

LJT 21-48

4x60 Amps circular power connector



CHARACTERISTICS

- **Lightweight space saving design**
- **Corrosion resistance:**
  olive drab cadmium-plate aluminium or electroless nickel
- **100% scoop-proof for complete contact protection**
- **Keying:**
  achieved by different key / keyway locations
- **Quick positive coupling:**
  3 point bayonet locking system
- **Durability:**
  500 cycles
- **Insulation resistance at ambient under 500 Vdc > 5000 Mohms**
- **4 size 8 contacts**
- **Range temperature:**
  - 65°C to + 175°C
- **Contact rating:**
  Current capability 60 A
- **Service rating M:**
  - Operating voltage at sea level: 400 Vrms
  - Test voltage unmated
    - at sea level : 1300 Vrms
    - at 15000 m / 50000 ft : 550 Vrms
    - at 21000 m / 70000 ft : 350 Vrms
    - at 34000 m / 110000 ft : 200 Vrms
  - Test voltage mated, please consult us.

DESCRIPTION

The Amphenol Socapex power connector LJT 21-48 provides 4 size 8 power contacts in a LJT 21 shell in accordance with the MIL-DTL-38999 Series I standard.

This arrangement was originally developped for military applications.

Due to the rigidity of the cables used, the front male insulator has been reinforced to maintain a perfect alignment of contacts during mating. A header is placed in the backshell to guide each wire and to guarantee tightness even when cables are bent. Available in Mil-DTL-38999 series III standard.

Available in TV-CTV (Mil-DTL-38999 Series III) version.

New hard piggy back grommet for easy installation.

High performance for power supply

Hard piggy back grommet for size 8 cavity and power cable: ref.: 900471.



APPLICATIONS

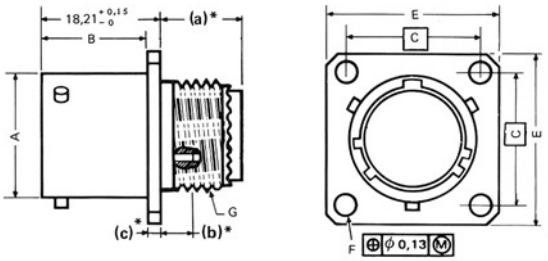
- **Power supplies**
- **Shelters**
- **Firing posts**

Contact		Crimp barrel		Cable sizes		
Size	Contact diameter mm	Diameter mm	Depth mm	Gauge AWG	Section mm	Outside diameter mm
8	3.6	4.6	10	8	8.98 to 10	4.5/5.8

Amphenol

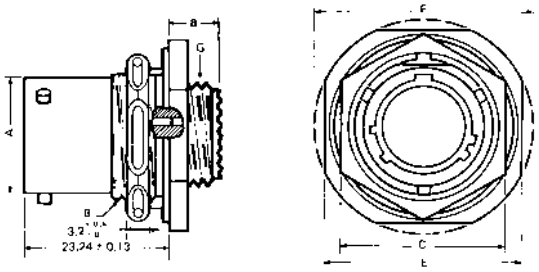
Dimensional characteristics

- **Square flange receptacle**



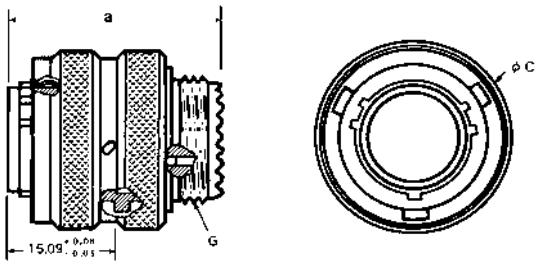
A = 33.83 mm
B = 15.29 mm
C = 31.75 mm
E = 39.67 mm
F = 3.25 mm
G = 1.1875 - 18 2 A UNEF

- **Jam nut receptacle**



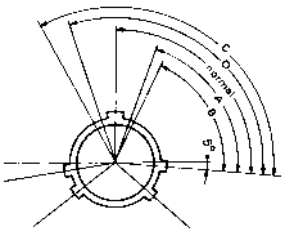
A = 33.83 mm
B = 1.5000 - 18 UNEF inches
C = 43.00 mm
E = 49.23 mm
F = 52.65 mm
G = 1.1875 - 18 2 A UNEF
a = 8.33 mm Max
without protrusion of the
piggy back grommet.

- **Plug**



G = 1.1875 - 18 2 A UNEF
C = 41.28 mm
a = 31 mm Max
without protrusion of the
piggy back grommet.

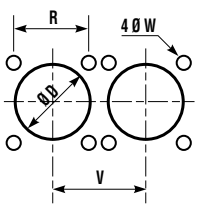
- **Position of major key way**



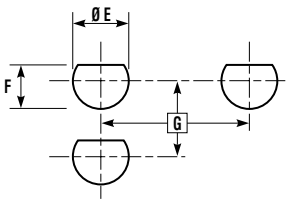
A = 80° B = 69° C = 121° D = 110°
Receptacle: front face shown

