Rack and Panel Connectors Military, MIL-C-28748/7/8 Qualified and Commercial Microminiature Rectangular



FEATURES

- Qualified to MIL-C-28748/7/8
- Solder cup contacts
- Dip solder contacts
- Fixed and turnable screwlocks
- Optional closed entry socket contacts

APPLICATIONS

Especially suited for use in airborne, instrumentation and portable equipment applications or wherever the following requirements must be met: Minimum space and weight without sacrifice of performance, high quality materials, long service life, high vibration and shock resistance and positive locking.

ELECTRICAL SPECIFICATIONS

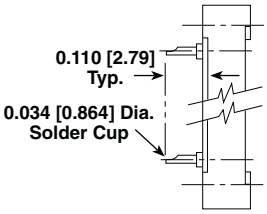
Current Rating: Model MM22 = 5 A
Model MM24 = 3 A
Breakdown Voltage: At sea level: 2000 V_{RMS}
At 70 000 feet: 500 V_{RMS}

MATERIAL SPECIFICATIONS

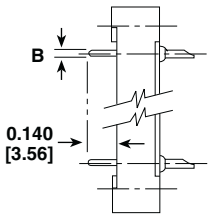
Contact Pin: Phosphor bronze
Contact Socket: Phosphor bronze (Beryllium copper available on request)
Contact Plating: Gold
Screwlocks: Stainless steel, passivated
Guides: Brass, gold plated or stainless steel, passivated
Standard Body: Glass-filled diallyl phthalate per MIL-M-14, Model SDG-F, green

DIMENSIONS in inches [millimeters]

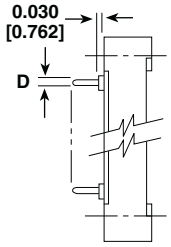
MMS
With Solder Cup Contacts



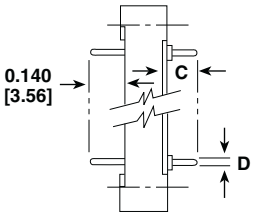
MMP
With Solder Cup Contacts



MMDS
With Dip Solder Contacts



MMDP
With Dip Solder Contacts

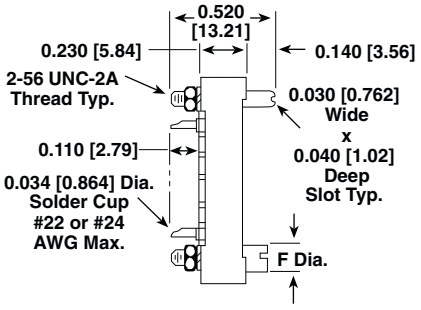


CONTACT GAUGE	B DIAMETER	CONTACT GAUGE	C DIP TAIL LENGTH	D DIAMETER
22 AWG	0.030 ± 0.001 [0.762 ± 0.025]	22 AWG	0.160 or 0.350 [4.06 or 8.89] nom.	0.025 [0.635]
24 AWG	0.025 ± 0.001 [0.635 ± 0.025]	24 AWG	0.160 or 0.350 [4.06 or 8.89] nom.	0.025 [0.635]

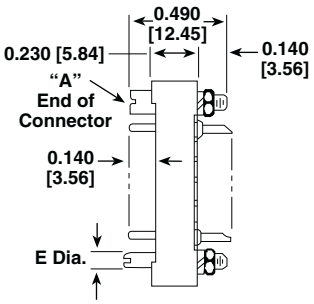
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DIMENSIONS in inches [millimeters]

