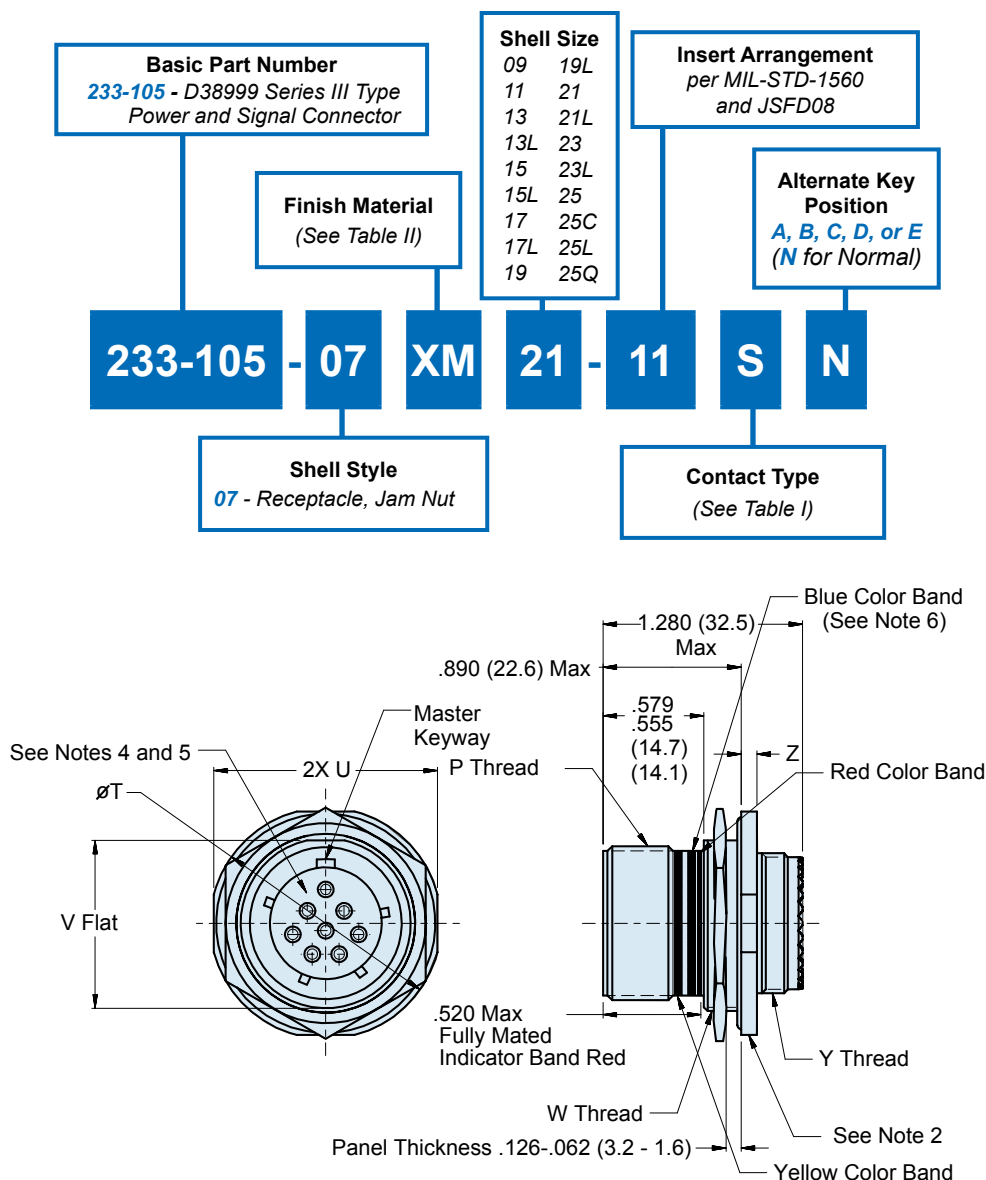


## 233-105-07 MIL-DTL-38999 Series III Type Jam Nut Environmental Receptacle Connector



Consult factory for available insert arrangements.

### F

#### APPLICATION NOTES

1. Material/ Finishes:  
Shells, Jam Nut - See Table II  
(Composite Jam Nut No Plating Required).  
Insulators- High Grade Rigid Dielectric/ N.A  
Seals- Fluorosilicone/ N.A.
2. Assembly to be identified with Glenair's name, part number and date code space permitting.
3. Modified major diameter 1.252-1.257 (31.80-31.95).
4. Insert arrangement in accordance with MIL-STD-1560.
5. Insert arrangement shown is for reference only.
6. Blue Color Band indicates rear release retention system.
7. 16# AWG contact arrangements only. See available arrangements opposite page.
8. Metric dimensions (mm) are in parentheses.

