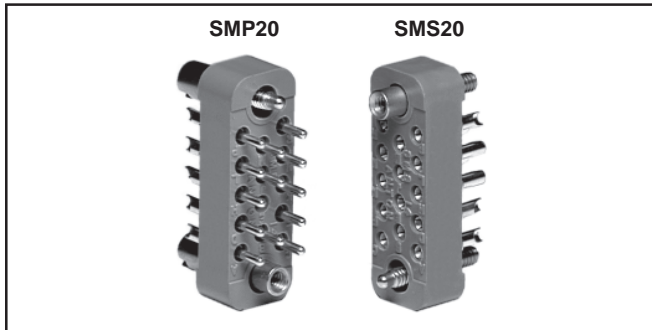


Rack and Panel Connectors

Subminiature Rectangular



FEATURES

- Lightweight.
- Polarized by guides or screwlocks.
- Screwlocks lock connectors together to withstand vibration and accidental disconnect.
- Overall height kept to a minimum.
- Floating contacts aid in alignment and in withstanding vibration.
- Contacts, precision machined and individually gauged, provide high reliability.
- Insertion and withdrawal forces kept low without increasing contact resistance.
- Contact plating provides protection against corrosion, assures low contact resistance and ease of soldering.

ELECTRICAL SPECIFICATIONS

Current Rating: 7.5 amps.

Breakdown Voltage:

At sea level: 2000 V RMS.

At 70,000 feet [21,336 meters]: 500 V RMS.

PHYSICAL SPECIFICATIONS

Number of Contacts: 5, 7, 11, 14, 20, 26, 34, 42, 50, 75.

Contact Spacing: .120" [3.05mm].

Contact Gauge: #20 AWG.

Minimum Creepage Path Between Contacts:

.080" [2.03mm].

Minimum Air Space Between Contacts: .050" [1.27mm].

APPLICATIONS

For use wherever space is at a premium and a high quality connector is required in avionics, automation, communications, controls, instrumentation, missiles, computers and guidance systems.

MATERIAL SPECIFICATIONS

Contact Pin: Brass, gold plated.

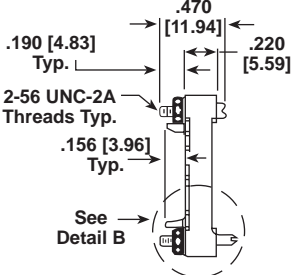
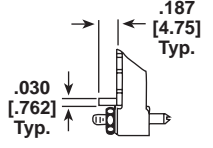
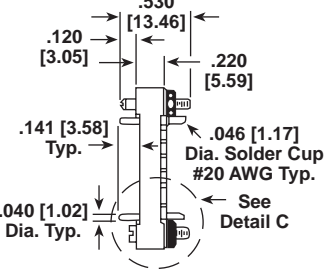
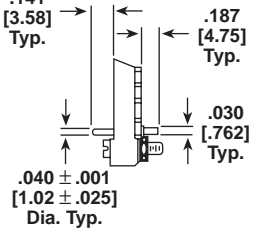
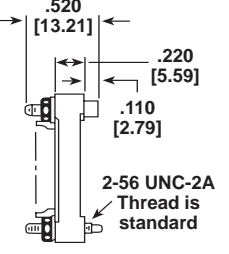
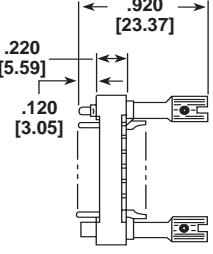
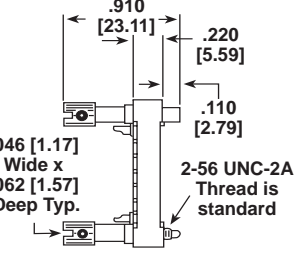
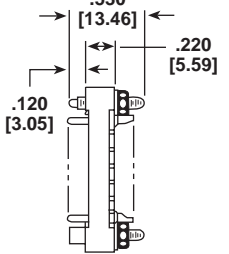
Contact Socket: Phosphor bronze, gold plated.

(Beryllium copper available on request.)

Guides: Stainless steel, passivated.

Screwlocks: Stainless steel, passivated.

