

## 231-106 Connector with crimp-removable socket contacts

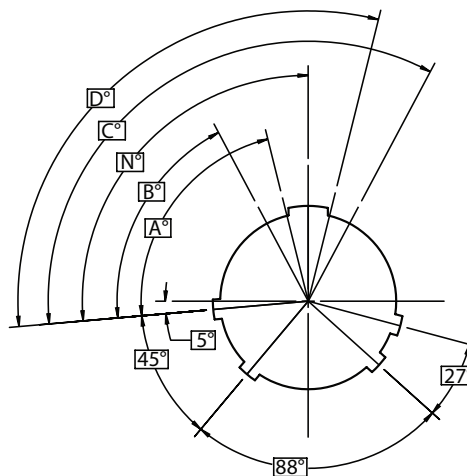
## GLASS-SEALED HERMETIC CONNECTORS

**CONNECTOR FEATURES**

- Bayonet coupling for rapid mating
- Scoop proof technology
- MIL-STD-1560 insert arrangements
- Same EMI performance as D38999 Series III
- Quick turn, positive lock, full mate indicator
- 500 cycles per D38999
- Enhanced finishes like Passivated stainless steel and Electrodeposited Nickel over stainless steel
- Available in Jam-nut, solder and box mount
- Meets  $1 \times 10^{-7}$  cc/sec He leak requirement
- Hi-reliability stainless steel bayonets utilized

**HOW TO ORDER**

|                               |                                                                                 |           |           |           |            |          |          |
|-------------------------------|---------------------------------------------------------------------------------|-----------|-----------|-----------|------------|----------|----------|
| <b>Sample Part Number</b>     | <b>231-106</b>                                                                  | <b>H7</b> | <b>Z1</b> | <b>11</b> | <b>-35</b> | <b>S</b> | <b>N</b> |
| <b>Basic Part Number</b>      | <b>231-106</b>                                                                  |           |           |           |            |          |          |
| <b>Shell Style</b>            | <b>H7</b> = Jam-nut Mount<br><b>Z1</b> = Wall-mount<br><b>H0</b> = Solder-mount |           |           |           |            |          |          |
| <b>Finish</b>                 | <b>Z1</b> = Passivated<br><b>ZL</b> = Electrodeposited Nickel                   |           |           |           |            |          |          |
| <b>Shell Size</b>             | <b>09, 11, 13, 15, 17, 19, 21, 23, 25</b>                                       |           |           |           |            |          |          |
| <b>Insert Arrangement</b>     | Per MIL-STD-1560; <b>See Pages C-2 - C-4</b>                                    |           |           |           |            |          |          |
| <b>Contact Style</b>          | <b>P</b> = Pin Face <b>S</b> = Socket Face                                      |           |           |           |            |          |          |
| <b>Alternate Key Position</b> | <b>A, B, C, D</b> ( <b>N</b> = Normal)                                          |           |           |           |            |          |          |

**TABLE II - MASTER KEYWAY POLARIZATION POSITION**

| Shell Size | Normal | A  | B  | C   | D   |
|------------|--------|----|----|-----|-----|
| 9          | 95     | 77 | -  | -   | 113 |
| 11         | 95     | 81 | 67 | 123 | 109 |
| 13         | 95     | 75 | 63 | 127 | 115 |
| 15         | 95     | 74 | 61 | 129 | 116 |
| 17         | 95     | 77 | 65 | 125 | 113 |
| 19         | 95     | 77 | 65 | 125 | 113 |
| 21         | 95     | 77 | 65 | 125 | 113 |
| 23         | 95     | 80 | 69 | 121 | 110 |
| 25         | 95     | 80 | 69 | 121 | 110 |

**TABLE III - DWV VOLTAGE LEVELS @ SEA LEVEL**

| Service Rating | Voltage AC RMS 60 Hz |
|----------------|----------------------|
| M              | 1300 VAC             |
| I              | 1800 VAC             |
| II             | 2300 VAC             |
| N              | 1000 VAC             |

