



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



### FEATURES

- Qualified to MIL-C-28748/7/8
- Solder cup contacts
- Fixed and turnable screwlocks
- Closed entry socket contacts
- Group A, B testing per MIL-C-28748

### 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

**Breakdown Voltage:** At sea level: 2000 V<sub>RMS</sub>

At 70 000 feet: 500 V<sub>RMS</sub>

### MATERIAL SPECIFICATIONS

**Contact Pin:** Phosphor bronze

**Contact Socket:** Phosphor bronze

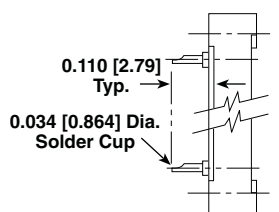
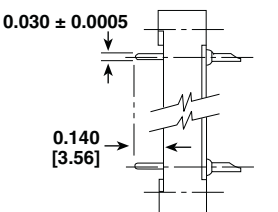
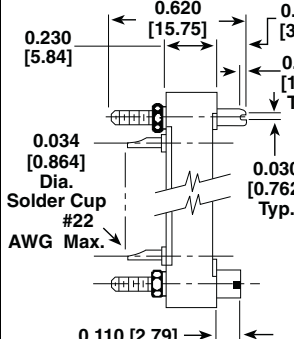
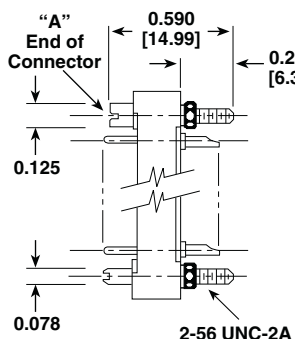
**Contact Plating:** Gold 50 micro-inches per ASTM B488

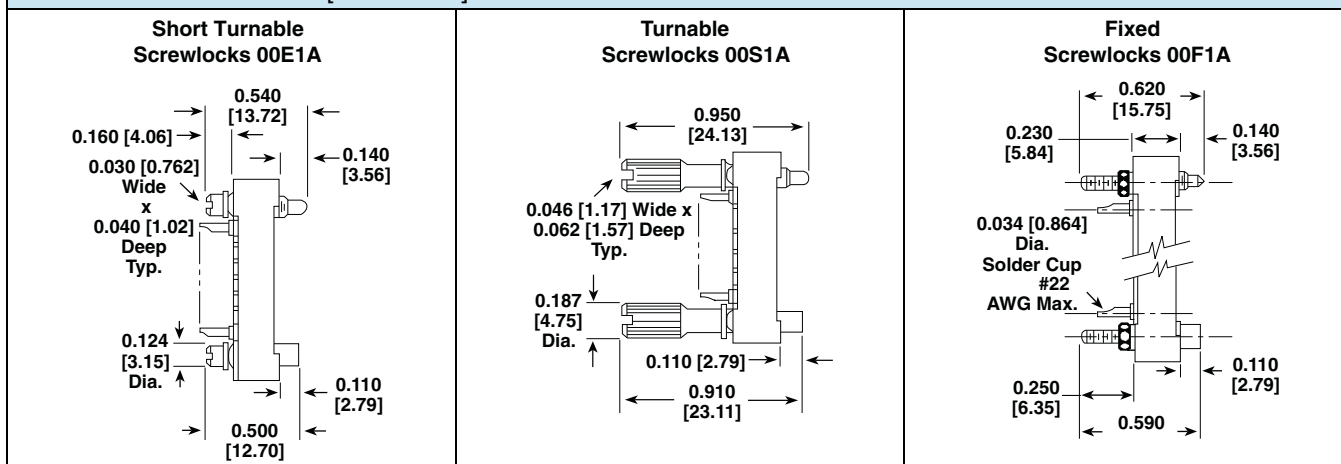
**Screwlocks:** Stainless steel, passivated

