

**SERIES 20
MINIATURE CONNECTORS**

description and specs

These connectors are available in 4, 5, 6, 7, 8, 9, 11, 14, 15, 18, 20, 21, 26, 34, 41, 42, 50, 55, 75 and 104 contact sizes with the following terminations: solder cup, turret, taper pin solderless, dip solder and solderless-wrap. Aluminum hoods, protective shells and mounting plates are optional accessories also available for this series.

Precision machined socket and pin contacts of spring temper phosphor bronze and brass respectively, are gold plated for low contact resistance and ease of soldering. Contact engagement and disengagement forces have been reduced without sacrificing millivolt drop. Floating contacts on plug and receptacle insure positive alignment of each contact.

CLOSED ENTRY CONTACTS

Closed entry design with leaf spring provides increased reliability and maintains a low millivolt drop under constant and uniform insertion pressure. It prevents over stress of individual socket contact leaves and possibility of contact distortion. Closed entry contacts can be specified for all Series 20 connectors.

GUIDE PINS AND GUIDE SOCKETS . . . POLARIZING SCREWLOCKS*

Positive polarization is assured with the reversed male and female guide pin and guide socket on plug and receptacle. Polarizing screwlock guide pins and guide sockets provide a positive means of locking the plug and receptacle against accidental disconnection due to vibration. It is also a mechanical method of separating the plug and receptacle without prying or forcing. This feature eliminates the need to "rock" the connector during the disconnect procedure, and avoids possibility of damage to contacts and body molding.

* PAT. NO. 2,746,022

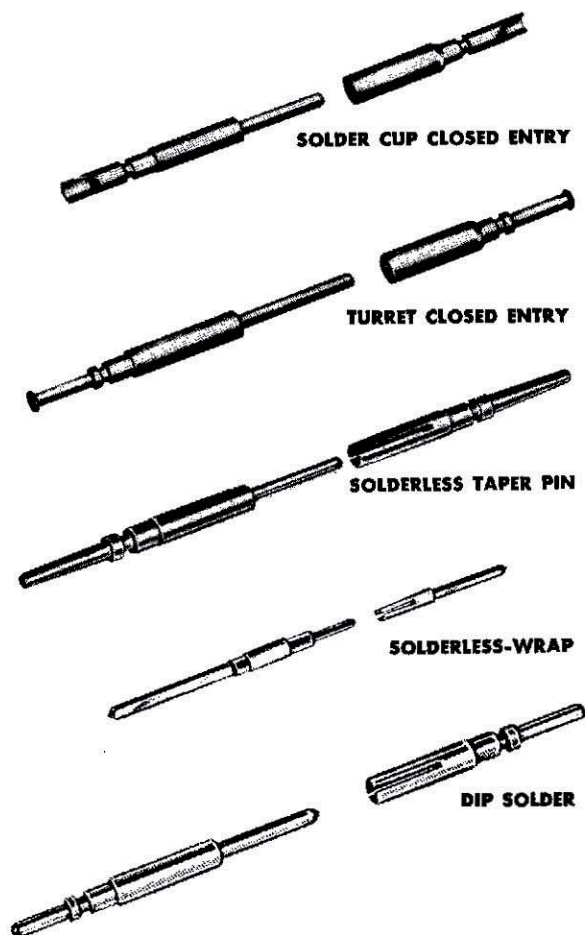
ELECTRICAL AND MECHANICAL RATINGS

Voltage Ratings (without hood):	Breakdown Contact-to-Contact Contact-to-Hardware	Recommended Test
At Sea Level	3000V. RMS	2000V. RMS
At 70,000 Ft.	650V. RMS	500V. RMS
Voltage Ratings (with hood):	Contact-to-Hood	
At Sea Level	1800V. RMS	1200V. RMS
At 70,000 Ft.	500V. RMS	350V. RMS
Current Rating: 5 Amps Continuous		7.5 Amps Max.
Minimum Creepage Between Contacts		.125"
Minimum Air Space Between Contacts		.070"
Contacts, Center-to-Center		.156"
Solder Cup (see variations illustrated)		#20 AWG Wire

CONFORM TO MIL-C-008384C SPECIFICATIONS

MOLDING COMPOUNDS

1. Diallyl Phthalate, glass reinforced (MIL-P-19833, Type GDI-30).
2. Diallyl Phthalate, glass reinforced (MIL-P-19833, Type GDI-30F, flame resistant).
3. Glass reinforced grey molding material, Type "GE" (MIL-M-14, Type MAI-30).



SOLDER CORE CONTACTS

Continental Connector has perfected a method for hot pre-filling each pin and socket solder cup with a solder alloy of any desired composition. The amount of solder provided in each solder cup is automatically controlled to assure complete absence of air bubbles usually present in conventional soldering.

Simply heat cup, insert wire and allow to cool. No additional solder or flux is necessary. Solder core contacts eliminate overflow of solder, and remove possibility of breakage due to any excess solder drawn by the wire. A non-corrosive resin flux is provided in solidified form on the surface of each solder cup.