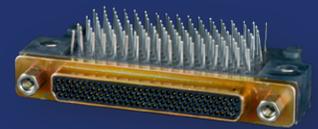
Environmental



Hermetic



EMI / RFI Filter



Space-Grade

TERMINATION STYLES



Flex



PCB



Pigtail

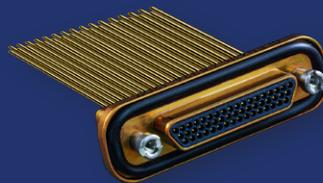


Solder

WIRED / CABLED CONFIGURATIONS



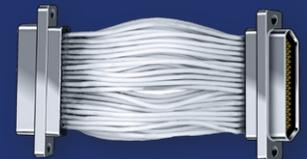
Shielded



Uninsulated



Insulated



Back-to-Back

PCB DESIGNS



Vertical



Horizontal



Surface-Mount



Shrouded

SPECIAL-PURPOSE DESIGNS



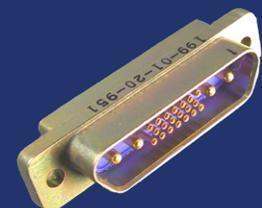
High-Temperature



Sav-Con®



Latching MicroStrip



Combo

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY



MIL-DTL-32139 QPL and Glenair Signature
Nano miniature connector designs

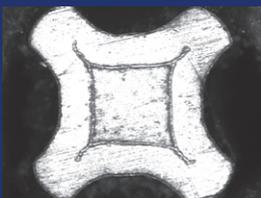


Turnkey solutions from
shielded cable assemblies
to discrete wire-to-board
interconnects

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

Nano 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

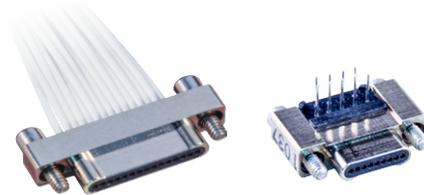


Also available: aerospace-grade Nano circulars

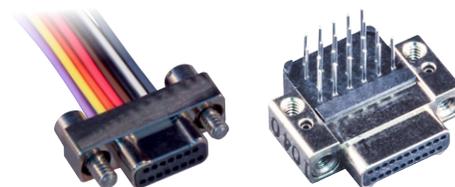
Nano Circular Connectors and Accessories



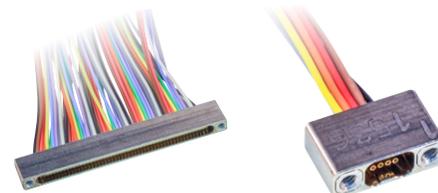
Nano Rectangular Single-Row Connectors and Accessories



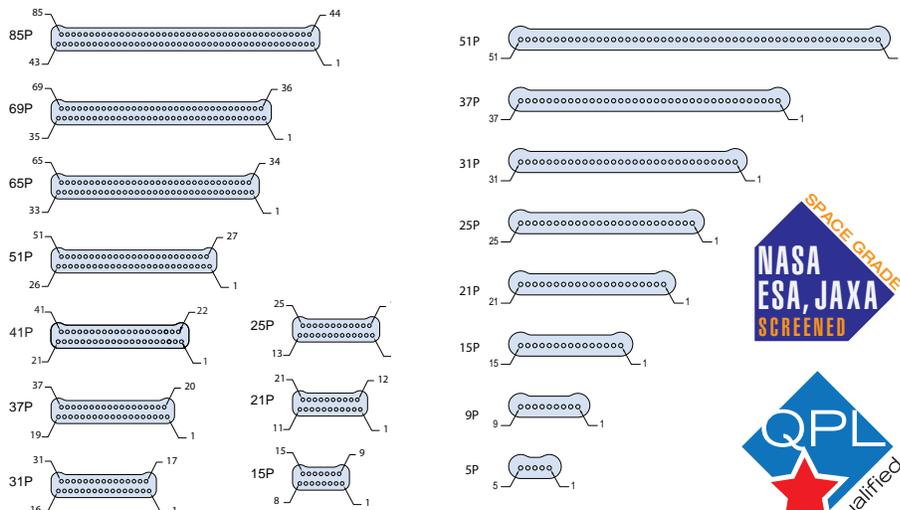
Nano Rectangular Dual-Row Connectors and Accessories



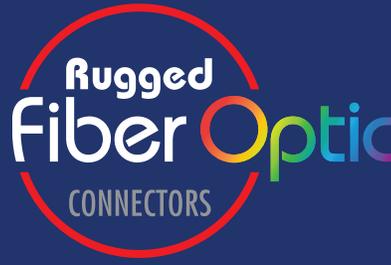
MIL-DTL-32139 Qualified Connectors and Accessories



NANO MINIATURE CONTACT ARRANGEMENTS



AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY



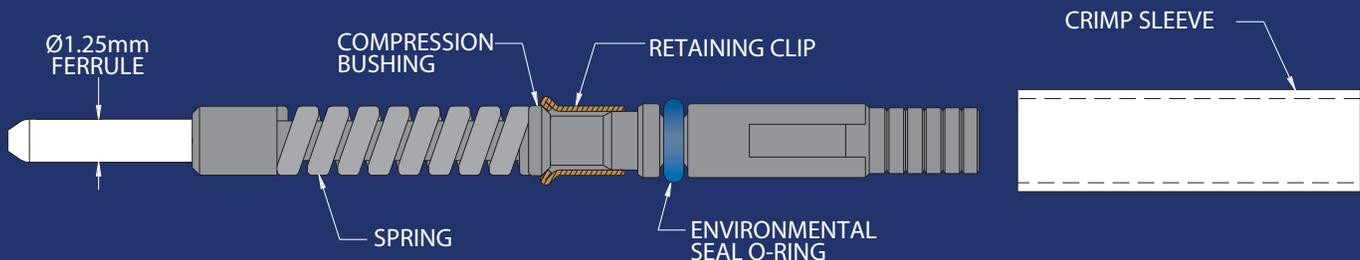
Glenair High Density
(GHD) and other
Aerospace-Grade
Fiber Optic Connection
Systems



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



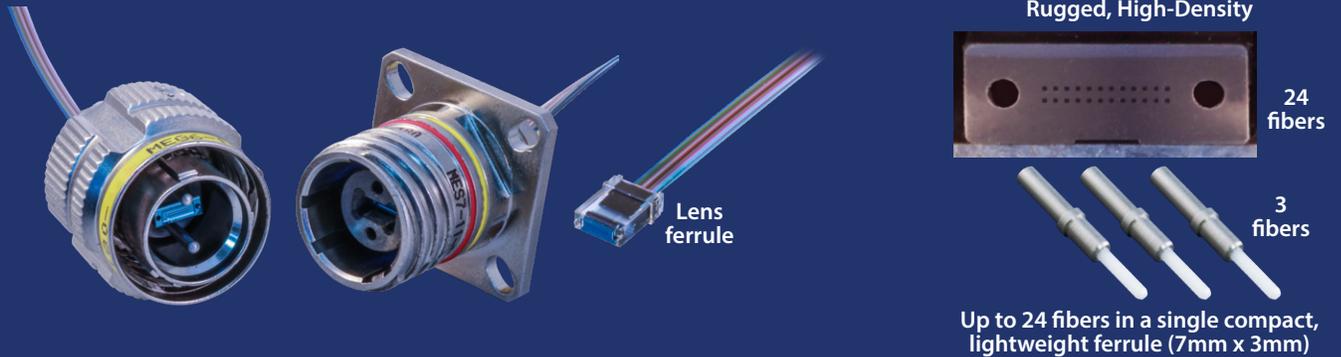
GHD's high-density cavity spacing is achieved with an innovative front-release terminus design that incorporates a high-force spring and compression bushing that enables low-loss performance even in high-vibration / high-shock applications.

