



## GMSM Solder Cup, Pre-Wired and Solid Wire Single Row Connector Low Profile Metal Shell Microminiature

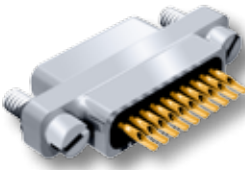


**GMSM Connectors** offer mil spec design and performance in a smaller form factor. These GMSM single row connectors are reduced in height compared to two-row Micro-D connectors.

**GMSM Connectors** feature gold plated TwistPin contacts, machined aluminum shells, and are fully potted with epoxy. Choose from 4 to 35 contacts. Available in a variety of finishes, socket connectors are fitted with Fluorosilicone interfacial seals.

D

### How To Order Solder Cup Connectors

| <br>Solder Cup | Sample Part Number |                                                                                                                                            | GMSM | 1- | 15 | P | S | B |
|-------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|----|----|---|---|---|
|                                                                                                 | Series             | GMSM Glenair Metal Shell Microminiature                                                                                                    |      |    |    |   |   |   |
|                                                                                                 | Shell Finish       | Aluminum Shell      Stainless Steel Shell<br>1 - Cadmium   2 - Nickel      3 - Passivated<br>4 - Black Anodize<br>5 - Gold   6 - Chem Film |      |    |    |   |   |   |
|                                                                                                 | Contact Layout     | 04, 06, 10, 15, 20, 25, 30, 35 (See Table II)                                                                                              |      |    |    |   |   |   |
|                                                                                                 | Contact Type       | P - Pin   S - Socket                                                                                                                       |      |    |    |   |   |   |
|                                                                                                 | Termination Type   | S - Solder Cup                                                                                                                             |      |    |    |   |   |   |
|                                                                                                 | Hardware           | B, P, M, M1, S, S1, L, K, F, R (See Table I)                                                                                               |      |    |    |   |   |   |

### How To Order Insulated Wire Connector

| How To Order Insulated Wire Connector                                                                          |                    |                                                                                                                                                                              |      |    |    |    |   |   |    |    |   |
|----------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|----|----|---|---|----|----|---|
| <br>Insulated Wire Pigtails | Sample Part Number |                                                                                                                                                                              | GMSM | 2- | 10 | P- | 6 | K | 1- | 18 | B |
|                                                                                                                | Series             | GMSM<br>Glenair Metal Shell Microminiature                                                                                                                                   |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Shell Finish       | Aluminum Shell      Stainless Steel Shell<br>1 - Cadmium      3 - Passivated<br>2 - Nickel<br>4 - Black Anodized<br>5 - Gold<br>6 - Chem Film                                |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Number of Contacts | 04, 06, 10, 15, 20, 25, 30, 35 (See Table II)                                                                                                                                |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Contact Type       | P - Pin, S - Socket                                                                                                                                                          |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Wire Gage (AWG)    | 4 - #24   6 - #26   8 - #28 AWG                                                                                                                                              |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Wire Type          | K - M22759/11 600 Vrms Teflon (TFE) <sup>®</sup><br>J - M22759/33600 Vrms Modified Cross-Linked Tefzel (ETFE) <sup>®</sup><br>E - NEMA HP3-EB 600 Vrms Type E M16878/4 (TFE) |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Wire Color Code    | 1 - White   2 - Yellow<br>5 - Color-Coded Stripes Per MIL-STD-681   7 - 10 Color Repeating                                                                                   |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Wire Length Inches | 18 - Wire Length In Inches. "18" Specifies 18 Inches.                                                                                                                        |      |    |    |    |   |   |    |    |   |
|                                                                                                                | Hardware           | B, P, M, M1, S, S1, L, K, F, R (See Table I)                                                                                                                                 |      |    |    |    |   |   |    |    |   |