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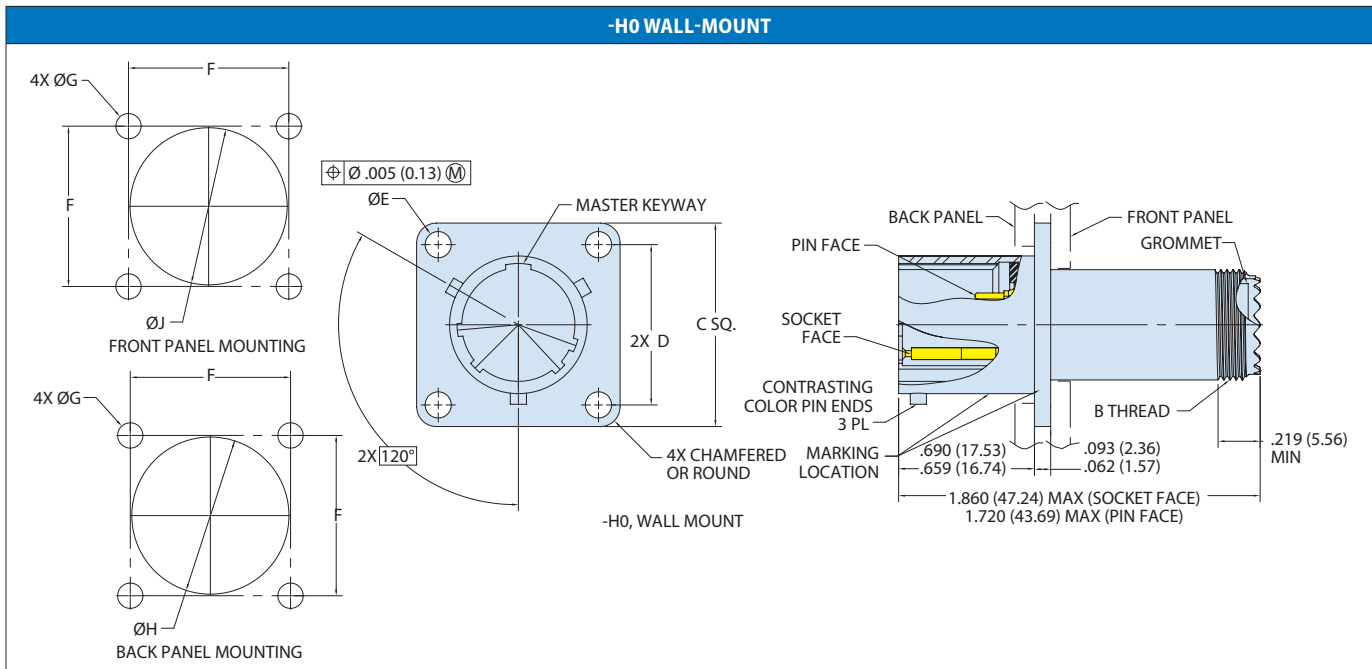
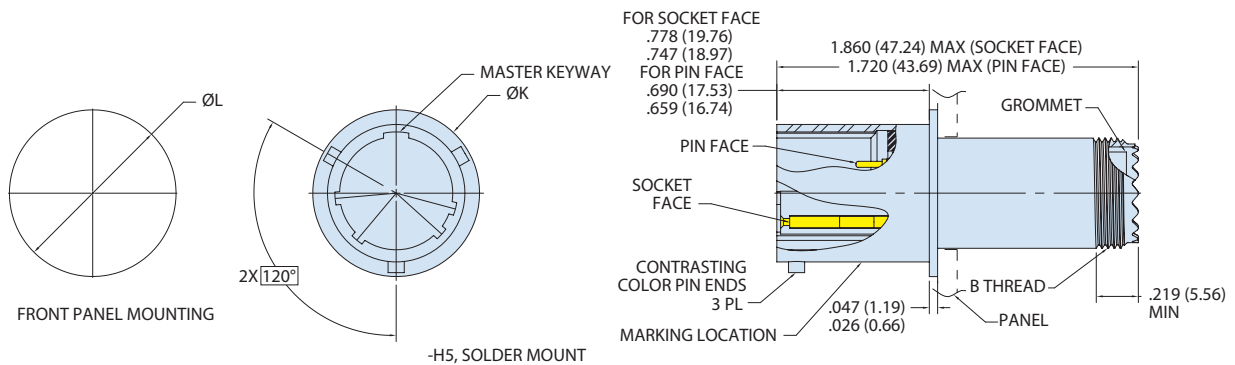