**233-105-07**  
**MIL-DTL-38999 Series III Type**  
**Jam Nut Environmental Receptacle Connector**

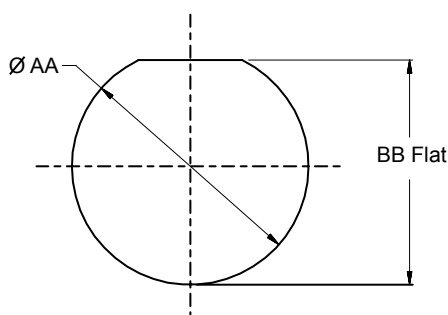


**TABLE I: CONTACT TYPES**

| Ordering Code | Assembly Dash Number | Wire Size | Type   | Military Part Number |
|---------------|----------------------|-----------|--------|----------------------|
| P             | 850-002-16-364       | #16 – #20 | Pin    | M39029/58-364        |
| S             | 850-001-16-352       | #16 – #20 | Socket | M39029/56-352        |
| A             | Less pin contacts    |           |        |                      |
| B             | Less socket contacts |           |        |                      |

**TABLE IV: PANEL CUTOUT**

| Shell Size Code | Shell Size | AA Dia                       | BB Flat                      |
|-----------------|------------|------------------------------|------------------------------|
| A               | 09         | .710 (18.0)<br>.700 (17.8)   | .670 (17.0)<br>.660 (16.8)   |
| B               | 11         | .835 (21.2)<br>.825 (21.0)   | .771 (19.6)<br>.761 (19.3)   |
| C               | 13         | 1.020 (25.9)<br>1.010 (25.7) | .955 (24.3)<br>.945 (24.0)   |
| D               | 15         | 1.145 (29.1)<br>1.135 (28.8) | 1.085 (27.6)<br>1.075 (27.3) |
| E               | 17         | 1.270 (32.3)<br>1.260 (32.0) | 1.210 (30.7)<br>1.200 (30.5) |
| F               | 19         | 1.395 (35.4)<br>1.385 (35.2) | 1.335 (33.9)<br>1.325 (33.7) |
| G               | 21         | 1.520 (38.6)<br>1.510 (38.4) | 1.460 (37.1)<br>1.450 (36.8) |
| H               | 23         | 1.645 (41.8)<br>1.635 (41.5) | 1.585 (40.3)<br>1.575 (40.0) |
| J               | 25         | 1.770 (45.0)<br>1.760 (44.7) | 1.710 (43.4)<br>1.700 (43.2) |



**Recommended Cut-Out**

**TABLE II: FINISH**

| SYM        | MATERIAL  | FINISH                               |
|------------|-----------|--------------------------------------|
| <b>XM</b>  | Composite | Electroless Nickel                   |
| <b>XMT</b> | Composite | Ni-PTFE 1000 Hour Grey™              |
| <b>XW</b>  | Composite | Cadmium O.D. Over Electroless Nickel |

\*Consult Factory for Additional Plating Options

\*See Note 3

**TABLE III: SHELL SIZE**

| Shell Size Code | Shell Size | P Thread             | T Dia                        | U                            | V                            | W Thread             | Y Thread            | Z                        |
|-----------------|------------|----------------------|------------------------------|------------------------------|------------------------------|----------------------|---------------------|--------------------------|
| A               | 09         | .6250-.1P-.3L-TS-2A  | 1.200 (30.5)<br>1.178 (29.9) | 1.078 (27.4)<br>1.048 (26.6) | .654 (16.6)<br>.645 (16.4)   | M17 x 1.0-6G 0.100R  | M12 x 1.0-6g 0.100R | .114 (2.9)<br>.083 (2.1) |
| B               | 11         | .7500-.1P-.3L-TS-2A  | 1.386 (35.2)<br>1.362 (34.6) | 1.268 (32.2)<br>1.236 (31.4) | .755 (19.2)<br>.745 (18.9)   | M20 x 1.0-6g 0.100R  | M15 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| C               | 13         | .8750-.1P-.3L-TS-2A  | 1.512 (38.4)<br>1.488 (37.8) | 1.390 (35.3)<br>1.358 (34.5) | .942 (23.9)<br>.932 (23.7)   | M25 x 1.0-6g 0.100R  | M18 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| D               | 15         | 1.0000-.1P-.3L-TS-2A | 1.638 (41.6)<br>1.614 (41.0) | 1.516 (38.5)<br>1.484 (37.7) | 1.066 (27.1)<br>1.056 (26.8) | M28 x 1.0-6g 0.100R  | M22 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| E               | 17         | 1.1875-.1P-.3L-TS-2A | 1.764 (44.8)<br>1.740 (44.2) | 1.642 (41.7)<br>1.610 (40.9) | 1.191 (30.3)<br>1.181 (30.0) | M32 x 1.0-6g 0.100R* | M25 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| F               | 19         | 1.2500-.1P-.3L-TS-2A | 1.949 (49.5)<br>1.925 (48.9) | 1.827 (46.4)<br>1.795 (45.6) | 1.316 (33.4)<br>1.306 (33.2) | M35 x 1.0-6g 0.100R  | M28 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| G               | 21         | 1.3750-.1P-.3L-TS-2A | 2.075 (52.7)<br>2.051 (52.1) | 1.953 (49.6)<br>1.921 (48.8) | 1.441 (36.6)<br>1.431 (36.3) | M38 x 1.0-6g 0.100R  | M31 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| H               | 23         | 1.5000-.1P-.3L-TS-2A | 2.201 (55.9)<br>2.177 (55.3) | 2.079 (52.8)<br>2.047 (52.0) | 1.566 (39.8)<br>1.556 (39.5) | M41 x 1.0-6g 0.100R  | M34 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| J               | 25         | 1.6250-.1P-.3L-TS-2A | 2.323 (59.0)<br>2.299 (58.4) | 2.205 (56.0)<br>2.173 (55.2) | 1.691 (43.0)<br>1.681 (42.7) | M44 x 1.0-6g 0.100R  | M37 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |

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