**Guides:** Stainless steel, passivated

**Standard Body:** Glass-filled diallyl phthalate per ASTM D5948, Model SDG-F, green

### DIMENSIONS in inches [millimeters]

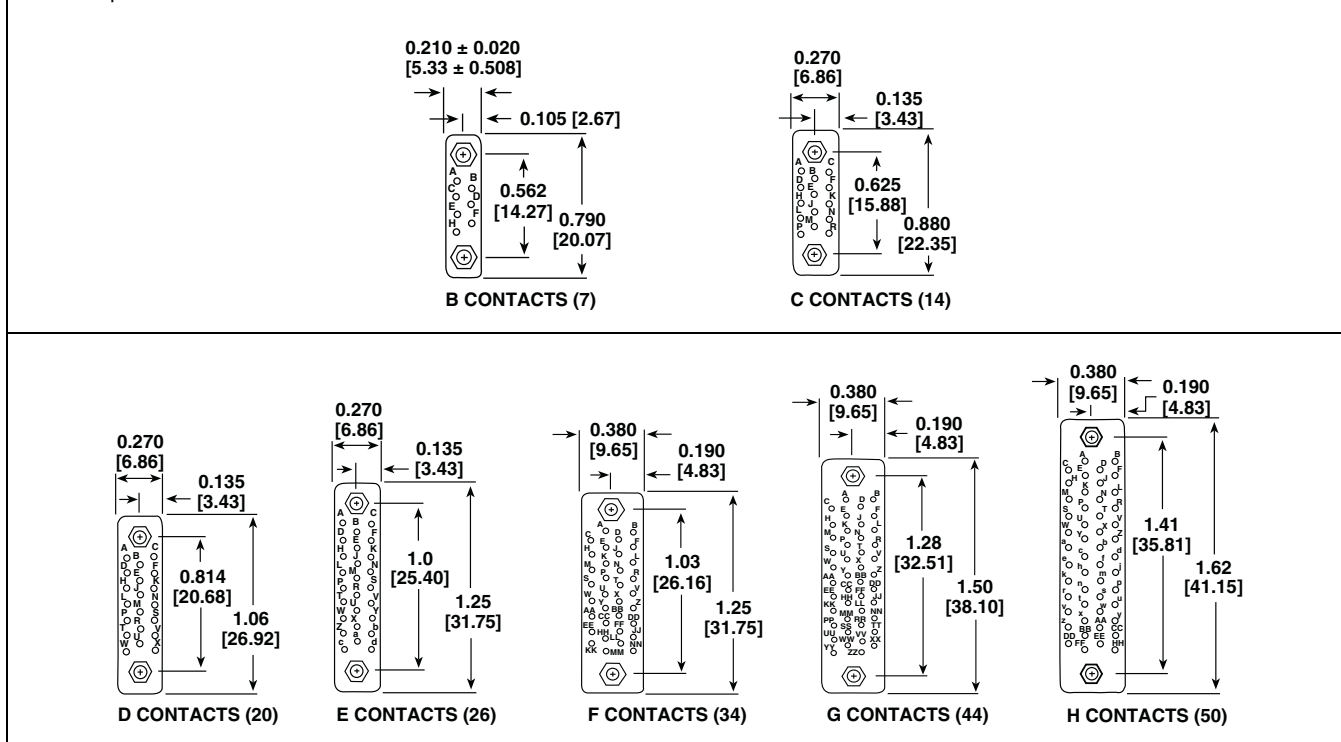
| /8                                                                                   |  | /7                                                                                    |  |
|--------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| With Solder Cup Contacts                                                             |  | With Solder Cup Contacts                                                              |  |
|   |  |    |  |
| Sockets                                                                              |  | Pins                                                                                  |  |
| /8                                                                                   |  | /7                                                                                    |  |
| With Fixed Guides 00G1A                                                              |  | With Fixed Guides 00G1A                                                               |  |
|  |  |  |  |

**DIMENSIONS** in inches [millimeters]

**HARDWARE MATING CHART**

| HARDWARE MODEL | MATES WITH HARDWARE MODEL | <b>NOTE:</b><br>Either /7 or /8 connectors may be ordered with any type of hardware shown<br><b>EXAMPLE:</b><br>/8 with 00F1A hardware would mate with an MMP with 00S1A or 00E1A hardware |
|----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00S1A          | 00F1A                     |                                                                                                                                                                                            |
| 00E1A          | 00F1A                     |                                                                                                                                                                                            |

