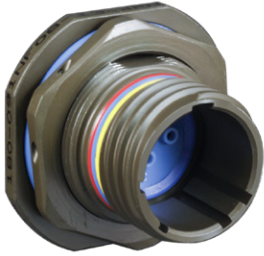


180-091 (08) Jam nut receptacle • Multi-channel

SuperNine® MIL-DTL-38999 Type



Tight-tolerance MIL-DTL-38999 Series III type Jam-Nut Receptacle. Compatible with Size 16 snap-in, rear-release MIL-PRF-29504 pin and socket termini (Glenair Series 181-001 and 181-002). Features support hybrid electrical/fiber contact applications. Precision-manufactured for optimum optical fiber alignment and low dB data loss performance. Robust anti-decoupling and environmental sealing for use in high vibration, shock, and high altitude aerospace and military/defense applications. Shell materials include Aluminum alloy, composite thermoplastic, stainless steel, and marine bronze. Keyed polarization for mis-mate protection. Available insert arrangements support from two to thirty-seven singlemode and multimode termini.

MATERIAL AND FINISH

- Jam Nut (for Composite): Al Alloy, plated same as shell
- Insulator: High Grade Rigid Dielectric
- Seals: Fluorosilicone
- Retention Clips: BeCu Alloy

NOTES

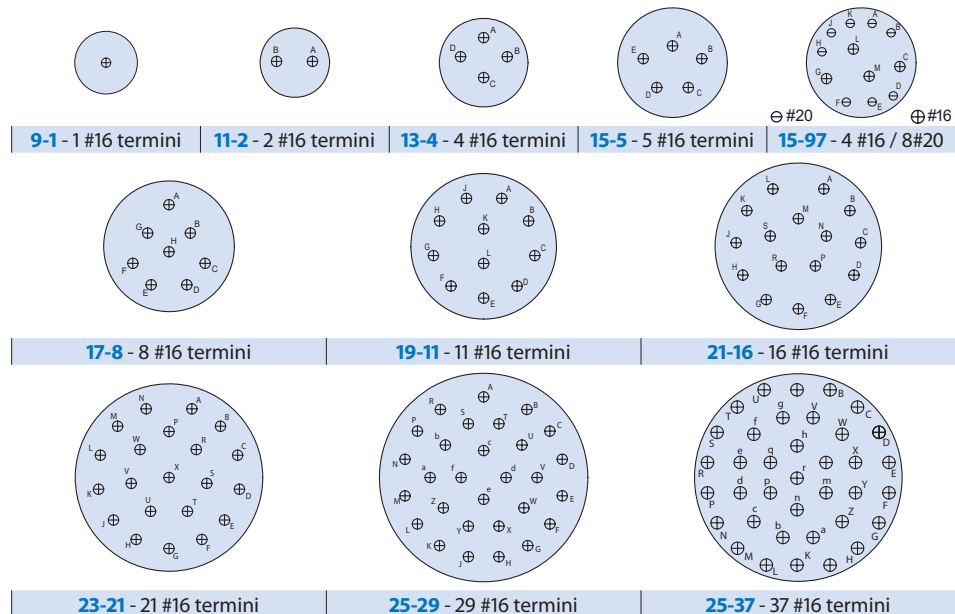
- Blue color band indicates rear-release retention system. Yellow color band indicates fiber optic connector. Bands located approximately as shown, sequencing optional.
- See pages B-4 to B-15 for compatible Glenair terminus part numbers.
- Recommended Insertion/Extraction tool: P/N M81969/14-03 or equivalent

| HOW TO ORDER | | | | | | | |
|-------------------------------|--|-----------|-----------|------------|-----------|----------|----------|
| Sample Part Number | 180-091 | XW | 08 | -17 | -8 | P | N |
| Basic Number | D38999 Series III Type | | | | | | |
| Material/Finish | See Material and Finish table | | | | | | |
| Connector Style | 08 = Jam Nut Receptacle | | | | | | |
| Shell Size | See Dimensions table | | | | | | |
| Insert Arrangement | See Contact Arrangements images | | | | | | |
| Insert Designation | P = Pin S = Socket | | | | | | |
| Alternate Key Position | A, B, C, D, E; N = Normal (Per MIL-DTL-38999) | | | | | | |

