



MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



Nett Warrior
NWPAN-WP-20210223
APPROVED

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

Glenair
SIGNATURE SERIES

Warfighter Hub and Interconnect Solutions

MULTIPOINT USB HUBS · TACTICAL CONNECTORS AND CABLES

DECEMBER 2024

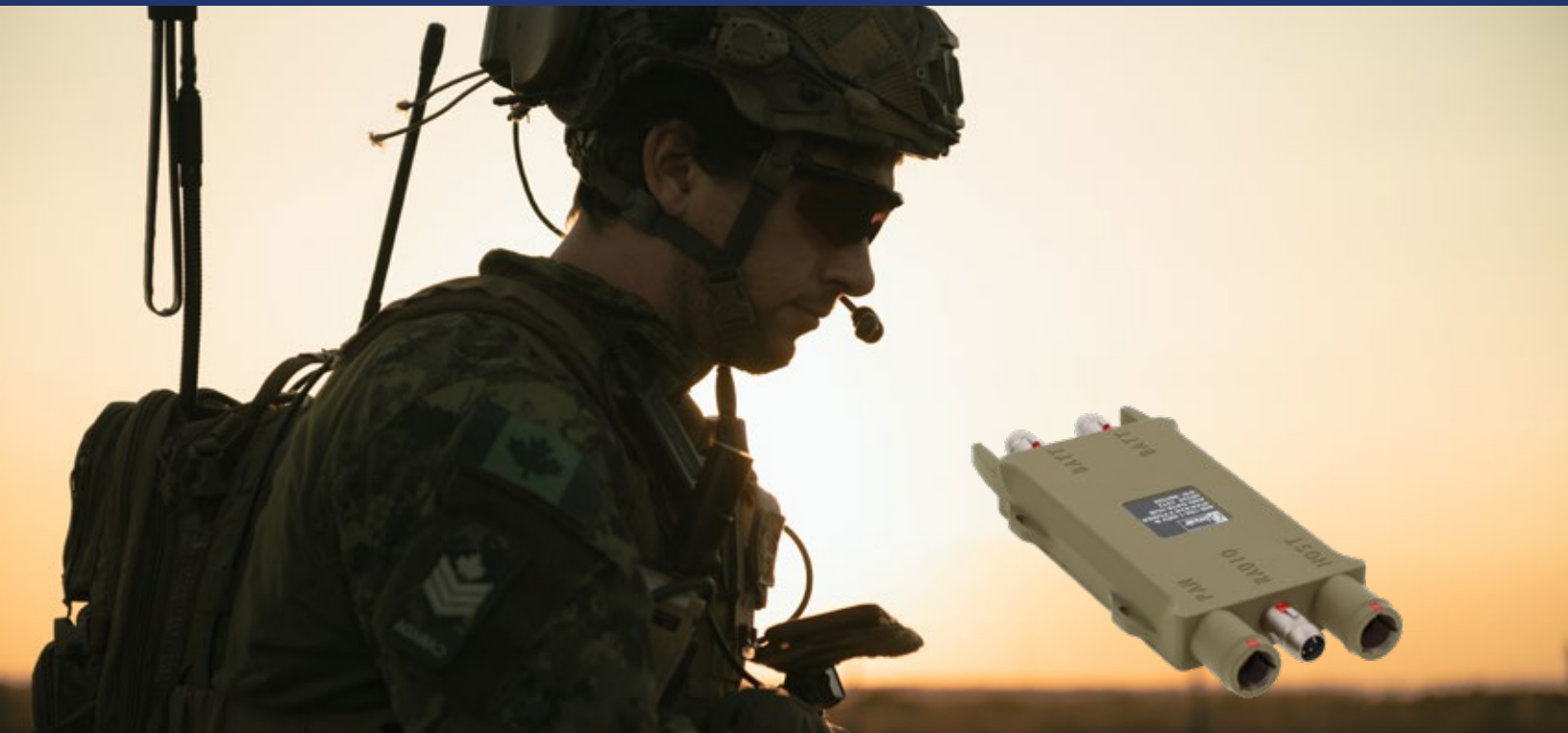


Warfighter Hub and Interconnect Solutions

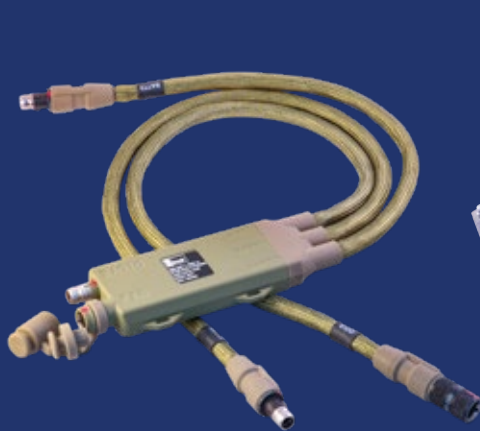
MULTIPOINT USB HUBS · TACTICAL CONNECTORS AND CABLES

Nett Warrior
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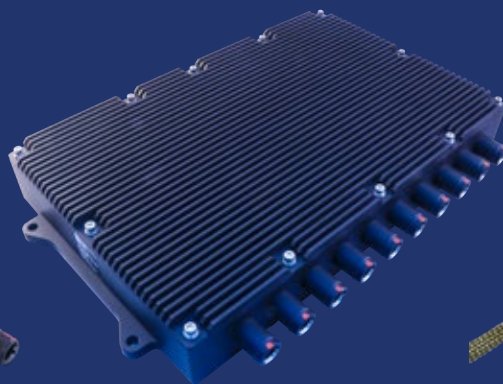
INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors



STAR-PAN SOLDIER / VEHICLE POWER AND DATA HUBS



STAR-PAN™+ baseline soldier power and data hub system



STAR-PAN™ X walk-on walk-off vehicle power and data hub system



STAR-PAN™ NG advanced next-generation soldier power and data hub system

JTAC-TOUGH™ Warfighter Hub and Interconnect Solutions



Optimized for SWaP · Proven Battlefield Performance · Nett Warrior and NATO STANAG 4695 Interoperable and Approved · In-Stock / Short Lead Time Availability