# GMSM Solder Cup, Pre-Wired and Solid Wire Single Row Connector Low Profile Metal Shell Microminiature



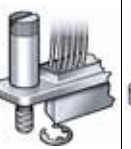
Micro-D  
Single Row

## How To Order Uninsulated Wire Connector

|                                                                                                                                   |                           |                                                                                                                                                       |             |           |           |           |          |          |           |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------|-----------|----------|----------|-----------|-------------|----------|
|  <p>Gold Plated or Solder Dipped Solid Leads</p> | <b>Sample Part Number</b> |                                                                                                                                                       | <b>GMSM</b> | <b>2-</b> | <b>10</b> | <b>P-</b> | <b>5</b> | <b>C</b> | <b>4-</b> | <b>.250</b> | <b>P</b> |
|                                                                                                                                   | <b>Series</b>             | <b>GMSM</b><br>Glenair Metal Shell Microminiature                                                                                                     |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Shell Finish</b>       | Aluminum Shell      Stainless Steel Shell<br>1 - Cadmium              3 - Passivated<br>2 - Nickel<br>4 - Black Anodized<br>5 - Gold<br>6 - Chem Film |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Number of Contacts</b> | 04, 06, 10, 15, 20, 25, 30, 35 (See Table II)                                                                                                         |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Contact Type</b>       | P - Pin, S - Socket                                                                                                                                   |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Wire Gage (AWG)</b>    | 4 - #24    5 - #26    6 - #26                                                                                                                         |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Wire Type</b>          | C - Copper Wire                                                                                                                                       |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Wire Finish</b>        | 3 - Solder Dipped (60/40/Tin/lead)    4 - Gold Plated                                                                                                 |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Wire Length Inches</b> | .125, .250, .375, .500, .750, 1.000, 2.000<br>Wire Length In Inches. ".500" Specifies Half Inch.                                                      |             |           |           |           |          |          |           |             |          |
|                                                                                                                                   | <b>Hardware</b>           | B, P, M, M1, S, S1, L, K, F, R (See Table I)                                                                                                          |             |           |           |           |          |          |           |             |          |

D

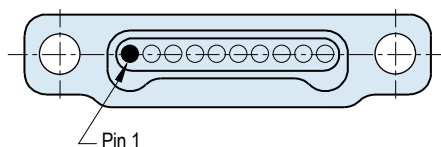
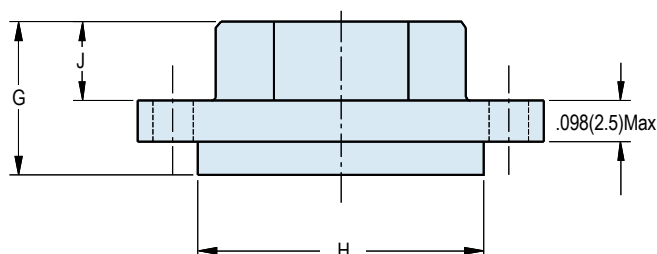
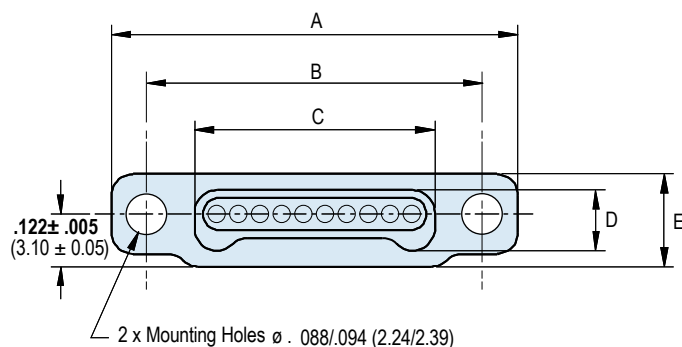
Table I: Mounting Hardware

| B                                                                                  | P                                                                                  | M                                                                                  | M1                                                                                 | S                                                                                  | S1                                                                                 | L                                                                                   | K                                                                                    | F                                                                                    | R                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |  |
| Thru-Hole<br>Order<br>Hardware<br>Separately                                       | Jackpost<br>Removable<br>Includes Nut<br>and Washer                                | Jackscrew<br>Hex Head<br>Removable<br>E-ring                                       | Jackscrew<br>Hex Head<br>Removable<br>E-ring<br>Extended                           | Jackscrew<br>Slot Head<br>Removable<br>E-ring                                      | Jackscrew<br>Slot Head<br>Removable<br>E-ring<br>Extended                          | Jackscrew<br>Hex Head<br>Non-<br>Removable                                          | Jackscrew<br>Slot Head<br>Non-<br>Removable<br>Extended                              | Float Mount<br>For Front<br>Panel<br>Mounting                                        | Float Mount<br>For Rear Panel<br>Mounting                                            |

