



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



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]

DIMENSIONS in inches [millimeters]				
		HARDWARE TYPE	E DIAMETER	F DIAMETER
<p>MMS With Fixed (026, 027) Guides</p> <p>0.520 [13.21] 0.230 [5.84] 2-56 UNC-2A Thread Typ. 0.140 [3.56] 0.030 [0.762] Wide x 0.040 [1.02] Deep Slot Typ. 0.110 [2.79] 0.034 [0.864] Dia. Solder Cup #22 or #24 AWG Max. F Dia.</p>	<p>MMP With Fixed (026, 027) Guides</p> <p>0.490 [12.45] 0.230 [5.84] "A" End of Connector 0.140 [3.56] E Dia.</p>	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]
<p>MMS With Fixed (026L, 027L) Guides</p> <p>0.620 [15.75] 0.230 [5.84] 0.140 [3.56] 0.040 [1.02] Typ. 0.034 [0.864] Dia. Solder Cup #22 or #24 AWG Max. 0.030 [0.762] Typ. 0.110 [2.79]</p>	<p>MMP With Fixed (026L, 027L) Guides</p> <p>"A" End of Connector 0.590 [14.99] 0.250 [6.35] 2-56 UNC-2A Typ.</p>	<p>Short Turnable Screwlocks (SK030)</p> <p>0.540 [13.72] 0.160 [4.06] 0.030 [0.762] Wide x 0.040 [1.02] Deep Typ. 0.124 [3.15] Dia. 0.110 [2.79] 0.500 [12.70]</p>		<p>Turnable Screwlocks (SK)</p> <p>0.950 [24.13] 0.046 [1.17] Wide x 0.062 [1.57] Deep Typ. 0.187 [4.75] Dia. 0.110 [2.79] 0.910 [23.11]</p>
<p>Fixed Screwlocks (SL)</p> <p>0.490 [12.45] 0.140 [3.56] 0.520 [13.21]</p>	<p>Fixed Screwlocks (SLL)</p> <p>0.620 [15.75] 0.230 [5.84] 0.140 [3.56] 0.034 [0.864] Dia. Solder Cup #22 or #24 AWG Max. 0.250 [6.35] 0.590 [14.99] 0.110 [2.79]</p>	<p>Fixed Screwlocks And Nylon Retaining Nut And Fiber Washer (NSL)</p> <p>0.590 [14.99] 0.620 [15.75]</p>		<p>Short Turnable Screwlocks (SK2035)</p> <p>0.610 [15.49] 0.240 [6.10] Typ. 0.093 [2.36] Hex Socket 0.090 [2.29] Deep Typ. 0.180 [4.57] Dia. 0.110 [2.79] 0.580 [14.73]</p>

HARDWARE MATING CHART		
HARDWARE MODEL	MATES WITH HARDWARE MODEL	NOTE:
026	026, 026L	<p>EITHER MMP OR MMS CONNECTORS MAY BE ORDERED WITH ANY TYPE OF HARDWARE SHOWN.</p> <p>EXAMPLES:</p> <ol style="list-style-type: none"> 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.
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	



MOUNTING VARIATIONS in inches [millimeters]



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]



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.

HOOD VARIATIONS in inches [millimeters]

HOOD VARIATIONS in inches [millimeters]					
027H 					
5, 7, 9 CONTACTS		11, 14, 20, 26, 29 CONTACTS		34, 44, 50 CONTACTS	
SKH or SK2H 					
5, 7, 9 CONTACTS		11, 14, 20, 26, 29 CONTACTS		34, 44, 50 CONTACTS	
NUMBER OF CONTACTS	A ± 0.016 [0.406]	B ± 0.030 [0.76]	C	D ± 0.016 [0.406]	"E" CABLE OPENING SQ. IN. [mm ²]
5	0.690 [17.53]	0.650 [16.51]	0.468 [11.89]	0.310 [7.87]	0.028 [0.711]
7	0.780 [19.81]	0.650 [16.51]	0.562 [14.27]	0.440 [11.18]	0.037 [0.940]
9	0.870 [22.10]	0.650 [16.51]	0.656 [16.66]	0.500 [12.70]	0.052 [1.321]
11	0.780 [19.81]	0.650 [16.51]	0.532 [13.51]	0.440 [11.18]	0.054 [1.372]
14	0.870 [22.10]	0.650 [16.51]	0.625 [15.88]	0.500 [12.70]	0.076 [1.930]
20	1.06 [26.92]	0.650 [16.51]	0.814 [20.68]	0.620 [15.75]	0.105 [2.667]
26	1.25 [31.75]	0.650 [16.51]	1.00 [25.40]	0.620 [15.75]	0.105 [2.667]
29	1.34 [34.04]	0.650 [16.51]	1.09 [27.67]	0.620 [15.75]	0.105 [2.667]
34	1.25 [31.75]	0.650 [16.51]	1.03 [26.16]	0.500 [12.70]	0.160 [4.064]
44	1.50 [38.10]	1.17 [29.72]	1.28 [32.51]	0.500 [12.70]	0.190 [4.826]
50	1.62 [41.15]	1.17 [29.72]	1.41 [35.81]	0.620 [15.75]	0.202 [5.131]



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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