MIGHTY MOUSE NETT WARRIOR SERIES TACTICAL CABLE ASSEMBLIES



General-Purpose STAR-PAN™ System Cables



STAR-PAN™ Peripheral Device Cables



STAR-PAN™ Radio Data / Power Cables and Adapters



Special-Purpose Custom-Design Tactical Cables

MIGHTY MOUSE NETT WARRIOR SERIES TACTICAL CONNECTORS



Series 807 Mighty Mouse NETT Warrior



Series 86 SealTac™ Spring-Contact Connectors and Jumpers



Series 80 Mighty Mouse Micro Miniature Circular



Series 806 Mil-Aero Stub-ACME and Bayonet

GLENAIR SIGNATURE AND MILITARY STANDARD TYPE SMALL FORM-FACTOR TACTICAL CONNECTORS



SuperFly Nanominiature Tactical Connectors



Series 89 High-Density Nano Miniature Connectors

SuperSeal RJ45 and USB Field Connectors



SuperFly Datalink High-Speed Tactical Connectors



HiPer 55116 Tactical Audio / Radio Connectors



Mil-Qualified Interconnect Technologies

WARFIGHTER
HUB AND
INTERCONNECT
SOLUTIONS



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



JTAC-TOUGH™

STAR-PAN™ +

Relentless, ongoing innovation in baseline warfighter power and connectivity solutions

The Glenair STAR-PAN™+ data hub and power distribution system has evolved as the baseline warfighter power and data hub of choice—particularly in Joint Terminal Attack Controller (JTAC) applications. STAR-PAN™+ represents over a decade of soldier power and data hub innovation—improving situational awareness, surveillance, intelligence, and reconnaissance while optimizing power monitoring, conditioning, and distribution performance. Importantly, all STAR-PAN™+ technologies 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



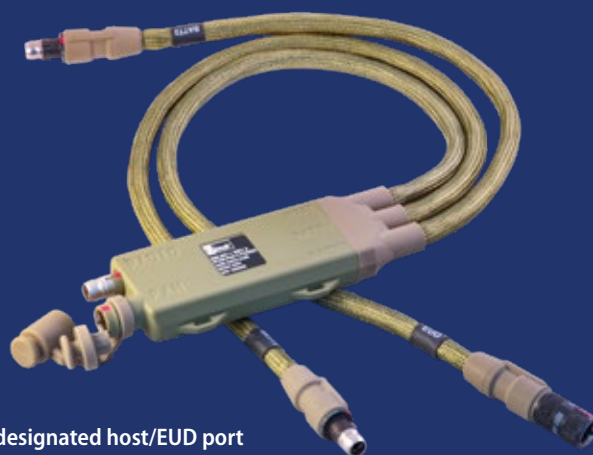
Powering soldier connectivity and C4ISR mission success with the world's most widely deployed power and data hub system

STAR-PAN™ + LIGHT FOR STANDARD SOLDIERS



- 1 designated host / EUD port
- 1 battery cable / port
- 1 designated peripheral cable / port (expandable for radio use with adapter cable)

STAR-PAN™ + II FOR ADVANCED SOLDIERS



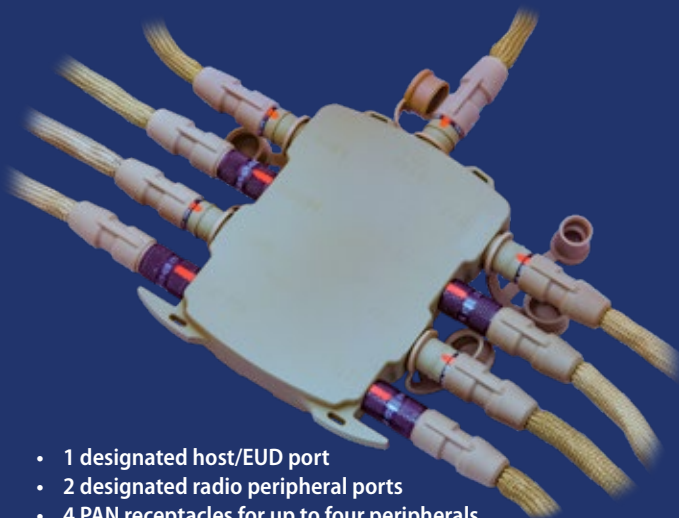
- 1 designated host/EUD port
- 1 designated radio peripheral port
- 1 expandable PAN port for up to two USB peripherals

STAR-PAN™ + IV FOR TACTICAL MISSION SPECIALISTS



- 1 designated host/EUD port
- 1 designated radio peripheral port
- 3 PAN receptacles for up to four peripherals

STAR-PAN™ + VI FOR JTAC / MISSION COMMANDERS



- 1 designated host/EUD port
- 2 designated radio peripheral ports
- 4 PAN receptacles for up to four peripherals

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



Radios



Batteries



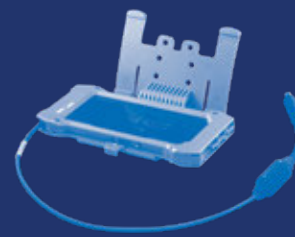
Targeting



Video



GPS



Host / EUD

WARFIGHTER
HUB AND
INTERCONNECT
SOLUTIONS



Ten-port base station
hub with universal
device charging and
data uplink capabilities



STAR-PAN™ X BASE STATION

Warfighter walk-on, walk-off
connectivity and charging device for
vehicle and other transport platforms

Integration of soldier C4ISR capabilities on an existing fleet of land, air, and maritime platforms is proving to be a challenge for many NATO members. STAR-PAN™ X 10-Port Base Station is a baseline multi-port data and power hub for platform-based soldier power and C4ISR integration. STAR-PAN X 10-port Base Station supports USB 3.2 Gen 1 high-speed data rates and 8 Amp power delivery. The unit allows soldiers to directly connect portable soldier power and data systems to the transportation platform's network for charging and data sharing—enabling soldiers to refresh critical battery power and access real-time BMS information during transport in a vehicle, helicopter, or vessel.