MMS With Fixed (026, 027) Guides

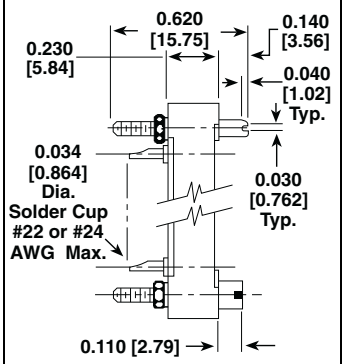


MMP With Fixed (026, 027) Guides

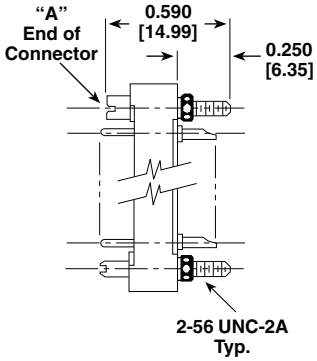


HARDWARE TYPE	E DIAMETER	F DIAMETER
026	0.078 [1.98]	0.125 [3.17]
026L	0.078 [1.98]	0.125 [3.17]
027	0.078 [1.98]	0.125 [3.17]
027L	0.078 [1.98]	0.125 [3.17]

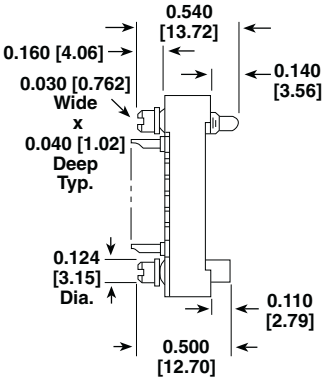
MMS With Fixed (026L, 027L) Guides



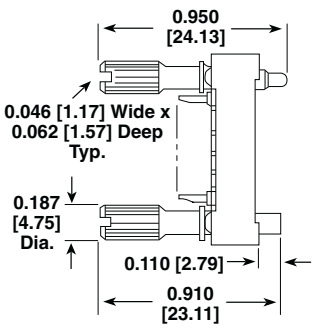
MMP With Fixed (026L, 027L) Guides



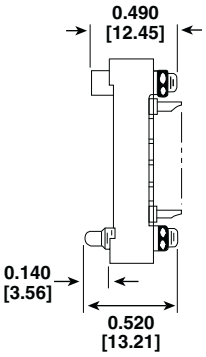
Short Turnable Screwlocks (SK030)



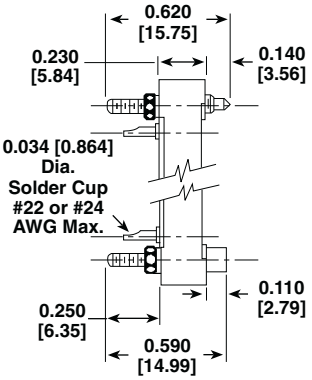
Turnable Screwlocks (SK)



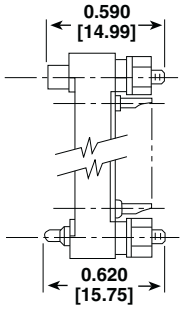
Fixed Screwlocks (SL)



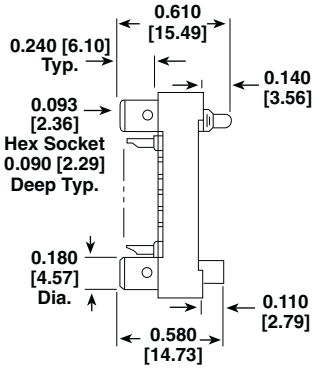
Fixed Screwlocks (SLL)



Fixed Screwlocks And Nylon Retaining Nut And Fiber Washer (NSL)



Short Turnable Screwlocks (SK2035)