AEROSPACE AND DEFENSE Fiber Optic Interconnect Systems

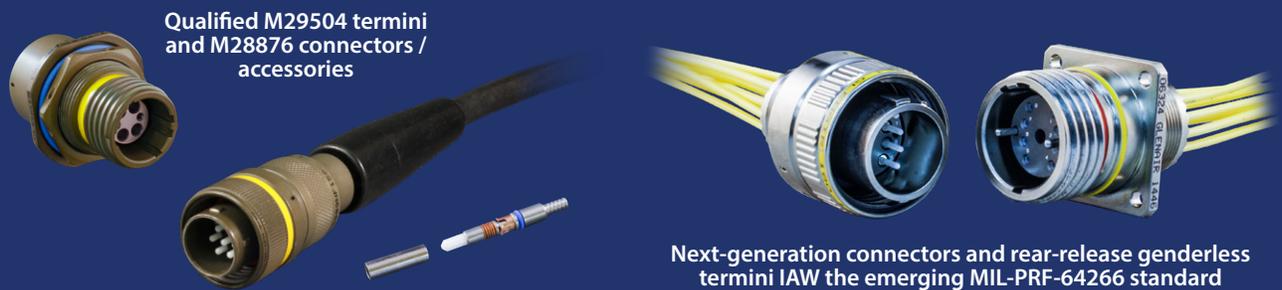


Ruggedized, harsh-environment solutions

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



ALSO-AVAILABLE MIL-STANDARD TECHNOLOGY: MIL-PRF-28876 AND NGCON FIBER OPTICS



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



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





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

- 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

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.

SPACE-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

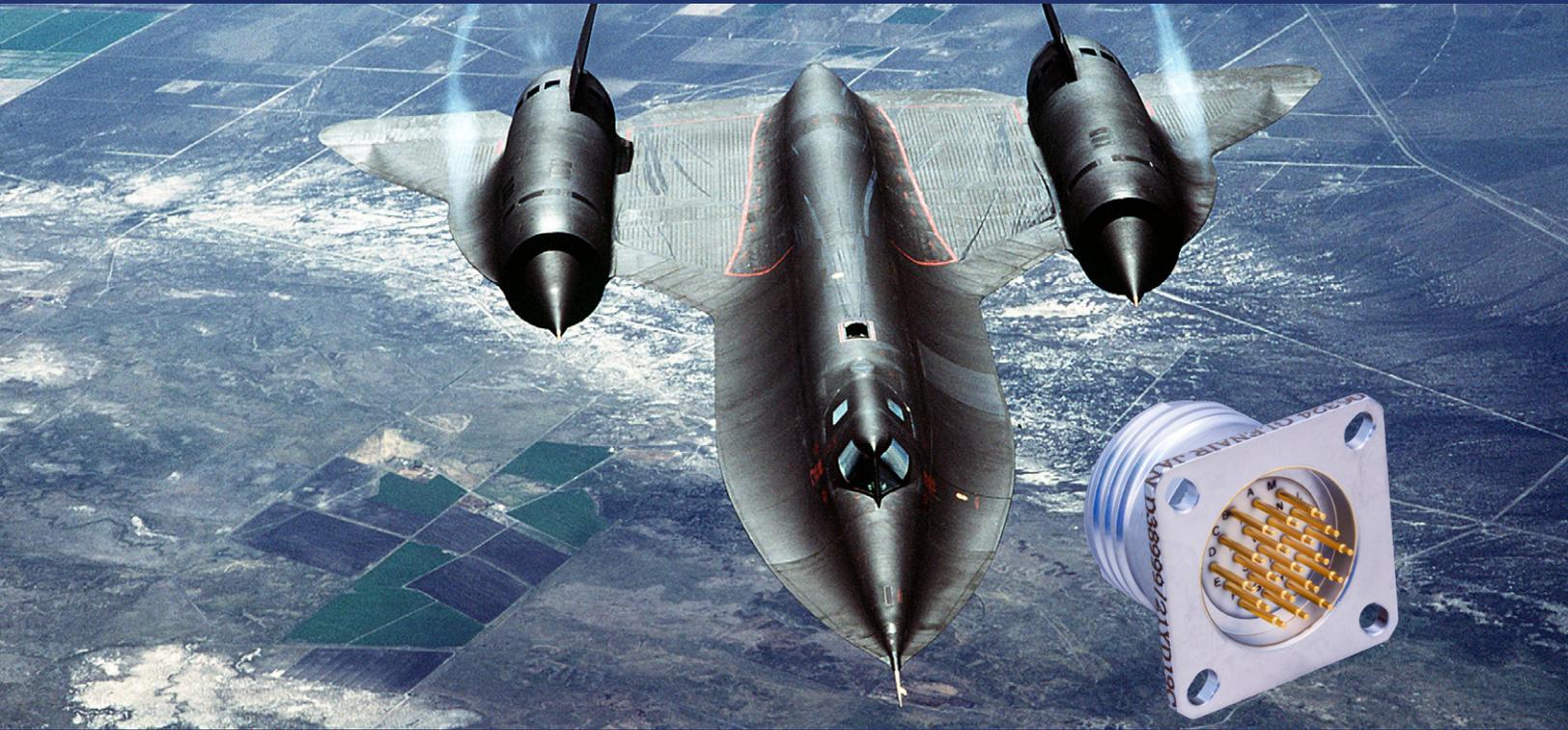


Quick-disconnect circular with
solder-free contact filter array

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY



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 1×10^{-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

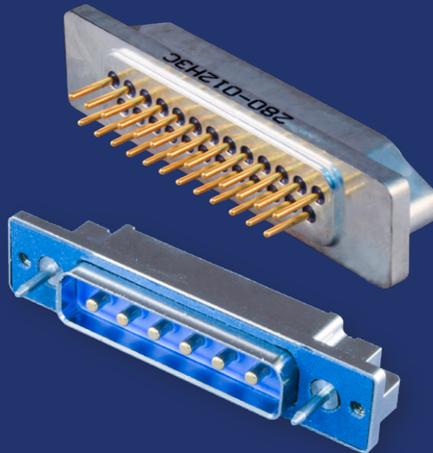


Thousands of same-day-availability part numbers

UNIQUE HERMETIC OFFERINGS AND CATALOG (COTS) SOLUTIONS



Coax, Triax, QuadraX and hybrid-contact layouts



Rectangular hermetics including Series 28 HiPer-D and Series 79



E1 Ocho high-speed octaxial contacts in a lightweight CODE-RED sealed bulkhead feed-thru