STAR-PAN X incorporates an embedded MISSION MANAGER with upgraded processing power enabling it to act as a tactical edge computing device running any Battlefield Management System (BMS). STAR-PAN X incorporates all STAR-PAN + standard features as well as select next-generation features including Universal Power Ports, an expanded capability Host / EUD port, and full support for USB 3.2 Gen 1 peripherals.

STAR-PAN + STANDARD FEATURES

- Compliance to both US and NATO STANAG 4695 connector interfaces
- Smart battery power management, built-in SMBus to USB conversion
- BMA-agnostic hardware
- Hot-swappable power sourcing, radio-supplied backup power support
- Water immersion IAW MIL-STD-810, IP67-rated dust/water resistant
- Intuitive equipment hookup and operation

WARFIGHTER-TOUGH STAR-PAN X Base Station



Portable base station unit for convenient vehicle-to-soldier data uplink and charging

SPECIFICATIONS

- PAN ports for up to ten soldier devices
- HDMI and Ethernet ports
- Integrated STAR-PAN MISSION MANAGER functionality
- Two USB 3.0 ports
- Three Universal Power Ports
- Glenair power port management
- Smart battery charging from auxiliary power
- Up to 5A battery power per port, 20A system total
- Up to 2A 5 Volt VBUS power per port, 10A across all ports
- Precision-machined construction, integrated connectors

STAR-PAN X BASE STATION APPLICATIONS

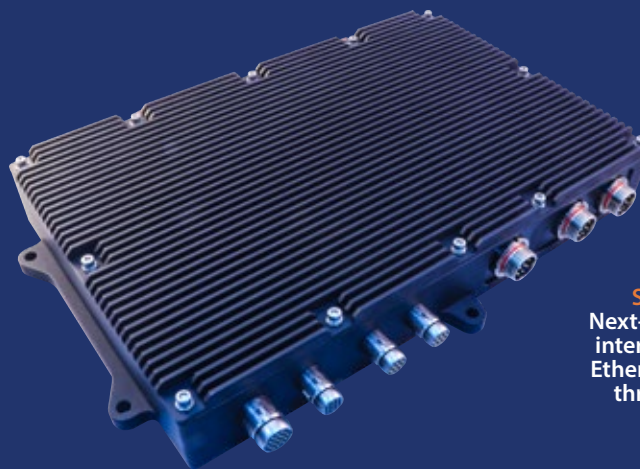
- Armored personnel carriers
- Land and air troop transports
- Landing craft and other naval vessels
- Command posts and shelters

STAR-PAN X CABLE PART NUMBERS

BB259 BATTERY CABLE ADAPTER	TS8-496
AC PWR SUPPLY CABLE ADAPTER	TS8-497
USB 3.0 CABLE ASSEMBLY	TS1-039
CAT 5E ETHERNET CABLE	TS1-040
HDMI TYPE A CABLE ASSEMBLY	TS1-041
USB 2.0 DONGLE	TS3-001
GENERAL-PURPOSE EXTENSION CABLE	TS1-069

OVERVIEW

STAR-PAN X 10-Port Base Station is a multi-port data and power hub for platform-based C4ISR integration. STAR-PAN X 10-port Base Station provides the same NATO standard interconnect interface as soldier-worn STAR-PAN systems, making it completely interoperable with the existing portfolio of cables and adapters and allowing easy soldier interconnection to the platform's data and power network. With STAR-PAN X, dismantled soldiers can connect to the vehicle power and data accessing on-board radios and sensors via a single cable connection and/or access data through the WiFi network when operating in the vicinity of the vehicle.



INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

STAR-PAN X Base Station
Next-generation vehicle network interface design includes HDMI, Ethernet, and USB 3.0 ports, plus three Universal Power Ports.



USB 3.0 Cable Assembly
TS1-039



Cat5E Ethernet Cable Assembly
TS1-040



HDMI Type A Cable Assembly
TS1-041



AC Power Supply Adapter Assembly
TS8-497



USB 2.0 Dongle
TS3-001

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



Next-generation USB-C
warfighter power and
data hub with fast-
charging universal
8 Amp power ports



WARFIGHTER-TOUGH

STAR-PAN™ NG

Next-Generation STAR-PAN Multiport USB Hub, Cable, and Power Management Systems

Glenair's next-generation power and data hub upgrade from the baseline STAR-PAN + series incorporates a broad range of new capabilities in direct response to requests from JTACs, special operations forces, mission commanders, and other military specialists. STAR-PAN NG innovations have resulted in higher current-carrying capabilities, greater versatility in power input support, and real-time plug-and-play USB device integration. Other advanced features include:

- A new 8A per-pin power connector design in the same dimensional package as our original 5 amp series 807 NATO STANAG 4695 push-pull connector. The new connector design features a retractable pin number 7 for backward-compatibility to legacy devices.
- STAR-PAN + hubs utilize dedicated power ports for battery power, auxiliary power, and radio power. New STAR-PAN NG Universal Power Ports (UPP) may be used interchangeably for any format of input or output power. The Universal Power Port interface supports both higher voltage input power and managed 5V output power to charging devices.
- STAR-PAN NG now incorporates an advanced host port with native USB-C "negotiation" and power integration—meaning power pin assignments are in conformance with the new standard, are backward-compatible to previous USB iterations, and deliver higher overall power levels. Daisy chaining of multiple USB devices for power input is also enabled via the new host port and circuit board.
- Ongoing support of evolving USB protocols requires keeping pace with higher data rates, such as the new USB 3.2 Gen 1 5Gbps standard. STAR-PAN X Base Station, our 10-port "walk-on, walk-off" vehicle / soldier hub features board upgrades and interconnect interfaces in accordance with this new data rate standard.