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HARDWARE MATING CHART

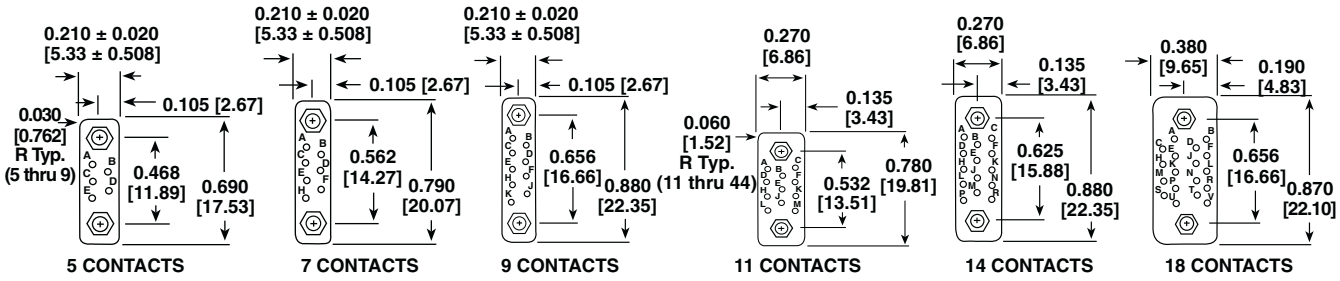
HARDWARE MODEL	MATES WITH HARDWARE MODEL
026	026, 026L
027	027, 027L
SK	SL, NSL or SLL
SK030	SL, NSL or SLL
SK2	SL2, NSL2 or SL2L
SK2030	SL2, NSL2 or SL2L
SK2035	SL2, NSL2 or SL2L

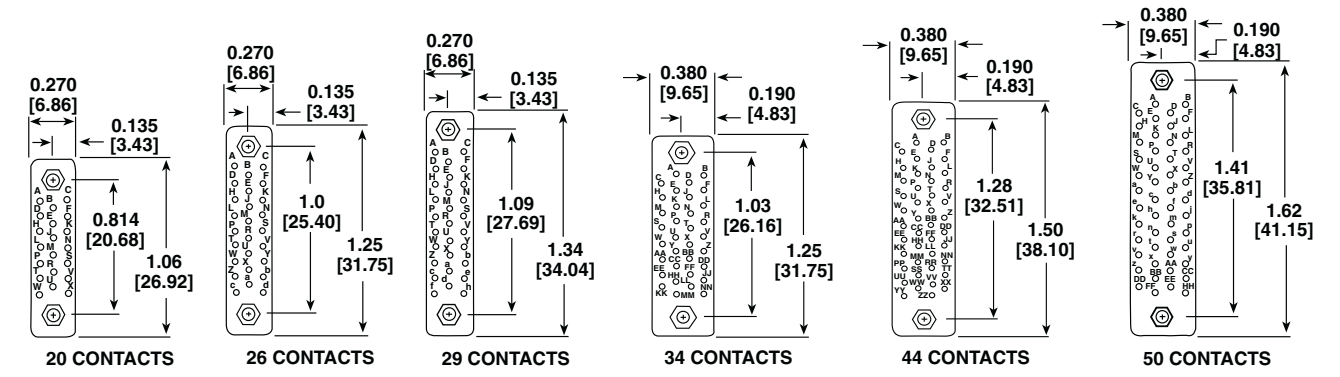
NOTE:
EITHER MMP OR MMS CONNECTORS MAY BE ORDERED WITH ANY TYPE OF HARDWARE SHOWN.

EXAMPLES:
1. MMP WITH 026 HARDWARE WOULD MATE WITH AN MMS WITH 026 HARDWARE.
2. MMS WITH SK HARDWARE WOULD MATE WITH AN MMP WITH SL OR NSL HARDWARE.
3. MMS WITH SL2 HARDWARE WOULD MATE WITH AN MMP WITH SK2 OR SK2030 HARDWARE.