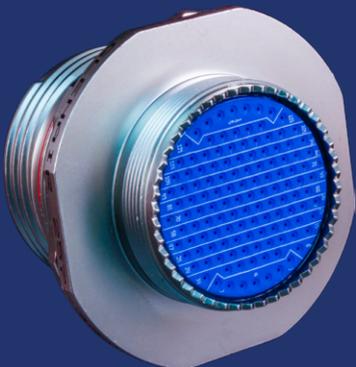
Triax hermetic



Hermetic Sav-Con Feed-thrus and Gender Changers



Dual-flange PC tail hermetic



Hermetic with crimp-removable contacts



Hermetic bulkhead penetrators

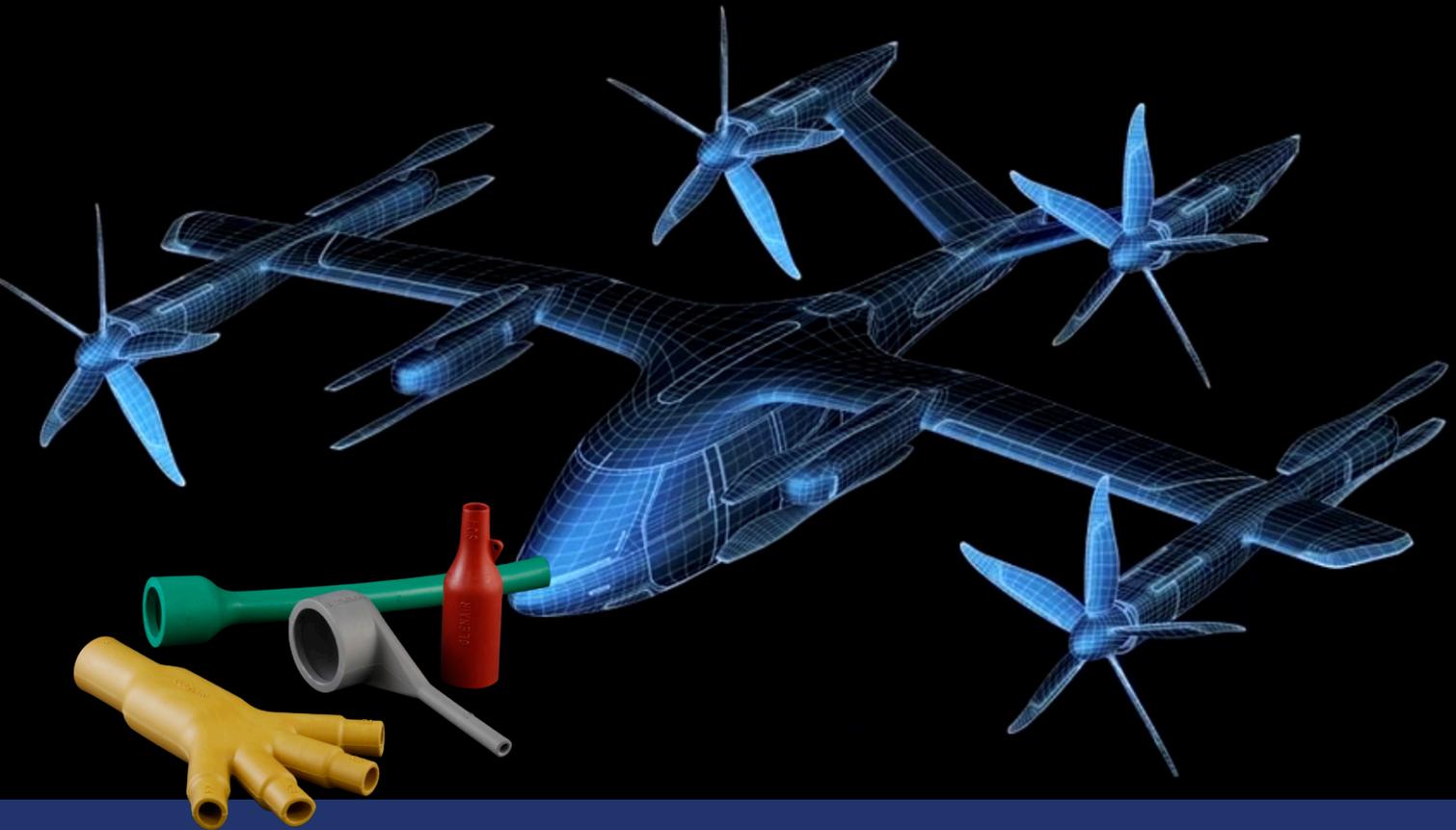


Hermetic receptacles with integrated band porch

AEROSPACE/
MISSILE SYSTEMS
INTERCONNECT
TECHNOLOGY



Aerospace backshell and
accessory designs for weight
reduction and life-of-aircraft
durability



**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.



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 Connector 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

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



INNOVATIVE NEW EWIS TECHNOLOGIES



Self-locking protective covers

Split-shell snap-lock rectangular composite backshells

Heat shrink boot / wire routing clamp assembly



Leonardo's ProSeal spring-loaded protective covers



Lightweight SpliceSaver single- and multi-wire series



Lightweight Dummy Contact Sealing Plugs (DCSP)

NAVY / SHIPBOARD INTERCONNECT TECHNOLOGY



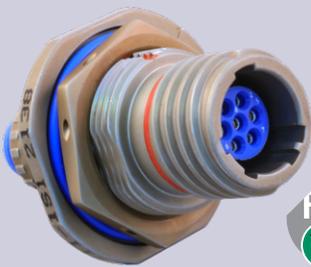
Qualified MIL-DTL-28840 Connectors and Accessories: Every Slash Sheet, No Gaps



MIL-DTL-28840 qualified connectors and accessories. Splined connector-to-backshell interface is ideally suited for heavy backshells and cables

- All sizes and platings in-stock and ready for immediate shipment
- High density, scoop proof contact arrangements
- Flange mount, box mount, jam-nut and in-line receptacles
- Straight, 45° and 90° strain reliefs and backshell assemblies
- Sav-Con® connector savers and bulkhead feedthrus
- Contact and connector assembly tools

QUALIFIED CADMIUM-FREE AND COMPATIBLE TIN-ZINC (TZ) PLATING FOR CLASS CODE L AND M (CLASS T AND TJ) NAVY LAND AND MARITIME APPLICATIONS.



