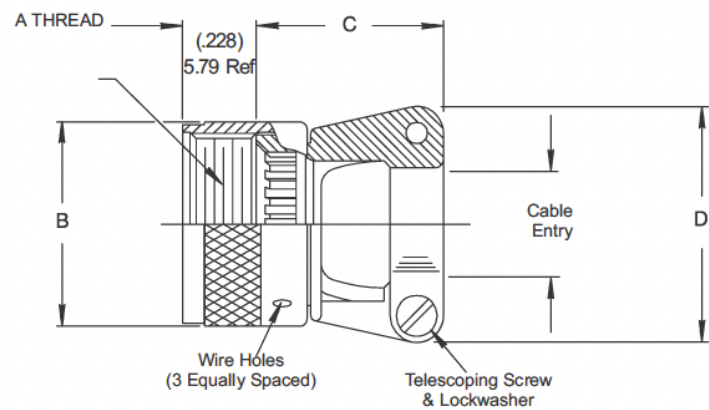


M28840/1 STRAIGHT STRAIN RELIEF BACKSHELL

|                                        |                                                                               |                                                                                                                                                                |
|----------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M28840/1                               | J                                                                             | W                                                                                                                                                              |
| DESIGNATION                            | SHELL SIZE                                                                    | MATERIAL & FINISH                                                                                                                                              |
| QPL: M28840/1<br>Commercial: IN28840/1 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) |

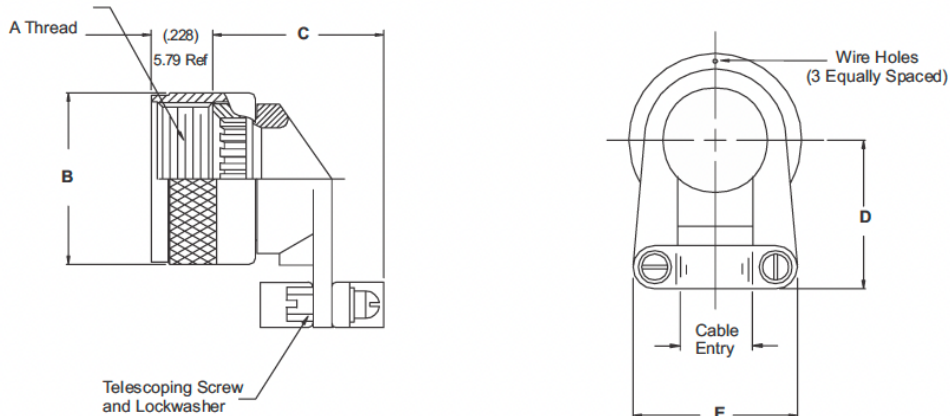


| TABLE A             |            |                   |               |               |               |                 |               |               |
|---------------------|------------|-------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Max.        | D Max.        | Screw Size Ref. | A Cable Entry |               |
|                     |            |                   |               |               |               |                 | Min.          | Max.          |
| A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.091) 27.71 | (.903) 2.94   | .114-40         | (.177) 4.50   | (.286) 7.26   |
| B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.091) 27.71 | (.977) 24.82  | .114-40         | (.177) 4.50   | (.286) 7.26   |
| C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.091) 27.71 | (1.151) 29.24 | .114-40         | (.250) 6.35   | (.416) 10.57  |
| D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.206) 30.63 | (1.281) 32.54 | .114-40         | (.291) 7.39   | (.476) 12.09  |
| E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.320) 33.53 | (1.406) 35.71 | .114-40         | (.348) 8.84   | (.626) 15.90  |
| F                   | 23         | 1.438-18 UNEF     | (1.703) 43.26 | (1.445) 36.70 | (1.576) 40.03 | .134-32         | (.429) 10.90  | (.831) 21.11  |
| G                   | 25         | 1.562-18 UNEF     | (1.825) 46.36 | (1.570) 39.88 | (1.666) 42.32 | .134-32         | (.523) 13.28  | (.956) 24.28  |
| H                   | 29         | 1.875-16 UN       | (2.143) 54.43 | (1.721) 43.71 | (2.046) 51.97 | .134-32         | (.643) 16.33  | (1.081) 27.46 |
| J                   | 33         | 2.062-16 UNS      | (2.329) 59.16 | (1.908) 48.46 | (2.209) 56.11 | .162-32         | (.704) 17.88  | (1.187) 30.15 |

\* Dimensions in (inches) mm

M28840/2 90° STRAIN RELIEF BACKSHELL

|                                        |                                                                               |                                                                                                                                                                |
|----------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M28840/2                               | J                                                                             | W                                                                                                                                                              |
| DESIGNATION                            | SHELL SIZE                                                                    | MATERIAL & FINISH                                                                                                                                              |
| QPL: M28840/2<br>Commercial: IN28840/2 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) |



| TABLE A             |            |                   |               |               |               |               |                 |              |               |
|---------------------|------------|-------------------|---------------|---------------|---------------|---------------|-----------------|--------------|---------------|
| Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Max.        | D Max.        | E Max.        | Screw Size Ref. | Cable Entry  |               |
|                     |            |                   |               |               |               |               |                 | Min.         | Max.          |
| A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.071) 27.20 | (.929) 23.60  | (.903) 22.94  | .114-40         | (.177) 4.50  | (.286) 7.26   |
| B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.071) 27.20 | (.929) 23.60  | (.977) 24.82  | .114-40         | (.177) 4.50  | (.286) 7.26   |
| C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.280) 32.51 | (1.056) 26.82 | (1.151) 29.24 | .114-40         | (.250) 6.35  | (.416) 10.57  |
| D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.392) 35.36 | (1.233) 31.32 | (1.281) 32.54 | .114-40         | (.291) 7.39  | (.476) 12.09  |
| E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.517) 38.53 | (1.296) 32.92 | (1.406) 35.71 | .114-40         | (.348) 8.84  | (.626) 15.90  |
| F                   | 23         | 1.438-18 UNEF     | (1.703) 43.26 | (1.642) 41.71 | (1.358) 34.49 | (1.576) 40.03 | .134-32         | (.429) 10.90 | (.831) 21.11  |
| G                   | 25         | 1.562-18 UNEF     | (1.825) 46.36 | (1.767) 44.88 | (1.420) 36.07 | (1.666) 42.32 | .134-32         | (.523) 13.28 | (.956) 24.28  |
| H                   | 29         | 1.875-16 UN       | (2.143) 54.43 | (1.905) 48.39 | (1.634) 41.50 | (2.046) 51.97 | .134-32         | (.643) 16.33 | (1.081) 27.46 |
| J                   | 33         | 2.062-16 UNS      | (2.329) 59.16 | (1.968) 49.99 | (1.859) 47.22 | (2.209) 56.11 | .162-32         | (.704) 17.88 | (1.187) 30.15 |

\* Dimensions in (inches) mm

## M28840/3 45° STRAIN RELIEF BACKSHELLS

| M28840/3                               | J                                                                             | W                                                                                                                                                              |
|----------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNATION                            | SHELL SIZE                                                                    | MATERIAL & FINISH                                                                                                                                              |
| QPL: M28840/3<br>Commercial: IN28840/3 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) |

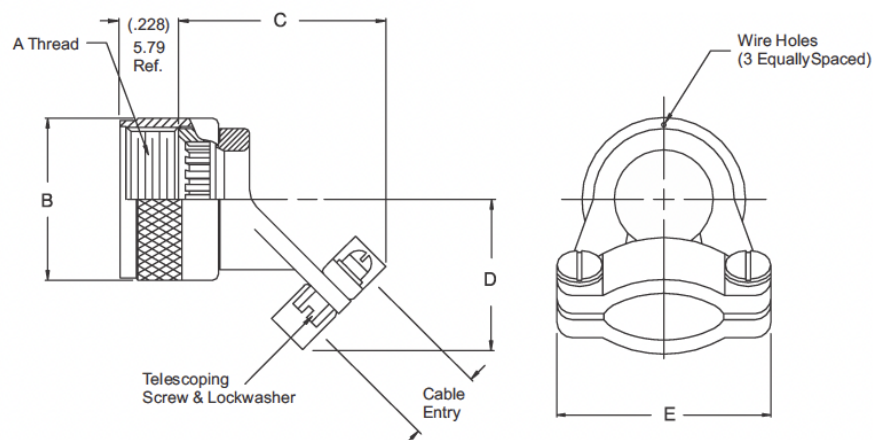


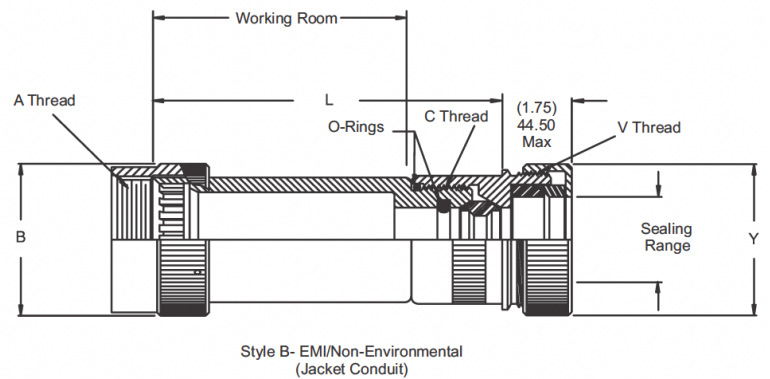
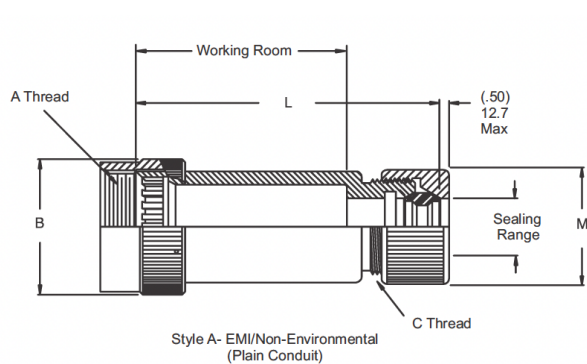
TABLE A

| Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Max.        | D Max.        | E Max.        | Screw Size Ref. | Cable Entry  |               |
|---------------------|------------|-------------------|---------------|---------------|---------------|---------------|-----------------|--------------|---------------|
|                     |            |                   |               |               |               |               |                 | Min.         | Max.          |
| A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.091) 27.71 | (.929) 23.60  | (.903) 22.94  | .114-40         | (.177) 4.50  | (.286) 7.26   |
| B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.091) 27.71 | (.929) 23.60  | (.977) 24.82  | .114-40         | (.177) 4.50  | (.286) 7.26   |
| C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.091) 27.71 | (1.056) 26.82 | (1.151) 29.24 | .114-40         | (.250) 6.35  | (.416) 10.57  |
| D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.206) 30.63 | (1.233) 31.32 | (1.281) 32.54 | .114-40         | (.291) 7.39  | (.476) 12.09  |
| E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.320) 33.53 | (1.296) 32.92 | (1.406) 35.71 | .114-40         | (.348) 8.84  | (.626) 15.90  |
| F                   | 23         | 1.438-18 UNEF     | (1.703) 43.26 | (1.445) 36.70 | (1.358) 34.49 | (1.576) 40.03 | .134-32         | (.429) 10.90 | (.831) 21.11  |
| G                   | 25         | 1.562-18 UNEF     | (1.825) 46.36 | (1.570) 39.88 | (1.420) 36.07 | (1.666) 42.32 | .134-32         | (.523) 13.28 | (.956) 24.28  |
| H                   | 29         | 1.875-16 UN       | (2.143) 54.43 | (1.721) 43.71 | (1.634) 41.50 | (2.046) 51.97 | .134-32         | (.643) 16.33 | (1.081) 27.46 |
| J                   | 33         | 2.062-16 UNS      | (2.329) 59.16 | (1.908) 48.46 | (1.859) 47.22 | (2.209) 56.11 | .162-32         | (.704) 17.88 | (1.187) 30.15 |

\* Dimensions in (inches) mm

# M28840/5 BACKSHELL FOR METAL CORE CONDUIT

| M28840/5                               | 16          | W                                                                                                                                                              | A                                                  |
|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| DESIGNATION                            | DASH #      | MATERIAL & FINISH                                                                                                                                              | BACKSHELL STYLE                                    |
| QPL: M28840/5<br>Commercial: IN28840/5 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) | A: EMI, Non-Environmental<br>B: EMI, Environmental |



| TABLE A |                     |            |              |                   |                   |                     |              |              |
|---------|---------------------|------------|--------------|-------------------|-------------------|---------------------|--------------|--------------|
| DASH #  | Military Shell Size | Shell Size | Conduit Size | L<br>+ .12 (3.05) | Working Room Ref. | V<br>Thread Class 2 | M Ø Max.     | Y Ø Max.     |
| 01      | A                   | 11         | 03           | (1.75) 44.45      | (1.00) 25.4       | 1.00-20 UNEF        | (1.12) 28.45 | 1.19 (30.23) |
| 02      | B                   | 13         |              |                   |                   | 1.188-18 UNEF       | (1.25) 31.8  | (1.38) 35.1  |
| 03      | B                   | 13         |              |                   |                   | 1.000-20 UNEF       | (1.12) 28.5  | (1.19) 30.23 |
| 04      | C                   | 15         |              |                   |                   | 1.188-30 UNEF       | (1.25) 31.8  | (1.38) 35.1  |
| 05      | C                   | 15         | 04           | (3.00) 76.2       | (1.50) 38.10      | 1.438-18 UNEF       | (1.43) 36.3  | (1.63) 41.4  |
| 06      | C                   | 15         | 05           |                   |                   | 1.750-18 UNS        | (1.62) 41.2  | (1.94) 49.3  |
| 07      | C                   | 15         | 06           |                   |                   | 1.438-18 UNEF       | (1.43) 36.3  | (1.63) 41.4  |
| 08      | D                   | 17         | 05           |                   |                   | 1.750-18 UNS        | (1.62) 41.2  | (1.94) 49.3  |
| 09      | D                   | 17         | 06           | (2.25) 57.15      | (2.00) 50.80      | 2.00-18 UNS         | (1.81) 46.0  | (2.19) 55.6  |
| 10      | D                   | 17         | 08           |                   |                   | 1.438-18 UNEF       | (1.43) 36.3  | (1.63) 41.4  |
| 11      | E                   | 19         | 05           |                   |                   | 1.750-18 UNEF       | (1.62) 41.2  | (1.94) 49.3  |
| 12      | E                   | 19         | 06           |                   |                   | 2.00-18 UNS         | (1.81) 46.2  | (2.19) 55.6  |
| 13      | E                   | 19         | 08           | (2.75) 69.85      | (1.50) 38.10      | 1.750-18 UNS        | (1.62) 41.2  | (1.94) 49.3  |
| 14      | F                   | 23         | 06           |                   |                   | 2.00-18 UN          | (1.81) 46.0  | (2.19) 55.6  |
| 15      | F                   | 23         | 08           |                   |                   | 2.00-16 UN          | (2.18) 55.4  | (2.44) 62.0  |
| 16      | F                   | 23         | 10           |                   |                   | 1.750-18 UN         | (1.62) 41.2  | (1.94) 49.3  |
| 17      | G                   | 25         | 06           | (2.75) 60.85      | (2.00) 50.80      | 2.00-18 UN          | (1.81) 46.0  | (2.19) 55.6  |
| 18      | G                   | 25         | 08           |                   |                   | 2.250-16 UN         | (2.18) 55.4  | (2.44) 62.0  |
| 19      | G                   | 25         | 10           |                   |                   | 2.500-16 UN         | (2.56) 65.0  | (2.69) 68.3  |
| 20      | G                   | 25         | 12           |                   |                   | 2.250-16 UN         | (2.18) 55.4  | (2.44) 62.0  |
| 21      | H                   | 29         | 10           | (4.00) 101.6      | (2.50) 63.50      | 2.500-16 UN         | (2.56) 65.0  | (2.66) 68.3  |
| 22      | H                   | 29         | 12           |                   |                   | 3.00-16 UN          | (3.06) 77.8  | (3.18) 81.0  |
| 23      | J                   | 33         | 12           |                   |                   | 1.188-18 UNEF       | (1.75) 31.75 | (1.38) 35.0  |
| 24      | J                   | 33         | 16           |                   |                   |                     |              |              |
| 25      | A                   | 11         | 04           | (1.75) 44.45      | (1.00) 25.4       |                     |              |              |

\* Dimensions in (inches) mm

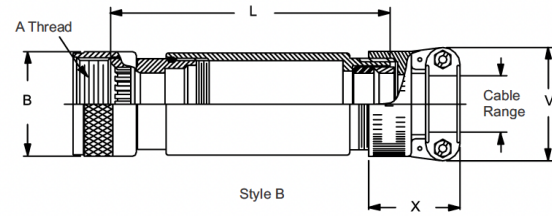
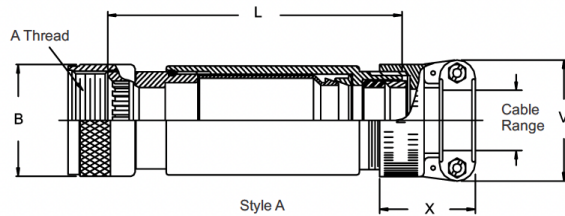
# M28840/5 BACKSHELL FOR METAL CORE CONDUIT

| TABLE A |                     |            |                      |               |                     |               |               |
|---------|---------------------|------------|----------------------|---------------|---------------------|---------------|---------------|
| DASH #  | Military Shell Size | Shell Size | A<br>Thread Class 2B | B Ø Max.      | C<br>Thread Class 2 | Sealing Range |               |
|         |                     |            |                      |               |                     | Max.          | Min.          |
| 01      | A                   | 11         | .750-20 UNEF         | (1.028) 26.11 | .875-20 UNEF        | (.63) 16.0    | (0.50) 12.7   |
| 02      | B                   | 13         | .875-20 UNEF         | (1.141) 28.98 |                     |               |               |
| 03      | B                   | 13         |                      |               |                     |               |               |
| 04      | C                   | 15         | 1.000-20 UNEF        | (1.263) 32.08 | .875-20 UNEF        | (.63) 16.0    | (.50) 12.7    |
| 05      | C                   | 15         |                      |               | 1.000-20 UNEF       | (.75) 19.1    | (.63) 16.0    |
| 06      | C                   | 15         |                      |               | 1.125-18 UNEF       | (.88) 22.4    | (.75) 19.1    |
| 07      | C                   | 15         |                      |               | 1.250-18 UNEF       | (1.00) 25.4   | (.88) 22.4    |
| 08      | D                   | 17         |                      |               | 1.250-18 UNEF       | (1.387) 35.23 | 1.125-18 UNEF |
| 09      | D                   | 17         | 1.250-18 UNEF        | (1.00) 25.4   |                     |               | (.88) 22.4    |
| 10      | D                   | 17         | 1.625-18 UNEF        | (1.38) 35.1   |                     |               | (1.19) 30.2   |
| 11      | E                   | 19         | 1.250-18 UNEF        | (1.513) 38.43 | 1.125-18 UNEF       | (.88) 22.4    | (.75) 19.1    |
| 12      | E                   | 19         |                      |               | 1.250-18 UNEF       | (1.00) 25.4   | (.88) 22.4    |
| 13      | E                   | 19         |                      |               | 1.625-18 UNEF       | (1.38) 35.1   | (1.19) 30.2   |
| 14      | F                   | 23         | 1.438-18 UNEF        | (1.703) 45.51 | 1.250-18 UNEF       | (1.00) 25.4   | (.88) 22.4    |
| 15      | F                   | 23         |                      |               | 1.625-18 UNEF       | (1.38) 35.1   | (1.19) 30.2   |
| 16      | F                   | 23         |                      |               | 1.875-18 UNS        | (1.63) 41.4   | (1.44) 36.6   |
| 17      | G                   | 25         | 1.562-18 UNEF        | (1.825) 46.35 | 1.250-18 UNEF       | (1.00) 25.4   | (.88) 22.4    |
| 18      | G                   | 25         |                      |               | 1.625-18 UNEF       | (1.38) 35.1   | (1.19) 30.2   |
| 19      | G                   | 25         |                      |               | 1.875-18 UNS        | (1.63) 41.4   | (1.44) 36.6   |
| 20      | G                   | 25         |                      |               | 2.125-16 UN         | (1.88) 47.8   | (1.63) 41.4   |
| 21      | H                   | 29         | 1.875-16 UN          | (2.143) 54.43 | 1.875-18 UNS        | (1.63) 41.4   | (1.44) 36.6   |
| 22      | H                   | 29         |                      |               | 2.125-16 UN         | (1.88) 47.8   | (1.63) 41.4   |
| 23      | J                   | 33         |                      |               | 2.062-16 UNS        | (2.329) 59.16 | 2.125-16 UN   |
| 24      | J                   | 33         | 2.750-16 UN          | (2.38) 60.5   |                     |               | (2.13) 54.1   |
| 25      | A                   | 11         | .750-20 UNEF         | (1.028) 26.11 | .875-20 UN          | (.75) 19.05   | (.63) 16.00   |