TABLE I: CONNECTOR DIMENSIONS

| Shell Size | A Threads     | B Threads      | C                                    | D Bsc            | E                                  | F                                    | G                                  | H Min            | J Min            | K                                    | L                                    | M                                    | N                                    | P Flat                               | R                                  | T                                    | U                                    |
|------------|---------------|----------------|--------------------------------------|------------------|------------------------------------|--------------------------------------|------------------------------------|------------------|------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| 9          | .6875-24 UNEF | .4375-28 UNEF  | .954<br>(24.23)<br>.922<br>(23.42)   | 0.719<br>(18.26) | .133 (3.38)<br>.123 (3.12)         | .724<br>(18.39)<br>.714<br>(18.14)   | .133 (3.38)<br>.123 (3.12)         | 0.656<br>(16.66) | 0.447<br>(11.35) | .766<br>(19.46)<br>.734<br>(18.64)   | .449<br>(11.40)<br>.439<br>(11.15)   | 1.078<br>(27.38)<br>1.046<br>(26.57) | 1.204<br>(30.58)<br>1.172<br>(29.77) | .655<br>(16.64)<br>.645<br>(16.38)   | .125<br>(3.18)<br>.093<br>(2.36)   | .661<br>(16.79)<br>.655<br>(16.64)   | .703<br>(17.86)<br>.693<br>(17.60)   |
| 11         | .8125-20 UNEF | .5625-24 UNEF  | 1.047<br>(26.59)<br>1.015<br>(25.78) | 0.812<br>(20.62) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 0.817<br>(20.75)<br>0.807<br>(20.50) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 0.796<br>(20.22) | 0.572<br>(14.53) | 0.860<br>(21.84)<br>0.828<br>(21.03) | 0.574<br>(14.58)<br>0.564<br>(14.33) | 1.266<br>(32.16)<br>1.234<br>(31.34) | 1.391<br>(35.33)<br>1.359<br>(34.52) | 0.755<br>(19.18)<br>0.745<br>(18.92) | 0.125<br>(3.18)<br>0.093<br>(2.36) | 0.769<br>(19.53)<br>0.761<br>(19.33) | 0.835<br>(21.21)<br>0.825<br>(20.96) |
| 13         | 1.000-20 UNEF | .6875-24 UNEF  | 1.141<br>(28.98)<br>1.109<br>(28.17) | 0.906<br>(23.01) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 0.911<br>(23.14)<br>0.901<br>(22.89) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 0.921<br>(23.39) | 0.697<br>(17.70) | 0.985<br>(25.02)<br>0.953<br>(24.21) | 0.699<br>(17.75)<br>0.689<br>(17.50) | 1.391<br>(35.33)<br>1.359<br>(34.52) | 1.516<br>(38.51)<br>1.484<br>(37.69) | 0.942<br>(23.93)<br>0.932<br>(23.67) | 0.125<br>(3.18)<br>0.093<br>(2.36) | 0.953<br>(24.21)<br>0.945<br>(24.00) | 1.020<br>(25.91)<br>1.010<br>(25.65) |
| 15         | 1.125-18 UNEF | .8125-20 UNEF  | 1.235<br>(31.37)<br>1.203<br>(30.56) | 0.969<br>(24.61) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 0.973<br>(24.71)<br>0.963<br>(24.46) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.047<br>(26.59) | 0.822<br>(20.88) | 1.110<br>(28.19)<br>1.078<br>(27.38) | 0.824<br>(20.93)<br>0.814<br>(20.68) | 1.516<br>(38.51)<br>1.484<br>(37.69) | 1.641<br>(41.68)<br>1.609<br>(40.87) | 1.066<br>(27.08)<br>1.056<br>(26.82) | 0.125<br>(3.18)<br>0.093<br>(2.36) | 1.083<br>(27.51)<br>1.075<br>(27.31) | 1.145<br>(29.08)<br>1.135<br>(28.83) |