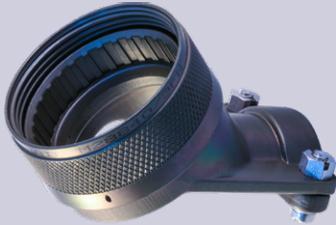
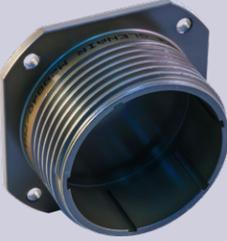
L - Class T: Aluminum, Tin-Zinc Plate over Electroless Nickel, Non-Reflective

- New DLA-qualified replacement for Cadmium
- High conductivity and shielding performance in harsh maritime conditions
- High corrosion resistance
- Compatibility with legacy cadmium-plated connectors and environmental shrink boots
- RoHS-compliant material
- Test reports available upon request

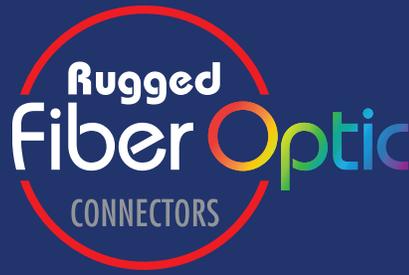
QUALIFIED
MIL-DTL-28840
Connectors and Accessories
 with in-stock same-day availability



MIL-DTL-28840 • FULLY-QUALIFIED • EVERY SLASH SHEET • NO GAPS • IN-STOCK AVAILABILITY

 <p>Contacts M39029/83 pin and /84 socket</p>	 <p>Clamps M28840/1 straight M28840/2 90° M28840/3 45°</p>	 <p>Conduit M28840/4 Metal-Core</p>
 <p>Conduit Fittings M28840/5 Backshell for Metal Core Conduit M28840/6 EMI/RFI Environmental Backshell M28840/25 90° EMI Conduit Adapter M28840/27 45° EMI Conduit Adapter M28840/30 Metal Conduit Coupler, Styles A and B M28840/22 Metal Conduit Bushing M28840/23 "E Nut"</p>	 <p>Backshells M28840/8 90° EMI/RFI Environmental M28840/4 45° EMI/RFI Environmental Backshell</p>	 <p>Connectors M28840/10 Wall Mount Receptacle Connector M28840/11 In-Line Receptacle Connector M28840/12 Box Mount Receptacle Connector M28840/14 Jam Nut Mount Receptacle Connector M28840/16 Plug Connector</p>
 <p>Connector / Backshell Assemblies M28840/17 Plug Connector / Straight Strain Relief M28840/18 Plug Connector with 90° Strain Relief M28840/19 Plug Connector with 45° Strain Relief M28840/20 Recept., Straight EMI/RFI Backshell M28840/21 In-Line Recept., St. EMI/RFI Backshell M28840/26 Plug, with Straight EMI/RFI Backshell M28840/28 90° Adapter Assembly Plug M28840/29 Plug with 45° EMI/RFI Backshell</p>	 <p>Protective Covers M28840/13 Protective Receptacle Cover M28840/15 Protective Plug Cover</p>	 <p>Tools and Accessories M28840/7 Dummy Stowage Receptacle M28840/24 Mounting Gasket</p>

NAVY /
SHIPBOARD
INTERCONNECT
TECHNOLOGY

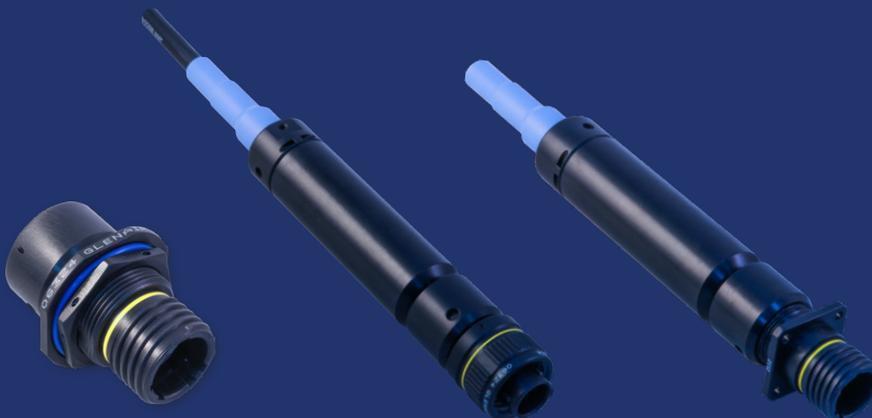


QPL and Glenair
Signature
MIL-PRF-28876
Fiber Optic
Connection System



Qualified MIL-PRF-28876 fiber optic connectors and MIL-PRF-29504 termini—Navy approved, in stock, and ready for immediate shipment

- Connectors qualified to the complete requirements of MIL-PRF-28876: plugs, wall-mount receptacles, jam-nut receptacles, and in-line receptacles
- Multiple shell sizes and insert arrangements, including 2, 4, 6, 8, 18 and 31 channel layouts
- Backshells in straight, 45° and 90° configurations
- Corrosion-resistant and environmentally sealed
- Qualified MIL-PRF-29504/14 and /15 pin and socket termini and /03 dummy terminus
- Same-day availability



M28876/11 jam nut receptacle

M28876/7 plug with backshell

M28876/2 receptacle with backshell

NAVSEA-qualified fiber optic connection system

Connector/Backshell Types			
Connector Type	Backshell Type	MIL-Spec	Commercial Connector Type Code
Wall Mount Receptacle	None	M28876/1	03
	Straight	M28876/2	13
	45°	M28876/3	23
	90°	M28876/4	33
In-Line Receptacle	Straight	M28876/5	15
Plug	None	M28876/6	06
	Straight	M28876/7	16
	45°	M28876/8	26
	90°	M28876/9	36
Jam Nut Receptacle	None	M28876/11	04
	Straight	M28876/12	14
	45°	M28876/13	24
	90°	M28876/14	34



Qualified QPL-29504 pin and socket termini

Qualified Fiber Optic Termini			
Type	Military Part Number	A Dia (Microns)	Typical Fiber Type
Pin Termini	M29504/14-4131C	126.0	Multi Mode
	M29504/14-4132C	127.0	Multi Mode
	M29504/14-4135C	142.0	Multi Mode
Socket Termini	M29504/15-4171C	126.0	Multi Mode
	M29504/15-4172C	127.0	Multi Mode
	M29504/15-4175C	142.0	Multi Mode
Dummy Terminus	M29504/03-4038		

Crimp sleeve is supplied with terminus assembly and may be ordered separately (see Table II). For terminus less crimp sleeve, omit **C** from end of part number. Consult factory for additional sizes.