\* Dimensions in (inches) mm

# M28840/6 EMI/RFI ENVIRONMENTAL BACKSHELL

| M28840/6                               | 16          | W                                                                                                                                                              | A                                                  |
|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| DESIGNATION                            | DASH #      | MATERIAL & FINISH                                                                                                                                              | BACKSHELL STYLE                                    |
| QPL: M28840/6<br>Commercial: IN28840/6 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) | A: EMI, Non-Environmental<br>B: EMI, Environmental |



| TABLE A |                     |            |                   |               |               |               |               |               |
|---------|---------------------|------------|-------------------|---------------|---------------|---------------|---------------|---------------|
| DASH #  | Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Ø Max.      | D Ø Min.      | Cable Entry   |               |
|         |                     |            |                   |               |               |               | Max.          | Min.          |
| 01      | A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.156) 29.36 | (.750) 19.05  | (.312) 7.92   | (.188) 4.77   |
| 02      | B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.156) 29.36 | (.750) 19.05  | (.312) 7.92   | (.188) 4.77   |
| 03      | B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.156) 29.36 | (.750) 19.05  | (.438) 11.12  | (.281) 7.14   |
| 04      | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.281) 32.54 | (.875) 22.23  | (.312) 7.92   | (.188) 4.77   |
| 05      | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.281) 32.54 | (.875) 22.23  | (.438) 11.12  | (.281) 7.14   |
| 06      | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.281) 32.54 | (.875) 22.23  | (.562) 14.27  | (.344) 8.74   |
| 07      | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.406) 35.71 | (1.000) 25.40 | (.750) 19.05  | (.438) 11.12  |
| 08      | D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.406) 35.71 | (1.000) 25.40 | (.625) 15.87  | (.375) 9.52   |
| 09      | D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.406) 35.71 | (1.000) 25.40 | (.750) 19.05  | (.438) 11.12  |
| 10      | D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.531) 38.89 | (1.125) 28.58 | (.938) 23.82  | (.625) 15.87  |
| 11      | E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.531) 38.89 | (1.125) 28.58 | (.625) 15.87  | (.375) 9.52   |
| 12      | E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.531) 38.89 | (1.125) 28.58 | (.938) 23.82  | (.625) 15.87  |
| 13      | E                   | 19         | 1.438-18 UNEF     | (1.703) 45.51 | (1.656) 42.06 | (1.250) 31.75 | (.750) 19.05  | (.438) 11.12  |
| 14      | F                   | 23         | 1.438-18 UNEF     | (1.703) 45.51 | (1.656) 42.06 | (1.250) 31.75 | (.938) 23.82  | (.625) 15.87  |
| 15      | F                   | 23         | 1.438-18 UNEF     | (1.703) 45.51 | (1.781) 45.24 | (1.375) 34.93 | (1.188) 30.17 | (.812) 20.62  |
| 16      | F                   | 23         | 1.562-18 UNEF     | (1.825) 46.35 | (1.781) 45.24 | (1.375) 34.93 | (.938) 23.82  | (.625) 15.87  |
| 17      | G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 | (1.781) 45.24 | (1.375) 34.93 | (1.188) 30.17 | (.812) 20.62  |
| 18      | G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 | (1.781) 45.24 | (1.375) 34.93 | (1.250) 31.75 | (.875) 22.23  |
| 19      | G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 | (2.156) 54.76 | (1.750) 44.45 | (1.380) 35.05 | (1.000) 25.4  |
| 20      | G                   | 25         | 1.875-16 UNS      | (2.143) 54.43 | (2.156) 54.76 | (1.750) 44.45 | (1.188) 30.17 | (.812) 20.62  |
| 21      | H                   | 29         | 1.875-16 UNS      | (2.143) 54.43 | (2.156) 54.76 | (1.750) 44.45 | (1.380) 35.05 | (1.000) 25.4  |
| 22      | H                   | 29         | 2.062-16 UNS      | (2.329) 59.16 | (2.281) 57.94 | (1.875) 47.63 | (1.380) 35.05 | (1.000) 25.4  |
| 23      | J                   | 33         | 2.062-16 UNS      | 2.329 59.16   | (2.281) 57.94 | (1.875) 47.63 | (1.625) 41.28 | (1.250) 31.75 |
| 24      | J                   | 33         | .750-20 UNEF      | (1.028) 26.11 | (1.156) 29.36 | (.750) 19.05  | (.438) 11.12  | (.281) 7.14   |
| 25      | A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.281) 32.54 | (.875) 22.22  | (.562) 14.27  | (.344) 8.74   |
| 26      | B                   | 13         | .875-30 UNEF      | (1.141) 28.98 | (1.281) 32.54 | (.875) 22.22  | (.562) 14.27  | (.344) 8.74   |
| 27      | B                   | 13         | .875-30 UNEF      | (1.141) 28.98 | (1.406) 35.71 | (1.000) 25.4  | (.625) 15.87  | (.375) 9.52   |
| 28      | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | (1.406) 35.71 | (1.000) 25.4  | (.625) 15.87  | (.375) 9.52   |

\* Dimensions in (inches) mm

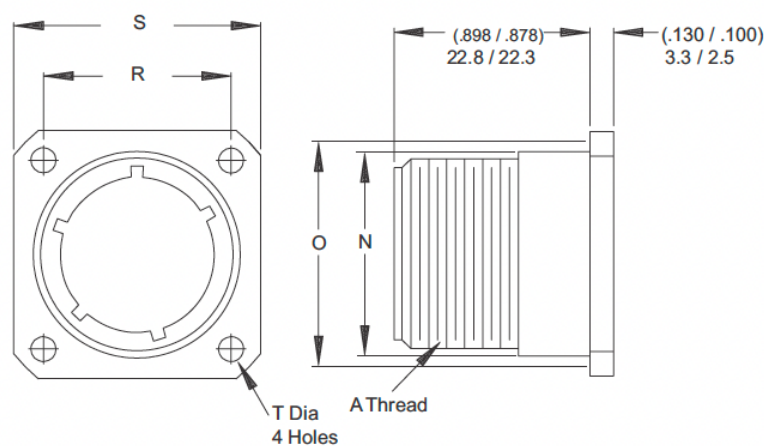
# M28840/6 EMI/RFI ENVIRONMENTAL BACKSHELL

| DASH # | TABLE A             |            |               |                   |                  |               |               |
|--------|---------------------|------------|---------------|-------------------|------------------|---------------|---------------|
|        | Military Shell Size | Shell Size | L             | Working Room Ref. | V Thread Class 2 | X Ø Max.      | Y Ref.        |
| 01     | A                   | 11         | (3.62) 91.55  | (2.00) 50.80      | .625-24 UNEF     | (1.281) 32.53 | (.938) 23.82  |
| 02     | B                   | 13         | (3.62) 91.55  | (2.00) 50.80      | .625-24 UNEF     | (1.281) 32.53 | (.938) 23.82  |
| 03     | B                   | 13         | (3.62) 91.55  | (2.00) 50.80      | .750-20 UNEF     | (1.281) 32.53 | (1.125) 23.82 |
| 04     | C                   | 15         | (3.62) 91.55  | (2.00) 50.80      | .625-24 UNEF     | (1.281) 32.53 | (.938) 23.82  |
| 05     | C                   | 15         | (3.62) 91.55  | (2.00) 50.80      | .750-20 UNEF     | (1.281) 32.53 | (1.125) 28.57 |
| 06     | C                   | 15         | (3.62) 91.55  | (2.00) 50.80      | .875-20 UNEF     | (1.281) 32.53 | (1.312) 33.32 |
| 07     | C                   | 15         | (4.12) 104.65 | (2.50) 63.50      | 1.188-18 UNEF    | (1.312) 33.32 | (1.593) 40.62 |
| 08     | D                   | 17         | (4.12) 104.65 | (2.50) 63.50      | 1.000-20 UNEF    | (1.281) 32.54 | (1.312) 33.32 |
| 09     | D                   | 17         | (4.12) 104.65 | (2.50) 63.50      | 1.188-19 UNEF    | (1.312) 33.32 | (1.593) 40.62 |
| 10     | D                   | 17         | (4.12) 104.65 | (2.50) 63.50      | 1.438-18 UNEF    | (1.406) 35.71 | (1.750) 44.45 |
| 11     | E                   | 19         | (4.12) 104.65 | (2.50) 63.50      | 1.000-20 UNEF    | (1.281) 32.54 | (1.312) 33.32 |
| 12     | E                   | 19         | (4.12) 104.65 | (2.50) 63.50      | 1.438-18 UNEF    | (1.406) 35.71 | (1.750) 44.45 |
| 13     | E                   | 19         | (4.62) 117.35 | (3.00) 76.20      | 1.188-18 UNEF    | (1.312) 33.32 | (1.593) 40.62 |
| 14     | F                   | 23         | (4.62) 117.35 | (3.00) 76.20      | 1.438-18 UNEF    | (1.406) 35.71 | (1.750) 44.45 |
| 15     | F                   | 23         | (4.62) 117.35 | (3.00) 76.20      | 1.750-18 UNS     | (1.593) 40.46 | (2.093) 53.16 |
| 16     | F                   | 23         | (4.62) 117.35 | (3.00) 76.20      | 1.438-18 UNEF    | (1.406) 35.71 | (1.750) 44.45 |
| 17     | G                   | 25         | (5.12) 130.05 | (3.50) 88.90      | 1.750-18 UNS     | (1.593) 40.46 | (2.093) 53.16 |
| 18     | G                   | 25         | (5.12) 130.05 | (3.50) 88.90      | 1.750-18 UNS     | (1.593) 40.46 | (2.093) 53.16 |
| 19     | G                   | 25         | (5.12) 130.05 | (3.50) 88.90      | 2.000-18 UNS     | (1.625) 41.28 | (2.343) 59.51 |
| 20     | G                   | 25         | (5.12) 130.05 | (3.50) 88.90      | 1.750-18 UNS     | (1.593) 40.46 | (2.093) 53.16 |
| 21     | H                   | 29         | (5.12) 130.05 | (3.50) 88.90      | 2.000-18 UNS     | (1.625) 41.28 | (2.343) 59.51 |
| 22     | H                   | 29         | (5.12) 130.05 | (3.50) 88.90      | 2.000-18 UNS     | (1.625) 41.28 | (2.343) 59.51 |
| 23     | J                   | 33         | (5.12) 130.05 | (3.50) 88.90      | 2.250-16 UNS     | (1.900) 48.26 | (2.750) 69.85 |
| 24     | J                   | 33         | (3.62) 91.95  | (2.00) 50.80      | .750-20 UNEF     | (1.281) 32.54 | (1.125) 28.57 |
| 25     | A                   | 11         | (3.62) 91.95  | (2.00) 50.80      | .875-20 UNEF     | (1.281) 32.54 | (1.312) 33.32 |
| 26     | B                   | 13         | (3.62) 91.95  | (2.00) 50.80      | .875-20 UNEF     | (1.281) 32.54 | (1.312) 33.32 |
| 27     | B                   | 13         | (4.12) 104.65 | (2.50) 63.50      | 1.000-20 UNEF    | (1.281) 32.54 | (1.312) 33.32 |
| 28     | C                   | 15         | (4.12) 104.65 | (2.50) 63.50      | 1.000-20 UNEF    | (1.281) 32.54 | (1.312) 33.32 |

\* Dimensions in (inches) mm

M28840/7 DUMMY STORAGE RECEPTACLE

| M28840/7                               | B                                                                             | 4                          | F                                                                                                                                                                          |
|----------------------------------------|-------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNATION                            | SHELL SIZE                                                                    | KEY POSITION               | MATERIAL & FINISH                                                                                                                                                          |
| QPL: M28840/7<br>Commercial: IN28840/7 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1<br>2<br>3<br>4<br>5<br>6 | No Designation: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) |

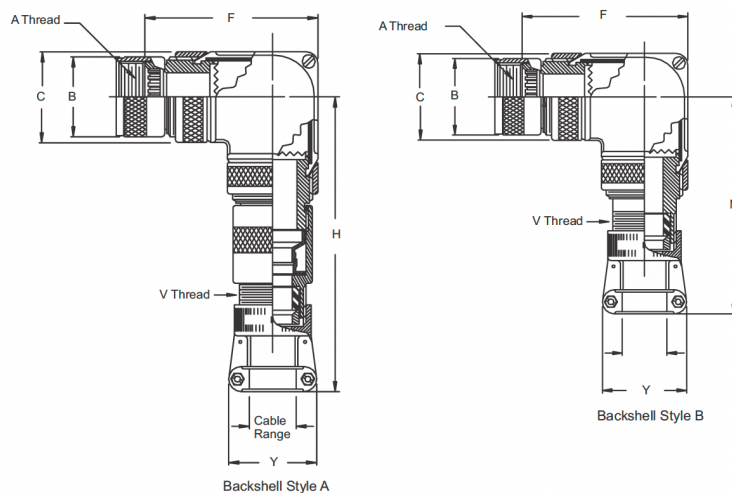


| TABLE A             |            |               |                    |                                  |                                |                             |
|---------------------|------------|---------------|--------------------|----------------------------------|--------------------------------|-----------------------------|
| Military Shell Size | Shell Size | N Ø Max.      | O Ref. Mating Hole | R True Position $\phi$ to $\phi$ | S                              | T                           |
| A                   | 11         | (.750) 19.05  | (.812) 20.62       | (.750) 19.05                     | (1.043) 26.49<br>(1.003) 25.48 | (1.130) 3.30<br>(.115) 2.92 |
| B                   | 13         | (.875) 22.22  | (.937) 23.80       | (.843) 21.41                     | (1.158) 29.41<br>(1.118) 28.40 |                             |
| C                   | 15         | (1.062) 26.97 | (1.124) 28.55      | (.968) 24.59                     | (1.278) 32.46<br>(1.238) 31.45 |                             |
| D                   | 17         | (1.125) 28.58 | (1.187) 30.15      | (1.015) 25.78                    | (1.403) 35.64<br>(1.363) 34.62 |                             |
| E                   | 19         | (1.312) 33.32 | (1.374) 34.90      | (1.140) 28.96                    | (1.528) 38.81<br>(1.488) 37.80 |                             |
| F                   | 23         | (1.500) 38.10 | (1.562) 39.67      | (1.281) 32.54                    | (1.738) 44.15<br>(1.698) 43.13 |                             |
| G                   | 25         | (1.625) 41.28 | (1.687) 42.85      | (1.392) 35.36                    | (1.838) 46.69<br>(1.798) 45.67 | (1.157) 3.99<br>(.142) 3.61 |
| H                   | 29         | (1.812) 46.02 | (1.874) 47.60      | (1.568) 39.83                    | (2.158) 54.81<br>(2.118) 53.80 |                             |
| J                   | 33         | (2.000) 50.80 | (2.062) 52.37      | (1.734) 44.04                    | (2.348) 59.64<br>(2.308) 58.62 | (1.183) 4.65<br>(.168) 4.27 |

\* Dimensions in (inches) mm

# M28840/8 90° EMI/RFI ENVIRONMENTAL BACKSHELL

| M28840/8                               | 16          | W                                                                                                                                                              | A                                        |
|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| DESIGNATION                            | DASH #      | MATERIAL & FINISH                                                                                                                                              | BACKSHELL STYLE                          |
| QPL: M28840/8<br>Commercial: IN28840/8 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) | A: EMI Environmental<br>B: Environmental |



| TABLE A              |        |                     |            |                   |               |               |               |
|----------------------|--------|---------------------|------------|-------------------|---------------|---------------|---------------|
| Backshell Shell Size | DASH # | Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Ø Max.      | D Ø Max.      |
| A                    | 01     | A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.188) 30.17 | (1.031) 26.19 |
| A                    | 02     | B                   | 13         | .875-20 UNEF      | (1.141) 28.98 |               |               |
| B                    | 03     | B                   | 13         |                   |               |               |               |
| A                    | 04     | C                   | 15         | 1.00-20 UNEF      | (1.263) 32.08 | (1.438) 36.52 | (1.156) 29.36 |
| B                    | 05     | C                   | 15         |                   |               |               |               |
| C                    | 06     | C                   | 15         |                   |               |               |               |
| D                    | 07     | C                   | 15         |                   |               |               |               |
| A                    | 08     | D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 | (1.688) 42.87 | (1.281) 32.54 |
| B                    | 09     | D                   | 17         |                   |               |               |               |
| C                    | 10     | D                   | 17         |                   |               |               |               |
| A                    | 11     | E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | (1.938) 49.22 | (1.406) 35.71 |
| B                    | 12     | E                   | 19         |                   |               |               |               |
| A                    | 13     | F                   | 23         | 1.438-18 UNEF     | (1.703) 43.51 |               |               |
| B                    | 14     | F                   | 23         |                   |               |               |               |
| C                    | 15     | F                   | 23         |                   |               |               |               |
| A                    | 16     | G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 | (2.188) 54.43 | (1.531) 38.89 |
| B                    | 17     | G                   | 25         |                   |               |               |               |
| C                    | 18     | G                   | 25         |                   |               |               |               |
| D                    | 19     | G                   | 25         |                   |               |               |               |
| A                    | 20     | H                   | 29         | 1.875-16 UN       | (2.143) 54.43 | (2.688) 68.26 | (1.781) 45.24 |
| B                    | 21     | H                   | 29         |                   |               |               |               |
| A                    | 22     | J                   | 33         | 2.062-16 UNS      | (2.329) 59.16 |               |               |
| A                    | 23     | J                   | 33         |                   |               |               |               |
| B                    | 24     | A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | (1.188) 30.17 | (1.031) 26.19 |
| C                    | 25     | A                   | 11         |                   |               | (1.438) 36.52 | (1.156) 29.36 |
| C                    | 26     | B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | (1.688) 42.87 | (1.281) 32.54 |
| D                    | 27     | B                   | 13         |                   |               |               |               |
| E                    | 28     | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 |               |               |