- Versatile 1, 2, 3, and 4 PAN port-equipped hub configurations
- Universal Power Ports with embedded power charging
- Integrated MISSION MANAGER for plug-and-play device integration
- Circuit board level USB-C power integration and delivery
- Precision-machined hub bodies, IAW MIL-STD-810 harsh-environment, IP67 dust/water resistant
- Support for 5Gb/s data transmission (STAR-PAN X Base Station only)
- Standard NG solutions and custom configurations

Export of STAR-PAN™ outside of the U.S. is controlled by the U.S. Department of Commerce Export Administration. See individual product pages for details. Consult factory for technology / hardware licensing information.

WARFIGHTER-TOUGH STAR-PAN NG



Next-generation multiport USB hub, cable, and power management systems with 8 amp power and USB-C integration

STAR-PAN NG SOLDIER HUB SELECTION GUIDE



STAR-PAN NG 1/2 P/N TS2-011
Our smallest hub with one EUD port, one pan port and two universal power ports



STAR-PAN NG 2/2 P/N TS2-012
The next step up with one EUD port, two pan ports and two universal power ports



STAR-PAN NG 3/3 P/N TS2-013
Next-generation design with one EUD port, three pan ports and three universal power ports



STAR-PAN NG 4/4 P/N TS2-014
Next-generation design with one EUD port, four pan ports and four universal power ports

STAR-PAN NG HUB SELECTION GUIDE

Part No.	Hub	Description
TS2-011	STAR-PAN NG 1/2	1X HOST; 1X PAN; 2X UPP, no PPS on HOST
TS2-012	STAR-PAN NG 2/2	1X HOST; 2X PAN; 2X UPP
TS2-013	STAR-PAN NG 3/3	1X HOST; 3X PAN; 3X UPP; w/ Charging
TS2-014	STAR-PAN NG 4/4	1X HOST; 4X PAN; 4X UPP; w/ Charging
TS2-022	STAR-PAN NG 2/2 WITH MISSION MANAGER	PORTS 1X EUD; 2X PAN; 2X UPP MM32
TS2-023	STAR-PAN NG 3/3 WITH MISSION MANAGER	PORTS 1X EUD; 3X PAN; 3X UPP MM64
TS2-024	STAR-PAN NG 4/4 WITH MISSION MANAGER	PORTS 1X EUD; 4X PAN; 4X UPP MM64



Tactical Cable Assemblies

STAR-PAN™+, STAR-PAN™ X, and STAR-PAN™ NG compatible

GENERAL-PURPOSE STAR-PAN™ SYSTEM CABLES



NETT Warrior (C1) extension cable



2-port hub expansion cable



Radio port-to-PAN port adapter cable

STAR-PAN™ PERIPHERAL DEVICE CABLES



TacROVER-P SIR 2.5 video cable



Radio adapter cable for STAR-PAN IV



PAN port to USB-A adapter cable



DAGR GPS and micro DAGR-V cable



TacROVER-P SIR 2.0 cable



PLRF-15C/25C laser range finder cable

STAR-PAN™ RADIO DATA / POWER CABLES AND ADAPTERS



RT-1922 Microlight SADL radio Cable



AN/PRC-117G radio cable



AN/PRC-161 BATS-D radio adapter



AN/PRC-148 radio adapter



AN/PRC-152A radio adapter



Harris RF-7850M sync serial adapter

SMALL FORM-FACTOR Tactical Soldier Interconnect Cable Assemblies



With Series 807 Mighty Mouse NW push-pull connectors
NWPAN-WP-20210223 approved · NATO STANAG 4695 interoperable

HARSH ENVIRONMENT OVERMOLDED



Overmolded breakout assembly featuring 100% Glenair content; a true turnkey solution



Multibranch cable assembly with Glenair Mighty Mouse, HiPer-D M24308 and customer-supplied power connector



Turnkey overmolded GPS cable assembly with integrated switch



Environmental cable with Glenair Series 804 Mighty Mouse, Series 79, and RF Coax terminations

ULTRAFLEXIBLE FABRIC OVERBRAID



Non-environmental aircraft cable with integrated circuit breakout box and Mighty Mouse 807 push-pull connectors



Heads-up display (HUD) cable with custom Series 807 Mighty Mouse and low-profile cable routing



Military jet jumper cable with user-serviceable backshells and fabric overbraid for mechanical protection



Hybrid Mighty Mouse and Micro-D aircraft pilot helmet cable assembly

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



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



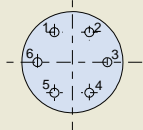
QUALIFIED FOR USE WITH
ALL STAR-PAN + AND STAR-PAN NG
POWER / DATA HUBS



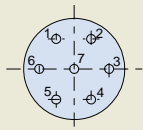
MATERIALS / FINISH

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

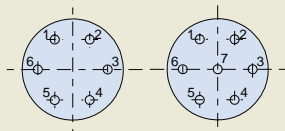
Series 807 NW Nett Warrior Connector Insert Arrangements



**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



In-line
cable plug



Panel-
mount
plug



In-line cable
receptacle



Panel-
mount
receptacle

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	

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



Mighty Mouse SealTac™ Spring Contact Push- Pull Connectors and 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

<p>06-7 shell size 6, 7 contacts</p>	<p>07-10 shell size 7, 10 contacts</p>	<p>08-19 shell size 8, 19 contacts</p>

SERIES 86 SealTac Tactical Push-Pull Connectors



Spring-pin equipped Mighty Mouse harsh-environmental

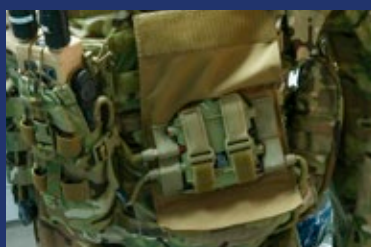
SERIES 86 SEALTAC APPLICATIONS



C4ISR soldier devices



Rugged computers and hand-helds



Power and data hubs



Tactical communications gear



Helmet quick-disconnects

CONNECTOR SELECTION GUIDE

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

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)

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



Mighty Mouse micro
miniature connector series
for optimized SWaP

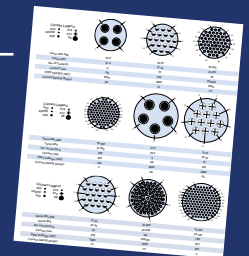


Mighty Mouse vs. 38999: less than half the size and weight.