- **Panel drilling for square flange and jam nut receptacle**

Square flange receptacle
front panel mounting



Jam nut receptacle
back panel mounting

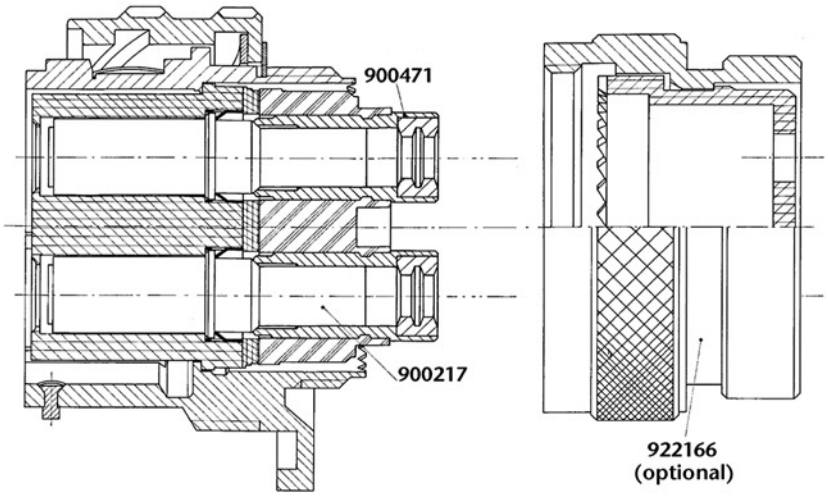


Shell Size	R (mm)	V +0 -0.25 (mm)	W +0 -0.25 (mm)	G Mini (mm)	E Mini (mm)	F +0 -0.25 (mm)	D +0 -0.25 Mini (mm)
21	31.75	42.5	3.25	50.60	38.28	37.06	32.16

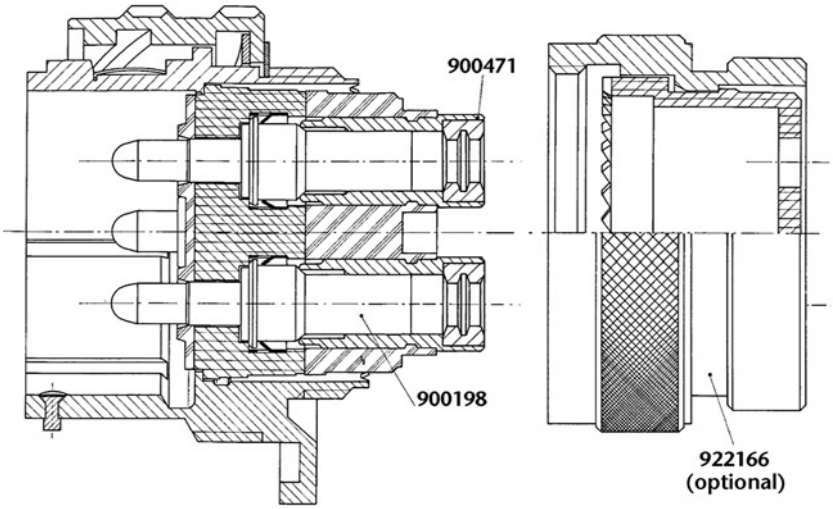
Panel thickness for jam nut receptacle : 1.6 mm mini
3.2 mm maxi

Insert arrangement 21-48 particularities

- **Side half-view of female plug/receptacle**

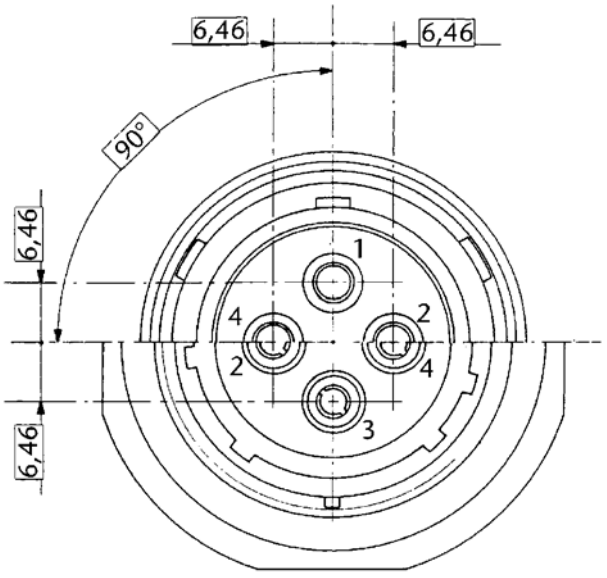


- **Side half-view of male plug/receptacle**



- **Insert arrangement: front face shown**

Male plug



Female receptacle

Connectors

Proprietary P/N

Series	LJT	00	RT	21	48	P	A	014

Shell type:
00: square flange receptacle
01: in-line receptacle
07: jam nut receptacle
06: plug

Connector class:
RT: for environmental applications (supplied without rear accessories).
Design provides serrations on rear threads of shells.

21: shell size

48: insert arrangement (4 size 8 contacts)

Contact type:
P: pin
S: socket

Polarization, rotation of major keyway:
None = normal
A, B, C, D.

Shell finish :
014: olive drab cadmium
023: electroless nickel

(Connector supplied with 4 contacts and 4 piggy back grommets 900471)
For additional information, please see our LJT catalog.

Contacts

Male contact:	**900198**	**Female contact:**	**900217**
Reducing sleeve for AWG10:	**900154**	**Piggy Back grommet:**	**900471**

Numerous piggy back grommets are available depending to cable diameters. Please consult us.

Backshells

This connector is compatible with all backshells available for LJT connectors (MIL-DTL-38999 Series I / HE 308):
LJT NSA = HE308-13 / LJT NSB / LJT NSD = HE308-14 / LJT SAD / LJT SAC
HE308-35 band backshell (BAND-IT System).

Tooling

Crimping plier:	**809872**	**Controlling gauge:**	**809877**
Positioner:	**809873**	**Metallic removal tool:**	**809845**

Do not hesitate to contact us for further information

Amphenol

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