\* Dimensions in (inches) mm

# M28840/8 90° EMI/RFI ENVIRONMENTAL BACKSHELL

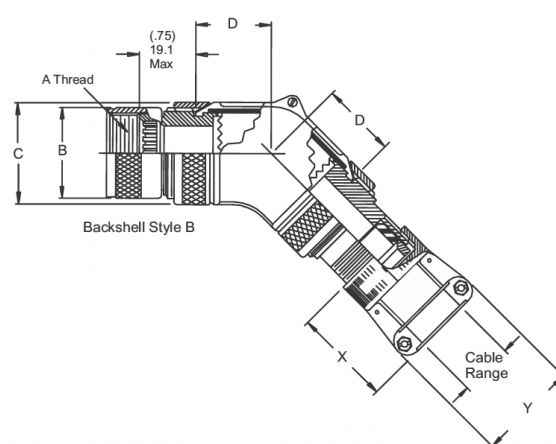
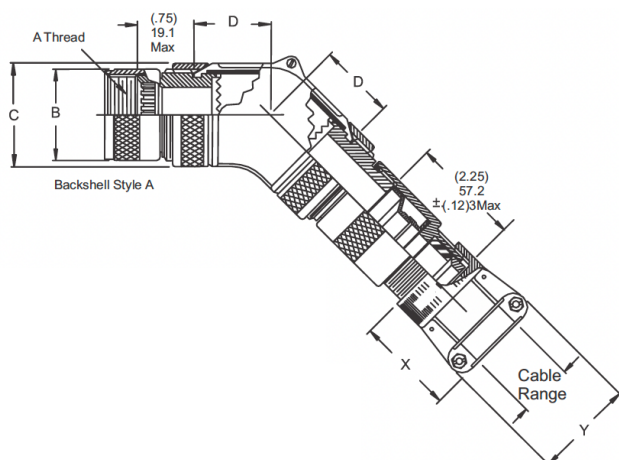
| Backshell Shell Size | DASH # | Military Shell Size | Shell Size | X Ref. Dimension | Y Ref. Dimension | H Max. Style A | N Max. Style B |
|----------------------|--------|---------------------|------------|------------------|------------------|----------------|----------------|
| A                    | 01     | A                   | 11         | (1.281) 32.54    | (.938) 23.82     | (5.332) 134.43 | (2.962) 75.23  |
| A                    | 02     | B                   | 13         |                  | (.938) 23.82     | (5.332) 134.43 | (2.962) 75.23  |
| B                    | 03     | B                   | 13         |                  | (1.125) 28.57    | (5.332) 34.43  | (2.962) 75.23  |
| A                    | 04     | C                   | 15         |                  | (.938) 23.82     | (5.457) 138.61 | (3.087) 78.41  |
| B                    | 05     | C                   | 15         |                  | (1.125) 28.57    | (5.457) 138.61 | (3.087) 78.41  |
| C                    | 06     | C                   | 15         |                  | (1.312) 33.32    | (5.457) 138.61 | (3.087) 78.41  |
| D                    | 07     | C                   | 15         |                  | (1.593) 40.62    | (5.682) 144.32 | (3.312) 84.12  |
| A                    | 08     | D                   | 17         |                  | (1.312) 33.32    | (5.682) 144.32 | (3.312) 84.12  |
| B                    | 09     | D                   | 17         | (1.312) 33.32    | (1.593) 40.62    | (5.713) 145.11 | (3.343) 84.91  |
| C                    | 10     | D                   | 17         | (1.406) 35.71    | (1.750) 44.45    | (5.807) 147.50 | (3.437) 87.30  |
| A                    | 11     | E                   | 19         | (1.281) 32.54    | (1.312) 33.32    | (5.682) 144.32 | (3.312) 84.12  |
| B                    | 12     | E                   | 19         | (1.406) 35.71    | (1.750) 44.45    | (5.832) 148.13 | (3.462) 87.93  |
| A                    | 13     | F                   | 23         | (1.312) 33.32    | (1.593) 40.62    | (5.738) 145.28 | (3.36x) 85.55  |
| B                    | 14     | F                   | 23         | (1.406) 35.71    | (1.750) 44.45    | (5.832) 148.13 | (3.462) 87.93  |
| C                    | 15     | F                   | 23         | (1.593) 40.46    | (2.093) 53.16    | (6.019) 152.88 | (3.649) 92.68  |
| A                    | 16     | G                   | 25         | (1.406) 35.71    | (1.750) 44.45    | (5.832) 148.13 | (3.462) 87.93  |
| B                    | 17     | G                   | 25         | (1.593) 40.46    | (2.093) 53.16    | (6.019) 152.88 | (3.649) 92.68  |
| C                    | 18     | G                   | 25         | (1.593) 40.46    | (2.093) 53.16    | (6.144) 156.06 | (3.774) 95.86  |
| D                    | 19     | G                   | 25         | (1.625) 41.28    | (2.343) 59.51    | (6.176) 156.87 | (3.806) 96.62  |
| A                    | 20     | H                   | 29         | (1.593) 40.46    | (2.093) 53.16    | (6.144) 156.06 | (3.774) 95.86  |
| B                    | 21     | H                   | 29         | (1.625) 41.28    | (2.343) 59.51    | (6.176) 156.87 | (3.806) 96.62  |
| A                    | 22     | J                   | 33         | (1.625) 41.28    | (2.343) 59.51    | (6.426) 163.22 | (4.056) 103.02 |
| A                    | 23     | J                   | 33         | (1.900) 48.26    | (2.750) 59.85    | (6.701) 170.21 | (4.33) 110.01  |
| B                    | 24     | A                   | 11         | (1.281) 32.54    | (1.125) 28.57    | (5.332) 135.43 | (2.962) 75.23  |
| C                    | 25     | A                   | 11         |                  | (1.312) 33.32    | (5.457) 138.61 | (3.087) 78.41  |
| C                    | 26     | B                   | 13         |                  |                  | (5.457) 138.61 | (3.087) 78.41  |
| C                    | 27     | B                   | 13         |                  |                  | (5.682) 144.32 | (3.312) 84.12  |
| B                    | 28     | C                   | 15         |                  |                  | (5.682) 144.32 | (3.312) 84.12  |

| TABLE A                 |        |                        |            |               |               |               |                |                     |  |
|-------------------------|--------|------------------------|------------|---------------|---------------|---------------|----------------|---------------------|--|
| Backshell<br>Shell Size | DASH # | Military<br>Shell Size | Shell Size | Cable Entry   |               | E Max.        | F Max.         | V<br>Thread Class 2 |  |
|                         |        |                        |            | Min.          | Max.          |               |                |                     |  |
| A                       | 01     | A                      | 11         | (.188) 4.77   | (.312) 7.92   | (1.156) 29.36 | (2.614) 66.40  | .625-24 UNEF        |  |
| A                       | 02     | B                      | 13         | (.188) 4.77   | (.312) 7.92   |               |                | .625-24 UNEF        |  |
| B                       | 03     | B                      | 13         | (.281) 7.14   | (.438) 11.12  |               |                | .750-20 UNEF        |  |
| A                       | 04     | C                      | 15         | (.188) 4.77   | (.312) 7.92   | (1.281) 32.54 | (2.864) 72.75  | .625-24 UNEF        |  |
| B                       | 05     | C                      | 15         | (.281) 7.14   | (.438) 11.12  |               |                | .750-20 UNEF        |  |
| C                       | 06     | C                      | 15         | (.344) 8.74   | (.562) 14.27  |               |                | .875-20 UNEF        |  |
| D                       | 07     | C                      | 15         | (.438) 11.12  | (.750) 19.05  | (1.406) 35.71 | (3.114) 79.10  | 1.188-18 UNEF       |  |
| A                       | 08     | D                      | 17         | (.375) 9.82   | (.625) 15.87  |               |                | 1.000-20 UNEF       |  |
| B                       | 09     | D                      | 17         | (.438) 11.12  | (.750) 19.05  |               |                | 1.188-18 UNEF       |  |
| C                       | 10     | D                      | 17         | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 |                | 1.438-18 UNEF       |  |
| A                       | 11     | E                      | 19         | (.375) 9.52   | (.625) 15.87  | (1.406) 35.71 |                | 1.00-20 UNEF        |  |
| B                       | 12     | E                      | 19         | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 |                | 1.438-18 UNEF       |  |
| A                       | 13     | F                      | 23         | (.438) 11.12  | (.750) 19.05  | (1.406) 25.71 | (3.364) 85.45  | 1.188-18 UNEF       |  |
| B                       | 14     | F                      | 23         | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 |                | 1.438-18 UNEF       |  |
| C                       | 15     | F                      | 23         | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 |                | 1.750-18 UNEF       |  |
| A                       | 16     | G                      | 25         | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 |                | 1.438-18 UNEF       |  |
| B                       | 17     | G                      | 25         | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 |                | 1.750-18 UNS        |  |
| C                       | 18     | G                      | 25         | (.875) 22.23  | (1.250) 31.75 |               |                |                     |  |
| D                       | 19     | G                      | 25         | (1.000) 25.40 | (1.380) 35.05 | (2.156) 54.76 | (3.614) 91.80  | 2.000-16 UNS        |  |
| A                       | 20     | H                      | 29         | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 |                | 1.750-18 UNS        |  |
| B                       | 21     | H                      | 29         | (1.000) 25.40 | (1.380) 35.05 | (2.156) 54.76 |                | 2.000-18 UNS        |  |
| A                       | 23     | J                      | 33         | (1.380) 35.05 | (1.000) 25.40 | (2.281) 57.94 | (4.114) 104.50 | 2.000-18 UNS        |  |
| B                       | 24     | A                      | 11         | (1.625) 41.26 | (1.250) 31.75 |               |                | 2.250-16 UNS        |  |
| C                       | 25     | A                      | 11         | (.438) 11.12  | (.281) 7.14   | (1.156) 29.36 | (2.614) 66.40  | .750-20 UNEF        |  |
| C                       | 26     | B                      | 13         | (.562) 14.27  | (.344) 8.74   | (1.281) 32.54 | (2.864) 72.75  |                     |  |
| D                       | 27     | B                      | 13         | (.562) 14.27  | (.344) 8.74   |               |                | .875-20 UNEF        |  |
| E                       | 28     | C                      | 15         | (.625) 15.87  | (.375) 9.52   | (1.406) 35.71 | (3.114) 79.10  | 1.000-20 UNEF       |  |

\* Dimensions in (inches) mm

# M28840/9 45° EMI/RFI ENVIRONMENTAL BACKSHELL

| M28840/9                               | 16          | W                                                                                                                                                              | A                                        |
|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| DESIGNATION                            | DASH #      | MATERIAL & FINISH                                                                                                                                              | BACKSHELL STYLE                          |
| QPL: M28840/9<br>Commercial: IN28840/9 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) | A: EMI Environmental<br>B: Environmental |



| TABLE A                 |        |                        |                      |               |               |               |
|-------------------------|--------|------------------------|----------------------|---------------|---------------|---------------|
| Backshell<br>Shell Size | DASH # | Military<br>Shell Size | A<br>Thread Class 2B | B Ø Max.      | C Ø Max.      | D Max.        |
| A                       | 01     | A                      | .750-20 UNEF         | (1.028) 26.11 | (1.188) 30.18 | (1.031) 26.19 |
| A                       | 02     | B                      | .875-20 UNEF         | (1.141) 28.98 |               |               |
| B                       | 03     | B                      |                      |               |               |               |
| A                       | 04     | C                      | 1.00-20 UNEF         | (1.263) 32.08 | (1.438) 36.53 | (1.156) 29.36 |
| B                       | 05     | C                      |                      |               |               |               |
| C                       | 06     | C                      |                      |               |               |               |
| D                       | 07     | C                      |                      |               |               |               |
| A                       | 08     | D                      | 1.125-18 UNEF        | (1.387) 35.23 | (1.688) 42.88 | (1.281) 32.54 |
| B                       | 09     | D                      |                      |               |               |               |
| C                       | 10     | D                      |                      |               |               |               |
| A                       | 11     | E                      | 1.250-18 UNEF        | (1.513) 38.43 | (1.938) 49.23 | (1.406) 35.71 |
| B                       | 12     | E                      |                      |               |               |               |
| A                       | 13     | F                      | 1.438-18 UNEF        | (1.703) 43.51 |               |               |
| B                       | 14     | F                      |                      |               |               |               |
| C                       | 15     | F                      |                      |               |               |               |
| A                       | 16     | G                      | 1.562-18 UNEF        | (1.825) 46.35 | (2.188) 55.58 | (1.531) 38.89 |
| B                       | 17     | G                      |                      |               |               |               |
| C                       | 18     | G                      |                      |               |               |               |
| D                       | 19     | G                      |                      |               |               |               |
| A                       | 20     | H                      | 1.875-16 UN          | (2.143) 54.43 | (2.688) 68.28 | (1.781) 45.24 |
| B                       | 21     | H                      |                      |               |               |               |
| A                       | 22     | J                      | 2.062-16 UNEF        | (2.329) 59.16 |               |               |
| B                       | 23     | J                      |                      |               |               |               |
| B                       | 24     | A                      |                      |               |               |               |
| C                       | 25     | A                      | .750-20 UNEF         | (1.028) 26.11 | (1.188) 30.18 | (1.031) 26.19 |
| C                       | 26     | B                      |                      |               | (1.438) 36.53 | (1.156) 29.36 |
| C                       | 26     | B                      | .875-20 UNEF         | (1.141) 28.98 | (1.156) 29.36 |               |
| D                       | 27     | B                      |                      |               |               |               |
| E                       | 28     | C                      | 1.000-20 UNEF        | (1.263) 32.08 | (1.688) 42.88 | (1.281) 32.54 |

\* Dimensions in (inches) mm

# M28840/9 45° EMI/RFI ENVIRONMENTAL BACKSHELL

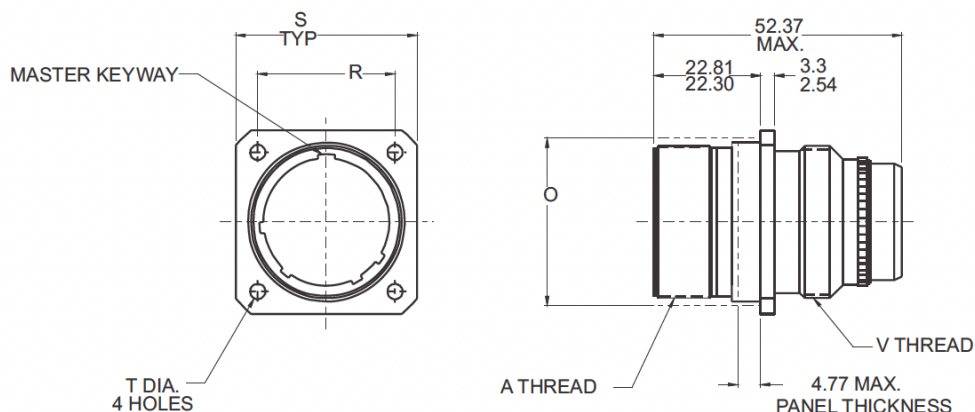
| TABLE A              |        |                     |               |               |               |                |                |
|----------------------|--------|---------------------|---------------|---------------|---------------|----------------|----------------|
| Backshell Shell Size | DASH # | Military Shell Size | Cable Range   |               | E Ø Max.      | F Max. Style A | H Max. Style B |
|                      |        |                     | Min           | Max.          |               |                |                |
| A                    | 01     | A                   | (.188) 4.77   | (.312) 7.92   | (1.156) 29.36 | (5.879) 149.33 | (4.199) 106.65 |
| A                    | 02     | B                   | (.188) 4.77   | (.312) 7.92   |               | (5.879) 149.33 | (4.199) 106.65 |
| B                    | 03     | B                   | (.281) 7.14   | (.438) 11.12  |               | (5.932) 150.67 | (4.252) 108.00 |
| A                    | 04     | C                   | (.188) 4.77   | (.312) 7.92   | (1.281) 32.54 | (6.092) 154.74 | (4.412) 112.06 |
| B                    | 05     | C                   | (.281) 7.14   | (.438) 11.12  |               | (6.146) 156.11 | (4.466) 113.44 |
| C                    | 06     | C                   | (.344) 8.74   | (.562) 14.27  |               | (6.202) 157.53 | (4.522) 114.86 |
| D                    | 07     | C                   | (.438) 11.12  | (.750) 19.05  | (1.406) 35.71 | (6.533) 165.94 | (4.853) 123.27 |
| A                    | 08     | D                   | (.375) 9.82   | (.625) 15.87  |               | (6.413) 162.89 | (4.733) 120.22 |
| B                    | 09     | D                   | (.438) 11.12  | (.750) 19.05  |               | (6.533) 165.94 | (4.853) 123.27 |
| C                    | 10     | D                   | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 | (6.636) 168.55 | (4.956) 125.88 |
| A                    | 11     | E                   | (.375) 9.52   | (.625) 15.87  | (1.406) 35.71 | (6.413) 162.89 | (4.733) 120.22 |
| B                    | 12     | E                   | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 | (6.846) 173.89 | (5.166) 131.22 |
| A                    | 13     | F                   | (.438) 11.12  | (.750) 19.05  | (1.406) 25.71 | (6.747) 171.37 | (5.067) 128.70 |
| B                    | 14     | F                   | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 | (6.846) 173.89 | (5.166) 131.22 |
| C                    | 15     | F                   | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 | (7.103) 180.42 | (5.423) 138.23 |
| A                    | 16     | G                   | (.625) 15.87  | (.938) 23.82  | (1.531) 38.89 | (6.846) 173.89 | (5.156) 130.96 |
| B                    | 17     | G                   | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 | (7.103) 180.42 | (5.423) 138.23 |
| C                    | 18     | G                   | (.875) 22.23  | (1.250) 31.75 |               | (7.316) 185.83 | (5.636) 143.15 |
| D                    | 19     | G                   | (1.000) 25.40 | (1.380) 35.05 | (2.156) 54.76 | (7.425) 188.60 | (5.745) 145.92 |
| A                    | 20     | H                   | (.812) 20.62  | (1.188) 30.17 | (1.781) 45.24 | (7.316) 185.83 | (5.636) 143.15 |
| B                    | 21     | H                   | (1.000) 25.40 | (1.380) 35.05 | (2.156) 54.76 | (7.425) 188.60 | (5.745) 145.92 |
| A                    | 22     | J                   | (1.380) 35.05 | (1.000) 25.40 | (2.281) 57.94 | (7.852) 199.44 | (6.127) 156.77 |
| B                    | 23     | J                   | (1.625) 41.28 | (1.250) 31.75 |               | (6.454) 163.93 | (6.454) 163.93 |
| B                    | 24     | A                   | (.438) 11.12  | (.281) 7.14   | (1.156) 29.36 | (5.932) 150.67 | (4.252) 108.00 |
| C                    | 25     | A                   | (.562) 14.27  | (.344) 8.74   | (1.281) 32.54 | (6.202) 157.53 | (4.522) 114.86 |
| C                    | 26     | B                   | (.562) 14.27  | (.344) 8.74   | (1.281) 32.54 | (6.202) 157.53 | (4.522) 114.86 |
| D                    | 27     | B                   | (.625) 15.87  | (.375) 9.52   | (1.406) 35.71 | (6.413) 162.89 | (4.733) 120.22 |
| E                    | 28     | C                   | (.625) 15.87  | (.375) 9.50   |               | (6.413) 162.89 | (4.733) 120.22 |

