

OPTIMIZED
FOR USE WITH

turboflex
THE ULTRA FLEXIBLE RUGGED POWER CABLE

ITS 500 Series · ITS 901 Series · Series UJ Rugged high-current / high-voltage connectors for metro traction motor / jumper cable applications



ITS 500 SERIES REVERSE BAYONET SINGLE-POLE HIGH VOLTAGE JUMPER CONNECTORS

ITS 500 Series derives from the VG96929 military specification for power connectors. Suitable for harsh environmental conditions, ITS 500 accepts cable gauges AWG 3/0 to 444MCM (95-240 mmq), for current up to 750 Amps.

Special insulator drawing allows high working voltage, up to 3000 VCC.

Suitable for jacketed cables, with or without conduit protection.

Receptacle with finger protection (load side).

ITS 500 meets the most important rail requirements and specifications:

- 500 Mating Cycles
- Salt Spray Test Corrosion: 500 hours
- Shock and vibration for under-car and car-to-car applications
- IP67 Sealing (Coupled Connectors)
- Fire Resistant and RoHS-compliant materials



Single-pole
plug connector
with castellated
coupling nut



Single-pole
receptacle
connector



Standard and
proseal-style
protective covers



HIGH-CURRENT / HIGH-VOLTAGE ITS Specialty Power Connectors for Mass Transit Traction Motor Applications



Series ITS 901 · Series ITS 500 · Series UJ

ITS 901 SERIES REVERSE BAYONET MULTI-POLE MEDIUM VOLTAGE JUMPER CONNECTORS



Reverse-bayonet panel-mount receptacle connector



Wide range of available backshell accessories



Reverse-bayonet plug with castellated coupling nut



Reverse-bayonet plug with RadGrip coupling nut



Reverse-bayonet plug with wing-lock mechanism

ITS 901 Series is the extension of the ITS Reverse Bayonet connector family, for power cables over AWG 1/0. Suitable for harsh environmental conditions, 901 Series Connectors accept cable from AWG 4 to 262 MCM (35 - 120 mm²), for current up to 450 Amps. Working voltage is from 800 - 1000 VAC. Available for single wires and multipole jacketed cables, with cable clamp or conduit.

Male contacts offer Finger Test Protection, Load Side (receptacle or plug). Long bayonet ramps, three polarization keys, and rubber recovered coupling facilitate mating and unmating operations. Plug connectors are available with coupling nut castellations or with special wing lock mechanism to prevent accidental de-mating.

901 Series meet the most important rail requirements and specifications:

- Salt Spray Test Corrosion: 500 hours;
- 500 Mating Cycles;
- Shock and Vibration for Under-Car and Car-To-Car Applications;
- IP67 Sealing (Coupled Connectors);
- Fire Resistant and RoHS Compliant Materials.

UJ SERIES UNIPOLE POWER JOINT CONNECTOR SYSTEM



3-position configuration



2-position configuration

The Glenair UJ Power Joint system allows connection of medium and high power cables without the need for bulky junction boxes. The UJ Power Joint System offers the same environmental protection with substantial size and weight savings and better temperature tolerance than junction boxes.



Head-to-head size comparison: UJ connector vs. junction box

	UJ SERIES	JUNCTION BOX
Dimensions	Small	Regular / Big
Weight	Light	Heavy
Protective Varnish	No	Yes
Modularity	Yes	No
Environmental	Yes	Yes
Electrical Performance	Yes	Yes
Cost Reduction	Yes	No
Temperature Range	High	Standard

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