| MATERIAL AND FINISH | | |
|---------------------|---------------------|---------------------------|
| Code | Material | Finish Description |
| M* | Aluminum Alloy | Electroless Nickel |
| MA | | Electroless Nickel, Matte |
| ME | | Electroless Nickel |
| MT | | Nickel-PTFE, Gray |
| NF | | Cadmium, Olive Drab |
| TZ | | Tin-Zinc, Bronze-Gold |
| ZN | | Zinc-Nickel, Olive Drab |
| ZNU | | Zinc-Nickel, Black |
| ZR | | Zinc-Nickel, Black (RoHS) |
| XM | | Composite |
| XMT | Nickel - PTFE, Grey | |
| XW | Cadmium, Olive Drab | |
| XZN | Zinc-Nickel, Black | |
| MS | Stainless Steel | Electroless Nickel |
| ZL | | Electro-Deposited Nickel |
| ZI | | Passivate |
| AB | Marine Bronze | No Plating |

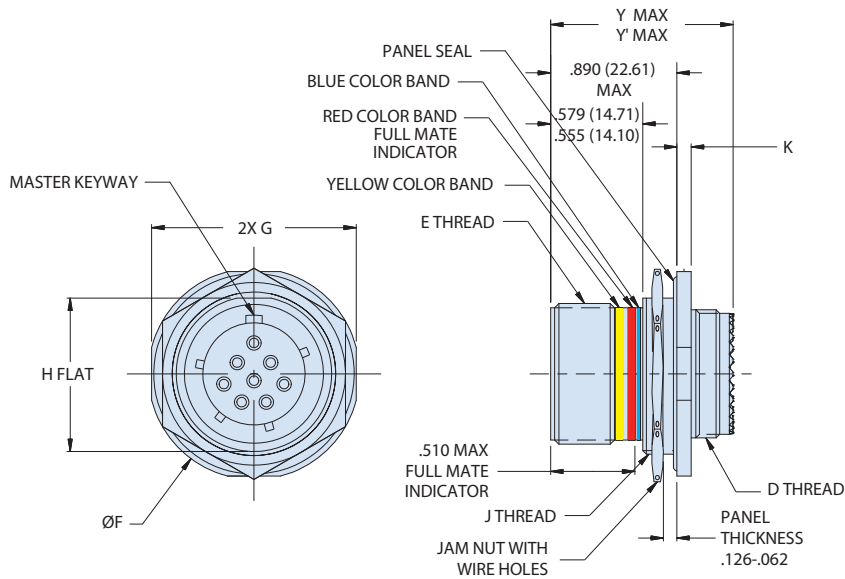
*Inactive for new design. Use "ME" finish.

INSERT ARRANGEMENTS (mating face, pin insert shown)