| TABLE A              |        |                     |                |                  |                  |
|----------------------|--------|---------------------|----------------|------------------|------------------|
| Backshell Shell Size | DASH # | Military Shell Size | V Thread Class | X Ref. Dimension | Y Ref. Dimension |
| A                    | 01     | A                   | .625-24 UNEF   | (1.281) 32.5     | (.938) 23.82     |
| A                    | 02     | B                   | .625-24 UNEF   |                  | (.938) 23.82     |
| B                    | 03     | B                   | .750-20 UNEF   |                  | (1.125) 28.57    |
| A                    | 04     | C                   | .625-24 UNEF   |                  | (.938) 23.82     |
| B                    | 05     | C                   | .750-20 UNEF   |                  | (1.125) 28.57    |
| C                    | 06     | C                   | .875-20 UNEF   |                  | (1.312) 33.32    |
| D                    | 07     | C                   | 1.188-18 UNEF  | (1.312) 33.32    | (1.593) 40.62    |
| A                    | 08     | D                   | 1.000-20 UNEF  | (1.281) 32.54    | (1.312) 33.32    |
| B                    | 09     | D                   | 1.188-18 UNEF  | (1.312) 33.32    | (1.593) 40.62    |
| C                    | 10     | D                   | 1.438-18 UNEF  | (1.406) 35.71    | (1.750) 44.45    |
| A                    | 11     | E                   | 1.000-20 UNEF  | (1.281) 32.54    | (1.312) 33.32    |
| B                    | 12     | E                   | 1.438-18 UNEF  | (1.406) 35.71    | (1.750) 44.45    |
| A                    | 13     | F                   | 1.188-18 UNEF  | (1.312) 33.32    | (1.593) 40.62    |
| B                    | 14     | F                   | 1.438-18 UNEF  | (1.406) 35.71    | (1.750) 44.45    |
| C                    | 15     | F                   | 1.750-18 UNS   | (1.593) 40.46    | (2.093) 53.16    |
| A                    | 16     | G                   | 1.438-18 UNEF  | (1.406) 35.71    | (1.750) 44.45    |
| B                    | 17     | G                   | 1.750-18 UNS   | (1.593) 40.46    | (2.093) 53.16    |
| C                    | 18     | G                   | 1.750-18 UNS   | (1.593) 40.46    | (2.093) 53.16    |
| D                    | 19     | G                   | 2.000-16 UNS   | (1.625) 41.28    | (2.343) 59.51    |
| A                    | 20     | H                   | 1.750-18 UNS   | (1.593) 40.46    | (2.093) 53.16    |
| B                    | 21     | H                   | 2.000-18 UNS   | (1.625) 41.28    | (2.343) 59.51    |
| A                    | 22     | J                   | 2.000-18 UNS   | (1.625) 41.28    | (2.343) 59.51    |
| B                    | 23     | J                   | 2.250-16 UNS   | (1.900) 48.26    | (2.750) 69.85    |
| B                    | 24     | A                   | .750-20 UNEF   | (1.281) 32.54    | (1.125) 28.57    |
| C                    | 25     | A                   | .875-20 UNEF   |                  | (1.312) 33.32    |
| C                    | 26     | B                   | .875-20 UNEF   |                  |                  |
| D                    | 27     | B                   | 1.000-20 UNEF  |                  |                  |
| E                    | 28     | C                   | 1.000-20 UNEF  |                  |                  |

\* Dimensions in (inches) mm

# M28840/10 WALL MOUNT RECEPTACLE CONNECTOR

| M28840/10                                | A                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| DESIGNATION                              | MATERIAL & MATERIAL & FINISH                                                                                                                                        | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/10<br>Commercial: IN28840/10 | A: Aluminum, Cadmium Plate, O.D.<br>over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

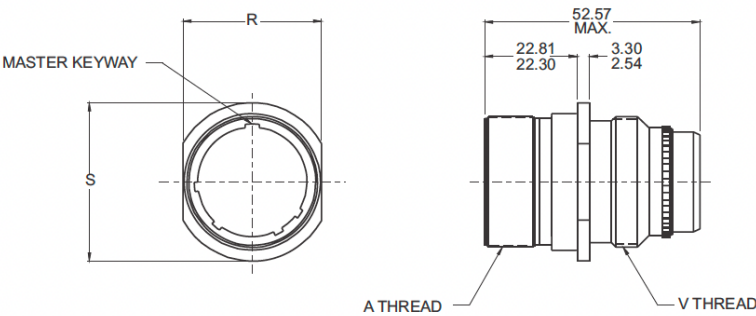


| TABLE A             |            |                    |                   |                    |                                  |                                |                            |
|---------------------|------------|--------------------|-------------------|--------------------|----------------------------------|--------------------------------|----------------------------|
| Military Shell Size | Shell Size | A Thread Class 2A  | V Thread Class 2A | O Ref. Mating Hole | R True Position $\phi$ to $\phi$ | S                              | T $\phi$                   |
| A                   | 11         | .750-.1P-.2L-D.S.  | .750-20 UNEF      | (.812) 20.62       | (.750) 19.05                     | (1.043) 26.49<br>(1.003) 25.48 | (.130) 3.30<br>(.115) 2.92 |
| B                   | 13         | .875-.1P-.2L-D.S.  | .875-20 UNEF      | (.937) 23.80       | (.843) 21.41                     | (1.158) 29.41<br>(1.118) 28.40 |                            |
| C                   | 15         | 1.062-.1P-.2L-D.S. | 1.000-20 UNEF     | (1.124) 28.55      | (.968) 24.59                     | (1.278) 32.46<br>(1.238) 31.45 |                            |
| D                   | 17         | 1.125-.1P-.2L-D.S. | 1.125-18 UNEF     | (1.187) 30.15      | (1.01) 25.78                     | (1.403) 35.64<br>(1.363) 34.62 |                            |
| E                   | 19         | 1.312-.1P-.2L-D.S. | 1.250-18 UNEF     | (1.374) 34.90      | (1.140) 28.96                    | (1.528) 38.81<br>(1.488) 37.80 |                            |
| F                   | 23         | 1.500-.1P-.2L-D.S. | 1.437-18 UNEF     | (1.562) 39.67      | (1.281) 32.54                    | (1.738) 44.15<br>(1.698) 43.13 |                            |
| G                   | 25         | 1.625-.1P-.2L-D.S. | 1.562-18 UNEF     | (1.687) 42.85      | (1.392) 35.36                    | (1.838) 46.69<br>(1.798) 45.67 | (.157) 3.99<br>(.142) 3.61 |
| H                   | 29         | 1.812-.1P-.2L-D.S. | 1.875-16 UN       | (1.874) 47.60      | (1.568) 39.83                    | (2.158) 54.81<br>(2.118) 53.80 |                            |
| J                   | 33         | 2.000-.1P-.2L-D.S. | 2.062-16 UNS      | (2.062) 52.37      | (1.734) 44.04                    | (2.348) 59.64<br>(2.308) 58.62 | (.183) 4.65<br>(.168) 4.27 |

\* Dimensions in (inches) mm

M28840/11 IN-LINE RECEPTACLE CONNECTOR

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/11                                | A                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/11<br>Commercial: IN28840/11 | A: Aluminum, Cadmium Plate, O.D.<br>over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |



| TABLE A             |            |                    |                   |                                |                                |
|---------------------|------------|--------------------|-------------------|--------------------------------|--------------------------------|
| Military Shell Size | Shell Size | A Thread Class 2A  | V Thread Class 2A | R                              | S Ø                            |
| A                   | 11         | .750-.1P-.2L-D.S.  | .750-20 UNEF      | (.768) 19.51<br>(.758) 19.25   | (.963) 24.46<br>(.943) 23.95   |
| B                   | 13         | .875-.1P-.2L-D.S.  | .875-20 UNEF      | (.893) 22.68<br>(.883) 22.43   | (1.088) 27.63<br>(1.063) 27.13 |
| C                   | 15         | 1.062-.1P-.2L-D.S. | 1.000-20 UNEF     | (1.080) 27.43<br>(1.070) 27.18 | (1.275) 32.38<br>(1.255) 31.88 |
| D                   | 17         | 1.125-.1P-.2L-D.S. | 1.125-18 UNEF     | (1.143) 29.03<br>(1.133) 28.78 | (1.338) 33.98<br>(1.318) 33.48 |
| E                   | 19         | 1.312-.1P-.2L-D.S. | 1.250-18 UNEF     | (1.330) 33.78<br>(1.320) 33.53 | (1.525) 38.74<br>1.505) 38.23  |
| F                   | 23         | 1.500-.1P-.2L-D.S. | 1.437-18 UNEF     | (1.518) 38.56<br>(1.508) 38.30 | (1.713) 43.51<br>(1.693) 43.00 |
| G                   | 25         | 1.625-.1P-.2L-D.S. | 1.562-18 UNEF     | (1.643) 41.73<br>(1.633) 41.48 | (1.838) 46.09<br>(1.818) 46.18 |
| H                   | 29         | 1.812-.1P-.2L-D.S. | 1.875-16 UN       | (1.893) 48.08<br>(1.883) 47.83 | (2.088) 53.04<br>(2.068) 52.53 |
| J                   | 33         | 2.000-.1P-.2L-D.S. | 2.062-16 UNS      | (2.080) 52.83<br>(2.070) 52.58 | (2.275) 57.78<br>(2.255) 57.28 |

\* Dimensions in (inches) mm

# M28840/12 BOX MOUNT RECEPTACLE CONNECTOR

|                                          |                                                                                                                                                                     |                                                                  |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/12                                | A                                                                                                                                                                   | 2                                                                | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | LENGTH                                                           | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/12<br>Commercial: IN28840/12 | A: Aluminum, Cadmium Plate, O.D.<br>over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) | Omit:<br>Standard -<br>(Figure 1)<br><br>2: Long -<br>(Figure 2) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

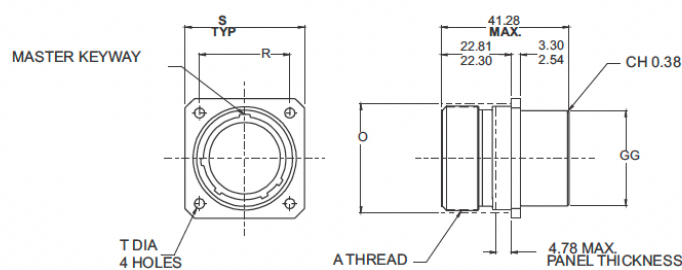


FIGURE 1  
Standard, 41.28 max length

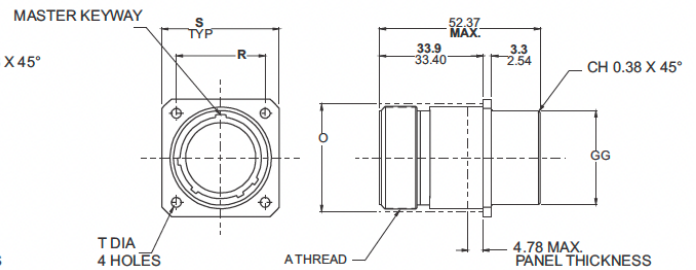


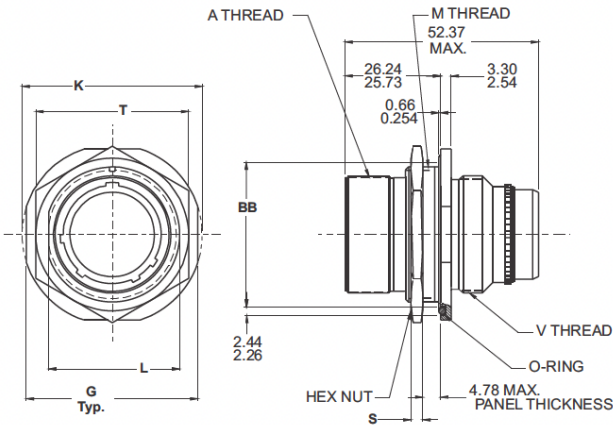
FIGURE 2  
Long, 52.37 max length

| TABLE A             |            |               |                    |                                  |                                |                            |               |
|---------------------|------------|---------------|--------------------|----------------------------------|--------------------------------|----------------------------|---------------|
| Military Shell Size | Shell Size | N Ø Max.      | Ø Ref. Mating Hole | R True Position $\phi$ to $\phi$ | S                              | T                          | GG Ø Max.     |
| A                   | 11         | (.750) 19.05  | (.812) 20.62       | (.750) 19.05                     | (1.043) 26.49<br>(1.003) 25.48 | (.130) 3.30<br>(.115) 2.92 | (.758) 19.25  |
| B                   | 13         | (.875) 22.22  | (.937) 23.80       | (.843) 21.41                     | (1.158) 29.41<br>(1.118) 28.40 |                            | (.880) 22.35  |
| C                   | 15         | (1.062) 26.97 | (1.124) 28.55      | (.968) 24.59                     | (1.278) 32.46<br>(1.238) 31.45 |                            | (1.005) 25.53 |
| D                   | 17         | (1.125) 28.58 | (1.187) 30.15      | (1.015) 25.78                    | (1.403) 35.64<br>(1.363) 34.62 |                            | (1.130) 28.70 |
| E                   | 19         | (1.312) 33.32 | (1.374) 34.90      | (1.140) 28.96                    | (1.528) 38.81<br>(1.488) 37.80 |                            | (1.255) 31.88 |
| F                   | 23         | (1.500) 38.10 | (1.562) 39.67      | (1.281) 32.54                    | (1.738) 44.15<br>(1.698) 43.13 |                            | (1.443) 36.65 |
| G                   | 25         | (1.625) 41.28 | (1.687) 42.85      | (1.392) 35.36                    | (1.838) 46.69<br>(1.798) 45.67 | (.157) 3.99<br>(.142) 3.61 | (1.567) 39.80 |
| H                   | 29         | (1.812) 46.02 | (1.874) 47.60      | (1.568) 39.83                    | (2.158) 54.81<br>(2.118) 53.80 |                            | (1.880) 47.75 |
| J                   | 33         | (2.000) 50.80 | (2.062) 52.37      | (1.734) 44.04                    | (2.343) 59.64<br>(2.308) 58.62 | (.183) 4.65<br>(.168) 4.27 | (2.067) 52.50 |

\* Dimensions in (inches) mm

M28840/13 PROTECTIVE RECEPTACLE COVER

| M28840/13                                | G                                                                             | A                                                                                                                                                       | W                                                                                                                                                                    |
|------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNATION                              | SHELL SIZE                                                                    | CHAIN ATTACHMENT STYLE                                                                                                                                  | MATERIAL & FINISH                                                                                                                                                    |
| QPL: M28840/13<br>Commercial: IN28840/13 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | A: Link Chain WITH Fastener<br>B: Link Chain WITH Ring for Jam-Nut<br>Mounting Receptacle<br>C: Link Chain WITH Ring for Cable-Connecting<br>Receptacle | W: Aluminum, Cadmium Plate, O.D. over<br>Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) |



| TABLE A             |            |                    |               |                      |                       |                     |
|---------------------|------------|--------------------|---------------|----------------------|-----------------------|---------------------|
| Military Shell Size | Shell Size | E Thread Class 2A  | F Ø Max.      | H + (0.010) ± (0.25) | J Ø + (0.05) ± (0.13) | G + (0.05) ± (0.13) |
| A                   | 11         | .750-.1P-.2L-D.S.  | (1.028) 26.21 | (.890) 22.61         | (.130) 3.30           | (.765 )19.43        |
| B                   | 13         | .875-.1P-.2L-D.S.  | (1.141) 23.98 | (1.015) 25.78        |                       | (.890) 22.61        |
| C                   | 15         | 1.062-.1P-.2L-D.S. | (1.263) 32.08 | (1.203) 30.56        |                       | (1.015) 25.78       |
| D                   | 17         | 1.125-.1P-.2L-D.S. | (1.387) 35.23 | (1.265) 32.13        |                       | (1.140) 28.96       |
| E                   | 19         | 1.312-.1P-.2L-D.S. | (1.513) 38.43 | (1.453) 36.91        |                       | (1.265) 32.13       |
| F                   | 23         | 1.500-.1P-.2L-D.S. | (1.703) 43.51 | (1.640) 41.66        |                       | (1.453) 36.91       |
| G                   | 25         | 1.625-.1P-.2L-D.S. | (1.825) 46.35 | (1.765) 44.83        | (.156) 3.96           | (1.577) 40.06       |
| H                   | 29         | 1.812-.1P-.2L-D.S. | (2.143) 54.43 | (1.953) 49.61        |                       | (1.890) 48.01       |
| J                   | 33         | 2.000-.1P-.2L-D.S. | (2.329) 59.16 | (2.140) 54.36        | (.193) 4.90           | (2.077) 52.76       |

\* Dimensions in (inches) mm

# M28840/14 JAM NUT RECEPTACLE CONNECTOR

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/14                                | A                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/14<br>Commercial: IN28840/14 | A: Aluminum, Cadmium Plate, O.D.<br>over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