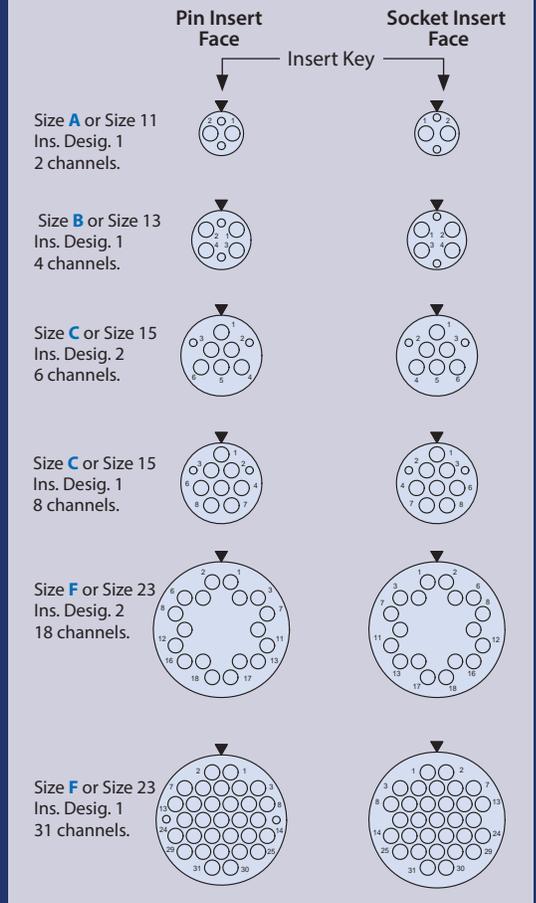


Terminated and tested MIL-PRF-28876 fiber optic cable assembly

Test Description	Performance Requirements/ Specifications
Optical Insertion Loss, Multimode	-0.3 dB Typical (62.5/125)
Optical Insertion Loss, Singlemode	-0.3 dB Typical (9/125)
Optical Back Reflection, Singlemode	Better than -40 dB - PC Polish • Better than -50 dB - Enhanced PC Polish
Operating Temperature	-28°C to +65°C (MIL-Spec Epoxy and Cable) -55°C to +125°C (alternative Epoxy and Cable)
Temperature (Thermal) Shock	-40°C to +70°C, 5 Cycles
Temperature Cycling	-28°C to +65°C, 5 Cycles
Temperature/Humidity Cycling	-10°C to +65°C, 10 Cycles, 240 hours, 98% RH
Temperature Life Aging	+110°C, 240 hours, Dry Air
Mating Durability	500 cycles
Vibration - Sinusoidal	10 g Peak, 5-500 Hz sin./ 10.2 g RMS, 50-2000 Hz random
Impact	8 Drops from 8 feet
Crush Resistance	281 lbs, 7 Cycles
Cable Pull Out Force - Termini	Termini: 22 lbs min for 1 minute Connector: 162 lbs min for 10 minutes
Fluid Immersion	Turbine Fuel, Isopropyl Alcohol, Hydraulic Fluid, Lubricating Oil, Coolant, Tap- and seawater, 24 hrs
Water Pressure	32 feet for 48 hours at +10°C to +35°C
Mechanical Shock (High Impact)	MIL-S-901, Grade A, Type B, Class I
Corrosion Resistance (Salt Spray)	500 hours
Sand and Dust	12 hours
Flammability	0.75 inch flame for 10 sec. mated, 1.50 inch flame for 60 sec. unmated

*Performance Specifications/Requirements based on the use of MIL-PRF-24792 Epoxy and MIL-PRF-85045 Simplex and Breakout Shipboard Optical Fiber.

Insert Arrangements



NAVY /
SHIPBOARD
INTERCONNECT
TECHNOLOGY

ARMORLITE™

Braided Ground Straps: Glenair Signature
and QPL Solutions for ESD, Lightning Strike,
and Electrical Power Applications



**Weight-Saving ArmorLite™
Microfilament Solutions for shipboard
and submarine equipment grounding
and bus bar applications ground strap
technologies exactly designed
with appropriate conductive
and dissipative materials for
each application.**



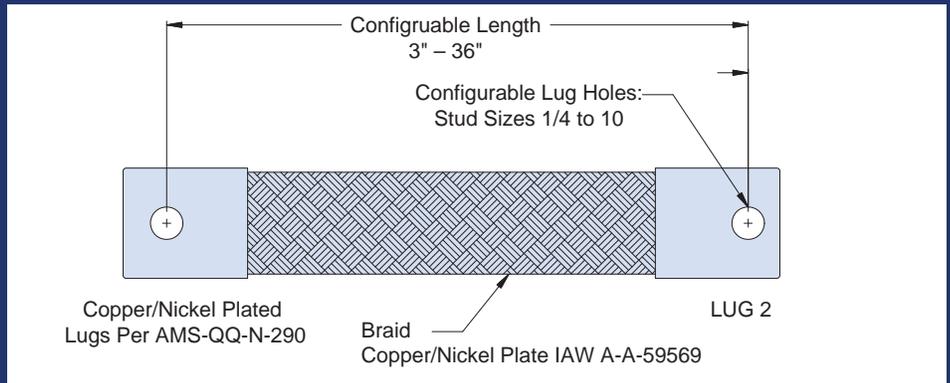
US Navy-qualified
MIL-DTL-24749 Type IV
ground strap

- Durable conductive braided straps for equipment grounding
- Highly flexible and conductive for bus bar power connections
- Exotic metal-clad microfilament braided solutions
- Heavy-duty variants for electrical potential grounding from engines, starters, and power units
- Fast turnaround on requests for unusual and build-to-print requirements

Mil-spec and Glenair Signature lightweight designs

107-086 GROUND STRAPS FOR SUBMARINE APPLICATIONS

- Materials and design in accordance with Commercial Item Description A-A-59569 for grounding bonds
- Low-profile nickel-plated copper lugs with configurable mounting hole size options
- Nickel-plated copper braid material conforms to ASTM B355

