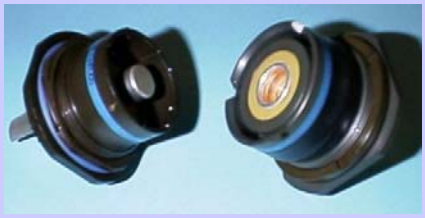
LJT 23-P1 1 x 250 A

HE308 23-01



Single way 250A power circular connector

MAIN CHARACTERISTICS

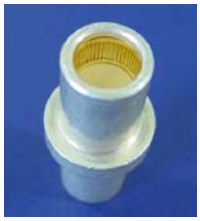
- **Corrosion resistance**
  olive drab cadmium-plate aluminium or electroless nickel
- **Quick positive coupling**
  3 point bayonet lock system
- **Durability**
  500 cycles
- **Insulation resistance at ambient under 500 Vdc > 5 000 Mohms**
- **1 size 4/0 contact**
- **Temperature range**
  - 65 °C / + 175 °C
- **Contact rating**
  current capability 250 A (please consult us for derating curve)

DESCRIPTION

The Amphenol Socapex power connector LJT 23-P1 (1 x 250 A) has been developed for military applications, when high power supply is required as well as EMI RFI protection for peripheral electronic devices.

LJT 23-P1 connector provides one size 2/0 power contact in a 23 shell size according to MIL-DTL-38999 Series I standard.

Socket contact equipped with a gold plated beryllium copper spring



High performance for power supply

Contact		Crimp barrel		Cable sizes		
Size	Pin Contact diameter (mm)	Diameter (mm)	Depth (mm)	Cable designation *	Section (mm^2)	Outside diameter (without insulator) (mm)
2/0	12	12.1	21	CANUS 16012	75	12
2/0	12	14.6	21	CANUS 16013	100	14

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

APPLICATIONS

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

Amphenol

CHARACTERISTICS

Application tools & process

For optimum performance of this power connector, we recommend the use of Amphenol Socapex backshells :

Warning :
- for the 27 T receptacle, use a backshell size 25 (due to the reinforced connector shell).
-Example : HE 308-35-**25**-30-36 7 M for our
- for our 06 and 26 plugs, use a backshell size 23.
-Example : HE 308-35-**23**-30-32 7 M

Tool references *(Dubuis crimping tool)*

- **For size 00 Contact**

- Crimping pliers	922521
- Pliers adapter	922522
- Dies for 75 mm^2	922517-90
- Dies for 100 mm^2	922518-90

-Contact positioner for the dies 922519
The contact positioner is installed on the dies to allow a perfect positioning of the contact before crimping operation.
This positioner is the same for pin & socket and for 100 or 75mm² types.

-Insertion guide for 75 mm^2 922507
-Insertion guide for 100 mm^2 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

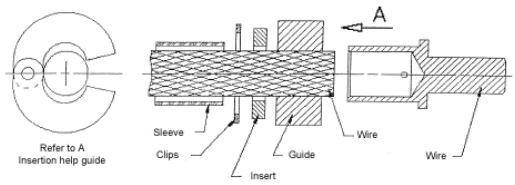
- **Wire preparation**

- Before crimping, it is a must to place over the wire :
- The DR25 ¾ sleeve (insulation heat shrink sleeve)
- The clip for the contact retention
- The rear insert

Crimping process

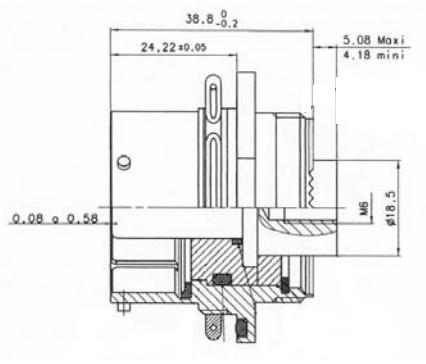
Use the insertion help guide to allow easy installing the wire in the barrel.

See drawing enclosed.

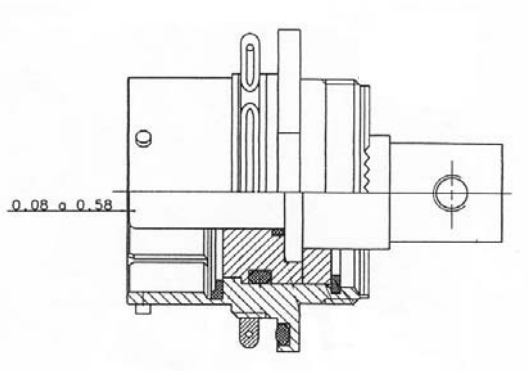


- Insert the wire until it appears in the inspection hole
- Introduce the contact between the dies
- Handle pliers until the hearing and sensitive click
- Piston returns by rotating the free handle and closure.