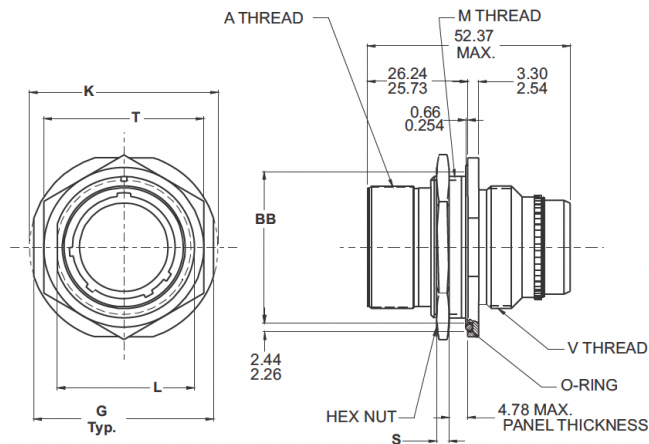


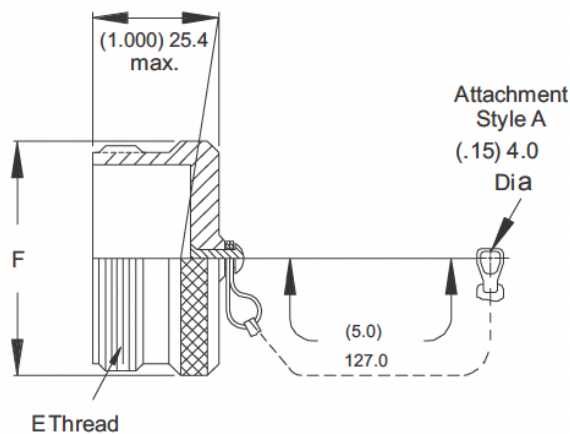
TABLE A

| Military Shell Size | Shell Size | BB            | G             | K             | L Across Flat | M Thread Class 2A | N Max.        | P             | R Max.  | S Hex Nut Thickness | T ±.017(0.43) |
|---------------------|------------|---------------|---------------|---------------|---------------|-------------------|---------------|---------------|---------|---------------------|---------------|
| A                   | 11         | (.979) 24.87  | (1.274) 32.36 | (1.368) 34.75 | (.841) 21.36  | 7/8-20 UNEF       | (0.750) 19.05 | (.890) 22.61  | (0.875) | (0.125) 3.17        | (1.062) 26.97 |
| A                   | 11         | (.969) 24.61  | (1.254) 31.85 | (1.348) 34.24 | (.832) 21.13  |                   | 19.05         | (.880) 22.35  | 22.22   |                     |               |
| B                   | 13         | (1.104) 28.04 | (1.399) 35.53 | (1.508) 38.30 | (.966) 24.54  | 1-20 UNEF         | (0.875) 22.22 | (1.015) 24.78 | (1.000) |                     | (1.188) 30.18 |
| B                   | 13         | (1.094) 27.79 | (1.379) 35.03 | (1.488) 37.80 | (.957) 24.31  |                   | 22.22         | (1.005) 25.53 | 25.40   |                     |               |
| C                   | 15         | (1.292) 32.82 | (1.587) 40.31 | (1.681) 42.70 | (1.156) 29.29 | 1 3/16-18 UNEF    | (1.062) 26.97 | (1.203) 30.56 | (1.188) |                     | (1.375) 34.93 |
| C                   | 15         | (1.282) 32.56 | (1.567) 39.80 | (1.661) 42.19 | (1.144) 29.06 |                   | 26.97         | (1.193) 30.30 | 30.18   |                     |               |
| D                   | 17         | (1.354) 34.39 | (1.649) 41.88 | (1.743) 44.27 | (1.216) 30.89 | 1 1/4-18 UNEF     | (1.125) 28.58 | (1.265) 32.13 | (1.250) |                     | (1.438) 36.53 |
| D                   | 17         | (1.344) 34.14 | (1.629) 41.38 | (1.723) 43.76 | (1.207) 30.66 |                   | 28.58 28.58   | (1.255) 31.88 | 31.75   |                     |               |
| E                   | 19         | (1.542) 39.17 | (1.837) 46.66 | (1.931) 49.05 | (1.403) 35.64 | 1 7/16-18 UNEF    | (1.312) 33.32 | (1.453) 36.91 | (1.438) |                     | (1.625) 41.28 |
| E                   | 19         | (1.532) 38.91 | (1.817) 46.15 | (1.911) 48.54 | (1.394) 35.41 |                   | 33.32         | (1.443) 36.65 | 36.52   |                     |               |
| F                   | 23         | (1.729) 43.92 | (2.024) 51.41 | (2.118) 53.80 | (1.591) 40.41 | 1 5/8-18 UNEF     | (1.500) 8.10  | (1.640) 41.66 | (1.625) | (0.189) 4.8         | (1.812) 46.02 |
| F                   | 23         | (1.718) 43.66 | (2.004) 50.90 | (2.098) 53.29 | (1.582) 40.18 |                   | 8.10          | (1.630) 41.40 | 41.28   |                     |               |
| G                   | 25         | (1.854) 47.09 | (2.149) 54.58 | (2.243) 56.97 | (1.716) 43.59 | 1 3/4-18 UNS      | (1.625) 41.28 | (1.765) 44.83 | (1.750) |                     | (2.000) 50.80 |
| G                   | 25         | (1.844) 46.84 | (2.129) 54.08 | (2.223) 56.46 | (1.707) 43.36 |                   | 41.28         | (1.755) 44.58 | 44.45   |                     |               |
| H                   | 29         | (2.042) 51.87 | (2.337) 59.36 | (2.435) 61.85 | (1.903) 46.34 | 1 15/16-16 UN     | (1.812)       | (1.953) 49.61 | (1.938) |                     | (2.188) 55.58 |
| H                   | 29         | (2.032) 51.61 | (2.317) 58.85 | (2.415) 61.34 | (1.894) 48.11 |                   | 46.02         | (1.943) 49.35 | 49.22   |                     |               |
| J                   | 33         | (2.229) 56.62 | (2.524) 64.11 | (2.618) 66.50 | (2.091) 53.11 | 2 1/8-16 UN       | (2.000)       | (2.140) 54.36 | (2.125) |                     | (2.375) 69.85 |
| J                   | 33         | (2.219) 56.36 | (2.504) 63.60 | (2.598) 65.99 | (2.082) 52.88 |                   | 50.80         | (2.130) 54.10 | 53.98   |                     |               |

\* Dimensions in (inches) mm

M28840/15 PROTECTIVE PLUG COVER

| M28840/15                                | G                                                                             | A                                                                                         | W                                                                                                                                                                    |
|------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNATION                              | SHELL SIZE                                                                    | CHAIN ATTACHMENT STYLE                                                                    | MATERIAL & FINISH                                                                                                                                                    |
| QPL: M28840/15<br>Commercial: IN28840/15 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | A: Link Chain WITH Fastener<br>B: Link Chain WITH Ring for Jam-Nut<br>Mounting Receptacle | W: Aluminum, Cadmium Plate, O.D. over<br>Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) |

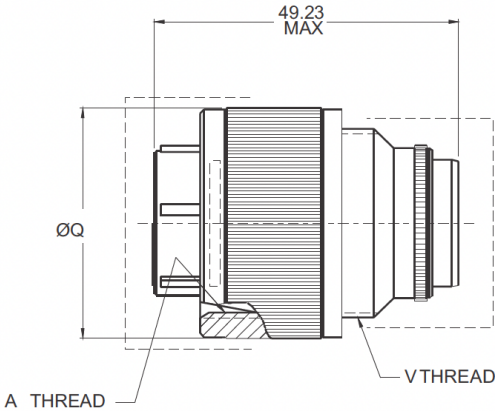


| TABLE A             |            |                   |               |
|---------------------|------------|-------------------|---------------|
| Military Shell Size | Shell Size | E Thread Class 2B | F Ø Max.      |
| A                   | 11         | .750-1P-.2L-DS    | (1.028) 26.21 |
| B                   | 13         | .875-1P-.2L-DS    | (1.141) 28.98 |
| C                   | 15         | 1.062-1P-.2L-DS   | (1.263) 32.08 |
| D                   | 17         | 1.125-1P-.2L-DS   | (1.387) 35.23 |
| E                   | 19         | 1.312-1P-.2L-DS   | (1.108) 28.14 |
| F                   | 23         | 1.500-1P-.2L-DS   | (1.293) 32.84 |
| G                   | 25         | 1.625-1P-.2L-DS   | (1.454) 36.93 |
| H                   | 29         | 1.812-1P-.2L-DS   | (1.620) 41.15 |
| J                   | 33         | 2.000-1P-.2L-DS   | (1.812) 46.02 |

\* Dimensions in (inches) mm

M28840/16 PLUG CONNECTOR

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/16                                | A                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/16<br>Commercial: IN28840/16 | A: Aluminum, Cadmium Plate, O.D.<br>over Electroless Nickel<br>S: Aluminum-Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective<br>(Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

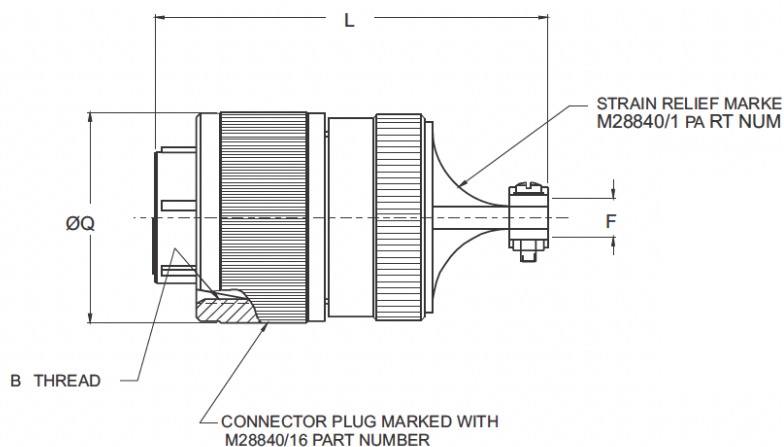


| TABLE A             |            |                   |                   |               |
|---------------------|------------|-------------------|-------------------|---------------|
| Military Shell Size | Shell Size | A Thread Class 2A | V Thread Class 2A | Q Ø Max.<br>+ |
| A                   | 11         | .750-1P-.2L-DS    | 3/4-20 UNEF       | (1.028) 26.11 |
| B                   | 13         | .875-1P-.2L-DS    | 7/8-20 UNEF       | (1.141) 28.98 |
| C                   | 15         | 1.062-1P-.2L-DS   | 1-20 UNEF         | (1.263) 32.08 |
| D                   | 17         | 1.125-1P-.2L-DS   | 1 1/8-18 UNEF     | (1.387) 35.23 |
| E                   | 19         | 1.312-1P-.2L-DS   | 1 1/4-18 UNEF     | (1.513) 38.43 |
| F                   | 23         | 1.500-1P-.2L-DS   | 1 7/16-18 UNEF    | (1.703) 43.26 |
| G                   | 25         | 1.625-1P-.2L-DS   | 1 9/16-18 UNEF    | (1.825) 46.36 |
| H                   | 29         | 1.812-1P-.2L-DS   | 1 7/8-16 UN       | (2.143) 54.43 |
| J                   | 33         | 2.000-1P-.2L-DS   | 2 1/16-16 UNS     | (2.329) 59.16 |

\* Dimensions in (inches) mm

# M28840/17 PLUG CONNECTOR WITH STRAIGHT STRAIN RELIEF BACKSHELL

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/17                                | C                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/17<br>Commercial: IN28840/17 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel,<br>Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc,<br>Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

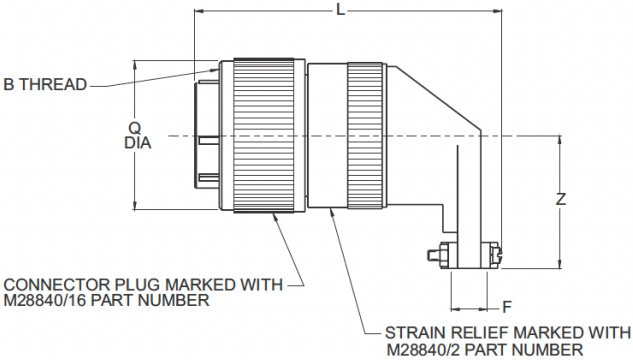


| TABLE A             |            |                   |               |              |               |               |                           |
|---------------------|------------|-------------------|---------------|--------------|---------------|---------------|---------------------------|
| Military Shell Size | Shell Size | B Thread Class 2B | F Cable Entry |              | L Max.        | Q Max.        | Max O.D. Over Rear Clamps |
|                     |            |                   | Max.          | Min.         |               |               |                           |
| A                   | 11         | .750-1P-.2L-DS    | 7.26 (0.286)  | 4.50 (.177)  | 61.92 (2.438) | 26.11 (1.028) | 21.13 (.832)              |
| B                   | 13         | .875-1P-.2L-DS    | 7.26 (0.286)  |              |               | 28.98 (1.141) |                           |
| C                   | 15         | 1.062-1P-.2L-DS   | 10.57 (.416)  |              |               | 32.10 (1.263) |                           |
| D                   | 17         | 1.125-1P-.2L-DS   | 12.10 (0.476) | 7.39 (.291)  | 68.27 (2.688) | 32.23 (1.387) | 27.78 (1.094)             |
| E                   | 19         | 1.312-1P-.2L-DS   | 15.900 (.626) | 8.84(.348)   | 71.42 (2.812) | 38.43 (1.513) | 33.50 (1.319)             |
| F                   | 23         | 1.500-1P-.2L-DS   | 21.10 (.831)  | 10.90 (.429) | 74.63 (2.938) | 43.25 (1.703) | 39.55 (1.557)             |
| G                   | 25         | 1.625-1P-.2L-DS   | 24.28 (.956)  | 13.28 (.523) | 77.78 (3.062) | 46.36 (1.825) | 41.99 (1.653)             |
| H                   | 29         | 1.812-1P-.2L-DS   | 27.45 (1.081) | 16.33 (.643) | 80.98 (3.188) | 54.43 (2.143) | 46.20 (1.819)             |
| J                   | 33         | 2.000-1P-.2L-DS   | 30.15 (1.187) | 17.88 (.704) | 85.73 (3.375) | 59.16 (2.329) | 51.31(2.020)              |

\* Dimensions in (inches) mm

M28840/18 PLUG CONNECTOR WITH 90° STRAIN RELIEF BACKSHELL

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/18                                | C                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/18<br>Commercial: IN28840/18 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel,<br>Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc,<br>Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

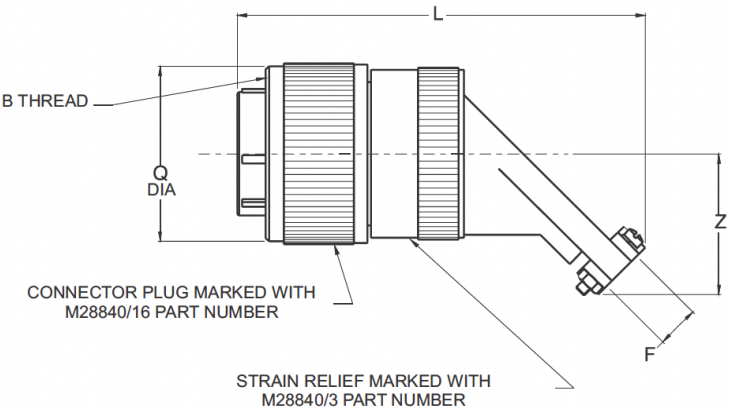


| TABLE A             |            |                   |               |              |               |               |               |                           |
|---------------------|------------|-------------------|---------------|--------------|---------------|---------------|---------------|---------------------------|
| Military Shell Size | Shell Size | B Thread Class 2B | F Cable Entry |              | L Max.        | Q Max.        | Z Max.        | Max O.D. Over Rear Clamps |
|                     |            |                   | Max.          | Min.         |               |               |               |                           |
| A                   | 11         | .750-1P-.2L-DS    | (.286) 7.26   | (.177) 4.49  | (2.562) 65.07 | (1.028) 26.11 | (.929) 23.60  | (.832) 21.11              |
| B                   | 13         | .875-1P-.2L-DS    | (.286) 7.26   |              | (2.562) 65.07 | (1.141) 28.98 | (.929) 23.60  |                           |
| C                   | 15         | 1.062-1P-.2L-DS   | (.416) 10.56  | (.250) 6.35  | (2.750) 69.85 | (1.263) 32.08 | (1.056) 26.32 | (.989) 25.12              |
| D                   | 17         | 1.125-1P-.2L-DS   | (.476) 12.09  | (.291) 7.39  | (2.875) 73.02 | (1.387) 35.23 | (1.233) 37.32 | (1.094) 27.79             |
| E                   | 19         | 1.312-1P-.2L-DS   | (.626) 15.90  | (.348) 8.83  | (3.000) 76.2  | (1.513) 38.43 | (1.296) 32.92 | (1.319) 33.50             |
| F                   | 23         | 1.500-1P-.2L-DS   | (.831) 21.10  | (.429) 10.89 | (3.125) 79.37 | (1.703) 43.25 | (1.358) 34.49 | (1.557) 39.55             |
| G                   | 25         | 1.625-1P-.2L-DS   | (.956) 24.28  | (.523) 13.28 | (3.250) 82.55 | (1.825) 46.25 | (1.420) 36.07 | (1.653) 41.99             |
| H                   | 29         | 1.812-1P-.2L-DS   | (1.081) 27.45 | (.643) 16.33 | (3.375) 85.72 | (2.143) 54.43 | (1.634) 41.50 | (1.819) 46.20             |
| J                   | 33         | 2.000-1P-.2L-DS   | (1.187) 30.14 | (.704) 17.88 | (3.438) 87.32 | (2.329) 59.15 | (1.859) 47.22 | (2.020) 51.31             |

\* Dimensions in (inches) mm

M28840/19 PLUG CONNECTOR WITH 45° STRAIN RELIEF BACKSHELL

|                                          |                                                                                                                                                                     |                                                                               |        |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/19                                | C                                                                                                                                                                   | G                                                                             | 1      | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                                   | SHELL SIZE                                                                    | INSERT | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/19<br>Commercial: IN28840/19 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel,<br>Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc,<br>Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

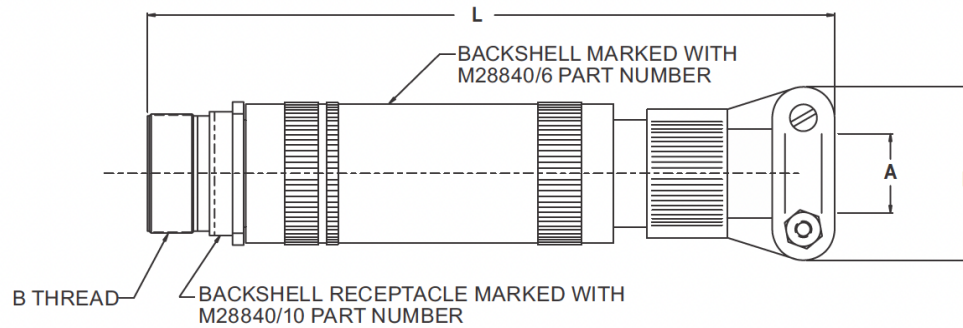


| TABLE A             |            |                   |               |              |                |               |               |                           |
|---------------------|------------|-------------------|---------------|--------------|----------------|---------------|---------------|---------------------------|
| Military Shell Size | Shell Size | B Thread Class 2B | F Cable Entry |              | L Max.         | Q Max.        | Z Max.        | Max O.D. Over Rear Clamps |
|                     |            |                   | Max.          | Min.         |                |               |               |                           |
| A                   | 11         | .750-1P-.2L-DS    | (.286) 7.26   | (.177) 4.49  | (3.125) 79.73  | (1.028) 26.11 | (.928) 23.57  | (.832) 21.13              |
| B                   | 13         | .875-1P-.2L-DS    | (.286) 7.26   |              | (3.125) 75.37  | (1.141) 28.98 | (.928) 23.57  |                           |
| C                   | 15         | 1.062-1P-.2L-DS   | (.416) 10.56  | (.250) 6.35  | (3.250) 82.55  | (1.263) 32.08 | (.991) 25.17  | (.989) 25.12              |
| D                   | 17         | 1.125-1P-.2L-DS   | (.476) 12.09  | (.291) 7.39  | (3.312) 84.12  | (1.387) 35.22 | (1.110) 28.19 | (1.094) 27.78             |
| E                   | 19         | 1.312-1P-.2L-DS   | (.626) 15.90  | (.348) 8.83  | (3.375) 85.725 | (1.513) 38.43 | (1.172) 29.76 | (1.319) 33.50             |
| F                   | 23         | 1.500-1P-.2L-DS   | (.831) 21.10  | (.429) 10.89 | (3.438) 87.32  | (1.703) 43.25 | (1.235) 31.39 | (1.557) 39.54             |
| G                   | 25         | 1.625-1P-.2L-DS   | (.956) 24.28  | (.523) 13.28 | (3.500) 88.9   | (1.825) 46.35 | (1.297) 32.94 | (1.653) 41.98             |
| H                   | 29         | 1.812-1P-.2L-DS   | (1.081) 27.45 | (.643) 16.33 | (3.750) 95.25  | (2.143) 54.43 | (1.543) 39.19 | (1.819) 46.20             |
| J                   | 33         | 2.000-1P-.2L-DS   | (1.187) 30.14 | (.704) 17.88 | (3.875) 98.425 | (2.329) 59.15 | (1.668) 42.36 | (2.020) 51.30             |

