



LJT 21-48

4x60 Amps circular power connector



- **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.

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



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 developed 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*

APPLICATIONS

- Power supplies
- Shelters
- Firing posts

LJT 21-48

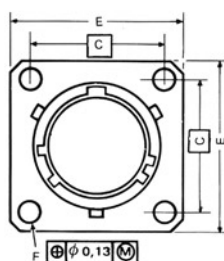
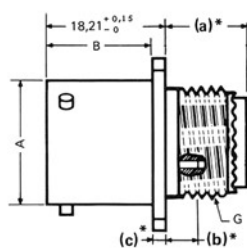
Contact		Crimp barrel		Cable sizes		
Size	Contact diameter mm	Diameter mm	Depth mm	Gauge AWG	Section mm	Outside diameter mm
8	3.6	4.6	10	8	8.98 to 10	4.5/5.8



Amphenol

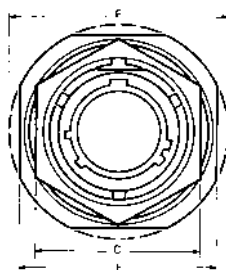
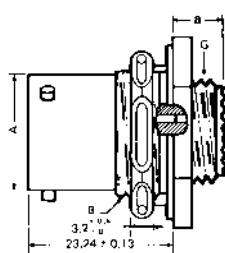
Dimensional characteristics

• Square flange receptacle



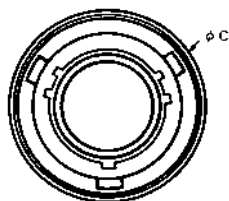
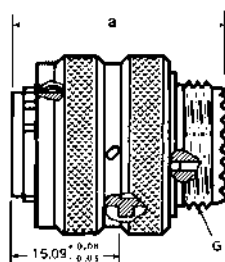
A = 33.83 mm
B = 15.29 mm
C = 31.75 mm
E = 39.67 mm
F = 3.25 mm
G = 1.1875 - 18 2 A UNEF

• Jam nut receptacle



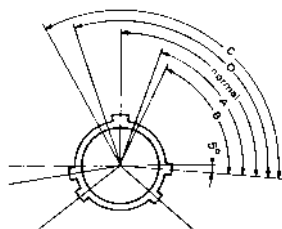
A = 33.83 mm
B = 1.5000 - 18 UNEF inches
C = 43.00 mm
E = 49.23 mm
F = 52.65 mm
G = 1.1875 - 18 2 A UNEF
a = 8.33 mm Max
without protrusion of the piggy back grommet.

• Plug



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

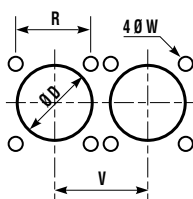
• Position of major key way



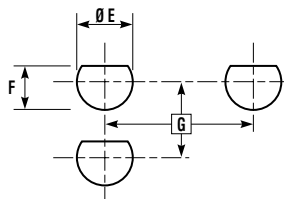
A = 80° B = 69° C = 121° D = 110°
Receptacle: front face shown

