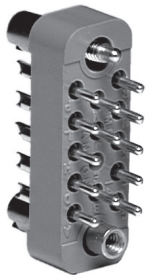
Rack and Panel Connectors Subminiature Rectangular



SMP20

SMS20

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 A
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: 0.120" [3.05 mm]
Contact Gauge: #20 AWG
Minimum Creepage Path Between Contacts: 0.080" [2.03 mm]
Minimum Air Space Between Contacts: 0.050" [1.27 mm]

APPLICATIONS

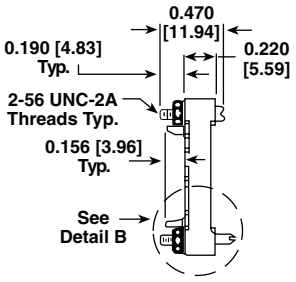
For use wherever space is at a premium and a high quality connector is required in avionics, automation, communications, controls, instrumentation, missiles, computers and guidance systems.

MATERIAL SPECIFICATIONS

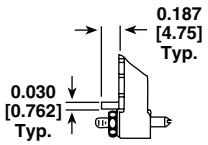
Contact Pin: Brass, gold plated
Contact Socket: Phosphor bronze, gold plated (Beryllium copper available on request)
Guides: Stainless steel, passivated
Screwlocks: Stainless steel, passivated
Standard Body: Glass-filled diallyl phthalate per MIL-M-14, Model GDI-30F, green

DIMENSIONS in inches [millimeters]

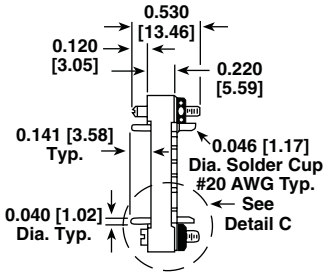
SMS
With Fixed Standard Guides



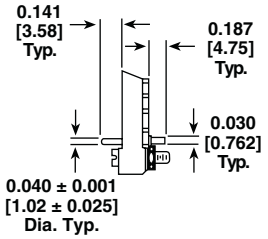
SMDS - DETAIL B
Dip Solder Contact Option



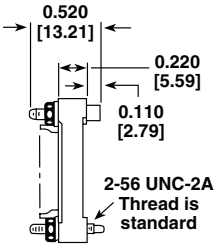
SMP
With Fixed Standard Guides



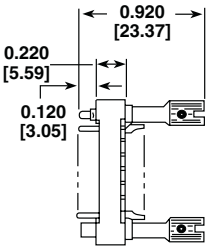
SMDP - DETAIL C
Dip Solder Contact Option



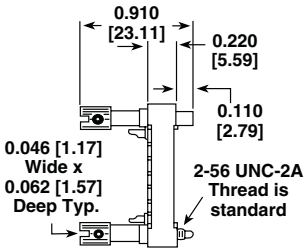
SMS
With Fixed (SL) Screwlocks



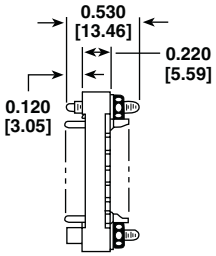
SMP
With Turnable (SK) Screwlocks



SMS
With Turnable (SK) Screwlocks

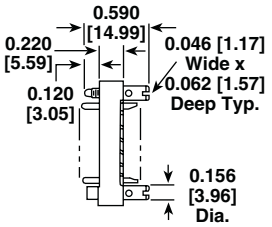


SMP
With Fixed (SL) Screwlocks

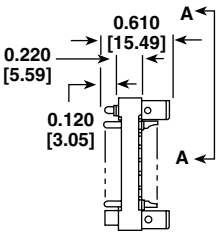


DIMENSIONS in inches [millimeters]

SMP With Turnable (SK030) Screwlocks

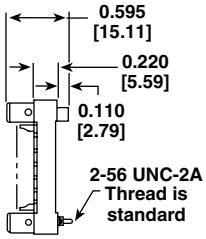


SMP With Turnable (SK035) Screwlocks

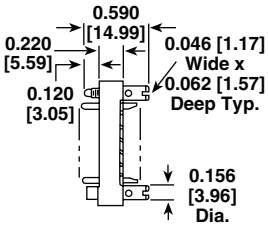


View A-A Typ.

