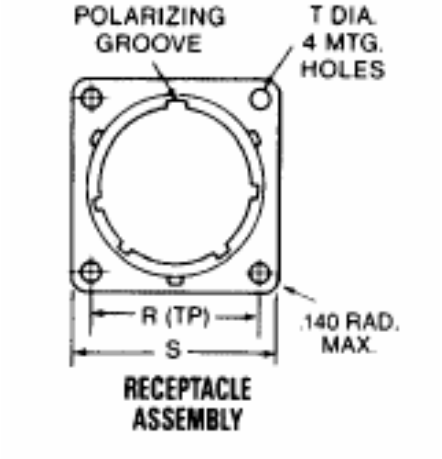
Aircraft Auxiliary Electrical Power Connector

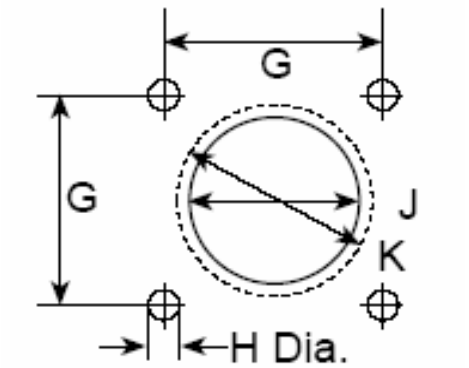
CAP's new Cessna's were equipped with a new connector for supplying power to portable equipment. This connector has three pins and is suitable for both +12V DC and +24V DC connections.

The female panel-mount connector (at the top and bottom-right of this photo) is installed in the rear of the aircraft. The male plug (pictured on the left) must be installed on the power lead of ancillary equipment requiring power from the aircraft.

Note: An in-line female connector (without the mounting plate) is also available, if needed, for the power side in other applications such as base stations or ground vehicles.

Dimensions: (Panel-mount)





R(TP) = .812"
S = 1.047"
Hole Dia. = .120"

G = .812" H = .134"
J = .646" (Flange in front of panel)
K = .854" (Flange in rear)

The connector is rated at 22 amps per pin.

Pinout: (Very Important!)

Pin A: +12 VDC (Recommend minimum 8 amps rating)

Pin B: + 24 VDC (Recommend minimum 5 amps rating)

Pin C: Ground (negative return)

Note: Pin B was not connected in the first aircraft to receive this connector.

Part numbers:

Female Connector (power supply side)
Plate w/ 4 holes: KPT01F12-3S (Has strain relief clamp)
Mil-Spec Version: MS3111F12-3S
Plate w/4 holes: KPT02E12-3S (No clamp – like the picture)
Single-hole version: KPT07F12-3S (Has strain relief clamp)

Male Connector (equipment side): KPT06F12-3P
Milspec version: MS3116F12-3P

All of these part numbers are for the solder-type connectors. If you have access to the ***proper*** Crimp tool, there are crimp varieties available as well (substitute "KPSE" for "KPT" in the above part numbers).

Additional Information:

The distributor's website is a great source for all of the connector specifications, as well as other variations such as right-angle plugs, etc.

Go to: http://www.pei-genesis.com/cannon_pdfs.html.
Look at the "KPT/KPSE" section for these connectors