**DIMENSIONS** in inches [millimeters]

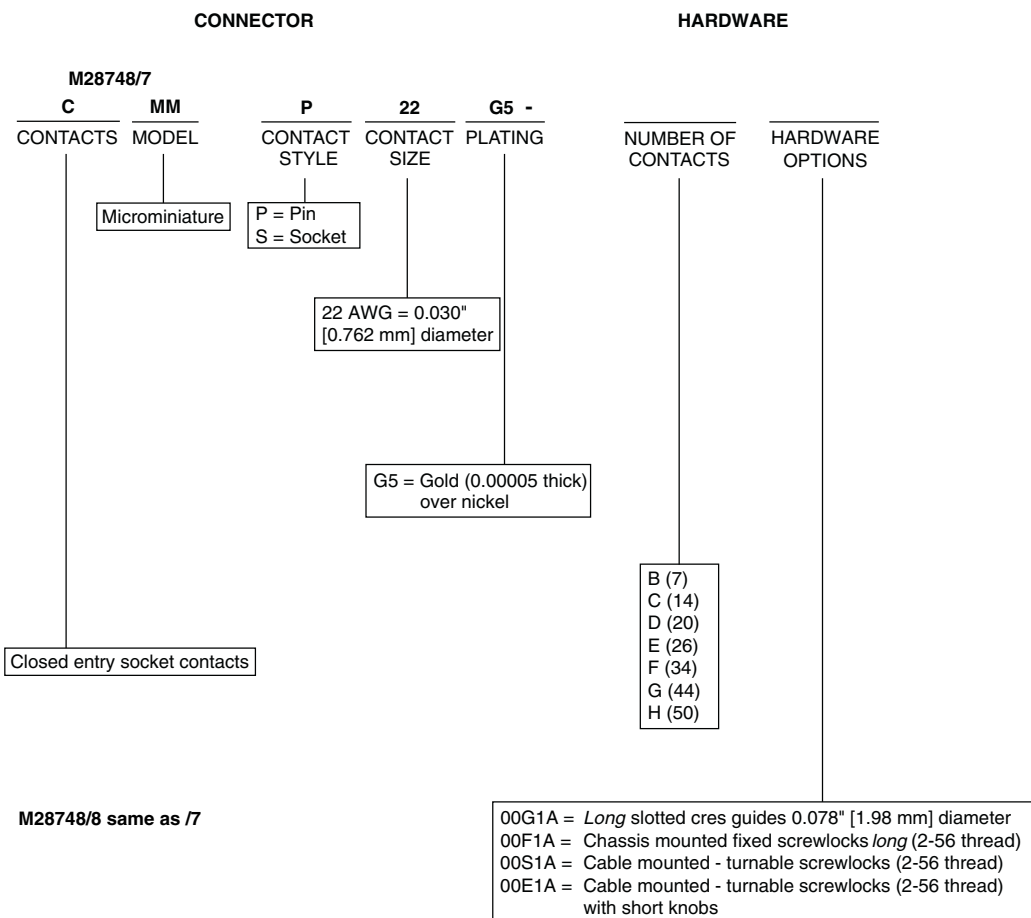
**NOTE:** The views below show the wiring side of a pin model connector (female is opposite). Socket hardware assembled at "A" contact end of a pin model connector



**PANEL CUTOUT** in inches [millimeters]

|  | NUMBER OF CONTACTS | A            | B             | C             | NUMBER OF CONTACTS | A            | B            | C             |
|--|--------------------|--------------|---------------|---------------|--------------------|--------------|--------------|---------------|
|  | B (7)              | 0.210 [5.33] | 0.562 [14.27] | 0.440 [11.18] | F (34)             | 0.380 [9.65] | 1.03 [26.16] | 0.910 [23.11] |
|  | C (14)             | 0.270 [6.86] | 0.625 [15.88] | 0.500 [12.70] | G (44)             | 0.380 [9.65] | 1.28 [32.51] | 1.16 [29.46]  |
|  | D (20)             | 0.270 [6.86] | 0.814 [20.68] | 0.690 [17.53] | H (50)             | 0.380 [9.65] | 1.41 [35.81] | 1.28 [32.51]  |
|  | E (26)             | 0.270 [6.86] | 1.0 [25.40]   | 0.870 [22.10] |                    |              |              |               |