**Mighty Mouse connectors:
Reducing the size and weight
of tactical interconnect systems
for over 25 years. The most
widely deployed mil-aero micro
miniature circular in the world.**

- 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 NEXT-GENERATION TACTICAL CONNECTOR SERIES



Low-profile COBRA
right-angle

MouseBite spring-contact
series with thumb lock

Mighty Mouse Series 807
Nett Warrior

Mighty Mouse 3.2
USB-C Gen 1

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS

SERIES
806
MIL-AERO

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



Two mating styles available:
Triple-start stub ACME and
bayonet-lock

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**

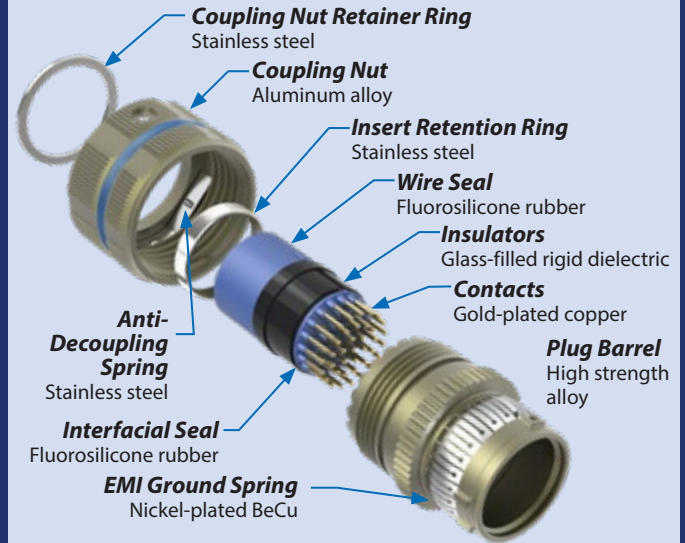


AVAILABLE LIGHTWEIGHT ALUMINUM “CODE RED” HERMETICS

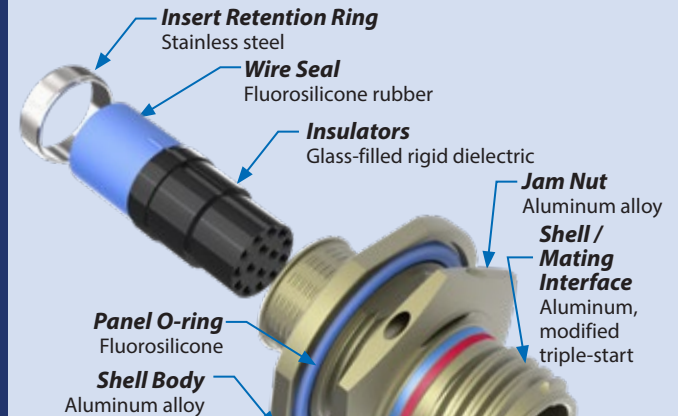
CODE RED is a lightweight encapsulant sealing and assembly process with 50% package-weight savings compared to glass-to-metal seal Kovar/stainless steel solutions. Non-outgassing CODE RED (IAW NASA/ESA) provides durable hermetic sealing with 1×10^{-7} leak rate performance. Gold-plated copper contacts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



SERIES 806 MIL-AERO PLUG

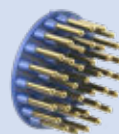


SERIES 806 MIL-AERO RECEPTACLE



SMALLER AND LIGHTER WITH EQUAL D38999 PERFORMANCE?

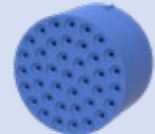
High-Density Layouts
Twice as many contacts in a smaller package



“Top Hat” Insulator
High voltage rating, foolproof alignment



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



WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



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

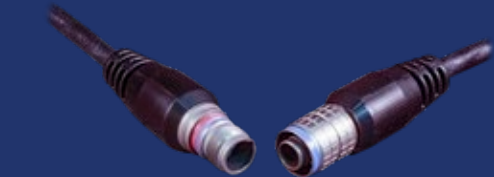
SERIES 88

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						COMBO 1 AMP & 5 AMP			
D3M (3) 3A	E4M (4) 3A	F7M (7) 3A	G10M (10) 3A	K19M (19) 3A	L22M (22) 3A	D2W2N (2) 1A, (2) 5A	F4W4N (4) 1A, (4) 5A	H6W14N (14) 1A, (6) 5A	J7W19N (19) 1A, (7) 5A