SMS With Turnable (SK035) Screwlocks



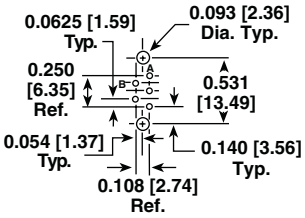
SMP With Turnable (SK030) Screwlocks



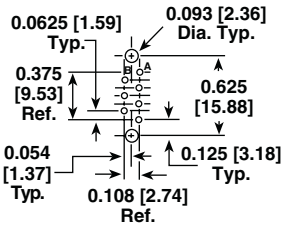
TERMINAL VARIATIONS in inches [millimeters]

DIP SOLDER PC BOARD MOUNTING PATTERNS

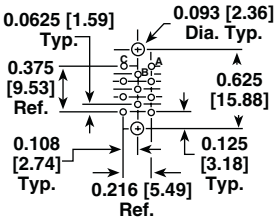
Male (SMP) Connector is shown - Female is opposite. Contact row and Mating Hole ℄ to ℄ Dimensions also applies to Solder Cup Connectors.



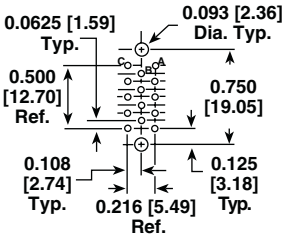
5 CONTACTS



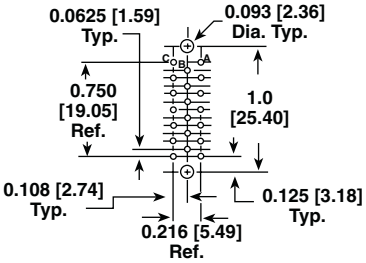
7 CONTACTS



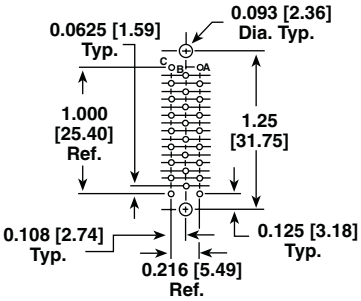
11 CONTACTS



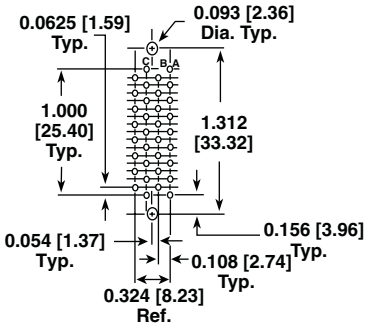
14 CONTACTS



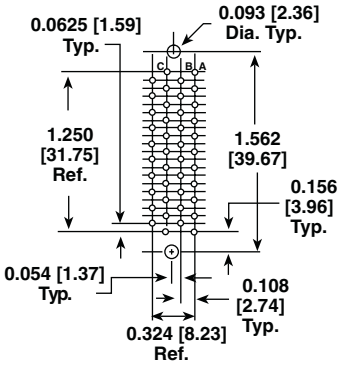
20 CONTACTS



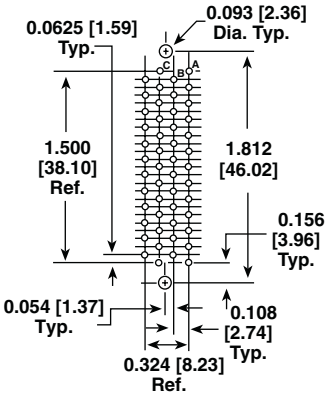
26 CONTACTS



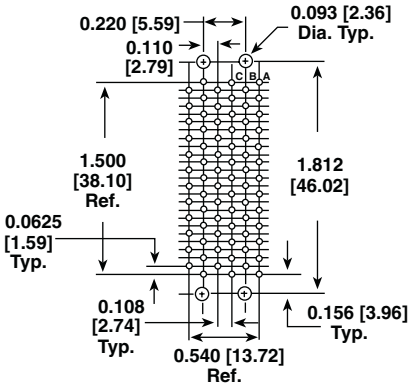
34 CONTACTS



