

LJT 25-P1

1 x 500 A

500A power contact cylindrical connector.

MAIN CHARACTERISTICS

- **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 designation *	Section (mm ²)	Outside diameter (without insulator) (mm)
4/0	14,0	14,6	21	CANUS 16012 FORISSIER 16013	100	14

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



DESCRIPTION

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

APPLICATIONS

- 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.

Tool references (Dubuis crimping tool)

• For size 00 Contact

- Crimping pliers 922521
- Pliers adapter 922522
- Dies for 100 mm² 922518-90

-Contact positioner for the dies 922559

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

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



Installation instruction

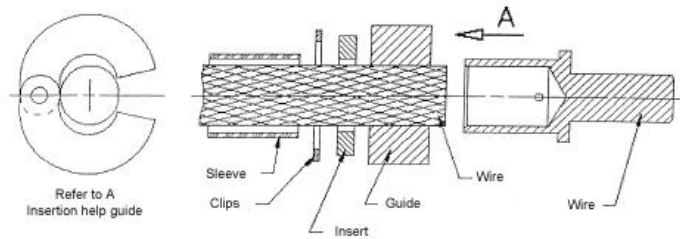
• Wire preparation

- 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.



- ✦ 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.