Standard Body: Glass-filled diallyl phthalate per MIL-M-14, Type GDI-30F, green.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]			
<p>SMS With Fixed Standard Guides</p> 	<p>SMDS - DETAIL B Dip Solder Contact Option</p> 	<p>SMP With Fixed Standard Guides</p> 	<p>SMDP - DETAIL C Dip Solder Contact Option</p> 
<p>SMS With Fixed (SL) Screwlocks</p> 	<p>SMP With Turnable (SK) Screwlocks</p> 	<p>SMS With Turnable (SK) Screwlocks</p> 	<p>SMP With Fixed (SL) Screwlocks</p> 

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

SMS With Turnable (SK030) Screwlocks	SMP With Turnable (SK035) Screwlocks	View A-A Typ.	SMS With Turnable (SK035) Screwlocks	SMP With Turnable (SK030) Screwlocks
<p>.580 [14.73] .220 [5.59] .110 [2.79] .046 [1.17] Wide x .062 [1.57] Deep Typ. 2-56 UNC-2A Thread is standard</p>	<p>.610 [15.49] .220 [5.59] .120 [3.05]</p>	<p>.093 [2.36] Hex Typ. .156 [3.96] Dia.</p>	<p>.595 [15.11] .220 [5.59] .110 [2.79] 2-56 UNC-2A Thread is standard</p>	<p>.590 [14.99] .220 [5.59] .120 [3.05] .046 [1.17] Wide x .062 [1.57] Deep Typ. .156 [3.96] Dia.</p>

TERMINAL VARIATIONS [Numbers in brackets indicate millimeters]

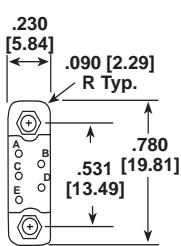
DIP SOLDER PC BOARD MOUNTING PATTERNS

Male (SMP) Connector is shown - Female is opposite. Contact row and Mating Hole C to C Dimensions also applies to Solder Cup Connectors.

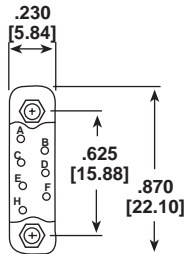
<p>.0625 [1.59] Typ. .250 [6.35] Ref. .054 [1.37] Typ. .108 [2.74] Ref. .093 [2.36] Dia. Typ. .531 [13.49] .140 [3.56] Typ.</p> <p>5 CONTACTS</p>	<p>.0625 [1.59] Typ. .375 [9.53] Ref. .054 [1.37] Typ. .108 [2.74] Ref. .093 [2.36] Dia. Typ. .625 [15.88] .125 [3.18] Typ.</p> <p>7 CONTACTS</p>	<p>.0625 [1.59] Typ. .375 [9.53] Ref. .108 [2.74] Typ. .216 [5.49] Ref. .093 [2.36] Dia. Typ. .625 [15.88] .125 [3.18] Typ.</p> <p>11 CONTACTS</p>	<p>.0625 [1.59] Typ. .500 [12.70] Ref. .108 [2.74] Typ. .216 [5.49] Ref. .093 [2.36] Dia. Typ. .750 [19.05] .125 [3.18] Typ.</p> <p>14 CONTACTS</p>
<p>.0625 [1.59] Typ. .750 [19.05] Ref. .108 [2.74] Typ. .216 [5.49] Ref. .093 [2.36] Dia. Typ. 1.0 [25.40] .125 [3.18] Typ.</p> <p>20 CONTACTS</p>	<p>.0625 [1.59] Typ. 1.000 [25.40] Ref. .108 [2.74] Typ. .216 [5.49] Ref. .093 [2.36] Dia. Typ. 1.25 [31.75] .125 [3.18] Typ.</p> <p>26 CONTACTS</p>	<p>.0625 [1.59] Typ. 1.000 [25.40] Typ. .054 [1.37] Typ. .324 [8.23] Ref. .093 [2.36] Dia. Typ. 1.312 [33.32] .156 [3.96] Typ. .108 [2.74] Typ.</p> <p>34 CONTACTS</p>	
<p>.0625 [1.59] Typ. 1.250 [31.75] Ref. .054 [1.37] Typ. .324 [8.23] Ref. .093 [2.36] Dia. Typ. 1.562 [39.67] .156 [3.96] Typ. .108 [2.74] Typ.</p> <p>42 CONTACTS</p>	<p>.0625 [1.59] Typ. 1.500 [38.10] Ref. .054 [1.37] Typ. .324 [8.23] Ref. .093 [2.36] Dia. Typ. 1.812 [46.02] .156 [3.96] Typ. .108 [2.74] Typ.</p> <p>50 CONTACTS</p>	<p>.220 [5.59] .110 [2.79] .0625 [1.59] Typ. .108 [2.74] Typ. .540 [13.72] Ref. .093 [2.36] Dia. Typ. 1.812 [46.02] .156 [3.96] Typ.</p> <p>75 CONTACTS</p>	