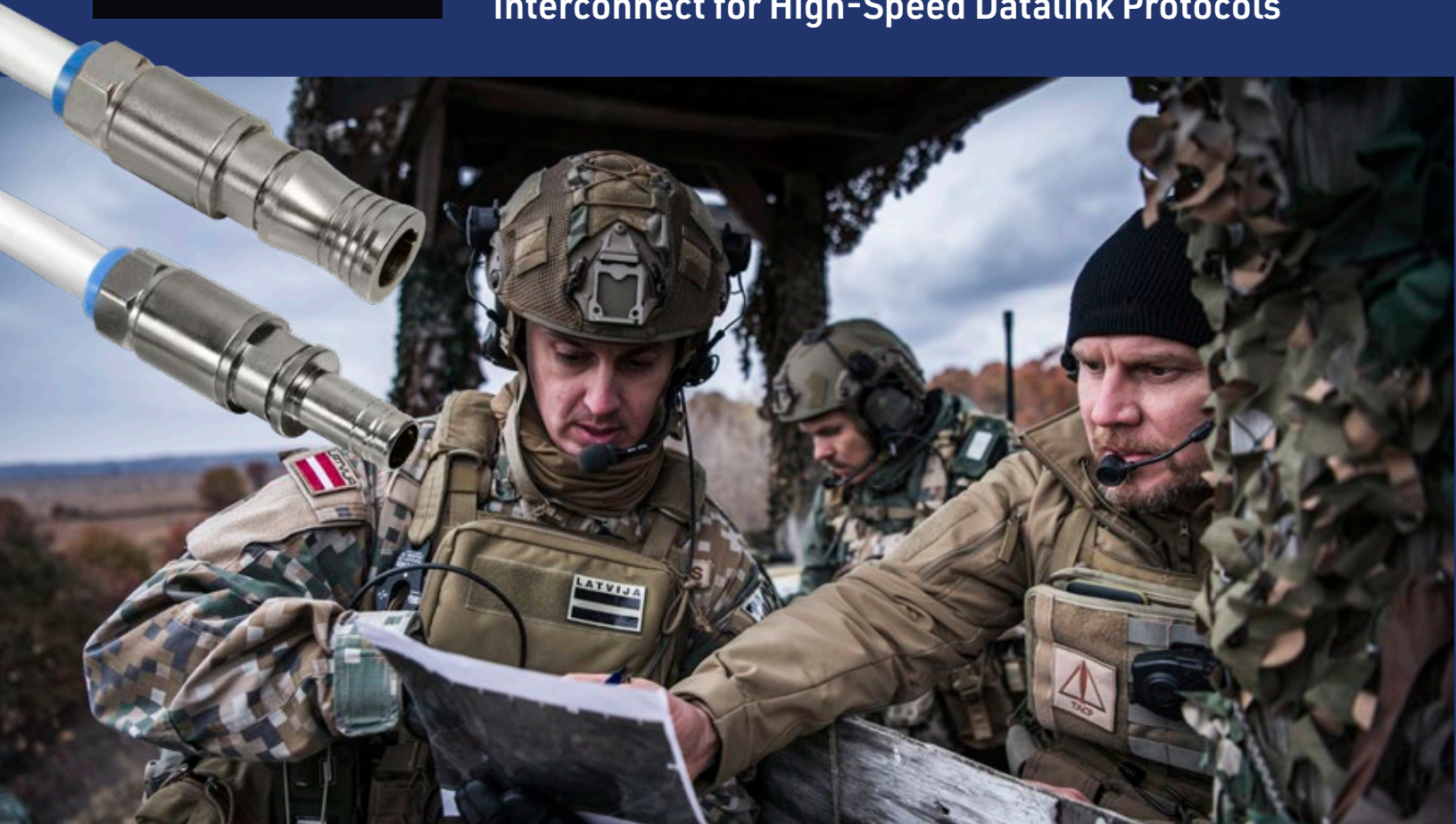
5 AMP CONTACTS				COMBO 1 AMP & 3 AMP					
E3W (3) 5A	F4W (4) 5A	G7W (7) 5A	H10W (10) 5A	C2M2N (2) 1A, (2) 3A	E4M4N (4) 1A, (4) 3A	F4M8N (8) 1A, (4) 3A	G6M10N (10) 1A, (6) 3A	G6M12N (12) 1A, (6) 3A	K13M19N (19) 1A, (13) 3A

WARFIGHTER
HUB AND
INTERCONNECT
SOLUTIONS

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

SERIES 882 SuperFly[®] Datalink



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

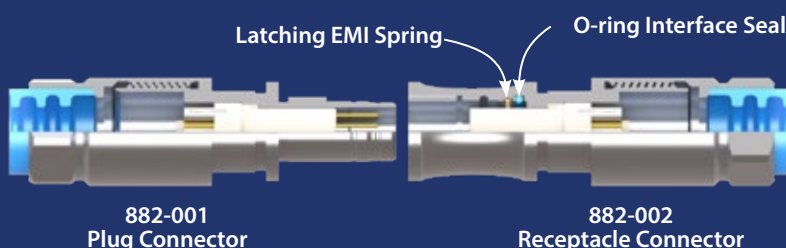
SUPERFLY DATALINK

The High-Speed Ultraminiature Connector for Harsh Environments



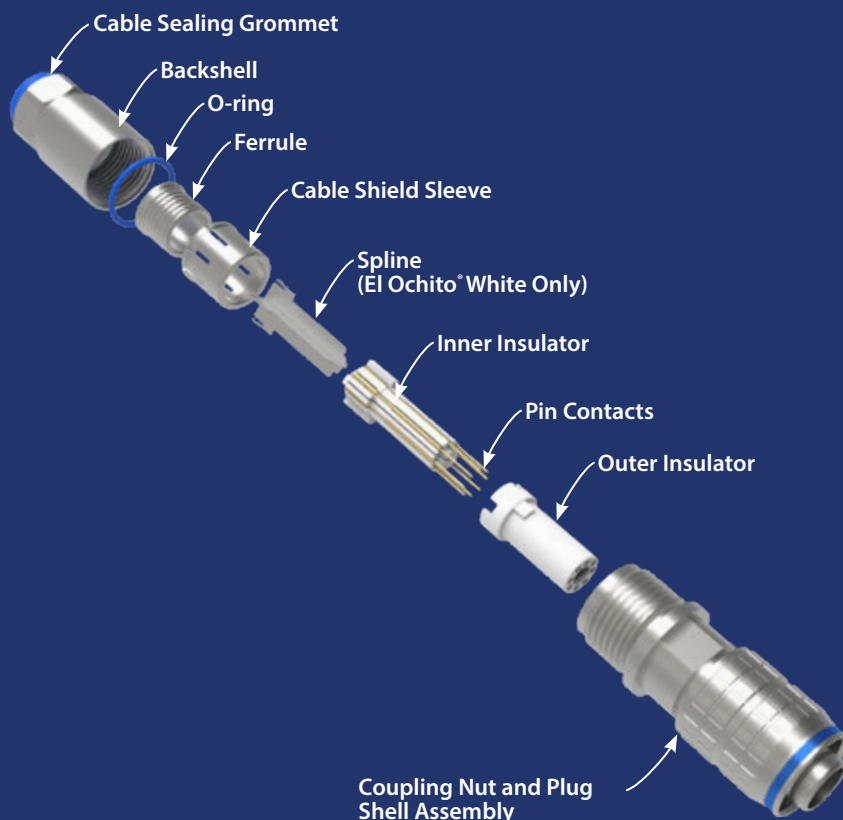
- Ultra-small size
- Shielded Octaxial contacts
- Combo arrangement for HDMI 2.0 and DisplayPort 1.2
- 40Gb Ethernet, SATA and SuperSpeed USB
- Up to 10 Gbps per pair
- PCB or cable termination
- Threaded or Quick-disconnect
- Environmentally protected
- Aerospace-grade performance
- Panel-mount connectors 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.

WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



Glenair Signature MIL-DTL-32139 type Nano miniature circular connectors



Glenair Nano Circular—the smallest and lightest harsh-environment connector in the business. From left to right: D38999 Series III, Mighty Mouse Series 805, Glenair SuperFly, and Nanominiature Series 89 Nano Circular—all with similar pin count

The M32139 Nano circular is the smallest and lightest harsh-environment connector in the business. 1 Amp contacts are set on .025" centers and terminated to 30 AWG wire or PCB tails. Glenair supplies both breakaway and threaded mating configurations with optimal size and weight reduction (SWaP).

- Push-pull and threaded mating
- Metal shell: aluminum or stainless steel
- High vibration and shock gold alloy TwistPin contact system
- Prewired pigtails and PCB thru-hole
- Straight and right-angle thru-hole 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



Optimal SWaP for tactical warfighter applications

High density nano · signature TwistPin contacts · cable and PCB

PRODUCT SELECTION GUIDE AND PERFORMANCE SPECIFICATIONS

Pre-wired and PCB thru-hole mount circular nano plug and receptacle connectors with threaded or breakaway interfaces. Available receptacle mounting configurations include front panel mount, rear panel mount, and inline.

	892-007 Breakaway Plug		892-005 Inline Threaded Receptacle
	892-004 Inline Breakaway Receptacle		892-001 Front Panel Mount Threaded Receptacle
	892-000 Front Panel Mount Breakaway Receptacle		892-003 Rear Panel Mount Threaded Receptacle
	892-002 Rear Panel Mount Breakaway Receptacle		893-009 Rear Panel Mount, Threaded Receptacle with PC Tails
	893-008 Rear Panel Mount, Breakaway Receptacle with PC Tails		893-011 Rear Panel Mount, Threaded Receptacle with Right-Angle PC Tails
	893-010 Rear Panel Mount, Breakaway Receptacle with Right-Angle PC Tails		899-013, 899-014, 899-016 and 899-017 Threaded and Breakaway Circular EMI Covers
	892-006 Threaded Plug		600-189 Spanner Nut Socket drive for rear panel mount circular connectors

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

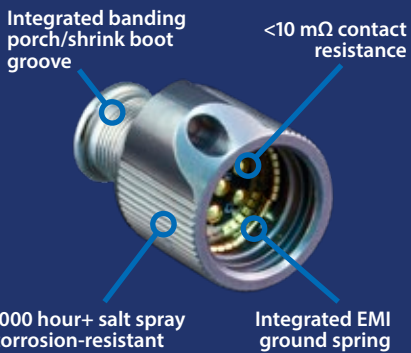
WARFIGHTER
HUB AND
INTERCONNECT
SOLUTIONS

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



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



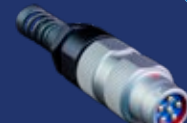
151-001 MIL-DTL-55116 QPL
audio plug with wire strain relief



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

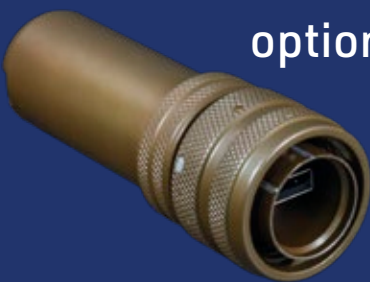
WARFIGHTER HUB AND INTERCONNECT SOLUTIONS



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 available for USB SuperSpeed 3.0



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

- 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

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

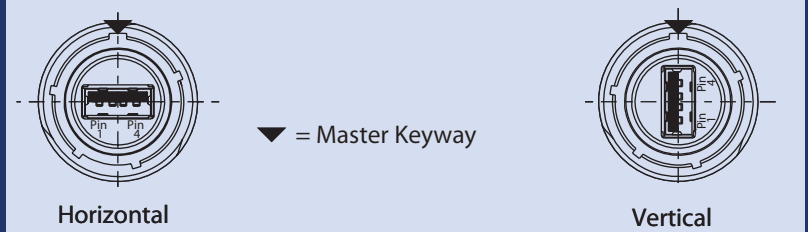


USB 3.0 male
Type A

USB 3.0 female
Type A

USB 3.0 male
Micro B

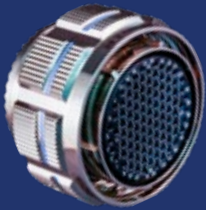
USB ORIENTATION OPTIONS



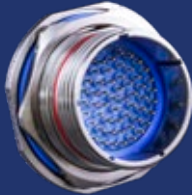
Glenair Mil-Spec Interconnect Technologies



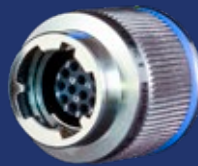
Qualified Products: Glenair is a Mil-Aero connector supplier. Our product quality begins in engineering (the largest team in the high-performance interconnect business) and is realized in our “made in the USA” vertically-integrated manufacturing cells. One of the key ways we ensure both areas are functioning 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



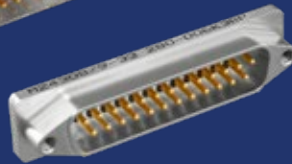
MIL-DTL-28840 Shipboard Connectors and Accessories