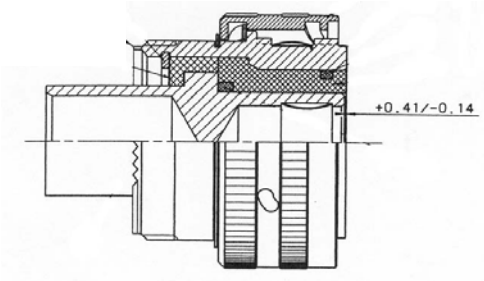
See pliers picture enclosed.



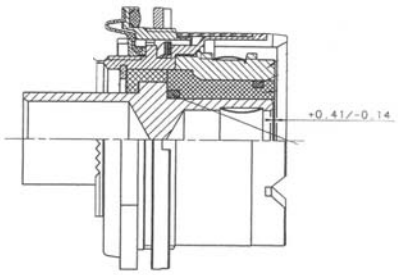
27T - Jam Nut Receptacle
(shown with crimp pin contact)



27T - Jam Nut Receptacle
(shown with terminal spade tag pin contact)



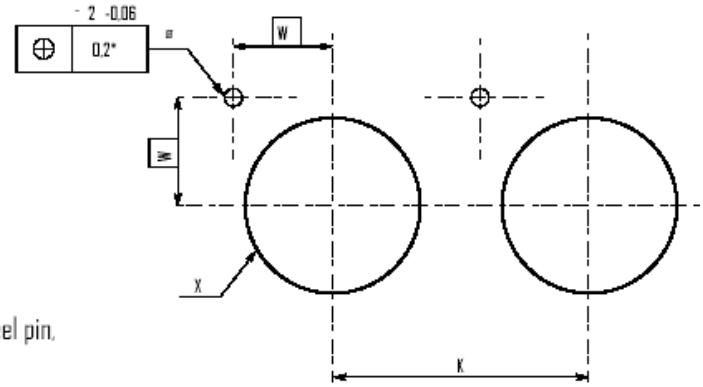
06T – Free Plug
(shown with crimp pin contact)



26T – Floating Plug (Rack & Panel)
(shown with crimp pin contact)

Panel drilling and recommended nut torque values

	Shell size	K min Mm (in)	W Mm (in)	∅ X (+/- 0.1) Mm (in)	Nut torque values N.m
Receptacle	23	50.60 (1.992)	19.12 (0.753)	41.50 (1.634)	12.4/13.6
Floating Plug	23	54.20 (2.134)	20.24 (0.797)	44.68 (1.759)	13.6/14.7



* Hole to be fitted with a stainless steel pin,
which must be inserted by force.
A stainless steel pin is supplied with connectors.

Please consult us for dimensional characteristics for rack and panel application (distance between panels, guiding fingers…)

HE 308 23-P1 (1 x 250 A) part-numbering :

Series	HE 308	06	T	23	O1	S	N	7	M	L

Shell type
06 - Free plug
26 -Floating Plug (for rack and pannel application)
27 - Jam nut receptacle

Class
T - Environmental

Shell size
23

Contacts arrangement
01 - one 250 A contact

Contact type
P - Pin contact for receptacle only
S - Socket contact for plug only

Polarization
N - normal only

Shell Finish
7 - Olive drab cadmium
6 - Nickel plated

Conforms to DTAT specification
L - Connector supplied without contact.
Contacts must be ordered separately. Please see Part Number here below mentioned.

Proprietary part-numbering :

- **HE308 06 T 23 O1SN7ML : LJT06RT23P1S014LC**
- **HE30826 T 23 O1SN7ML : RNJ26T23P1SN014LC**
- **HE30827 T 23 O1PN7ML : RNJ27T23P1PN014LC**
- **HE308 06 T 23 O1SN6ML : LJT06RT23P1S023LC**
- **HE30826 T 23 O1SN6ML : RNJ26T23P1SN023LC**
- **HE30827 T 23 O1PN6ML : RNJ27T23P1PN023LC**

Remark : Polarization « A » is also available (in proprietary part-number only, and in LJT06 and RNJ27 shell configurations only)

Example : LJT06RT23P1S A 014LC which mates with RNJ27T23P1P A 014LC

Contacts part numbers :

Part numbers	Designation	Acceptable wire section	HE308 Mil Standard
900161	250 A crimp socket contact	100 mm^2	HE 308 C 2D 10 SM
900162	250 A Pin contact for terminal spade tag	75 mm^2 100 mm^2	HE 308 V 2D 00 PM
900169	250 A crimp socket contact	75 mm^2	HE 308 C 2D 8 SM
900170	250 A crimp pin contact	75 mm^2	HE 308 C 2D 8 PM
900171	250 A crimp pin contact	100 mm^2	HE 308 C 2D 10 PM

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