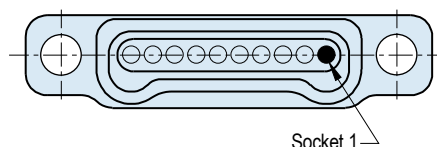
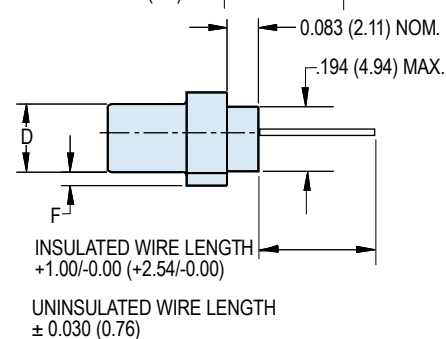
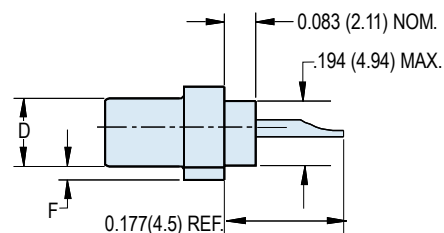


# GMSM Solder Cup, Pre-Wired and Solid Wire Single Row Connector Dimensions

Table II: Dimensions



Face View of Pin (Plug) Connector



Face View of Socket (Receptacle) Connector

| Layout | A Max. |       | B                 |                   | C Max. |       | D Max. |      | E Max. |      | F Max. |      | G Max. |      | H Max. |       | J Max. |      |
|--------|--------|-------|-------------------|-------------------|--------|-------|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|------|
|        | In.    | mm.   | In.<br>$\pm .003$ | mm.<br>$\pm 0.08$ | In.    | mm.   | In.    | mm.  | In.    | mm.  | In.    | mm.  | In.    | mm.  | In.    | mm.   | In.    | mm.  |
| 04P    | .648   | 16.45 | .478              | 12.11             | .250   | 6.37  | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | .309   | 7.85  | .184   | 4.67 |
| 04S    | .648   | 16.45 | .478              | 12.11             | .309   | 7.85  | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | .309   | 7.85  | .197   | 5.00 |
| 06P    | .748   | 19.00 | .578              | 14.65             | .350   | 8.91  | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | .409   | 10.40 | .184   | 4.67 |
| 06S    | .748   | 19.00 | .578              | 14.65             | .409   | 10.40 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | .409   | 10.40 | .197   | 5.00 |
| 10P    | .948   | 24.07 | .777              | 19.73             | .550   | 13.99 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | .609   | 15.47 | .184   | 4.67 |
| 10S    | .948   | 24.07 | .777              | 19.73             | .609   | 15.47 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | .609   | 15.47 | .197   | 5.00 |
| 15P    | 1.198  | 30.42 | 1.027             | 26.08             | .800   | 20.34 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | .859   | 21.82 | .184   | 4.67 |
| 15S    | 1.198  | 30.42 | 1.027             | 26.08             | .859   | 21.82 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | .859   | 21.82 | .197   | 5.00 |
| 20P    | 1.448  | 36.77 | 1.277             | 32.43             | 1.050  | 26.69 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | 1.109  | 28.17 | .184   | 4.67 |
| 20S    | 1.448  | 36.77 | 1.277             | 32.43             | 1.109  | 28.17 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | 1.109  | 28.17 | .197   | 5.00 |
| 25P    | 1.698  | 43.12 | 1.527             | 38.78             | 1.300  | 33.04 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | 1.359  | 34.52 | .184   | 4.67 |
| 25S    | 1.698  | 43.12 | 1.527             | 38.78             | 1.359  | 34.52 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | 1.359  | 34.52 | .197   | 5.00 |
| 30P    | 1.948  | 49.47 | 1.777             | 45.13             | 1.550  | 39.39 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | 1.609  | 40.87 | .184   | 4.67 |
| 30S    | 1.948  | 49.47 | 1.777             | 45.13             | 1.609  | 40.87 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | 1.609  | 40.87 | .197   | 5.00 |
| 35P    | 2.198  | 55.82 | 2.027             | 51.48             | 1.800  | 45.74 | .135   | 3.42 | .218   | 5.54 | .041   | 1.03 | .358   | 9.10 | 1.859  | 47.22 | .184   | 4.67 |
| 35S    | 2.198  | 55.82 | 2.027             | 51.48             | 1.859  | 47.22 | .194   | 4.94 | .218   | 5.54 | .012   | 0.30 | .370   | 9.40 | 1.859  | 47.22 | .197   | 5.00 |