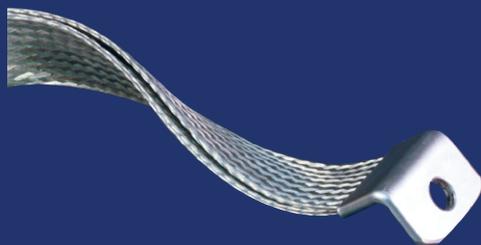


M24749 TYPE IV MIL-SPEC AND GLENAIR SIGNATURE "BETTER THAN QPL" CONFIGURATIONS



- 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

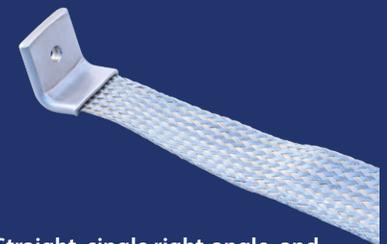
VARIABLE LUG / HOLE / STRAP CONFIGURATION OPTIONS AVAILABLE ON ALL STYLES



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

GROUND CONTROL EARTH BOND SYSTEM



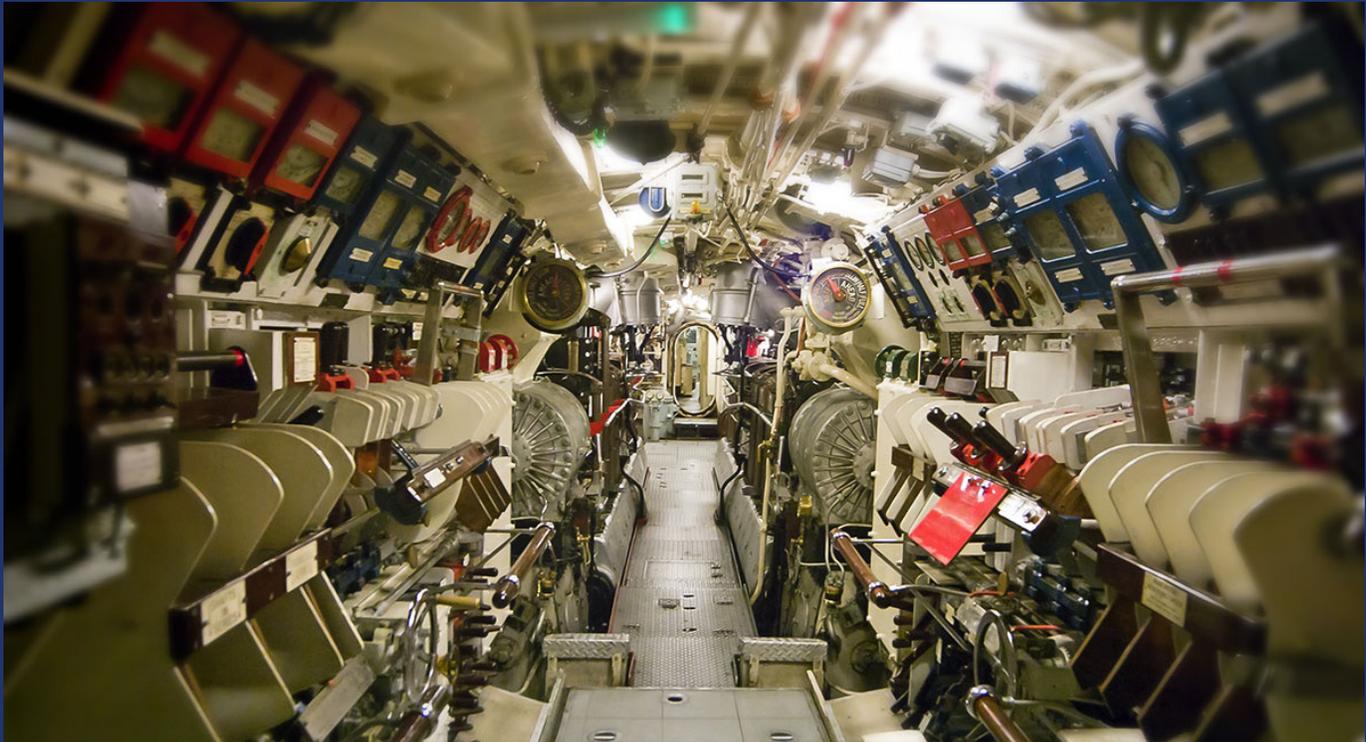
The Ground Control Earth Bonding system is an efficient, easy-to-use method to create an electrical bond between structures and equipment for the secure passage of high intensity current in case of electrical short circuit.

How To Order	
600-120	Hydraulic Setting Tool for 1/4" Earth Bonds
600-123	Hydraulic Setting Tool for 3/8" Earth Bonds
600-124	Hydraulic Setting Tool for M6 Earth Bonds
600-125	Hydraulic Setting Tool for M10 Earth Bonds

The tools feature one hand operation and ram retract mechanism actuated by release trigger. Consult factory for control gauges and earth bond part numbers for each material type and size.



US Navy Qualified Helical Metal-Core Conduit for Above- and Below-Deck Shipboard Wire Routing Applications



Improved sealing and shielding: the ultimate in highly flexible, crush-proof EMI/EMP wire protection

- Hermetically sealed, flexible metal-core conduit for shipboard wire interconnect applications
- UV-resistant "BlueJacket" jacketing over Brass, Stainless Steel, or Nickel Iron Alloy conduit
- Turnkey, factory-terminated assemblies for fast-turnaround dockside maintenance cycles
- All materials deliver superior EMC performance as well as crush resistance and environmental sealing compared to legacy systems

Glenair
SIGNATURE SERIES



Part Number
750-098



Select for superior crush resistance and corrosion protection

Highly flexible crush-proof metal conduit in stainless steel with Viton, Neoprene, or Bluejacket protective covering

Part Number
750-192



Select for low-frequency EMC protection in and around motors and control equipment

Nickel-iron conduit material plus shielding and jacketing

MIL-PRF-24758A NAVSEA-APPROVED

Metal-Core Conduit Wire Protection Systems

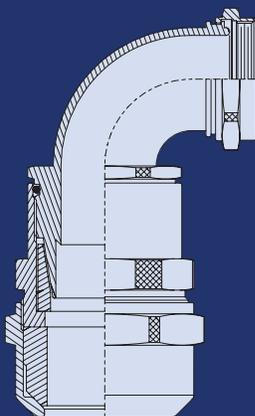


US Navy Qualified Brass, CRES, and Nickel-Iron, with Glenair Signature “BlueJacket” jacketing

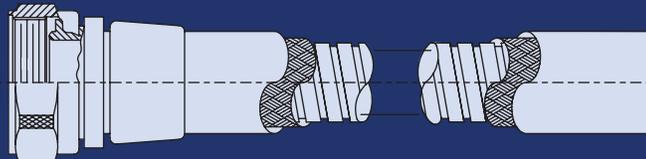


- Qualified to MIL-PRF-24758A(SH)
- User-installable and factory terminated configurations
- Innovative fitting design with advanced environmental sealing, EMI shield termination and rotatable coupling nut
- Adapters for all shipboard interfaces—fully compatible with legacy MIL-C-24758 conduit system components

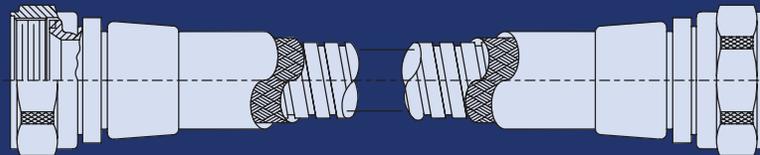
Do it once, do it right with Glenair Signature MIL-PRF-24758A wire protection conduit systems



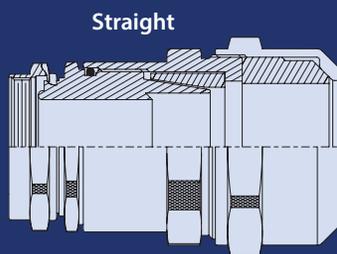
90°



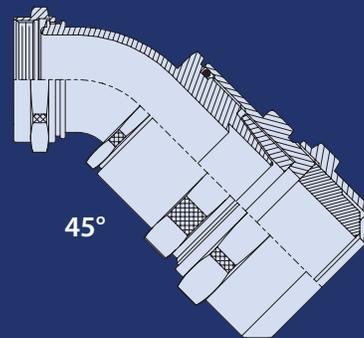
Single Ended Assembly



Double Ended Assembly



Straight



45°

MIL-PRF-24758A Configuration Options: Choose from high-performance user-installable fittings or lighter-weight factory terminated assemblies