\* Dimensions in (inches) mm

# M28840/20 RECEPTACLE CONNECTOR WITH STRAIGHT EMI/RFI BACKSHELL

|                                          |                                                                                                                                                               |                                                                               |        |                  |                                          |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/20                                | C                                                                                                                                                             | G                                                                             | 1      | A                | A                                        | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                             | SHELL SIZE                                                                    | INSERT | BACKSHELL SIZE   | BACKSHELL STYLE                          | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/20<br>Commercial: IN28840/20 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel, Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc, Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | A<br>B<br>C<br>D | A: EMI Environmental<br>B: Environmental | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

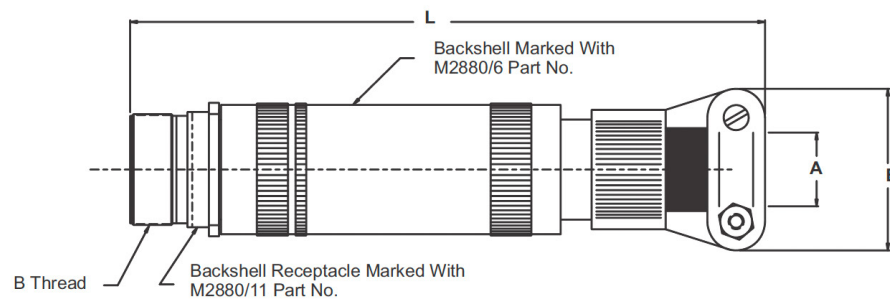


| TABLE A             |            |                      |               |               |                   |               |                |
|---------------------|------------|----------------------|---------------|---------------|-------------------|---------------|----------------|
| Military Shell Size | Shell Size | Backshell Shell Size | A Cable Entry |               | B Thread Class 2B | E Max.        | L Max.         |
|                     |            |                      | Max.          | Min.          |                   |               |                |
| A                   | 11         | A                    | (.312) 7.92   | (.188) 4.77   | .750-1P-.2L-DS    | (.938) 23.82  | (6.625) 168.27 |
| A                   | 11         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 31.75 | (6.625) 168.27 |
| A                   | 11         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.625) 168.27 |
| B                   | 13         | A                    | (.312) 7.92   | (.188) 4.77   | .875-1P-.2L-DS    | (.938) 23.82  | (6.625) 168.27 |
| B                   | 13         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 31.75 | (6.625) 168.27 |
| B                   | 13         | C                    | (.562) 14.27  | (.344) 8.79   |                   | (1.312) 33.32 | (6.625) 168.27 |
| B                   | 13         | D                    | (.652) 16.546 | (.375) 9.52   | 1.062-1P-.2L-DS   | (1.312) 33.32 | (7.125) 184.15 |
| C                   | 15         | A                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 31.75 | (6.625) 168.27 |
| C                   | 15         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.625) 168.27 |
| C                   | 15         | C                    | (.625) 15.87  | (.375) 9.52   | 1.125-1P-.2L-DS   | (1.312) 33.32 | (7.125) 180.97 |
| C                   | 15         | D                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (7.188) 182.57 |
| C                   | 15         | E                    | (.312) 7.92   | (.188) 4.77   |                   | (.938) 23.82  | (6.625) 168.27 |
| D                   | 17         | A                    | (.625) 16.56  | (.375) 9.52   | 1.312-1P-.2L-DS   | (1.312) 33.32 | (7.125) 180.97 |
| D                   | 17         | B                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (7.188) 182.57 |
| D                   | 17         | C                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.188) 182.57 |
| E                   | 19         | A                    | (.625) 15.82  | (.375) 9.52   | 1.500-1P-.2L-DS   | (1.312) 33.32 | (7.125) 180.97 |
| E                   | 19         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.250) 184.15 |
| F                   | 23         | A                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (7.688) 195.27 |
| F                   | 23         | B                    | (.938) 23.82  | (.625) 15.87  | 1.625-1P-.2L-DS   | (1.750) 44.45 | (7.812) 198.42 |
| F                   | 23         | C                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.28 | (7.938) 201.62 |
| G                   | 25         | A                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.750) 196.85 |
| G                   | 25         | B                    | (1.188) 30.17 | (.812) 20.62  | 1.812-1P-.2L-DS   | (2.093) 53.28 | (8.438) 214.32 |
| G                   | 25         | C                    | (1.250) 31.75 | (.875) 22.22  |                   | (2.093) 53.28 | (8.438) 214.32 |
| G                   | 25         | D                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (8.500) 215.9  |
| H                   | 29         | A                    | (1.188) 30.17 | (.812) 20.62  | 2.000-1P-.2L-DS   | (2.093) 53.28 | (8.438) 214.32 |
| H                   | 29         | B                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (8.500) 215.9  |
| J                   | 33         | A                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (8.500) 215.9  |
| J                   | 33         | B                    | (1.625) 41.27 | (1.250) 31.75 |                   | (2.750) 69.85 | (8.750) 222.25 |

\* Dimensions in (inches) mm

# M28840/21 RECEPTACLE CONNECTOR WITH STRAIGHT EMI/RFI BACKSHELL

|                                          |                                                                                                                                                               |                                                                               |        |                  |                                          |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/21                                | C                                                                                                                                                             | G                                                                             | 1      | A                | A                                        | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                             | SHELL SIZE                                                                    | INSERT | BACK-SHELL SIZE  | BACKSHELL STYLE                          | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/21<br>Commercial: IN28840/21 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel, Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc, Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | A<br>B<br>C<br>D | A: EMI Environmental<br>B: Environmental | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

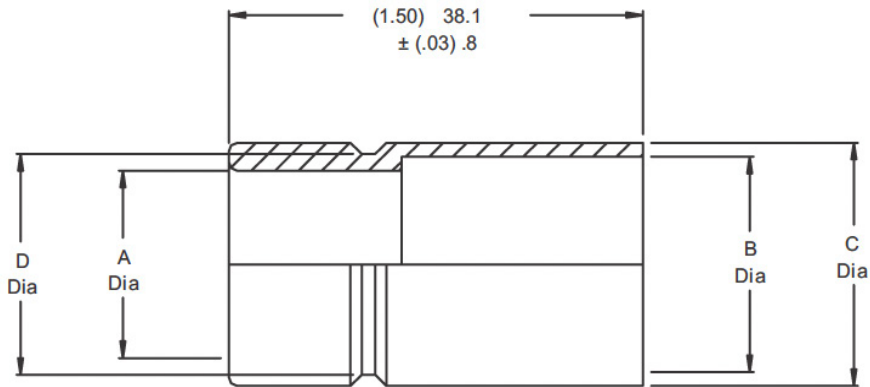


| TABLE A             |            |                      |               |               |                   |               |                |
|---------------------|------------|----------------------|---------------|---------------|-------------------|---------------|----------------|
| Military Shell Size | Shell Size | Backshell Shell Size | A Cable Entry |               | B Thread Class 2B | E Max.        | L Max.         |
|                     |            |                      | Max.          | Min.          |                   |               |                |
| A                   | 11         | A                    | (.312) 7.92   | (.188) 4.77   | .750-1P-.2L-DS    | (.938) 23.82  | (6.625) 168.27 |
| A                   | 11         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 31.75 | (6.625) 168.27 |
| A                   | 11         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.625) 168.27 |
| B                   | 13         | A                    | (.312) 7.92   | (.188) 4.77   | .875-1P-.2L-DS    | (.938) 23.82  | (6.625) 168.27 |
| B                   | 13         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 31.75 | (6.625) 168.27 |
| B                   | 13         | C                    | (.562) 14.27  | (.344) 8.79   |                   | (1.312) 33.32 | (6.625) 168.27 |
| B                   | 13         | D                    | (.652) 16.546 | (.375) 9.52   |                   | (1.312) 33.32 | (7.125) 184.15 |
| C                   | 15         | A                    | (.438) 11.12  | (.281) 7.13   | 1.062-1P-.2L-DS   | (1.125) 31.75 | (6.625) 168.27 |
| C                   | 15         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.625) 168.27 |
| C                   | 15         | C                    | (.625) 15.87  | (.375) 9.52   |                   | (1.312) 33.32 | (7.125) 180.97 |
| C                   | 15         | D                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (7.188) 182.57 |
| C                   | 15         | E                    | (.312) 7.92   | (.188) 4.77   |                   | (.938) 23.82  | (6.625) 168.27 |
| D                   | 17         | A                    | (.625) 16.56  | (.375) 9.52   | 1.125-1P-.2L-DS   | (1.312) 33.32 | (7.125) 180.97 |
| D                   | 17         | B                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (7.188) 182.57 |
| D                   | 17         | C                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.188) 182.57 |
| E                   | 19         | A                    | (.625) 15.82  | (.375) 9.52   | 1.312-1P-.2L-DS   | (1.312) 33.32 | (7.125) 180.97 |
| E                   | 19         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.250) 184.15 |
| F                   | 23         | A                    | (.750) 19.05  | (.438) 11.12  | 1.500-1P-.2L-DS   | (1.593) 40.46 | (7.688) 195.27 |
| F                   | 23         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.812) 198.42 |
| F                   | 23         | C                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.28 | (7.938) 201.62 |
| G                   | 25         | A                    | (.938) 23.82  | (.625) 15.87  | 1.625-1P-.2L-DS   | (1.750) 44.45 | (7.750) 196.85 |
| G                   | 25         | B                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.28 | (8.438) 214.32 |
| G                   | 25         | C                    | (1.250) 31.75 | (.875) 22.22  |                   | (2.093) 53.28 | (8.438) 214.32 |
| G                   | 25         | D                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (8.500) 215.9  |
| H                   | 29         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.812-1P-.2L-DS   | (2.093) 53.28 | (8.438) 214.32 |
| H                   | 29         | B                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (8.500) 215.9  |
| J                   | 33         | A                    | (1.380) 35.05 | (1.000) 25.4  | 2.000-1P-.2L-DS   | (2.343) 59.51 | (8.500) 215.9  |
| J                   | 33         | B                    | (1.625) 41.27 | (1.250) 31.75 |                   | (2.750) 69.85 | (8.750) 222.25 |

\* Dimensions in (inches) mm

M28840/22 METAL CONDUIT BUSHING

|                                          |                              |                                              |
|------------------------------------------|------------------------------|----------------------------------------------|
| M28840/22                                | S                            | 03                                           |
| DESIGNATION                              | MATERIAL                     | DASH #                                       |
| QPL: M28840/22<br>Commercial: IN28840/22 | S: Corrosion Resistant Steel | 03<br>04<br>05<br>06<br>08<br>10<br>12<br>16 |

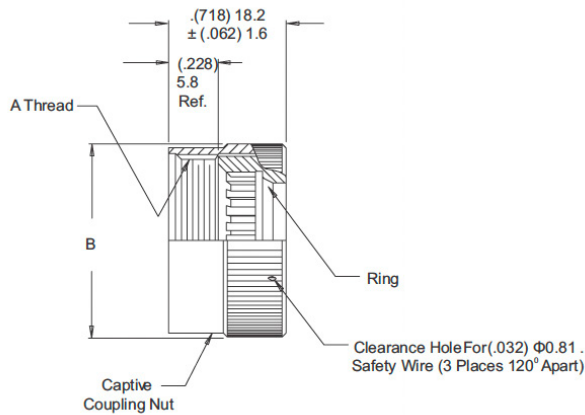


| TABLE A |                               |                  |                     |                   |                 |
|---------|-------------------------------|------------------|---------------------|-------------------|-----------------|
| DASH #  | MIL-DTL-28840/04<br>Size Ref. | A<br>± 0.5 (.02) | B<br>± 0.12 (.05) ± | C<br>± 0.12 (.05) | D<br>0.12 (.05) |
| 03      | 03                            | (.375) 9.53      | (.540) 13.71        | (.625) 15.87      | (.525) 13.34    |
| 04      | 04                            | (.500) 12.70     | (.665) 16.89        | (.750) 19.05      | (.650) 16.51    |
| 05      | 05                            | (.625) 15.87     | (.780) 19.81        | (.875) 22.23      | (.775) 19.69    |
| 06      | 06                            | (.750) 19.05     | (.940) 23.88        | (1.000) 25.40     | (.900) 22.86    |
| 08      | 08                            | (1.000) 25.40    | (1.225) 31.12       | (1.375) 34.93     | (1.275) 32.39   |
| 10      | 10                            | (1.250) 31.75    | (1.470) 37.34       | (1.625) 41.28     | (1.525) 38.74   |
| 12      | 12                            | (1.500) 38.10    | (1.740) 44.20       | (1.875) 47.65     | (1.775) 45.09   |
| 16      | 16                            | (2.000) 50.80    | (2.215) 56.26       | (2.375) 60.33     | (2.275) 57.79   |

\* Dimensions in (inches) mm

M28840/23 E NUT

|                                          |                                                                               |                                                                                                                                                                |
|------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M28840/23                                | J                                                                             | W                                                                                                                                                              |
| DESIGNATION                              | SHELL SIZE                                                                    | MATERIAL & FINISH                                                                                                                                              |
| QPL: M28840/23<br>Commercial: IN28840/23 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) |

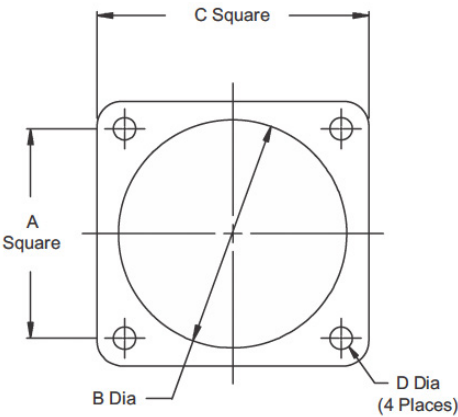


| TABLE A             |            |                   |               |
|---------------------|------------|-------------------|---------------|
| Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      |
| A                   | 11         | .750-20 UNEF      | (1.028) 26.11 |
| B                   | 13         | .875-20 UNEF      | (1.14) 26.11  |
| C                   | 15         | 1.000-20 UNEF     | (2.263) 32.08 |
| D                   | 17         | 1.125-18 UNEF     | (1.387) 35.23 |
| E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 |
| F                   | 23         | 1.438-18 UNEF     | (1.703) 43.51 |
| G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 |
| H                   | 29         | 1.876-16 UN       | (2.143) 54.43 |
| J                   | 33         | 2.062-16 UNS      | (2.329) 59.16 |

\* Dimensions in (inches) mm

M28840/24 MOUNTING GASKET

|                                          |                                                                               |                                     |
|------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|
| M28840/24                                | G                                                                             | A                                   |
| DESIGNATION                              | SHELL SIZE                                                                    | MATERIAL & FINISH                   |
| QPL: M28840/24<br>Commercial: IN28840/24 | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | A - Fluorinated Silicone<br>B - EMI |

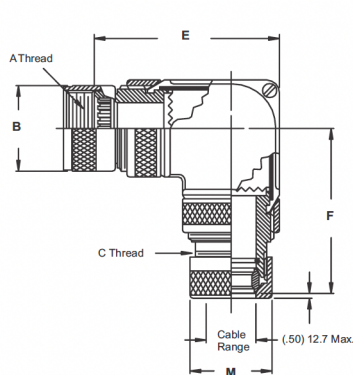


| TABLE A             |            |                                |                                 |                                |                            |
|---------------------|------------|--------------------------------|---------------------------------|--------------------------------|----------------------------|
| Military Shell Size | Shell Size | A                              | B Ø                             | C                              | D Ø                        |
| A                   | 11         | (.760) 19.30<br>(.740) 18.80   | (.766) 19.46<br>(.750) 19.05    | (1.039) 26.39<br>(1.023) 25.98 | (.130) 3.30<br>(.110) 2.79 |
| B                   | 13         | (.853) 21.67<br>(.833) 21.16   | (.891) 22.63<br>(.875) 22.22    | (1.154) 29.31<br>(1.138) 28.90 |                            |
| C                   | 15         | (.978) 24.84<br>(.958) 24.33   | (1.078) 27.38<br>(1.062) 26.97  | (1.274) 32.36<br>(1.258) 31.95 |                            |
| D                   | 17         | (1.025) 26.04<br>(1.005) 25.53 | (1.141) 28.98<br>(1.125) 28.58) | (1.399) 26.39<br>(1.383) 35.13 |                            |
| E                   | 19         | (1.150) 29.21<br>(1.130) 28.70 | (1.338) 33.98<br>(1.312) 33.32  | (1.524) 38.71<br>(1.508) 38.30 |                            |
| F                   | 23         | (1.291) 32.79<br>(1.271) 32.28 | (1.516) 38.51<br>(1.500) 38.10  | (1.734) 44.04<br>(1.718) 43.64 |                            |
| G                   | 25         | (1.402) 35.61<br>(1.382) 35.10 | (1.641) 41.68<br>(1.625) 41.28  | (1.834) 46.58<br>(1.818) 46.18 | (.157) 3.99<br>(.137) 3.48 |
| H                   | 29         | (1.578) 40.08<br>(1.558) 39.57 | (1.891) 48.03<br>(1.875) 47.62  | (2.154) 54.71<br>(2.138) 54.30 |                            |
| J                   | 33         | (1.744) 44.30<br>(1.724) 43.79 | (2.078) 52.78<br>(2.062) 52.37  | (2.344) 59.54<br>(2.328) 59.13 | (.183) 4.65<br>(.163) 4.14 |

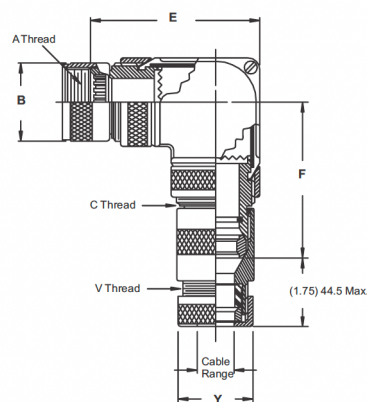
\* Dimensions in (inches) mm

# M28840/25 90°EMI CONDUIT ADAPTER

| M28840/25                                | 16          | W                                                                                                                                             | A                                                  |
|------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| DESIGNATION                              | DASH #      | MATERIAL & FINISH                                                                                                                             | BACKSHELL STYLE                                    |
| QPL: M28840/25<br>Commercial: IN28840/25 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>L: Aluminum -Tin-Zinc, Non-Reflective<br>S: Aluminum -Zinc Nickel, Non-Reflective | A: EMI, Non-Environmental<br>B: EMI, Environmental |



