*HIGHER POWER, SMALLER SIZE*

# Super ITS - 921

## Ultra high-performance reverse-bayonet power connectors

Reverse-bayonet derivatives of M5015 / VG95234 threaded connectors have long been preferred for their rapid mating and rugged resistance to vibration and shock in harsh-environment applications such as military vehicles and missile batteries. Now Glenair introduces an ultra high-performance version of the reverse-bayonet M5015 / VG95234 power connector called the Super ITS - 921. This series is designed for high-ampacity applications where low insertion force LouverBand type contacts, mechanical contact retention, broad temperature tolerance, reduced size, and superior connector and wire sealing is required.

Super ITS - 921 is reduced-size, environmentally-sealed (IP69K) connector, incorporating familiar MIL-5015 contact insert arrangements. Unlike conventional 5015-type connectors designed for industrial and rail applications, the Super ITS - 921 offers uncompromised electrical, mechanical, and environmental performance features such as precision-machined aluminum alloy or stainless steel shells with 2000 mating cycle lifespan, rigid thermoset two-piece insulators, and machined, highly conductive copper alloy LouverBand contacts. Designed for extreme harsh environments such as are found in military defense applications, the Super ITS - 921 delivers contact and wire support from #16 to 2/0 and 1 mmq – 70 mmq respectively (contact genders are also reversible between plugs and receptacles). With improved working voltage up to 350 amps, and a max working voltage of 2450 VCC / 1750 VCA, the Super ITS - 921 represents the ultimate in mission-critical power interconnection.

- **Super ITS-921 is a high-ampacity reverse-bayonet connector with reduced size compared to standard M5015**
- **Low insertion force, high-ampacity front-release LouverBand contacts**
- **Precision-machined thermoset insulator with internal contact retention clips**
- **Precision-machined shells with polarization keys to prevent mis-mating**
- **Interfacial and individual wire sealing for IP67 performance**
- **Broad operating temperature range: -65° to +180°C**
- **2000-cycle reduced insertion-force mating**



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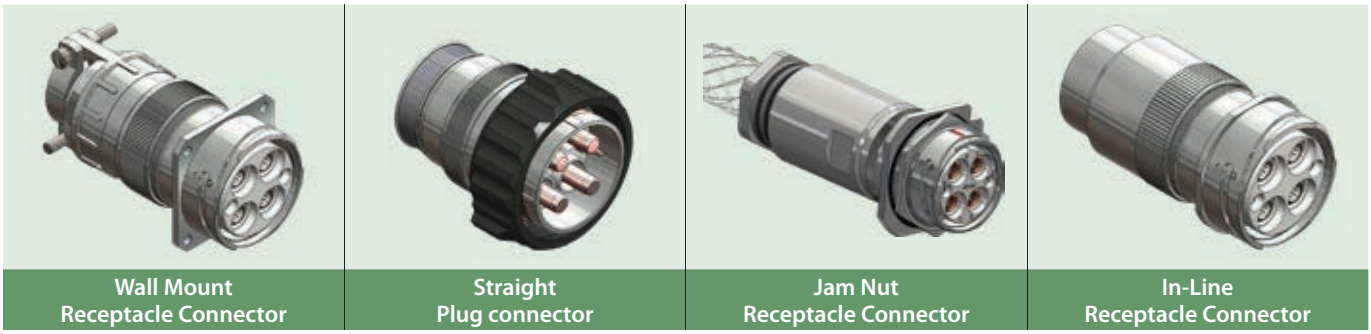
Dimensions in millimeter (inches) are subject to change without notice.

*ADVANCED PERFORMANCE*

# Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors

## Series Overview

### SUPER ITS - 921 CONNECTOR SELECTION GUIDE



| Wall Mount Receptacle Connector | Straight Plug connector | Jam Nut Receptacle Connector | In-Line Receptacle Connector |
|---|---|---|---|

### LOUVERBAND CONTACT PAIR CURRENT RATING AND RESISTANCE

| Contact Size | Wire Size | Current Rating at 20° C (Amperes) | Current Rating at 80° C (Amperes) | Max. Contact Resistance (milliohms) |
|---|---|---|---|---|
| 16 | 16 | 25 | 15 | 6.0 |
| | 20 | 10 | 9 | |
| 12 | 12 | 50 | 28 | 3.0 |
| | 14 | 40 | 20 | |
| 8 | 8 | 90 | 70 | 1.0 |
| | 10 | 70 | 55 | |
| 4 | 4 | 160 | 130 | 0.5 |
| | 6 | 120 | 105 | |
| 1/0 | 1/0 | 300 | 250 | 0.3 |
| | 2/0 | 330 | 280 | 0.3 |

### PERFORMANCE COMPARISON: STANDARD ITS VS. SUPER ITS - 921

| Performance Feature | ITS | Super ITS - 921 |
|---|---|---|
| Mating Cycles | 500 | 2000 |
| Mating Face Sealing | Front O-Ring | Sealing O-Ring |
| Polarization Key | No | Yes |
| Power Contacts | Copper Alloy | LouverBand Higher Ampacity. L.i.f. |
| Insert | Rubber | High Temp/Rigid Insert + Internal Clip |
| Grommet | Rubber | Individual Contact Seal (Silicon) |
| Hard Anodization | No | Yes |
| Temperature Range | -55° – +125°C | -65° – +180°C |
| Working Voltage | MIL-C-5015 | MIL-C-5015. EN50124. VDE 0110-1 |





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