FITTINGS AND ADAPTERS FOR USER-INSTALLED APPLICATIONS



Composite conduit splice fitting



Stainless steel conduit feed-thru fitting



Low-Profile RP Plus System



Heavy-duty environmental conduit-to-panel fitting



Heavy-duty environmental conduit-to-connector fitting

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



STAR-PAN Power / Data Hubs and Tactical Cordsets



M85049 (AS85049) Backshells and Connector Accessories



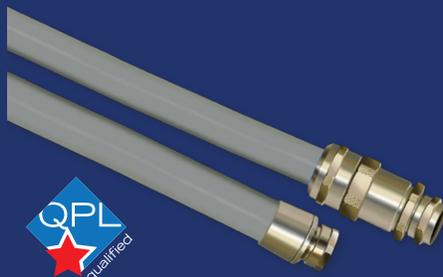
MIL-DTL-83723 Backshells and Connector Accessories



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:



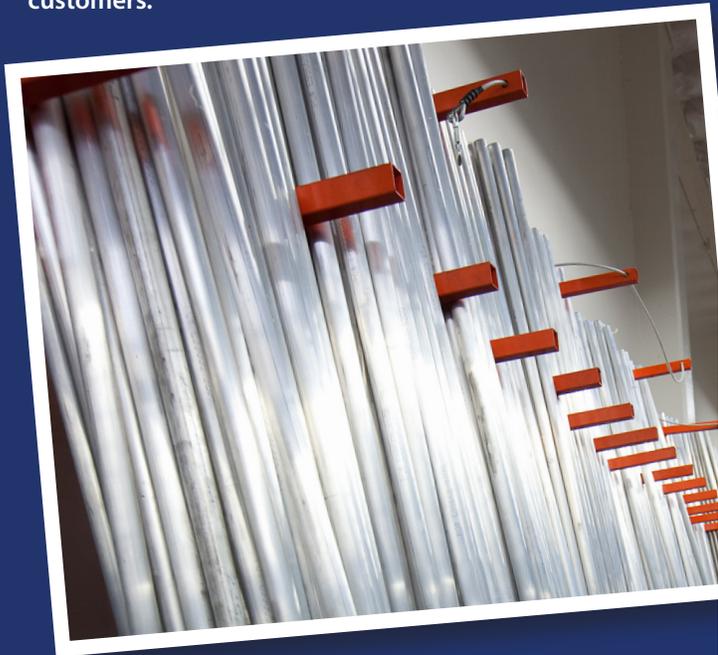
- Lightning-fast turnarounds on quotes and special orders
- Worldwide sales and technical support in every major market
- Full-spectrum, “no gap” product lines
- No dollar or quantity minimums
- ISO 9001 and AS9100 certified
- Huge same-day shipment inventory
- Generous NRE, RMA, and sample request policies
- Abundant engineering and technical support
- No attitudinal constraints when it comes to customer convenience and service



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

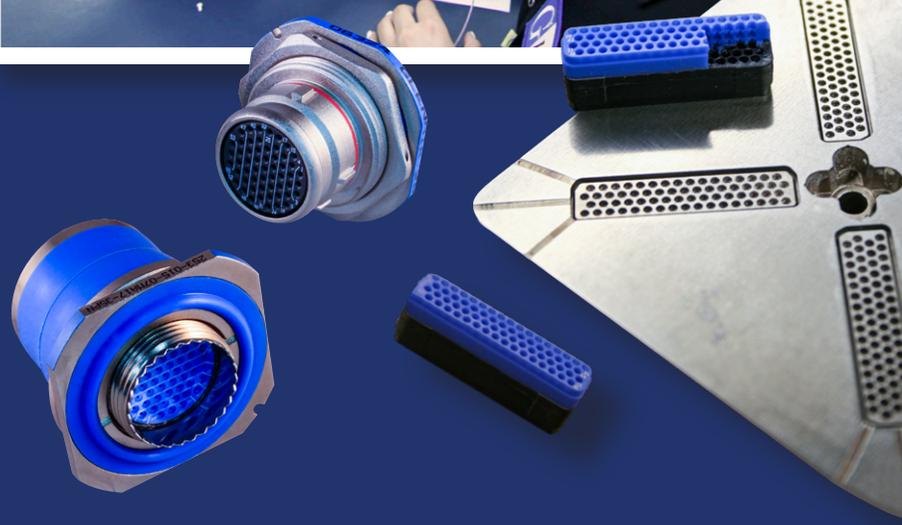
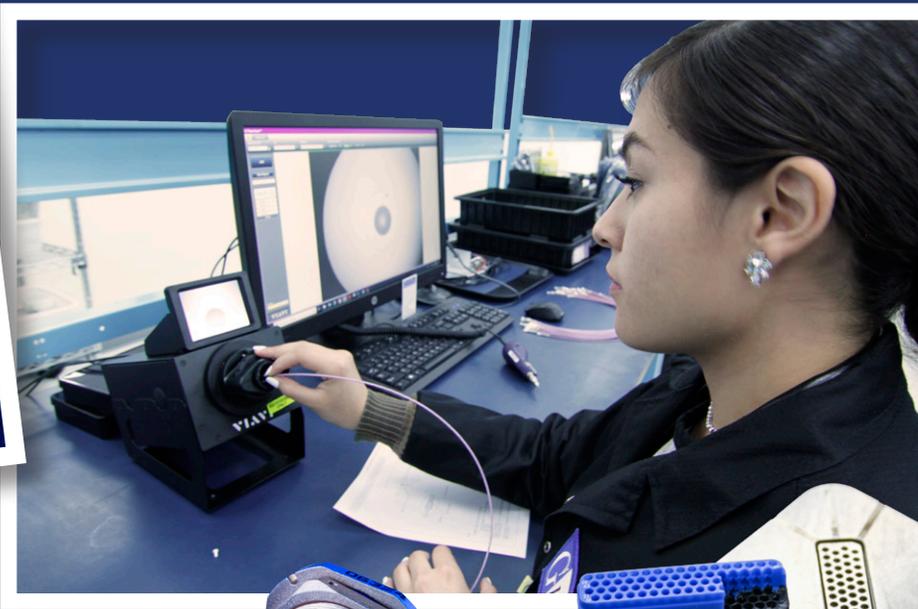


Glenair operates the largest high-reliability interconnect manufacturing operation in the United States, allowing us to fully support our broad range of military, defense, and security customers.





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.