Style A- EMI/Non-Environmental  
(Plain Conduit)



Style B- EMI/Non-Environmental  
(Jacket Conduit)

TABLE A

| DASH # | Military Shell Size | A Thread Class 2B | B Ø Max.      | C Thread Class 1 | D Ø Max.      | Sealing Range |               |
|--------|---------------------|-------------------|---------------|------------------|---------------|---------------|---------------|
|        |                     |                   |               |                  |               | Max.          | Min.          |
| 01     | A                   | .750-20 UNEF      | (1.028) 26.11 | .875-20 UNEF     | (1.031) 26.19 | (.63) 16.0    | (.50) 12.7    |
| 02     | B                   | .875-20 UNEF      | (1.141) 28.98 | .875-20 UNEF     |               | (.63) 6.0     | (.50) 12.7    |
| 03     | B                   |                   |               | 1.000-20 UNEF    |               | (.75) 19.1    | (.63) 16.0    |
| 04     | C                   |                   |               | .875-20 UNEF     | (1.281) 32.58 | (.63) 16.0    | (.50) 12.7    |
| 05     | C                   | 1.000-20 UNEF     | (1.263) 32.08 | 1.000-20 UNEF    |               | (.75) 19.1    | (.63) 16.0    |
| 06     | C                   |                   |               | 1.125-18 UNEF    |               | (.88) 22.4    | (.75) 19.1    |
| 07     | C                   |                   |               | 1.250-18 UNEF    | (1.531) 38.89 | (1.00) 25.4   | (.88) 22.4    |
| 08     | D                   | 1.125-18 UNEF     | (1.387) 35.23 | 1.125-18 UNEF    |               | (.88) 22.4    | (.75) 19.1    |
| 09     | D                   |                   |               | 1.250-18 UNEF    |               | (1.00) 25.4   | (.88) 22.4    |
| 10     | D                   |                   |               | 1.625-18 UNEF    |               | (1.38) 35.1   | (1.19) 30.2   |
| 11     | E                   | 1.250-18 UNEF     | (1.513) 38.43 | 1.125-18 UNEF    |               | (.88) 22.4    | (.75) 19.1    |
| 12     | E                   |                   |               | 1.250-18 UNEF    |               | (1.00) 25.4   | (.88) 22.4    |
| 13     | E                   |                   |               | 1.625-18 UNEF    | (1.781) 45.24 | (1.38) 35.1   | (1.19) 30.2   |
| 14     | F                   | 1.438-18 UNEF     | (1.703) 45.51 | 1.250-18 UNEF    |               | (1.00) 25.4   | (0.88) 8 22.4 |
| 15     | F                   |                   |               | 1.625-18 UNEF    |               | (1.38) 35.1   | (1.18) 30.2   |
| 16     | F                   | 1.562-18 UNEF     | (1.825) 46.35 | 1.875-18 UNS     |               | (1.63) 41.4   | (1.44) 36.6   |
| 17     | G                   |                   |               | 1.250-18 UNEF    | (2.031) 51.59 | (1.00) 25.4   | (.88) 22.4    |
| 18     | G                   |                   |               | 1.625-18 UNEF    |               | (1.38) 35.1   | (1.19) 30.2   |
| 19     | G                   |                   |               | 1.875-18 UNS     |               | (1.63) 41.4   | (1.44) 36.5   |
| 20     | G                   |                   |               | 2.125-16 UN      |               | (1.88) 47.8   | (1.63) 41.4   |
| 21     | H                   | 1.875-16 UN       | (2.143) 54.43 | 1.875-18 UNS     |               | (1.63) 41.4   | (1.44) 36.6   |
| 22     | H                   |                   |               | 2.125-16 UN      | (2.531) 64.29 | (1.33) 47.8   | (1.63) 41.4   |
| 23     | J                   | 2.062-16 UNS      | (2.329) 59.16 | 2.125-16 UN      |               | (1.88) 47.8   | (1.63) 41.4   |
| 24     | J                   |                   |               | 2.750-16 UN      |               | (2.38) 60.5   | (2.13) 54.1   |
| 25     | A                   | .750-20 UNEF      | (1.028) 26.11 | .875-20 UNEF     | (1.031) 25.19 | (.75) 19.5    | (.63) 16.0    |

\* Dimensions in (inches) mm

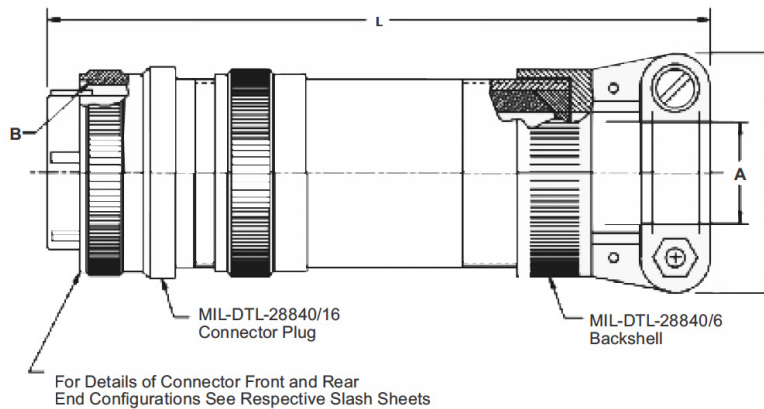
# M28840/25 90° EMI CONDUIT ADAPTER

| TABLE A |                     |                       |             |              |                  |             |              |
|---------|---------------------|-----------------------|-------------|--------------|------------------|-------------|--------------|
| DASH #  | Military Shell Size | Conduit Size M28840/4 | E Max.      | F Max.       | V Thread Class 2 | M Ø Max.    | Y Ø Max.     |
| 01      | A                   | 03                    | (2.36) 59.9 | (3.50) 92.8  | 1.000-20 UNEF    | (1.12) 28.5 | (1.19) 30.23 |
| 02      | B                   | 03                    |             |              | 1.000-20 UNEF    | (1.12) 28.5 | (1.19) 30.23 |
| 03      | B                   | 04                    |             |              | 1.188-18 UNEF    | (1.25) 31.8 | (1.38) 35.1  |
| 04      | C                   | 03                    | (2.56) 65.0 | (3.69) 9.79  | 1.000-20 UNEF    | (1.12) 28.5 | (1.39) 35.3  |
| 05      | C                   | 04                    |             |              | 1.118-18 UNEF    | (1.25) 31.8 | (1.38) 35.1  |
| 06      | C                   | 05                    |             |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 07      | C                   | 06                    | (2.67) 67.8 | (3.81) 101.0 | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 08      | D                   | 05                    |             |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 09      | D                   | 06                    |             |              | 1.750-18 UNS     | (1.62) 42.2 | (1.94) 49.3  |
| 10      | D                   | 08                    |             |              | 2.00-18 UNS      | (1.81) 46.0 | (2.19) 55.6  |
| 11      | E                   | 05                    |             |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 12      | E                   | 06                    |             |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 13      | E                   | 08                    | (3.05) 77.5 | (4.19) 111.1 | 2.00-18 UNS      | (1.81) 46.0 | (2.19) 55.6  |
| 14      | F                   | 06                    |             |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 15      | F                   | 08                    |             |              | 2.00-18 UNS      | (1.81) 46.0 | (2.19) 55.6  |
| 16      | F                   | 10                    |             |              | 2.250-18 UN      | (2.18) 55.4 | (2.44) 62.0  |
| 17      | G                   | 06                    |             |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 18      | G                   | 08                    |             |              | 2.00-18 UN       | (1.81) 46.0 | (2.19) 55.6  |
| 19      | G                   | 10                    | (3.33) 84.6 | (4.50) 119.4 | 2.250-18 UN      | (2.18) 55.4 | (2.44) 62.0  |
| 20      | G                   | 12                    |             |              | 2.500-16 UN      | (2.56) 65.0 | (2.69) 68.5  |
| 21      | H                   | 10                    |             |              | 2.250-16 UN      | (2.18) 55.4 | (2.18) 55.4  |
| 22      | H                   | 12                    | (3.70) 94.0 | (4.43) 128.1 | 1.500-16 UN      | (2.56) 65.0 | (2.44) 62.0  |
| 23      | J                   | 12                    |             |              | 2.500-16 UN      | (2.56) 65.0 | (2.69) 68.3  |
| 24      | J                   | 16                    |             |              | 3.00-16 UN       | (3.06) 77.8 | (3.19) 81.0  |

\* Dimensions in (inches) mm

# M28840/26 PLUG CONNECTOR WITH STRAIGHT EMI/RFI BACKSHELL

|                                          |                                                                                                                                                               |                                                                               |        |                  |                                          |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/26                                | C                                                                                                                                                             | G                                                                             | 1      | A                | A                                        | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                             | SHELL SIZE                                                                    | INSERT | BACKSHELL SIZE   | BACKSHELL STYLE                          | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/26<br>Commercial: IN28840/26 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel, Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc, Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | A<br>B<br>C<br>D | A: EMI Environmental<br>B: Environmental | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |



| TABLE A             |            |                      |               |               |                   |               |                |
|---------------------|------------|----------------------|---------------|---------------|-------------------|---------------|----------------|
| Military Shell Size | Shell Size | Backshell Shell Size | A Cable Entry |               | B Thread Class 2B | E Max.        | L Max.         |
|                     |            |                      | Max.          | Min.          |                   |               |                |
| A                   | 11         | A                    | (.312) 7.92   | (.188) 4.77   | .750-1P-.2L-DS    | (.938) 23.82  | (6.500) 165.1  |
| A                   | 11         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.175) 28.57 | (6.500) 165.1  |
| A                   | 11         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.500) 165.1  |
| B                   | 13         | A                    | (.312) 7.92   | (.188) 4.77   | .875-1P-.2L-DS    | (.938) 23.82  | (6.500) 165.1  |
| B                   | 13         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 28.57 | (6.500) 165.1  |
| B                   | 13         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (6.500) 165.1  |
| B                   | 13         | D                    | (.652) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (7.000) 177.8  |
| C                   | 15         | A                    | (.438) 11.12  | (.281) 7.13   | 1.062-1P-.2L-DS   | (1.125) 28.57 | (6.500) 165.1  |
| C                   | 15         | B                    | (.562) 14.27  | (.347) 8.73   |                   | (1.312) 33.32 | (6.500) 165.1  |
| C                   | 15         | C                    | (.625) 15.87  | (.375) 9.52   |                   | (1.312) 33.32 | (6.500) 165.1  |
| C                   | 15         | D                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (6.500) 165.1  |
| C                   | 15         | E                    | (.312) 7.92   | (.188) 4.77   |                   | (0.938) 23.82 | (7.000) 177.8  |
| D                   | 17         | A                    | (.625) 15.87  | (.375) 9.52   | 1.125-1P-.2L-DS   | (1.312) 33.32 | (7.000) 177.8  |
| D                   | 17         | B                    | (.750) 19.05  | (.438) 11.12  |                   | (1.595) 40.46 | (7.000) 177.8  |
| D                   | 17         | C                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.000) 177.8  |
| E                   | 19         | A                    | (.625) 15.87  | (.375) 9.52   | 1.312-1P-.2L-DS   | (1.312) 33.32 | (7.500) 190.5  |
| E                   | 19         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.730) 44.15 | (7.625) 193.67 |
| F                   | 23         | A                    | (.750) 19.05  | (.438) 11.12  | 1.500-1P-.2L-DS   | (1.593) 40.46 | (7.812) 193.42 |
| F                   | 23         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (7.625) 193.67 |
| F                   | 23         | C                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.16 | (7.625) 193.67 |
| G                   | 25         | A                    | (.938) 23.82  | (.625) 15.87  | 1.625-1P-.2L-DS   | (1.750) 44.45 | (7.625) 193.67 |
| G                   | 25         | B                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.16 | (7.625) 193.67 |
| G                   | 25         | C                    | (1.250) 31.75 | (.875) 22.22  |                   | (2.093) 53.16 | (8.312) 211.12 |
| G                   | 25         | D                    | (1.380) 35.05 | (1.00) 25.4   |                   | (2.343) 59.51 | (8.312) 211.12 |
| H                   | 29         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.812-1P-.2L-DS   | (2.093) 53.16 | (8.312) 211.12 |
| H                   | 29         | B                    | (1.380) 35.05 | (1.00) 25.4   |                   | (2.343) 59.51 | (8.312) 211.12 |
| J                   | 33         | A                    | (1.380) 35.05 | (1.00) 25.4   | 2.000-1P-.2L-DS   | (2.343) 59.51 | (8.312) 211.12 |
| J                   | 33         | B                    | (1.625) 41.27 | (1.256) 31.75 |                   | (2.750) 69.85 | (8.625) 219.8  |

\* Dimensions in (inches) mm

# M28840/27 45° EMI CONDUIT ADAPTER

| M28840/27                                | 16          | W                                                                                                                                                              | A                                                  |
|------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| DESIGNATION                              | DASH #      | MATERIAL & FINISH                                                                                                                                              | BACKSHELL STYLE                                    |
| QPL: M28840/27<br>Commercial: IN28840/27 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel<br>S: Aluminum -Zinc Nickel, Non-Reflective<br>L: Aluminum-Tin-Zinc, Non-Reflective (Commercial only) | A: EMI, Non-Environmental<br>B: EMI, Environmental |

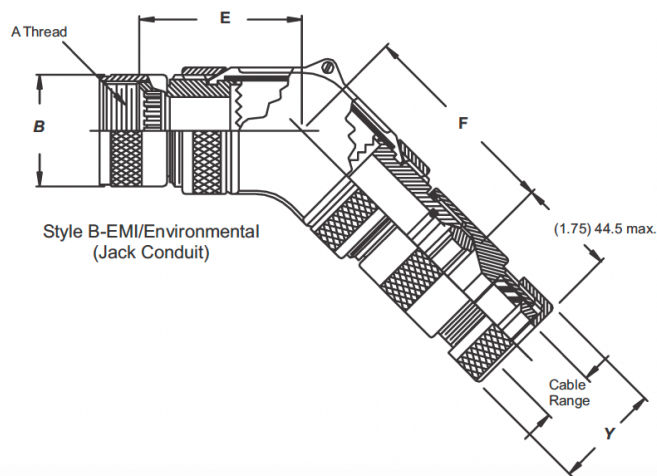
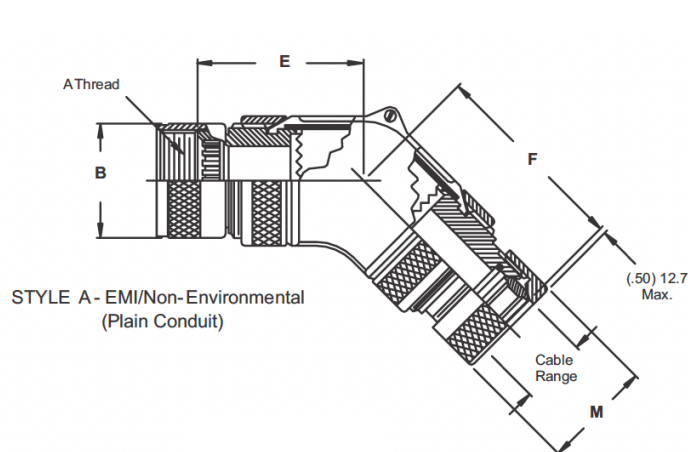


TABLE A

| DASH # | Military Shell Size | Shell Size | A Thread Class 2B | B Ø Max.      | C Thread Class 2 | D Ø Max.        | Sealing Range |             | Conduit Size M28840/4 | E Max.      |
|--------|---------------------|------------|-------------------|---------------|------------------|-----------------|---------------|-------------|-----------------------|-------------|
|        |                     |            |                   |               |                  |                 | Max..         | Min..       |                       |             |
| 01     | A                   | 11         | .750-20 UNEF      | (1.028) 26.11 | .875-20 UNEF     | "(1.031) 26.19" | (.63) 16.0    | (.50) 12.7  | 03                    | (2.36) 59.9 |
| 02     | B                   | 13         | .875-20 UNEF      | (1.141) 28.98 | .875-20 UNEF     |                 | (.63) 16.0    | (.50) 12.7  | 03                    |             |
| 03     | B                   | 13         |                   |               | 1.000-20 UNEF    |                 | (.75) 19.1    | (.63) 16.0  | 04                    |             |
| 04     | C                   | 15         | 1.000-20 UNEF     | (1.263) 32.08 | .875-20 UNEF     | "(1.281) 32.50" | (.63) 16.0    | (.50) 12.7  | 03                    | (2.56) 65.0 |
| 05     | C                   | 15         |                   |               | 1.000-20 UNEF    |                 | (.75) 19.1    | (.63) 16.0  | 04                    |             |
| 06     | C                   | 15         |                   |               | 1.125-18 UNEF    |                 | (.88) 22.4    | (.75) 19.1  | 05                    |             |
| 07     | C                   | 15         |                   |               | 1.250-18 UNEF    |                 | (1.00) 25.4   | (.88) 22.4  | 06                    |             |
| 08     | D                   | 17         | 1.125-18 UNEF     | (1.387) 38.23 | 1.125-18 UNEF    | "(1.531) 38.80" | (.88) 22.4    | (.75) 19.1  | 05                    | (2.67) 67.8 |
| 09     | D                   | 17         |                   |               | 1.250-18 UNEF    |                 | (1.00) 25.4   | (.88) 22.4  | 06                    |             |
| 10     | D                   | 17         |                   |               | 1.625-18 UNEF    |                 | (1.38) 35.1   | (1.19) 22   | 08                    |             |
| 11     | E                   | 19         |                   |               | 1.125-18 UNEF    |                 | (.88) 22.4    | (.75) 19.1  | 05                    |             |
| 12     | E                   | 19         | 1.250-18 UNEF     | (1.513) 38.43 | 1.250-18 UNEF    | "(1.781) 45.24" | (1.00) 25.4   | (.88) 22.4  | 06                    | (3.05) 77.5 |
| 13     | E                   | 19         |                   |               | 1.625-18 UNEF    |                 | (1.38) 35.1   | (1.19) 30.2 | 08                    |             |
| 14     | F                   | 23         |                   |               | 1.250-18 UNEF    |                 | (1.000) 25.4  | (.88) 22.4  | 06                    |             |
| 15     | F                   | 23         |                   |               | 1.625-18 UNEF    |                 | (1.38) 35.1   | (1.19) 30.2 | 08                    |             |
| 16     | F                   | 23         | 1.438-18 UNEF     | (1.703) 45.51 | 1.875-18 UNS     | "(1.781) 45.24" | (1.63) 41.4   | (1.44) 36.6 | 10                    | (3.05) 77.5 |
| 17     | G                   | 25         |                   |               | 1.250-18 UNEF    |                 | (1.00) 25.4   | (.88) 22.4  | 06                    |             |
| 18     | G                   | 25         |                   |               | 1.625-18 UNEF    |                 | (1.38) 41.4   | (1.19) 30.2 | 08                    |             |
| 19     | G                   | 25         |                   |               | 1.875-18 UNS     |                 | (1.43) 41.4   | (1.44) 36.6 | 10                    |             |
| 20     | G                   | 25         | 1.562-18 UNEF     | (1.825) 46.35 | 2.125-16 UN      | "(2.031) 51.59" | (1.88) 47.8   | (1.63) 41.4 | 12                    | (3.33) 84.6 |
| 21     | H                   | 29         |                   |               | 1.875-18 UNS     |                 | (1.63) 41.4   | (1.44) 36.6 | 10                    |             |
| 22     | H                   | 29         |                   |               | 2.125-16 UN      |                 | (1.88) 47.8   | (1.63) 41.4 | 12                    |             |
| 23     | J                   | 33         |                   |               | 2.125-16 UN      |                 | (1.88) 47.8   | (1.63) 41.4 | 12                    |             |
| 24     | J                   | 33         | 2.062-16 UNS      | (2.329) 50.16 | 2.750-16 UN      | "(2.531) 64.29" | (2.38) 60.5   | (2.13) 54.1 | 16                    | (3.70) 94.0 |
| 25     | A                   | 11         |                   |               | .875-20 UNEF     |                 | (.75) 19.1    | (.63) 16.0  | 04                    |             |