• Panel drilling for square flange and jam nut receptacle

Square flange receptacle
front panel mounting



Jam nut receptacle
back panel mounting

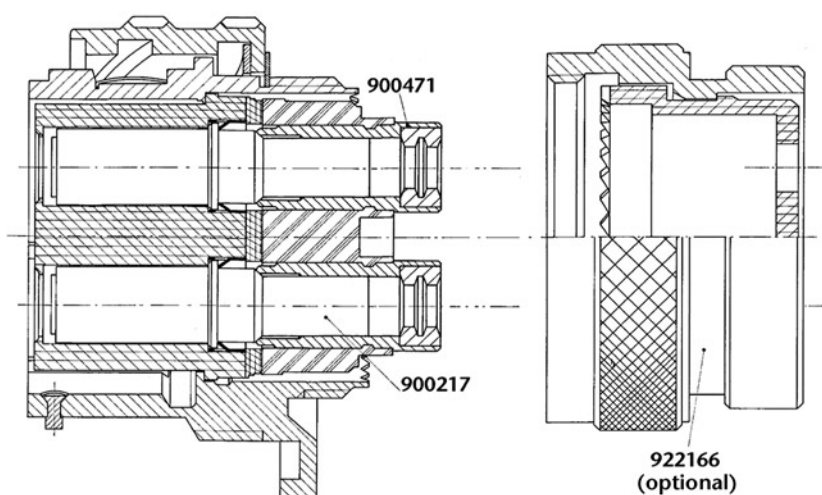


Shell Size	R (mm)	V ⁺⁰ _{-0.25} (mm)	W ⁺⁰ _{-0.25} (mm)	G Mini (mm)	E Mini (mm)	F ⁺⁰ _{-0.25} (mm)	D ⁺⁰ _{-0.25} Mini (mm)
21	31.75	42.5	3.25	50.60	38.28	37.06	32.16

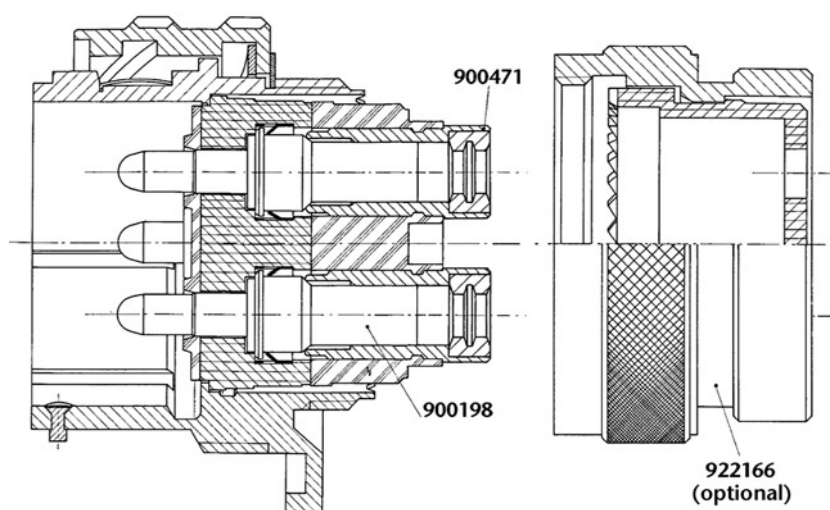
Panel thickness for jam nut receptacle : 1.6 mm mini
3.2 mm maxi

Insert arrangement 21-48 particularities

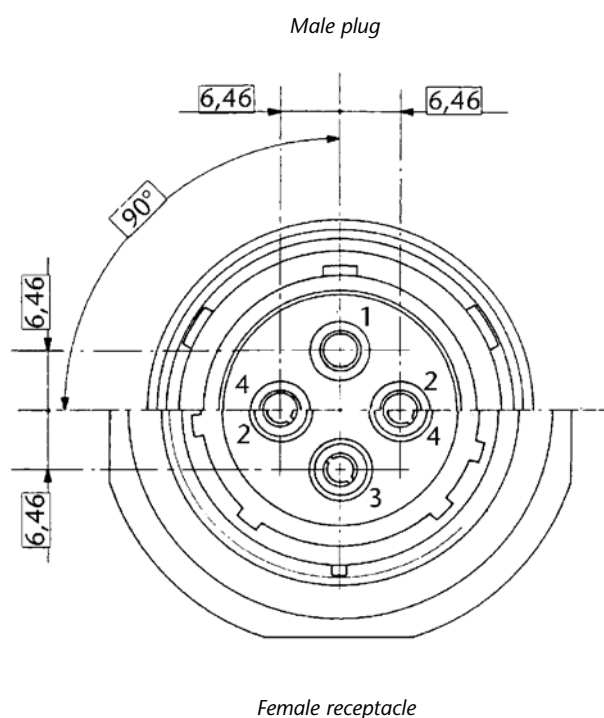
- Side half-view of female plug/receptacle



- Side half-view of male plug/receptacle



- Insert arrangement: front face shown



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

Amphenol Socapex

Mil/Aero & Industrial Business Unit

948, Promenade de l'Arve - BP 29

F - 74311 Thyez Cedex

Tel.: +33 (0) 4 50 89 28 00 - Fax: +33 (0) 4 50 96 19 41

<http://www.amphenol.com>

Sales office in Paris

Tel.: +33 (0) 1 49 05 30 00 - Fax: +33 (0) 1 49 05 30 43