42 CONTACTS



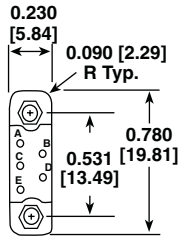
50 CONTACTS



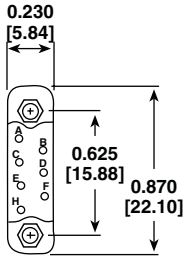
75 CONTACTS

DIMENSIONS in inches [millimeters]

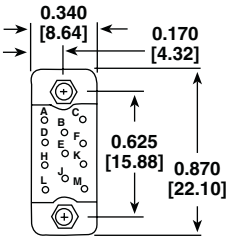
NOTE: The views below show the wiring side of a pin model connector (female is opposite). Socket hardware is assembled at "A" contact end of a pin model connector.



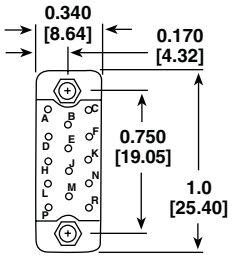
5 CONTACTS



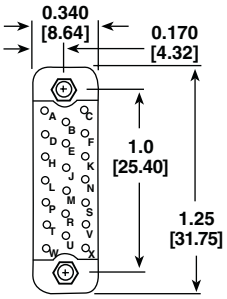
7 CONTACTS



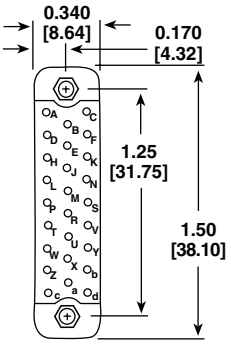
11 CONTACTS



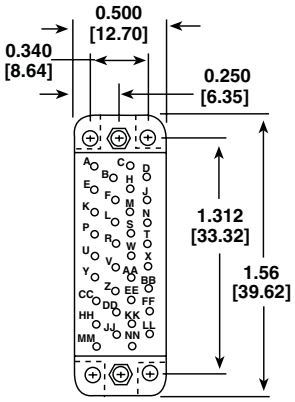
14 CONTACTS



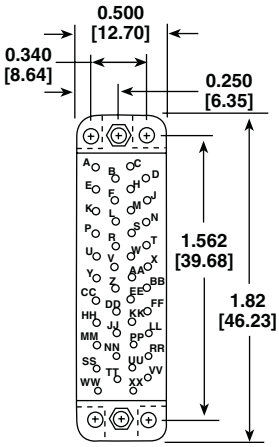
20 CONTACTS



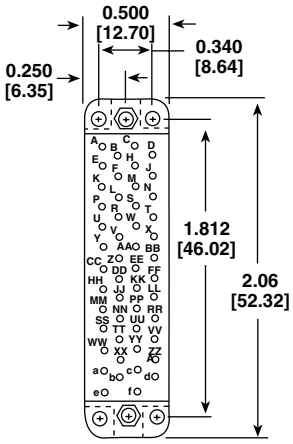
26 CONTACTS



34 CONTACTS



42 CONTACTS



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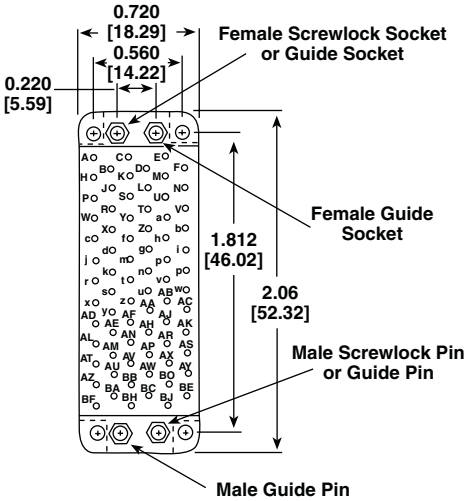