\* Dimensions in (inches) mm

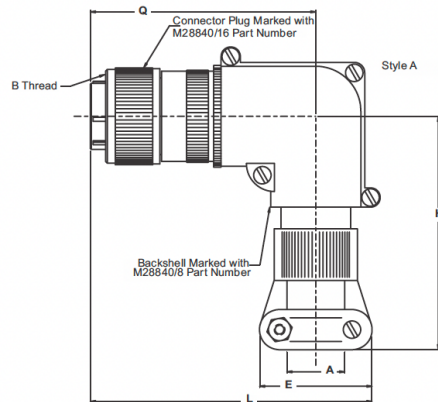
## M28840/27 45°EMI CONDUIT ADAPTER

| TABLE A |                     |            |              |                  |             |              |
|---------|---------------------|------------|--------------|------------------|-------------|--------------|
| DASH #  | Military Shell Size | Shell Size | F Max.       | V Thread Class 2 | M Ø Max.    | Y Ø Max.     |
| 01      | A                   | 11         | (3.50) 88.9  | 1.000-20 UNEF    | (1.12) 28.5 | (1.19) 30.23 |
| 02      | B                   | 13         |              | 1.000-20 UNEF    | (1.12) 28.5 | (1.19) 30.23 |
| 03      | B                   | 13         |              | 1.188-18 UNEF    | (1.25) 31.8 | (1.38) 35.1  |
| 04      | C                   | 15         | (3.69) 93.7  | 1.000-20 UNEF    | (1.12) 28.5 | (1.19) 30.23 |
| 05      | C                   | 15         |              | 1.188-18 UNEF    | (1.25) 31.8 | (1.38) 35.1  |
| 06      | C                   | 15         |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 07      | C                   | 15         | (3.81) 96.7  | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 08      | D                   | 17         |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 09      | D                   | 17         |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 10      | D                   | 17         |              | 2.00-18 UNS      | (1.81) 46.0 | (2.19) 55.6  |
| 11      | E                   | 19         |              | 1.438-18 UNEF    | (1.43) 36.3 | (1.63) 41.4  |
| 12      | E                   | 19         |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 13      | E                   | 19         | (4.19) 106.4 | 2.00-18 UNS      | (1.81) 46.0 | (2.19) 55.6  |
| 14      | F                   | 23         |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 15      | F                   | 23         |              | 2.00-18 UN       | (1.81) 46.0 | (2.19) 55.6  |
| 16      | F                   | 23         |              | 2.250-16 UN      | (2.18) 55.4 | (2.44) 62.0  |
| 17      | G                   | 25         |              | 1.750-18 UNS     | (1.62) 41.2 | (1.94) 49.3  |
| 18      | G                   | 25         |              | 2.00-18 UN       | (1.81) 46.0 | (2.19) 55.6  |
| 19      | G                   | 25         | (4.50) 114.3 | 2.250-16 UN      | (2.18) 55.4 | (2.44) 62.0  |
| 20      | G                   | 25         |              | 2.500-16 UN      | (2.56) 65.0 | (2.69) 68.3  |
| 21      | H                   | 29         |              | 2.250-16 UN      | (2.18) 55.4 | (2.44) 62.0  |
| 22      | H                   | 29         | (4.83) 22.6  | 2.500-16 UN      | (2.56) 65.0 | (2.69) 68.3  |
| 23      | J                   | 33         |              | 2.500-16 UN      | (2.56) 65.0 | (2.69) 68.3  |
| 24      | J                   | 33         |              | 3.00-16 UN       | (3.06) 77.8 | (3.19) 81.0  |
| 25      | A                   | 11         | (3.50) 88.9  | 1.188-18 UNEF    | (1.25) 31.8 | (1.38) 35.1  |

\* Dimensions in (inches) mm

# M28840/28 90° ADAPTER ASSEMBLY PLUG

|                                          |                                                                                                                                                               |                                                                               |        |                  |                                          |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/28                                | C                                                                                                                                                             | G                                                                             | 1      | B                | A                                        | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                             | SHELL SIZE                                                                    | INSERT | BACKSHELL SIZE   | BACKSHELL STYLE                          | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/28<br>Commercial: IN28840/28 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel, Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc, Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | A<br>B<br>C<br>D | A: EMI Environmental<br>B: Environmental | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

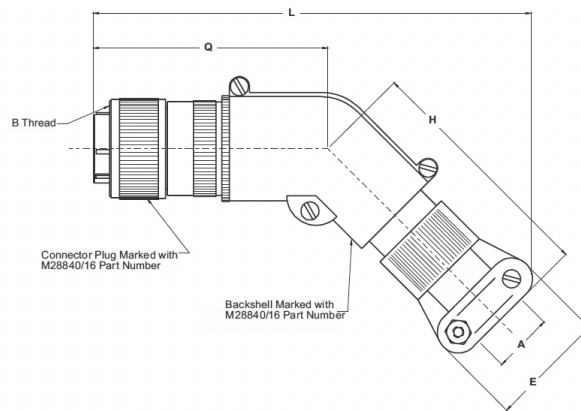


| TABLE A             |            |                      |               |               |                   |               |                |                |               |
|---------------------|------------|----------------------|---------------|---------------|-------------------|---------------|----------------|----------------|---------------|
| Military Shell Size | Shell Size | Backshell Shell Size | A Cable Entry |               | B Thread Class 2B | E Max.        | H Max.         | L Max.         | Q Max.        |
|                     |            |                      | Max.          | Min.          |                   |               |                |                |               |
| A                   | 11         | A                    | (.312) 7.92   | (.188) 4.77   | .750-1P-.2L-DS    | (.938) 23.82  | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| A                   | 11         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 28.57 | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| A                   | 11         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| B                   | 13         | A                    | (.438) 11.25  | (.281) 7.13   | .875-1P-.2L-DS    | (1.125) 28.57 | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| B                   | 13         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 82.72 |
| B                   | 13         | C                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| C                   | 15         | A                    | (.438) 11.25  | (.281) 7.13   | 1.062-1P-.2L-DS   | (1.125) 28.57 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| C                   | 15         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| C                   | 15         | C                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 114.32 | (4.250) 107.95 | (3.500) 98.9  |
| D                   | 17         | A                    | (.750) 19.05  | (.438) 11.12  | 1.125-1P-.2L-DS   | (1.593) 40.46 | (5.713) 145.11 | (4.150) 104.77 | (3.500) 88.9  |
| D                   | 17         | B                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| D                   | 17         | C                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (5.713) 145.11 | (4.250) 107.95 | (3.500) 88.9  |
| E                   | 19         | A                    | (.625) 16.56  | (.375) 9.52   | 1.312-1P-.2L-DS   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| E                   | 19         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (5.832) 148.13 | (4.375) 111.12 | (3.625) 92.07 |
| E                   | 19         | C                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (5.713) 145.74 | (4.500) 114.3  | (3.625) 92.07 |
| F                   | 23         | A                    | (.938) 23.82  | (.625) 15.87  | 1.500-1P-.2L-DS   | (1.750) 44.45 | (5.832) 148.13 | (4.500) 114.3  | (3.625) 92.07 |
| F                   | 23         | B                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.16 | (6.019) 152.88 | (4.688) 119.07 | (3.625) 92.07 |
| F                   | 23         | C                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (5.832) 148.13 | (4.500) 114.3  | (3.625) 92.07 |
| G                   | 25         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.625-1P-.2L-DS   | (2.093) 53.16 | (6.019) 152.88 | (4.688) 119.07 | (3.625) 92.07 |
| G                   | 25         | B                    | (1.250) 31.75 | (.875) 22.22  |                   | (2.093) 53.16 | (6.144) 156.05 | (4.688) 119.07 | (3.750) 95.25 |
| G                   | 25         | C                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.176) 156.87 | (4.938) 125.42 | (3.750) 95.25 |
| H                   | 29         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.812-1P-.2L-DS   | (2.093) 53.16 | (6.144) 156.05 | (4.812) 122.22 | (3.750) 95.25 |
| H                   | 29         | B                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.176) 156.87 | (4.938) 125.42 | (3.750) 95.25 |
| H                   | 29         | C                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.426) 163.22 | (5.188) 131.77 | (4.000) 101.6 |
| J                   | 33         | A                    | (1.625) 41.27 | (1.250) 31.75 | 2.000-1P-.2L-DS   | (2.750) 69.85 | (6.701) 170.20 | (5.375) 136.52 | (4.000) 101.6 |
| J                   | 33         | B                    | (1.625) 41.27 | (1.250) 31.75 |                   | (2.750) 69.85 | (6.701) 170.20 | (5.375) 136.52 | (4.000) 101.6 |

\* Dimensions in (inches) mm

# M28840/29 PLUG CONNECTOR WITH 45° EMI/RFI BACKSHELL

|                                          |                                                                                                                                                               |                                                                               |        |                  |                                          |                                                                                                                             |                            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|
| M28840/29                                | C                                                                                                                                                             | G                                                                             | 1      | b                | A                                        | P                                                                                                                           | 1                          |
| DESIGNATION                              | MATERIAL & FINISH                                                                                                                                             | SHELL SIZE                                                                    | INSERT | BACKSHELL SIZE   | BACKSHELL STYLE                          | CONTACT                                                                                                                     | KEY POSITION               |
| QPL: M28840/29<br>Commercial: IN28840/29 | C: Class DJ: Aluminum Cadmium Plate<br>U: Class ZJ Aluminum -Zinc Nickel, Non-Reflective<br>M: Class TJ; Aluminum Tin Zinc, Non- Reflective (Commercial only) | A: 11<br>B: 13<br>C: 15<br>D: 17<br>E: 19<br>F: 23<br>G: 25<br>H: 29<br>J: 33 | 1      | A<br>B<br>C<br>D | A: EMI Environmental<br>B: Environmental | F: Pin, Size 20<br>G: Socket, Size 20<br>P: Pin, Size, 22<br>S: Socket, Size, 22<br>D: Pin, Size, 28<br>E: Socket, Size, 28 | 1<br>2<br>3<br>4<br>5<br>6 |

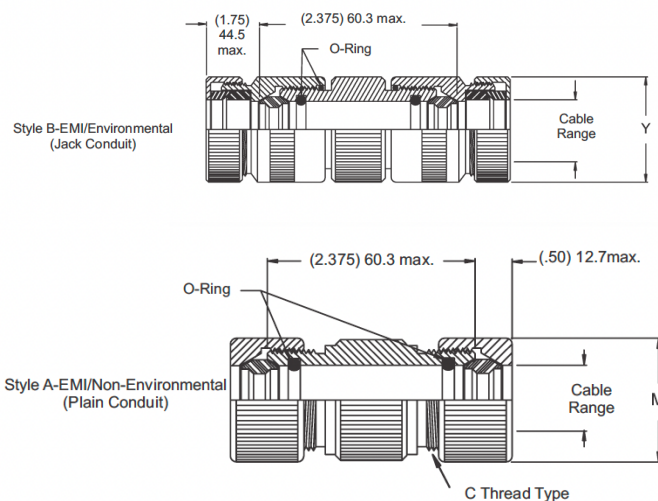


| TABLE A             |            |                      |               |               |                   |               |                |                |               |
|---------------------|------------|----------------------|---------------|---------------|-------------------|---------------|----------------|----------------|---------------|
| Military Shell Size | Shell Size | Backshell Shell Size | A Cable Entry |               | B Thread Class 2B | E Max.        | H Max.         | L Max.         | Q Max.        |
|                     |            |                      | Max.          | Min.          |                   |               |                |                |               |
| A                   | 11         | A                    | (.312) 7.92   | (.188) 4.77   | .750-1P-.2L-DS    | (.938) 23.82  | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| A                   | 11         | B                    | (.438) 11.12  | (.281) 7.13   |                   | (1.125) 28.57 | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| A                   | 11         | C                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| B                   | 13         | A                    | (.438) 11.25  | (.281) 7.13   | .875-1P-.2L-DS    | (1.125) 28.57 | (5.332) 135.43 | (3.812) 96.82  | (3.250) 82.55 |
| B                   | 13         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 82.72 |
| B                   | 13         | C                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| C                   | 15         | A                    | (.438) 11.25  | (.281) 7.13   | 1.062-1P-.2L-DS   | (1.125) 28.57 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| C                   | 15         | B                    | (.562) 14.27  | (.344) 8.73   |                   | (1.312) 33.32 | (5.457) 138.60 | (4.000) 101.6  | (3.375) 85.72 |
| C                   | 15         | C                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 114.32 | (4.250) 107.95 | (3.500) 98.9  |
| D                   | 17         | A                    | (.750) 19.05  | (.438) 11.12  | 1.125-1P-.2L-DS   | (1.593) 40.46 | (5.713) 145.11 | (4.150) 104.77 | (3.500) 88.9  |
| D                   | 17         | B                    | (.625) 16.56  | (.375) 9.52   |                   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| D                   | 17         | C                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (5.713) 145.11 | (4.250) 107.95 | (3.500) 88.9  |
| E                   | 19         | A                    | (.625) 16.56  | (.375) 9.52   | 1.312-1P-.2L-DS   | (1.312) 33.32 | (5.682) 144.32 | (4.250) 107.95 | (3.500) 88.9  |
| E                   | 19         | B                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (5.832) 148.13 | (4.375) 111.12 | (3.625) 92.07 |
| E                   | 19         | C                    | (.750) 19.05  | (.438) 11.12  |                   | (1.593) 40.46 | (5.713) 145.74 | (4.500) 114.3  | (3.625) 92.07 |
| F                   | 23         | A                    | (.938) 23.82  | (.625) 15.87  | 1.500-1P-.2L-DS   | (1.750) 44.45 | (5.832) 148.13 | (4.500) 114.3  | (3.625) 92.07 |
| F                   | 23         | B                    | (1.188) 30.17 | (.812) 20.62  |                   | (2.093) 53.16 | (6.019) 152.88 | (4.688) 119.07 | (3.625) 92.07 |
| F                   | 23         | C                    | (.938) 23.82  | (.625) 15.87  |                   | (1.750) 44.45 | (5.832) 148.13 | (4.500) 114.3  | (3.625) 92.07 |
| G                   | 25         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.625-1P-.2L-DS   | (2.093) 53.16 | (6.019) 152.88 | (4.688) 119.07 | (3.625) 92.07 |
| G                   | 25         | B                    | (1.250) 31.75 | (.875) 22.22  |                   | (2.093) 53.16 | (6.144) 156.05 | (4.688) 119.07 | (3.750) 95.25 |
| G                   | 25         | C                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.176) 156.87 | (4.938) 125.42 | (3.750) 95.25 |
| H                   | 29         | A                    | (1.188) 30.17 | (.812) 20.62  | 1.812-1P-.2L-DS   | (2.093) 53.16 | (6.144) 156.05 | (4.812) 122.22 | (3.750) 95.25 |
| H                   | 29         | B                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.176) 156.87 | (4.938) 125.42 | (3.750) 95.25 |
| H                   | 29         | C                    | (1.380) 35.05 | (1.000) 25.4  |                   | (2.343) 59.51 | (6.426) 163.22 | (5.188) 131.77 | (4.000) 101.6 |
| J                   | 33         | A                    | (1.625) 41.27 | (1.250) 31.75 | 2.000-1P-.2L-DS   | (2.750) 69.85 | (6.701) 170.20 | (5.375) 136.52 | (4.000) 101.6 |
| J                   | 33         | B                    | (1.625) 41.27 | (1.250) 31.75 |                   | (2.750) 69.85 | (6.701) 170.20 | (5.375) 136.52 | (4.000) 101.6 |

\* Dimensions in (inches) mm

# M28840/30 METAL CONDUIT COUPLER STYLES A & B

|                                          |             |                                                          |                                               |
|------------------------------------------|-------------|----------------------------------------------------------|-----------------------------------------------|
| M28840/30                                | 16          | W                                                        | A                                             |
| DESIGNATION                              | DASH #      | MATERIAL & FINISH                                        | BACKSHELL STYLE                               |
| QPL: M28840/30<br>Commercial: IN28840/30 | See Table A | W: Aluminum, Cadmium Plate, O.D. over Electroless Nickel | A: EMI, Non-Environmental<br>B: Environmental |



| ABLE A |              |               |             |               |             |                  |              |
|--------|--------------|---------------|-------------|---------------|-------------|------------------|--------------|
| DASH # | Conduit Size | Sealing Range |             | C Thread      | M Ø Max.    | V Thread Class 2 | Y Ø Max.     |
|        |              | Min.          | Max.        |               |             |                  |              |
| 03     | 03           | (.50) 12.7    | (.63) 16.0  | .875-20 UNEF  | (1.12) 28.5 | .100-20UNEF      | (1.19) 30.23 |
| 04     | 04           | (.63) 16.0    | (.75) 19.1  | 1.000-20 UNEF | (1.25) 31.8 | 1.188-18 UNEF    | (1.38) 35.1  |
| 05     | 05           | (.75) 18.1    | (.88) 22.4  | 1.125-18 UNEF | (1.43) 36.3 | 1.438-18 UNEF    | (1.63) 41.4  |
| 06     | 06           | (.88) 22.4    | (1.00) 25.4 | 1.250-18 UNEF | (1.62) 41.2 | 1.750-18 UNS     | (1.94) 49.3  |
| 08     | 08           | (1.19) 30.2   | (1.38) 35.1 | 1.625-18 UNEF | (1.81) 46.0 | 2.00-18 UNS      | (2.19) 55.6  |
| 10     | 10           | (1.44) 36.6   | (1.63) 41.4 | 1.875-18 UNS  | (2.18) 55.4 | 2.250-16 UN      | (2.44) 62.0  |
| 12     | 12           | (1.63) 41.4   | (1.88) 47.8 | 2.125-16 UN   | (2.56) 65.0 | 2.50-16 UN       | (2.69) 68.3  |
| 16     | 16           | (2.13) 54.1   | (2.38) 60.5 | 2.750-16 UN   | (3.06) 77.8 | 3.00-16 UN       | (3.19) 81.0  |

\* Dimensions in (inches) mm