| 17         | 1.250-18 UNEF | .9375-20 UNEF  | 1.328<br>(33.73)<br>1.296<br>(32.92) | 1.062<br>(26.97) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.067<br>(27.10)<br>1.057<br>(26.85) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.218<br>(30.94) | 0.947<br>(24.05) | 1.234<br>(31.34)<br>1.202<br>(30.53) | 0.949<br>(24.10)<br>0.939<br>(23.85) | 1.641<br>(41.68)<br>1.609<br>(40.87) | 1.766<br>(44.86)<br>1.734<br>(44.04) | 1.191<br>(30.25)<br>1.181<br>(30.00) | 0.125<br>(3.18)<br>0.093<br>(2.36) | 1.208<br>(30.68)<br>1.200<br>(30.48) | 1.270<br>(32.26)<br>1.260<br>(32.00) |
| 19         | 1.375-18 UNEF | 1.0625-18 UNEF | 1.454<br>(36.93)<br>1.422<br>(36.12) | 1.156<br>(29.36) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.161<br>(29.49)<br>1.151<br>(29.24) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.296<br>(32.92) | 1.072<br>(27.23) | 1.328<br>(33.73)<br>1.296<br>(32.92) | 1.074<br>(27.28)<br>1.064<br>(27.03) | 1.828<br>(46.43)<br>1.796<br>(45.62) | 1.954<br>(49.63)<br>1.922<br>(48.82) | 1.316<br>(33.43)<br>1.306<br>(33.17) | 0.156<br>(3.96)<br>0.124<br>(3.15) | 1.333<br>(33.86)<br>1.325<br>(33.66) | 1.395<br>(35.43)<br>1.385<br>(35.18) |
| 21         | 1.500-18 UNEF | 1.1875-18 UNEF | 1.578<br>(40.08)<br>1.546<br>(39.27) | 1.250<br>(31.75) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.255<br>(31.88)<br>1.245<br>(31.62) | 0.133<br>(3.38)<br>0.123<br>(3.12) | 1.421<br>(36.09) | 1.197<br>(30.40) | 1.454<br>(36.93)<br>1.422<br>(36.12) | 1.199<br>(30.45)<br>1.189<br>(30.20) | 1.954<br>(49.63)<br>1.922<br>(48.82) | 2.078<br>(52.78)<br>2.046<br>(51.97) | 1.441<br>(36.60)<br>1.431<br>(36.35) | 0.156<br>(3.96)<br>0.124<br>(3.15) | 1.458<br>(37.03)<br>1.450<br>(36.83) | 1.520<br>(38.61)<br>1.510<br>(38.35) |
| 23         | 1.625-18 UNEF | 1.3125-18 UNEF | 1.704<br>(43.28)<br>1.672<br>(42.47) | 1.375<br>(34.93) | .157<br>(3.99)<br>.142<br>(3.61)   | 1.380<br>(35.05)<br>1.370<br>(34.80) | .159<br>(4.04)<br>.149<br>(3.78)   | 1.546<br>(39.27) | 1.322<br>(33.58) | 1.579<br>(40.11)<br>1.547<br>(39.29) | 1.324<br>(33.63)<br>1.314<br>(33.38) | 2.078<br>(52.78)<br>2.046<br>(51.97) | 2.204<br>(55.98)<br>2.172<br>(55.17) | 1.566<br>(39.78)<br>1.556<br>(39.52) | .156<br>(3.96)<br>.124<br>(3.15)   | 1.583<br>(40.21)<br>1.575<br>(40.01) | 1.645<br>(41.78)<br>1.635<br>(41.53) |
| 25         | 1.750-18 UNS  | 1.4375-18 UNEF | 1.828<br>(46.43)<br>1.796<br>(45.62) | 1.500<br>(38.10) | .157<br>(3.99)<br>.142<br>(3.61)   | 1.505<br>(38.23)<br>1.495<br>(37.97) | .159<br>(4.04)<br>.149<br>(3.78)   | 1.672<br>(42.47) | 1.447<br>(36.75) | 1.704<br>(43.28)<br>1.672<br>(42.47) | 1.449<br>(36.80)<br>1.439<br>(36.55) | 2.204<br>(55.98)<br>2.172<br>(55.17) | 2.328<br>(59.13)<br>2.296<br>(58.32) | 1.691<br>(42.95)<br>1.681<br>(42.70) | .156<br>(3.96)<br>.124<br>(3.15)   | 1.708<br>(43.38)<br>1.700<br>(43.18) | 1.770<br>(44.96)<br>1.760<br>(44.70) |

## 231-106 Connector with crimp-removable socket contacts

**-H5 SOLDER-MOUNT****-H7 JAM-NUT MOUNT**