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

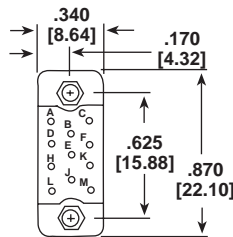
NOTE: The views below show the wiring side of a pin type connector (female is opposite). Socket hardware is assembled at "A" contact end of a pin type connector.



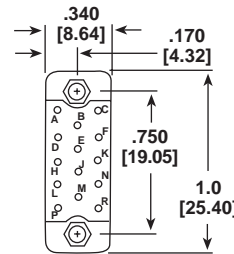
5 CONTACTS



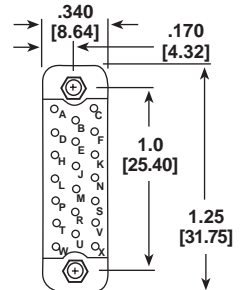
7 CONTACTS



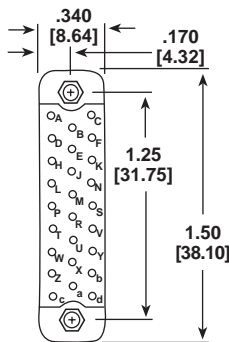
11 CONTACTS



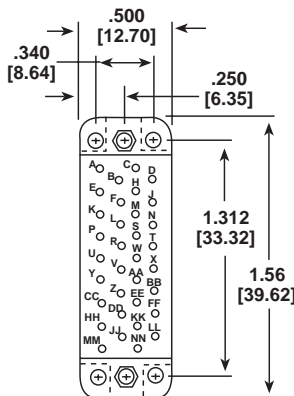
14 CONTACTS



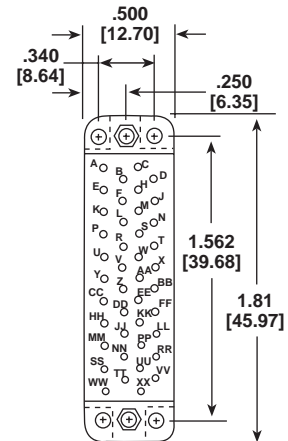
20 CONTACTS



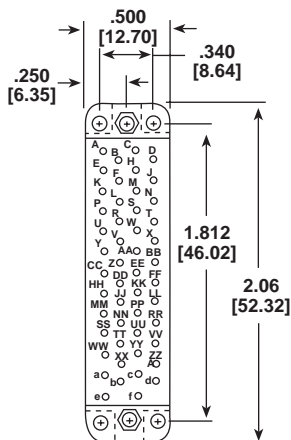
26 CONTACTS



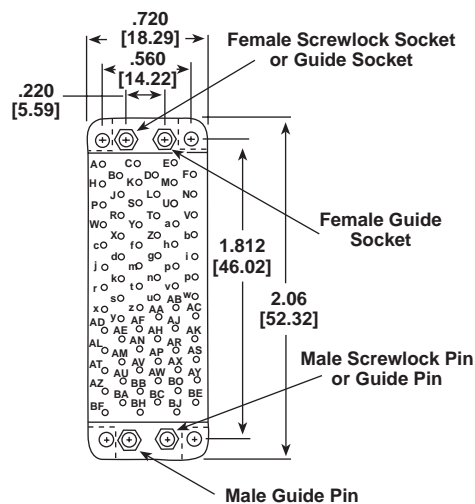
34 CONTACTS



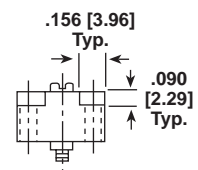
42 CONTACTS



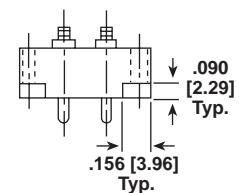
50 CONTACTS



75 CONTACTS



TYPICAL END VIEW
34 THRU 50 CONTACTS



TYPICAL END VIEW
75 CONTACTS

PANEL CUTOUT [Numbers in brackets indicate millimeters]

