

D – SUBMINIATURE COMBINATION CONNECTORS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CONNECTOR IS COMPATIBLE WITH THE REQUIREMENTS OF MIL-C-24308, LATEST REVISION.

MATERIALS

HOUSING

Machined Contacts: Copper Alloy per ASTM B 140.
Stamped and Formed Contacts:
Beryllium Copper per QQ-C-533 or Phosphor Bronze per
QQ-B-750.
Insert: Thermoplastic Type GPT-30F per MIL-M- 24519.
Shells: Cold Drawn Steel per ASTM A 568 and A 620.

HARDWARE

Threaded Inserts / Standoffs: Brass per ASTM B 16 or Steel
per ASTM A 108.
Brackets: Cold Rolled Steel per ASTM A 568.
Push On Fasteners: Copper Alloy per QQ-B-750.
Ground Straps: Beryllium Copper per QQ-C-530.

FINISHES/COLORS

HOUSING

Machined 20 Gage Signal Pins:
Commercial Grade: Gold 0.000030 Thick or
0.000050 Thick per MIL-G-45204 over Nickel
per QQ-N-290.
Stamped and Formed 20 Gage Signal Pins:
Flash: Gold 0.000010 Thick
Commercial Grade 0.000030 Thick or
0.000050 Thick per MIL-G-45204 over Nickel
per QQ-N-290 with 90/10 Tin/Lead per MIL-T-10727 on Tail
Section.
Insulator Color: Black.
Shells: Yellow Chromate over Zinc per ASTM B 633 or Yellow
Chromate over Cadmium per QQ-P-416 or Tin per ASTM B 545.

HARDWARE

Threaded Inserts / Standoffs: Nickel per QQ-N-290.
Brackets: Yellow Chromate over Zinc per QQ-Z-325 or
Yellow Chromate over Cadmium per QQ-P-416.
Ground Straps: None.
Push On Fasteners: Tin per ASTM B 545.

ELECTRICAL

Dielectric Strength: 500 V RMS Minimum at Sea
Level. 200 V RMS Minimum at 70,000 Feet.
Insulation Resistance: 1 Megohm Minimum.
Current Rating:
Solder Cup 7.5 Amps.
P.C. Tail 0.040 (1.02) Dia. 7.5 Amps.
P.C. Tail 0.030 (.76) Dia. 5.0 Amps.
P.C. Tail 0.024 (.61) Dia. 2.5 Amps.

MECHANICAL

Operating Temperature: -65° F to 250° F
(-54° C to 121° C).

Durability: 500 Mating Cycles per MIL-STD 1344
Method 2016.

ENGAGEMENT/SEPARATION FORCES

Maximum Individual Engagement Force: 18 Oz.
(Using Maximum Diameter Pin).
Minimum Separation Force: .7 Oz.
(Using Minimum Diameter Pin).

ENVIRONMENTAL

Humidity per MIL-STD-1344, Condition II Method 1002.
Temperature Cycling per MIL-STD-1344, Condition A, Method 1003.
Salt Spray per MIL-STD-1344, Condition B, Method 1001.
Vibration per MIL-STD-1344, Condition 4, Method 2005.
Shock per MIL-STD-1344, Condition E, Method 2004.

