

The widest range of
mission-critical interconnect
technologies in the world



**POWER
TRIP®**



Glencair®

**Series 970 PowerTrip®: The Next-Generation
Power Connector for Extreme Environments**

Series 970 PowerTrip®

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

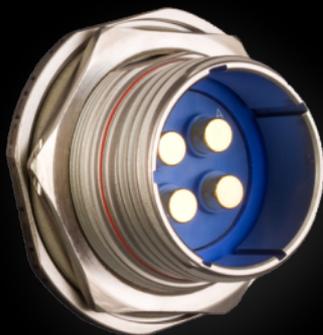


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MIL-DTL-5015
power arrangements

+



MIL-DTL-38999
high-density, precision-
machined packaging

+



MIL-DTL-28840
Navy/shipboard sealing
and accessory
attachment

=



PowerTrip™

Series 970 PowerTrip®



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DESIGNER'S CHECKLIST

✓	Triple-Start ACME Threads
✓	Watertight Rubber Seals
✓	High Shock and Vibration
✓	High Temperature
✓	EMI Protection
✓	High Durability
✓	Low Resistance
✓	Crimp, Snap-In Contacts
✓	No. 1/0, 4 and 8 AWG
✓	Improved Backshell Interface
✓	Nickel-PTFE Plating

Series 970 PowerTrip® Specifications



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SPECIFICATIONS

Current Rating	Up to 400 A per contact
Dielectric Withstanding Voltage	2000 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +200° C.
Shock	300 G
Vibration	43 G at 175° per D38999
Shielding Effectiveness	65 dB minimum from 1GHz to 10GHz.
Durability	2000 mating cycles

MATERIALS AND FINISHES

Shells, Jam Nuts	Aluminum alloy, stainless steel or marine bronze
Contacts	High conductivity copper alloy, gold or silver-plated
Insulators	Glass-reinforced epoxy
Contact Retention Clip	Beryllium copper alloy
Seal, O-rings, Grommet	Fluorosilicone rubber
Spring	Nickel-plated beryllium copper

Series 970 PowerTrip® Benefits



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- Provides high power in the smallest form factor
- Improved mechanical, electrical, and environmental performance from general Mil-Spec parts
- Versatile, fulfills many different applications
- Fast, easy mating 360° turn for full mating
- Reduced size and weight compared to 5015/VG95234 solutions
- LouverBand sockets for improved current
- 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

Series 970 PowerTrip®

Comparison to D38999 and 5015



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	D38999	5015	PowerTrip™
Shell Size	9, 11, 13, 15, 17, 19, 21, 23, 25	8, 10, 12, 14, 16, 18, 20, 22, 24, 28, 32, 36, 40, 44, 48	18, 20, 24, 28, 32, 36, 40, 44
DWV (Sea Level)	SERVICE RATING M - 1300 SERVICE RATING N - 1000 SERVICE RATING I - 1800 SERVICE RATING II - 2300	INSTRUMENT - 1000 SERVICE RATING A - 2000 SERVICE RATING D - 2800 SERVICE RATING E - 3500 SERVICE RATING B - 4500 SERVICE RATING C - 7000	2000 VOLTS
Mating Cycle	500 CYCLES, EXCEPT 1500 CYCLES FOR CONTACT STYLE "H" OR "J"	100 CYCLES, EXCEPT 500 FOR AS34591 CONNECTORS	500 CYCLES

Series 970 PowerTrip®

Selection guide

- Cable-mount plugs and receptacles
- Panel-mount receptacles
- Filtered receptacles
- Environmental and hermetic feed-thru bulkhead receptacles



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Cable Mount Plugs and Receptacles



Panel Mount Receptacles



Feed-Thru Bulkhead Receptacles



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Special configurations and assemblies



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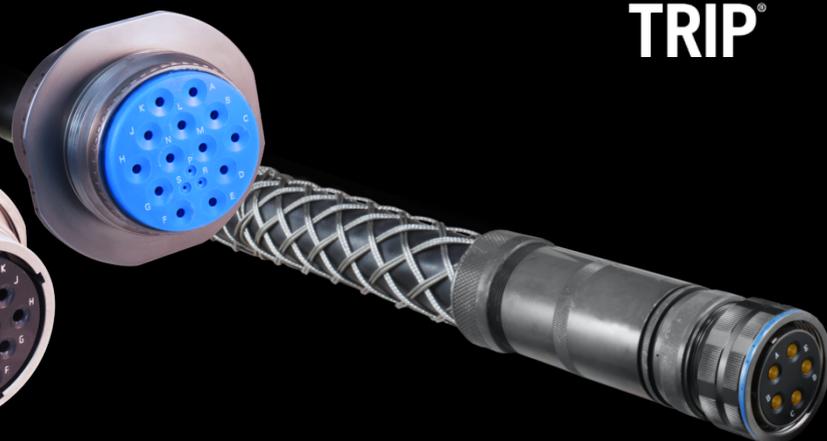
Flex
termination



Hermetically
sealed



Blind mate



Cable with
Kellums grip

Series 970 PowerTrip®

The LouverBand Contact

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



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Series 970 PowerTrip®

The LouverBand Contact: Benefits

- Generates multiple contact points between two conducting surfaces
- Provides consistent and stable force after thousands of mating cycles
- Lowers contact resistance



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