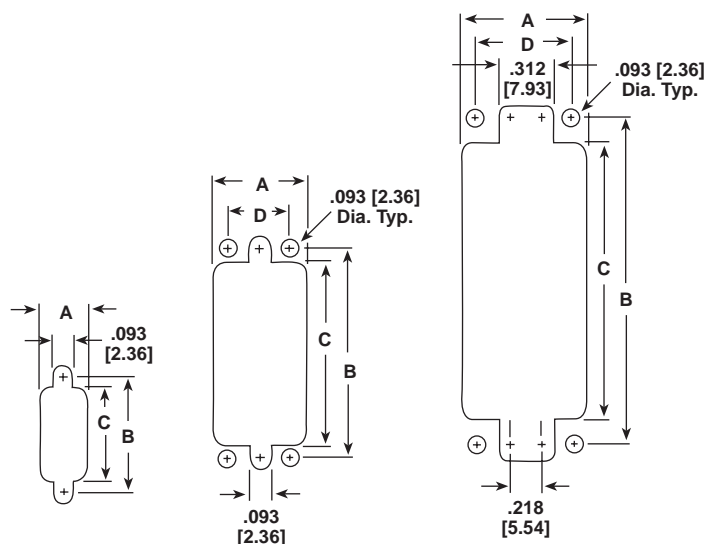


FIGURE I

FIGURE II

FIGURE III

NUMBER OF CONTACTS	A	B	C	D	FIGURE
5	.230 [5.84]	.531 [13.49]	.410 [10.41]	—	I
7	.230 [5.84]	.625 [15.88]	.500 [12.70]	—	
11	.340 [8.64]	.625 [15.88]	.530 [13.46]	—	
14	.340 [8.64]	.750 [19.05]	.620 [15.75]	—	
20	.340 [8.64]	1.0 [25.40]	.910 [23.11]	—	
26	.340 [8.64]	1.25 [31.75]	1.16 [29.46]	—	
34	.500 [12.70]	1.312 [33.32]	1.16 [29.46]	.343 [8.71]	II
42	.500 [12.70]	1.562 [39.68]	1.41 [35.81]	.343 [8.71]	
50	.500 [12.70]	1.812 [46.02]	1.66 [42.16]	.343 [8.71]	
75	.720 [18.29]	1.812 [46.02]	1.66 [42.16]	.562 [14.28]	III

HOW TO ORDER

C CONTACTS	SM MODEL	B CONTACT TYPE	S CONTACT STYLE	20 CONTACT SIZE	G PLATING	— 26 NUMBER OF CONTACTS	R (OPTIONAL)	027* HARDWARE OPTIONS
	Subminiature		P = Pin S = Socket	#20 AWG		5, 7, 11, 14, 20, 26, 34, 42, 50, 75		
(OPTIONAL) Closed entry socket contacts only. Omit for standard contacts.					Optional plating available: G = Gold (.00003 thick) over nickel. G5 = Gold (.00005 thick) over nickel. Omit designator for gold (.00001 thick) over nickel.		(OPTIONAL) R = Reversed guides or screwlocks. Omit for standard.	
		(OPTIONAL) B = Beryllium copper, socket contacts (Solder cup). D = Dip solder contacts.						(Omit if no hardware desired) 027 = Slotted cres guides .090" [2.29mm] diameter. SK = Turnable screwlocks with 2-56 threads. SK3 = Turnable screwlocks with 3-48 threads. SL = Fixed screwlocks with 2-56 threads. SL3 = Fixed screwlocks with 3-48 threads. SK030 = Turnable screwlocks with short slotted knobs. SK035 = Turnable screwlocks with socket head knobs. SK3030 = Turnable screwlocks with short slotted knobs with 3-48 threads. SK3035 = Turnable screwlocks with socket head knobs with 3-48 threads.

EXAMPLES:

SMBS20-26SK035 = Female, 26 beryllium copper socket contacts with socket head knobs on turnable screwlocks for #20 AWG wiring.
SMP20-14SL3 = Male, 14 contact pins, fixed screwlocks with 3-48 threads for #20 AWG wiring.

*To order complete connector with hardware supplied unassembled, add suffix "UA" on end of hardware designation.