LJT 25-P1 1 x 500 A

500A power contact cylindrical connector.

• Corrosion resistance olive drab cadmium-plate aluminium or electroless nickel

- Keying achieved by different key / keyway locations
- Quick positive coupling 3 point bayonet lock system
- Durability
 500 cycles
- Insulation resistance at ambient under 500 Vdc > 5 000 Mohms
- 1 size 4/0 contact
- Temperature range - 65 °C / + 175 °C
- Contact rating current capability 500 A

The socket contact is equipped with the Radsok® device which offers a high durability (20000 mating cycles) as well as a very low contact resistance and insertion force.



Contact		Crimp barrel		Cable sizes		
Size	Pin Contact diameter (mm)	Diameter (mm)	Depth (mm)	Cable designa tion *	Section (mm²)	Outside diameter (without insulator) (mm)
4/0	14,0	14,6	21	CANUS 16012 FORISSIER	100	14

^{*:} for other cable designations, Amphenol Socapex is ready to realize pulling tests after crimping.



The Amphenol Socapex power connector LJT 25-P1 (1 x 500 A) has been developed for military applications, when high power supply is required as well as EMI RFI protection for peripheral electronic devices.

LJT 25-P1 connector provides 1 size 4/0 power contact in a 25 shell size according to MIL-DTL-38999 Series I standard.



High performance for power supply

- Shelters
 - Firing posts
 - Motor starting
 - Air conditioning
- Automation

Amphenol

Application tools & process

Warning:

- Due to the power cable stiffness, a specific backshell has been designed compatible with both plug and receptacle. The standard M85049 backshells suitable for Mil-DTL-38999 Series I connectors are not compatible with this power connector.

922559

Tool references (Dubuis crimping tool)

• For size 00 Contact

- Crimping pliers	922521
- Pliers adapter	922522
- Dies for 100 mm ²	922518-90

-Contact positioner for the dies The contact positioner is installed on the dies to allow a perfect positioning of the contact before crimping operation.

- Insertion guide for 100 mm² 922525 The insertion guide ease insertion of the contact into the barrel before crimping.

- FACOM Clip pliers 922520

Installation instruction

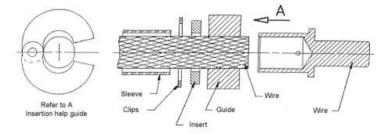
Wire preparation

- Before crimping, it is a must to place over the wire :
- The DR25 3/4 sleeve (insulation heat shrink sleeve)
- The clip for the contact retention
- The rear insert

Crimping process

Use the insertion help guide to allow easily installing the wire in the barrel.

See drawing enclosed.

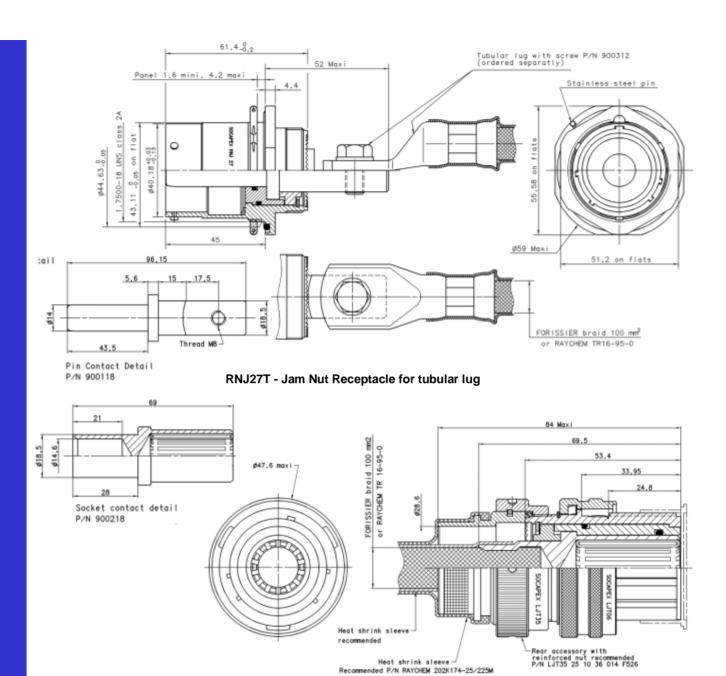


Connector assembling

- § Contact seal lubricating (to ease insertion in the insert)
- § Set up sealing O-ring on the contact
- § Insert the contact and the seal in the front insert
- § Set up rear insert
- § Set up clips with the FACOM pliers
- § Heat shrink sleeve necked with the heater generator
- § Insert the wire until it appears in the inspection hole
- § Introduce the contact between the dies
- § Handle pliers until the hearing and sensitive click
- § Piston returns by rotating the free handle and closure.

See pliers picture enclosed.



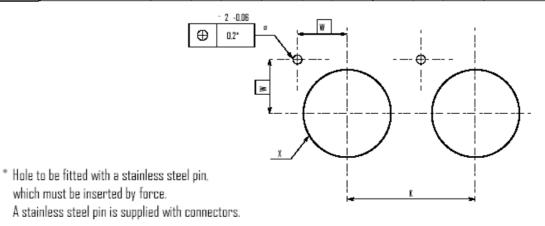


LJT06RT - Free Plug

26T - Floating Plug (in progress)

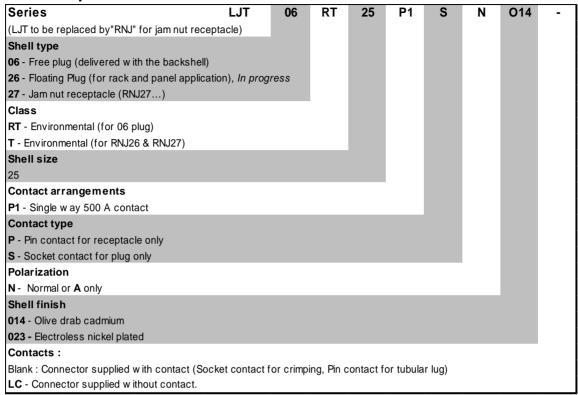
Panel drilling and recommended nut torque values

	Shell size	K min Mm (in)	W Mm (in)	Ø X (+/- 0.1) Mm (in)	Nut torque values N.m
Receptacle	25	54.20	20.24	44.68	13.6/14.7
		(2.134)	(0.797)	(1.759)	



LJT 25-P1 (1 X 500A)

Connector part number:



Backshell part-number:

The deviation F526 means that the nut is reinforced due to the rigidity of the power cable. Standard M85049 rear accessories suitable for Mil-DTL-38999 Series I connectors are not compatible with LJT 25-P1 power connectors.

LJT 35 25 10 28 014 F526 (Backshell with internal exit diameter : 22,2mm Min) LJT 35 25 10 36 014 F526 (Backshell with internal exit diameter : 28,6mm Min) For electroless nickel finish, please replace 014 by 023 in the part number.

Band (Amphenol ref): 072952

For installation procedure, please refer to « Band Backshell HE308-35 » datasheet (referenced E118)

Contact part number:

Part numbers	Designation	Acceptable wire section	
900218	500 A crimp socket contact	100 mm ²	
900118	500 A Pin contact for terminal spade tag	100 mm ²	
900119	500 A crimp pin contact	100 mm ²	

Tubular lug delivered with screw: P/N 900312