DIMENSIONS in inches [millimeters]

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

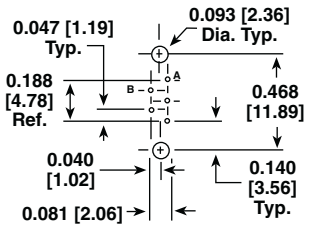




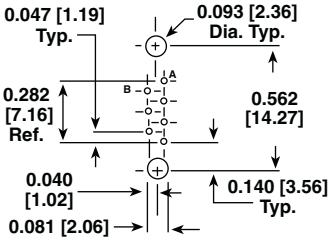
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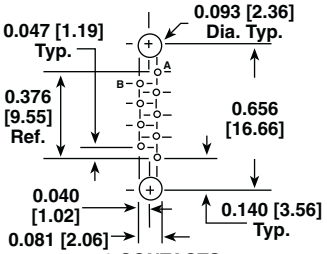
MOUNTING VARIATIONS in inches [millimeters]



5 CONTACTS

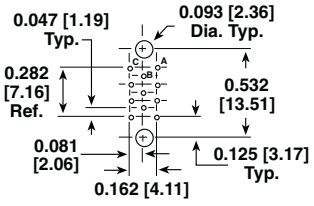


7 CONTACTS

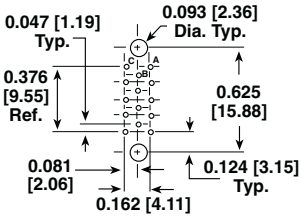


9 CONTACTS

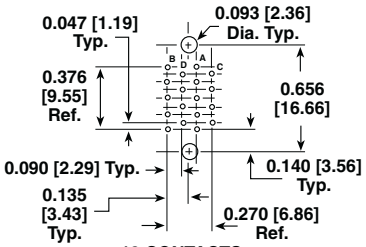
DIP SOLDER PC BOARD MOUNTING PATTERNS
Male (MMP) connector shown - female is opposite. Contact, contact row and mating hole C_L to C_L Dimensions also applies to solder cup style connectors.