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



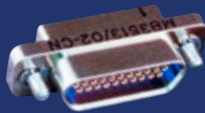
MIL-DTL-24308 Hermetic Connectors



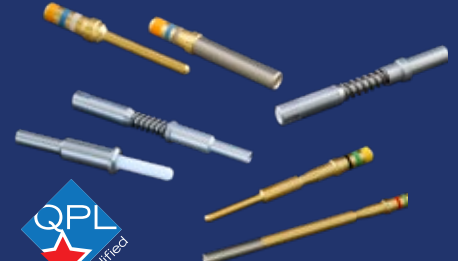
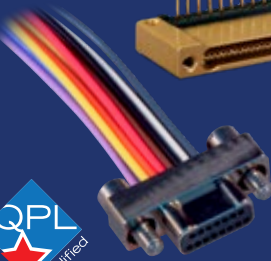
MIL-DTL-28876 Shipboard Fiber Optic



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



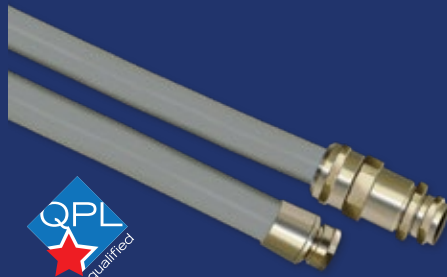
MIL-DTL-83723 Backshells and Connector Accessories



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

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



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





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





SAME-DAY SHIPMENT STOCKING

Immediate availability for high-demand connectors and tooling.



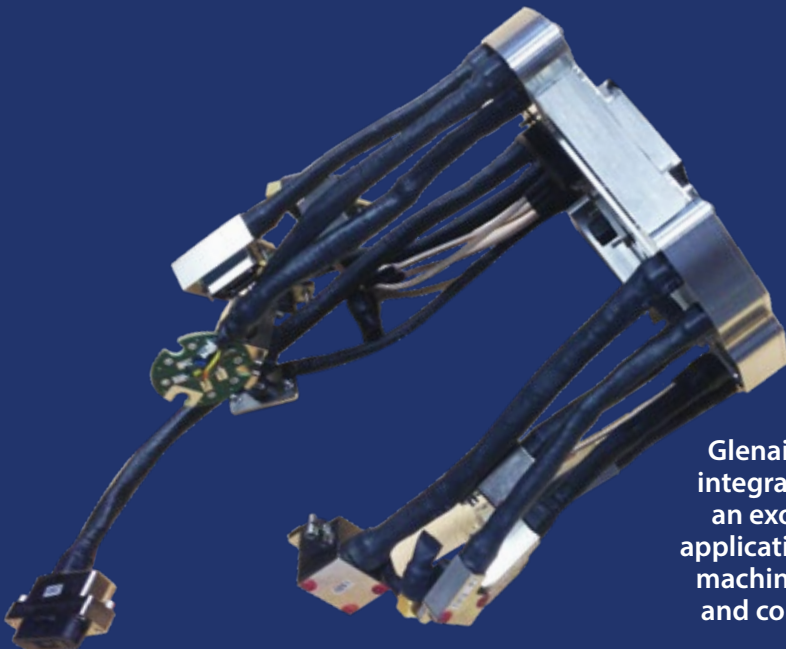
HARNESS ASSEMBLIES

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



IN-HOUSE TESTING CAPABILITIES

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



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





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

GLENAIR ITALIA:

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



HIGH-CAPACITY CNC MACHINING CENTERS

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



ADVANCED HERMETIC SEAL AND CONNECTOR PLATING CAPABILITIES

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



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



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

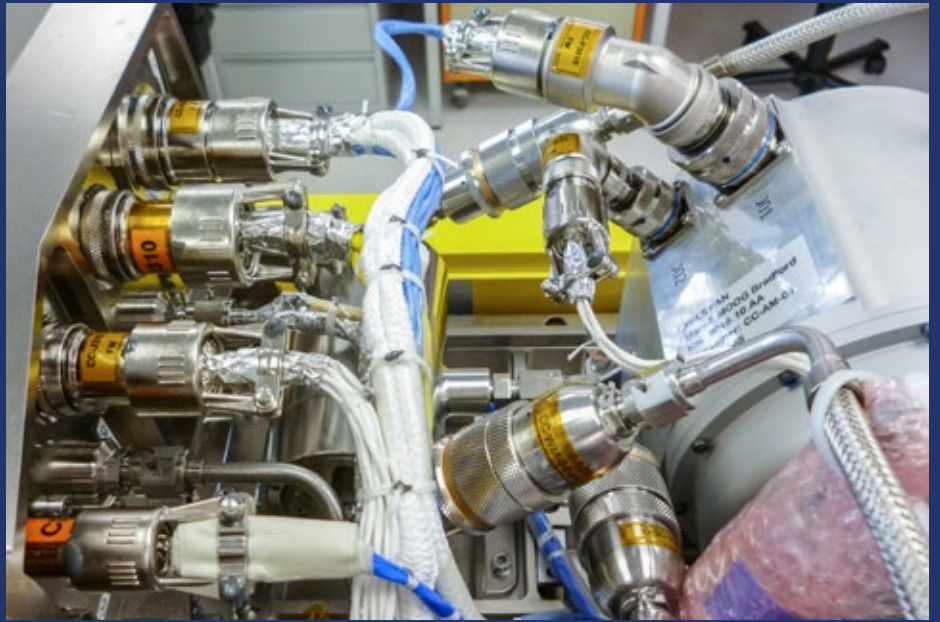


GLENAIR SALEM:

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



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



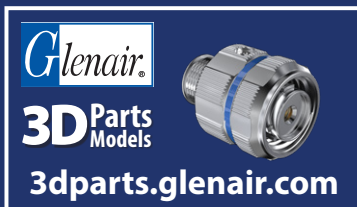
SPACE-GRADE HARNESS FABRICATION AND INTEGRATION
In-house or at customer facility.



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



MISSION-CRITICAL INTERCONNECT SOLUTIONS



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