180-091 (08) Jam nut receptacle • Multi-channel

08 - JAM NUT MOUNT RECEPTACLE



| Shell Size Code | Shell Size | E Thread | Ø F | G | H | J Thread | D Thread | K | Y Max | Y' Max |
|-----------------|------------|----------------------|------------------------------|------------------------------|------------------------------|---------------------|---------------------|--------------------------|---------------|---------------|
| A | 9 | .6250-.1P-.3L-TS-2A | 1.200 (30.5) 1.777 (45.1) | 1.079 (27.4) 1.047 (26.6) | .655 (16.6) .645 (16.4) | M17 x 1.0-6g 0.100R | M12 x 1.0-6g 0.100R | .121 (3.1) .083 (2.1) | 1.280 (32.51) | 1.300 (33.02) |
| B | 11 | .7500-.1P-.3L-TS-2A | 1.386 (25.4) 1.362 (34.6) | 1.268 (32.2) 1.236 (31.4) | .755 (19.2) .745 (18.9) | M20 x 1.0-6g 0.100R | M15 x 1.0-6g 0.100R | | | |
| C | 13 | .8750-.1P-.3L-TS-2A | 1.512 (38.4) 1.488 (37.8) | 1.390 (35.3) 1.358 (34.5) | .942 (23.9) .932 (23.7) | M25 x 1.0-6g 0.100R | M18 x 1.0-6g 0.100R | | | |
| D | 15 | 1.0000-.1P-.3L-TS-2A | 1.638 (41.6) 1.614 (41.0) | 1.516 (38.5) 1.484 (37.7) | 1.066 (27.1) 1.056 (26.8) | M28 x 1.0-6g 0.100R | M22 x 1.0-6g 0.100R | | | |
| E | 17 | 1.1875-.1P-.3L-TS-2A | 1.764 (44.8) 1.740 (44.2) | 1.642 (41.7) 1.610 (40.9) | 1.191 (30.3) 1.181 (30.0) | M32 x 1.0-6g 0.100R | M25 x 1.0-6g 0.100R | .154 (3.9) .114 (2.9) | | |
| F | 19 | 1.2500-.1P-.3L-TS-2A | 1.949 (49.5) 1.925 (48.9) | 1.827 (46.4) 1.795 (45.6) | 1.316 (33.4) 1.306 (33.2) | M35 x 1.0-6g 0.100R | M28 x 1.0-6g 0.100R | | | |
| G | 21 | 1.3750-.1P-.3L-TS-2A | 2.075 (52.7) 2.051 (52.1) | 1.953 (49.6) 1.921 (48.8) | 1.441 (36.6) 1.431 (36.3) | M38 x 1.0-6g 0.100R | M31 x 1.0-6g 0.100R | | | |
| H | 23 | 1.5000-.1P-.3L-TS-2A | 2.201 (55.9) 2.177 (55.3) | 2.079 (52.8) 2.047 (52.0) | 1.566 (39.8) 1.556 (39.5) | M41 x 1.0-6g 0.100R | M34 x 1.0-6g 0.100R | | | |
| J | 25 | 1.6250-.1P-.3L-TS-2A | 2.323 (59.0) 2.299 (58.4) | 2.205 (56.0) 2.173 (55.2) | 1.691 (43.0) 1.681 (42.7) | M44 x 1.0-6g 0.100R | M37 x 1.0-6g 0.100R | | | |

| RECOMMENDED PANEL CUTOUT DIMENSIONS | | | | | |
|-------------------------------------|-----------|-----------------|------------|----------------------------|----------------------------|
| ØFF | GG FLAT | Shell Size Code | Shell Size | Jam Nut Mount | |
| | | | | Ø FF | GG Flat |
| A | 9 | | | .710 (18.0); .700 (17.8) | .670 (17.0); .660 (16.8) |
| B | 11 | | | .835 (21.2); .825 (21.0) | .771 (19.6); .761 (19.3) |
| C | 13 | | | 1.020 (25.9); 1.010 (25.7) | .955 (24.3); .945 (24.0) |
| D | 15 | | | 1.145 (29.1); 1.135 (28.8) | 1.085 (27.6); 1.075 (27.3) |
| E | 17 | | | 1.270 (32.3); 1.260 (32.0) | 1.210 (30.7); 1.200 (30.5) |
| F | 19 | | | 1.395 (35.4); 1.385 (35.2) | 1.335 (33.9); 1.325 (33.7) |
| G | 21 | | | 1.520 (38.6); 1.510 (38.4) | 1.460 (37.1); 1.450 (36.8) |
| H | 23 | | | 1.645 (41.8); 1.635 (41.5) | 1.585 (40.3); 1.575 (40.0) |
| J | 25 | | | 1.770 (45.0); 1.760 (44.7) | 1.710 (43.4); 1.700 (43.2) |

SuperNine® MIL-DTL-38999 Type