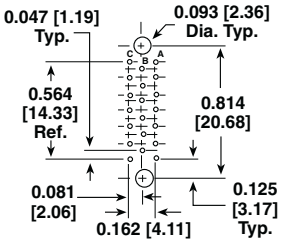
11 CONTACTS



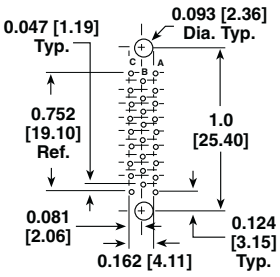
14 CONTACTS



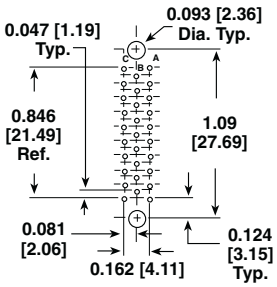
18 CONTACTS



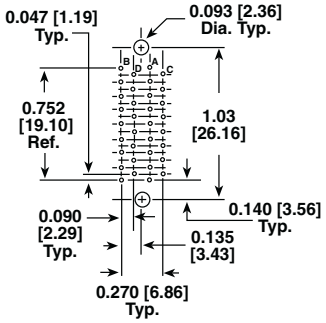
20 CONTACTS



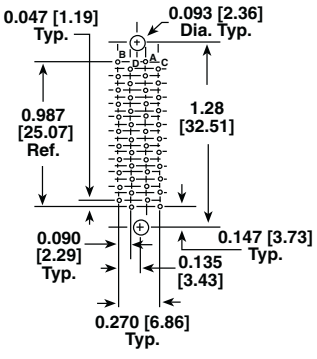
26 CONTACTS



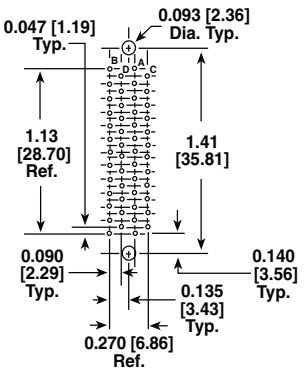
29 CONTACTS



34 CONTACTS



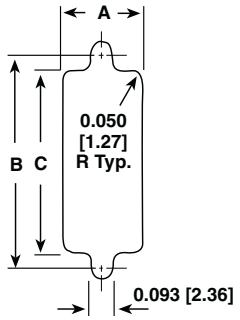
44 CONTACTS



50 CONTACTS

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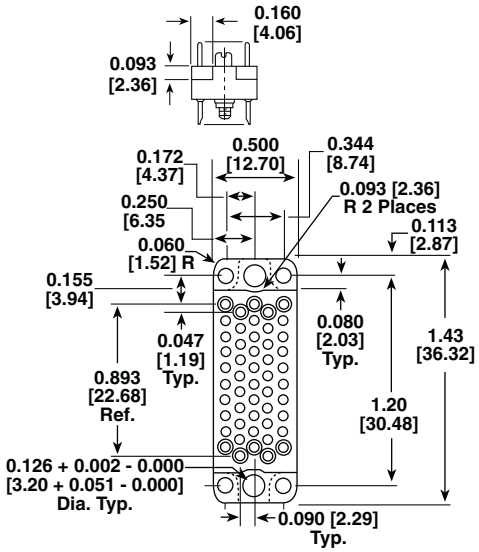
PANEL CUTOUT in inches [millimeters]

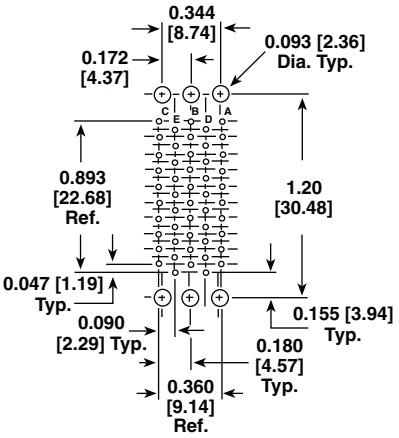


NUMBER OF CONTACTS	A	B	C	NUMBER OF CONTACTS	A	B	C
5	0.210 [5.33]	0.468 [11.89]	0.340 [8.64]	20	0.270 [6.86]	0.814 [20.68]	0.690 [17.53]
7	0.210 [5.33]	0.562 [14.27]	0.440 [11.18]	26	0.270 [6.86]	1.0 [25.40]	0.870 [22.10]
9	0.210 [5.33]	0.656 [16.66]	0.530 [13.46]	29	0.270 [6.86]	1.09 [27.69]	0.970 [24.64]
11	0.270 [6.86]	0.532 [13.51]	0.410 [10.41]	34	0.380 [9.65]	1.03 [26.16]	0.910 [23.11]
14	0.270 [6.86]	0.625 [15.88]	0.500 [12.70]	44	0.380 [9.65]	1.28 [32.51]	1.16 [29.46]
18	0.380 [9.65]	0.656 [16.66]	0.530 [13.46]	50	0.380 [9.65]	1.41 [35.81]	1.28 [32.51]

DIMENSIONS in inches [millimeters]

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

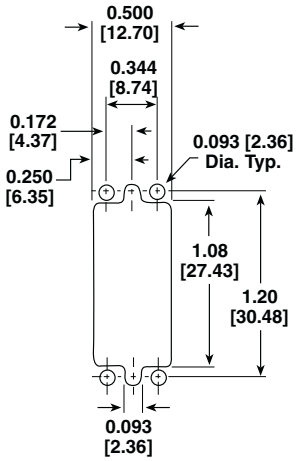




"C50" Configuration

PANEL CUTOUT

in inches [millimeters]