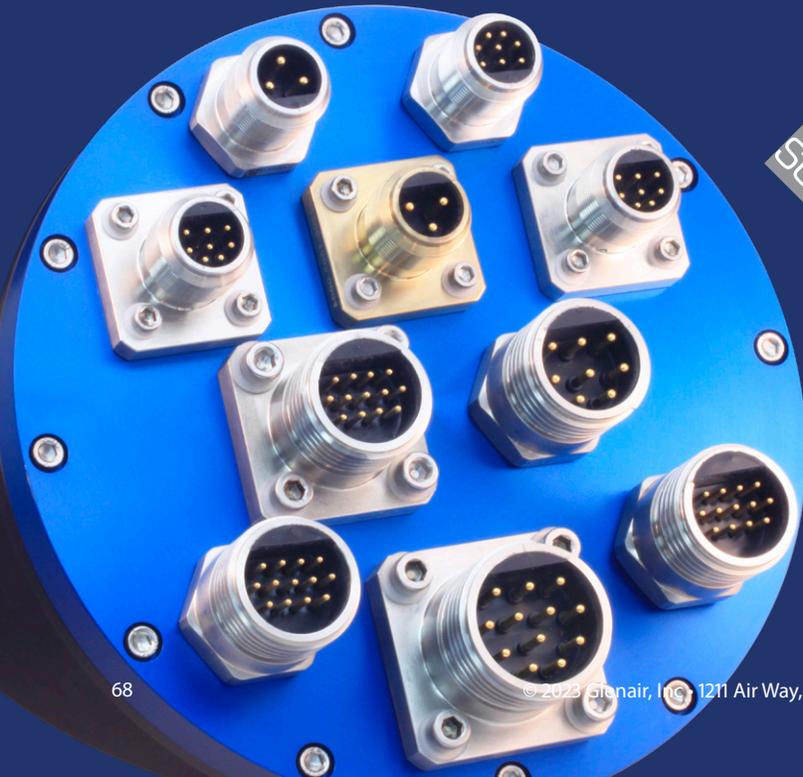
HARNESS ASSEMBLIES

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: Home of the SuperG55





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



GLENNAIR ITALIA:
 Manufacturing harsh-
 environment military,
 nuclear, rail, and industrial
 interconnects for power,
 high-speed Ethernet, and
 fiber optic 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 PLATING LINE
 Capabilities include VG95328-qualified Marine
 Bronze and "Code J" Tin-Zinc plating—VG95211
 and VG95212 qualified cadmium alternative for
 corrosion-resistant interconnects.



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.

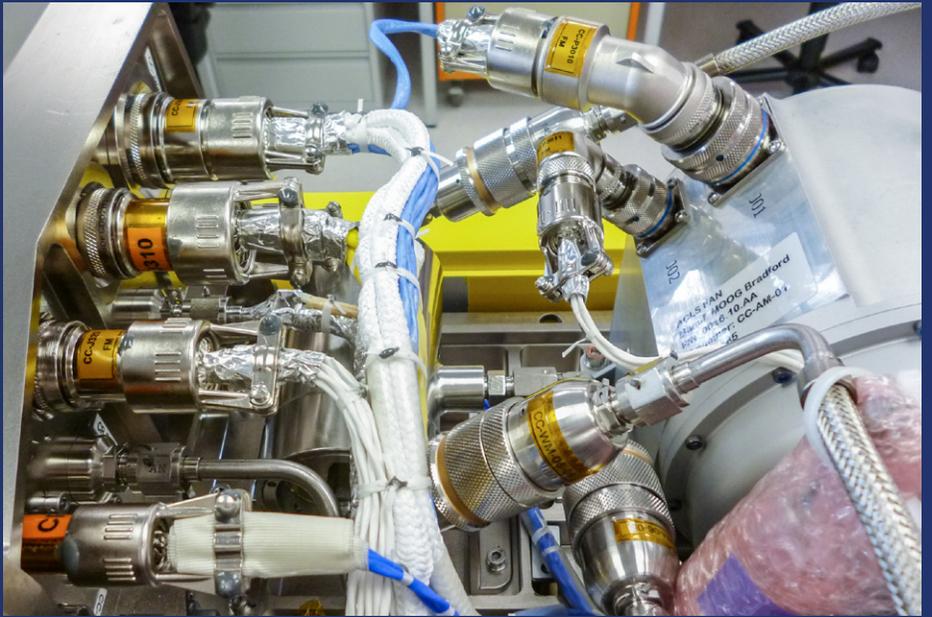


GLENAIR SPACE SYSTEMS, SALEM:
Facility includes a 600 m² production floor, 300 m² ISO 8 and ISO 6 clean rooms, an ISO 5 flow chamber (certified to ESD Standard 61340-5-1), with ample accommodation for large mock-up and integration projects.

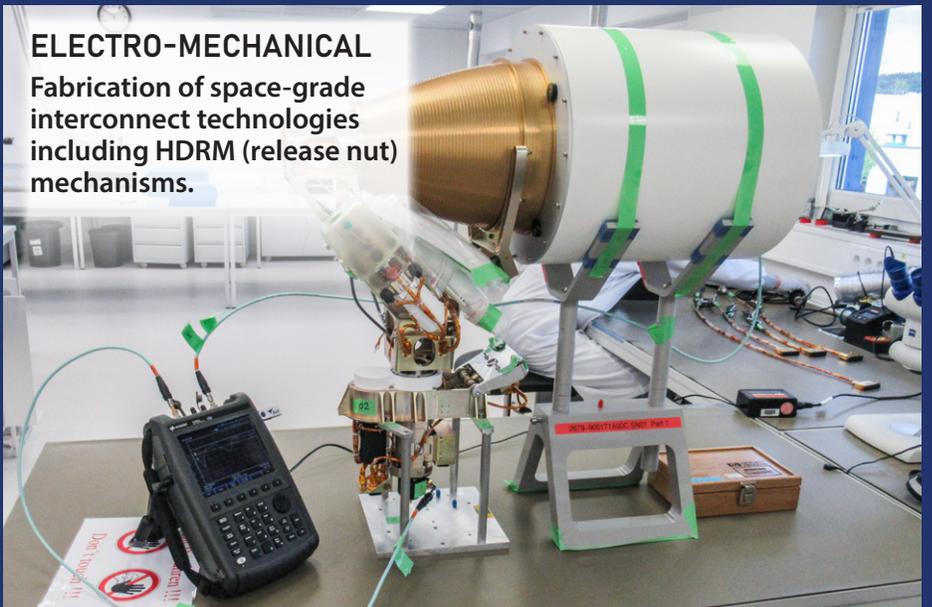




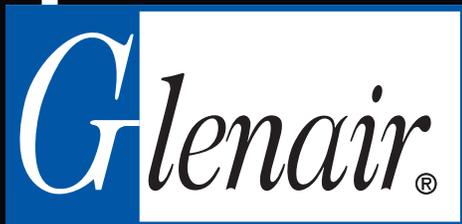
CLEAN ROOM ASSEMBLY
with both environmental
filtering and electrostatic
discharge protection.



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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