## ORDERING INFORMATION



**MIL-C-28748 CROSS REFERENCE** for Vishay Dale Connectors

| MIL MODEL #     | VISHAY MODEL #   | MIL MODEL #     | VISHAY MODEL #    |
|-----------------|------------------|-----------------|-------------------|
| M28748/7-B00E1A | MMP22G5-7SK2030  | M28748/8-B00E1A | CMMS22G5-7SK2030  |
| M28748/7-B00F1A | MMP22G5-7SL2L    | M28748/8-B00F1A | CMMS22G5-7SL2L    |
| M28748/7-B00G1A | MMP22G5-7027L    | M28748/8-B00G1A | CMMS22G5-7027L    |
| M28748/7-B00S1A | MMP22G5-7SK2     | M28748/8-B00S1A | CMMS22G5-7SK2     |
| M28748/7-C00E1A | MMP22G5-14SK2030 | M28748/8-C00E1A | CMMS22G5-14SK2030 |
| M28748/7-C00F1A | MMP22G5-14SL2L   | M28748/8-C00F1A | CMMS22G5-14SL2L   |
| M28748/7-C00G1A | MMP22G5-14027L   | M28748/8-C00G1A | CMMS22G5-14027L   |
| M28748/7-C00S1A | MMP22G5-14SK2    | M28748/8-C00S1A | CMMS22G5-14SK2    |
| M28748/7-D00E1A | MMP22G5-20SK2030 | M28748/8-D00E1A | CMMS22G5-20SK2030 |
| M28748/7-D00F1A | MMP22G5-20SL2L   | M28748/8-D00F1A | CMMS22G5-20SL2L   |
| M28748/7-D00G1A | MMP22G5-20027L   | M28748/8-D00G1A | CMMS22G5-20027L   |
| M28748/7-D00S1A | MMP22G5-20SK2    | M28748/8-D00S1A | CMMS22G5-20SK2    |
| M28748/7-E00E1A | MMP22G5-26SK2030 | M28748/8-E00E1A | CMMS22G5-26SK2030 |
| M28748/7-E00F1A | MMP22G5-26SL2L   | M28748/8-E00F1A | CMMS22G5-26SL2L   |
| M28748/7-E00G1A | MMP22G5-26027L   | M28748/8-E00G1A | CMMS22G5-26027L   |
| M28748/7-E00S1A | MMP22G5-26SK2    | M28748/8-E00S1A | CMMS22G5-26SK2    |
| M28748/7-F00E1A | MMP22G5-34SK2030 | M28748/8-F00E1A | CMMS22G5-34SK2030 |
| M28748/7-F00F1A | MMP22G5-34SL2L   | M28748/8-F00F1A | CMMS22G5-34SL2L   |
| M28748/7-F00G1A | MMP22G5-34027L   | M28748/8-F00G1A | CMMS22G5-34027L   |
| M28748/7-F00S1A | MMP22G5-34SK2    | M28748/8-F00S1A | CMMS22G5-34SK2    |
| M28748/7-G00E1A | MMP22G5-44SK2030 | M28748/8-G00E1A | CMMS22G5-44SK2030 |
| M28748/7-G00F1A | MMP22G5-44SL2L   | M28748/8-G00F1A | CMMS22G5-44SL2L   |
| M28748/7-G00G1A | MMP22G5-44027L   | M28748/8-G00G1A | CMMS22G5-44027L   |
| M28748/7-G00S1A | MMP22G5-44SK2    | M28748/8-G00S1A | CMMS22G5-44SK2    |
| M28748/7-H00E1A | MMP22G5-50SK2030 | M28748/8-H00E1A | CMMS22G5-50SK2030 |
| M28748/7-H00F1A | MMP22G5-50SL2L   | M28748/8-H00F1A | CMMS22G5-50SL2L   |
| M28748/7-H00G1A | MMP22G5-50027L   | M28748/8-H00G1A | CMMS22G5-50027L   |
| M28748/7-H00S1A | MMP22G5-50SK2    | M28748/8-H00S1A | CMMS22G5-50SK2    |



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