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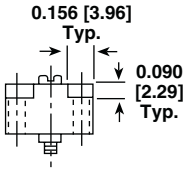
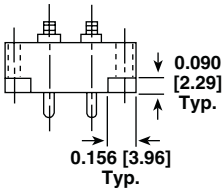


TYPICAL END VIEW
34 THRU 50 CONTACTS



TYPICAL END VIEW
75 CONTACTS

PANEL CUTOUT in inches [millimeters]

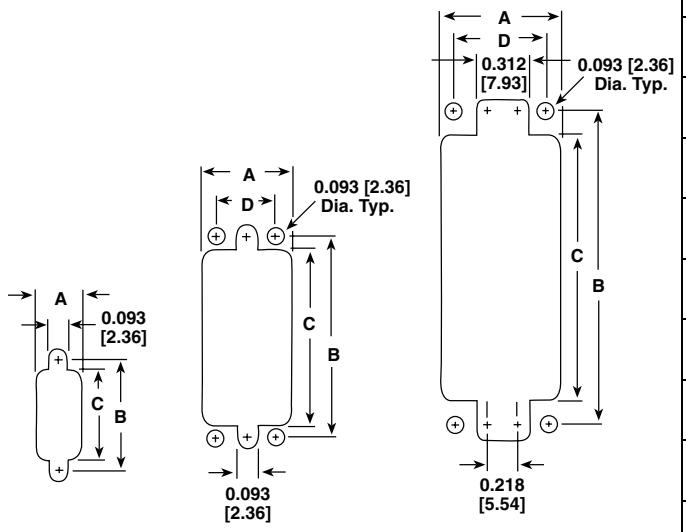


FIGURE I FIGURE II FIGURE III

NUMBER OF CONTACTS	A	B	C	D	FIGURE
5	0.230 [5.84]	0.531 [13.49]	0.410 [10.41]	-	I
7	0.230 [5.84]	0.625 [15.88]	0.500 [12.70]	-	
11	0.340 [8.64]	0.625 [15.88]	0.530 [13.46]	-	
14	0.340 [8.64]	0.750 [19.05]	0.620 [15.75]	-	
20	0.340 [8.64]	1.0 [25.40]	0.910 [23.11]	-	
26	0.340 [8.64]	1.25 [31.75]	1.16 [29.46]	-	
34	0.500 [12.70]	1.312 [33.32]	1.16 [29.46]	0.343 [8.71]	II
42	0.500 [12.70]	1.562 [39.68]	1.41 [35.81]	0.343 [8.71]	
50	0.500 [12.70]	1.812 [46.02]	1.66 [42.16]	0.343 [8.71]	
75	0.720 [18.29]	1.812 [46.02]	1.66 [42.16]	0.562 [14.28]	III

ORDERING INFORMATION

C	SM	B	S	20	G	–	26	R	027 (1)
CONTACTS	MODEL	CONTACT TYPE	CONTACT STYLE	CONTACT SIZE	PLATING		NUMBER OF CONTACTS	(OPTIONAL)	HARDWARE OPTIONS

MODEL: Subminiature

CONTACT STYLE: P = Pin; S = Socket

CONTACT SIZE: #20 AWG

NUMBER OF CONTACTS: 5, 7, 11, 14, 20, 26, 34, 42, 50, 75

CONTACTS (OPTIONAL): Closed entry socket contacts only. Omit for standard contacts.

PLATING: Optional plating available:
G = Gold (0.00003 thick) over nickel
G5 = Gold (0.00005 thick) over nickel
Omit designator for gold (0.00001 thick) over nickel

(OPTIONAL): R = Reversed guides or screwlocks
Omit for standard

CONTACT TYPE (OPTIONAL):
B = Beryllium copper, socket contacts (Solder cup)
D = Dip solder contacts

HARDWARE OPTIONS (Omit if no hardware desired):
027 = Slotted cres guides 0.090" [2.29 mm] 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.

Note
(1) To order complete connector with hardware supplied unassembled, add suffix “UA” on end of hardware designation.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

Как с нами связаться

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