"C50" Configuration

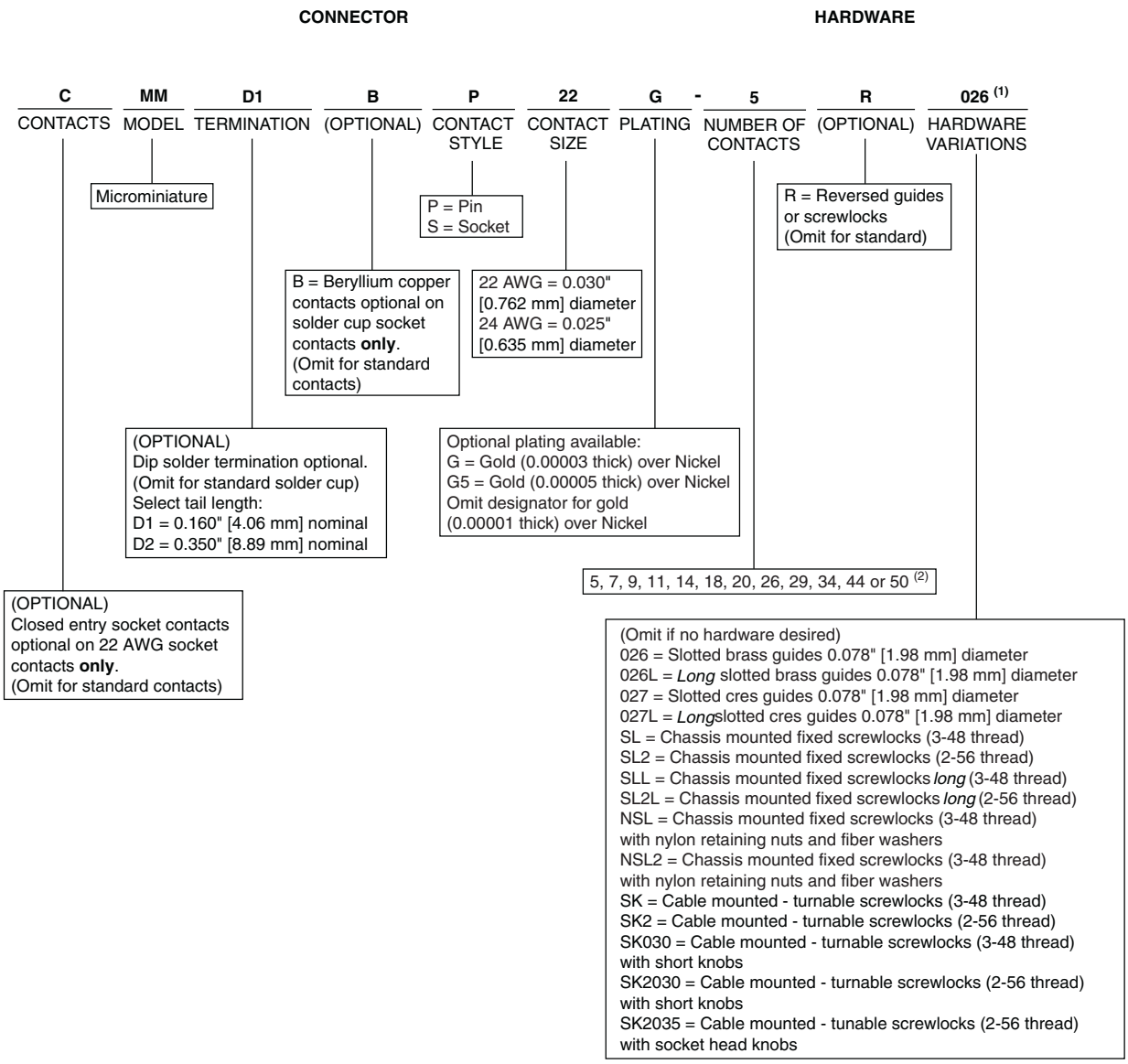
DIP SOLDER PC BOARD MOUNTING PATTERNS

Male (MMP) connector shown - female is opposite. Contact, contact row and mating hole C_L to C_L dimensions also applies to solder cup style connectors.

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ORDERING INFORMATION



Notes

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

(2) 50 contact connectors are available in either the standard 4-row contact arrangement per MIL-C-28748 or a special 5-row contact arrangement. To order the special 5-row contact arrangement, use the designator “C50” for the number of contacts.

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