Auxiliary 3 Pin Power Source Test Plug
Connector used as a general power source for a wide range of equipment.

\[
\begin{array}{cccc}
\text{P1} & R1 & & D1 \\
\text{A} & +28 \text{ VDC} & & \\
\text{B} & \text{Ground} & & \\
\text{C} & +14 \text{ VDC} & & D2 \\
\end{array}
\]

Parts for the Auxiliary 3 Pin Power Source Test Plug
P1: MS3116F12-3P (mates with MS3112E12-3S)
R1: 1.3k ohm, 3/4 watt
R2: 600 ohm, 1/2 watt
D1 & D2: Bi-color diode, i.e. red/green (e.g. Lite-On LTL-293SJW, Dialight 521-9462F or Dialight 521-9462).

Assembly:
1. Orientate diodes so that green displays correct pin polarity (short lead +) and red displays reverse polarity (long lead -).
2. Seal plug components with clear RTV to prevent shock and damage.
3. Mark diodes, just before RTV dries, for ease of identification as to which one is +14 volts and which one is +28 volts.

Helicopter 9 Pin Test Plug
Connector used on helicopters for remote hooks, buckets, hell torches and seeders

\[
\begin{array}{cccc}
P1 & R1 & & D1 \\
E & & & \\
D & & & \\
\end{array}
\]

Parts for the Helicopter 9 Pin Test Plug
P1: MS3107B24-11P (mates with MS3101E24-11S)
R1: 1.3k ohm, 3/4 watt
D1: Bi-color diode, i.e. red/green (e.g. Lite-On LTL-293SJW, Dialight 521-9462F or Dialight 521-9462).

Assembly:
1. Orientate diode so that green displays correct pin polarity (short lead +) and red displays reverse polarity (long lead -).
2. Remove threaded locking ring from P1 (for quick and easy testing).
3. Seal plug components with clear RTV to prevent shock and damage.

FS/OAS drawings are available at:
www.nifc.gov/NII/CD/documents.html