

# SUPERNINE MIL-DTL-38999 SERIES III TYPE ARINC 801 Optical Termini and Connectors



## 180-159 (08) Jam Nut Receptacle

ARINC 801



**Tight-tolerance MIL-DTL-38999 Series III type Jam Nut Receptacles.** Compatible with Size 16 snap-in, rear-release ARINC 801 genderless termini (Glenair series 181-076). Precision-machined insert ensures optimum optical fiber alignment and low dB data loss performance. Triple-start stub ACME threads for fast mating and robust anti-decoupling. The ARINC 801 fiber optic system leverages D38999 mechanical and environmental design elements including mating interface, accessory attachment interface, ratcheting coupling nut, polarization keyways, O-ring seals, panel cutouts, and more. Connector 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 32 singlemode and multimode termini.

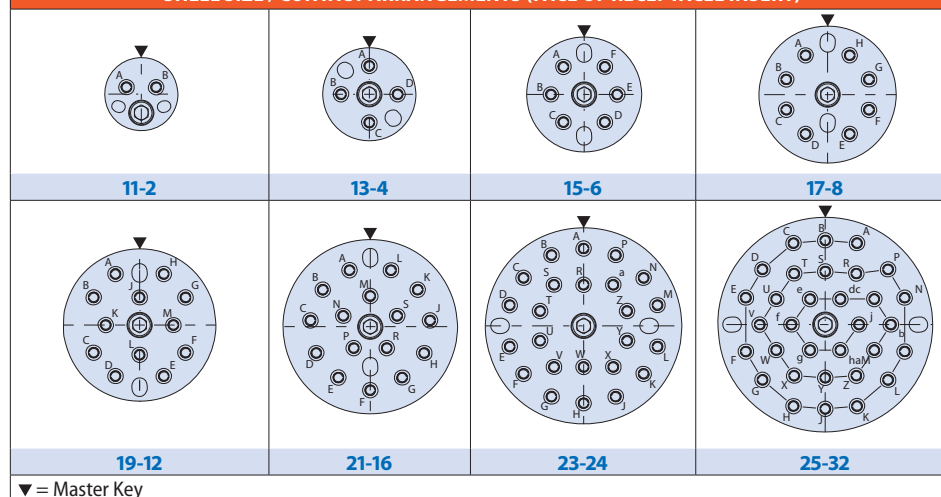
### MATERIAL/FINISH NOTES

- Jam nut for composite receptacle: Al Alloy / See table
- Inserts: Al Alloy / Anodize
- Inserts for composite connector: Composite or Al Alloy – MFR's Option
- Seals: Fluorosilicone
- Hardware: Stainless steel / passivate

### HOW TO ORDER

<b>Sample Part Number</b>	<b>180-159</b>	<b>NF</b>	<b>08</b>	<b>-17-8</b>	<b>N</b>
<b>Fiber Optic connector</b>	ARINC 801, MIL-DTL-38999 Series III Type				
<b>Material/Finish Code</b>	See Material and Finish table				
<b>Connector Style, Receptacles</b>	<b>08</b> = Jam Nut Receptacle				
<b>Shell Size - Insert Arrangement</b>	See Shell Size / Contact Arrangements table				
<b>Alternate Key Position</b>	per MIL-DTL-38999 Series III. <b>A, B, C, D, E, N</b> = Normal, omit for universal key				

### SHELL SIZE / CONTACT ARRANGEMENTS (FACE OF RECEPTACLE INSERT)



### MATERIAL AND FINISH

Code	Material	Finish Description
<b>ME</b>	Aluminum Alloy	Electroless Nickel
<b>MT</b>		Nickel-PTFE, Gray
<b>NF</b>		Cadmium, Olive Drab
<b>TZ</b>		Tin-Zinc, Bronze-Gold
<b>ZN</b>		Zinc-Nickel, Olive Drab
<b>ZR</b>	Zinc-Nickel, Black (RoHS)	
<b>XM</b>	Composite	Electroless Nickel
<b>XMT</b>		Nickel - PTFE, Grey
<b>XW</b>		Cadmium, Olive Drab
<b>XZN</b>		Zinc-Nickel, Black
<b>MS</b>	Stainless Steel	Electroless Nickel
<b>ZL</b>		Electro-Deposited Nickel
<b>ZI</b>		Passivate
<b>AB</b>	Marine Bronze	De-Grease / No Plating

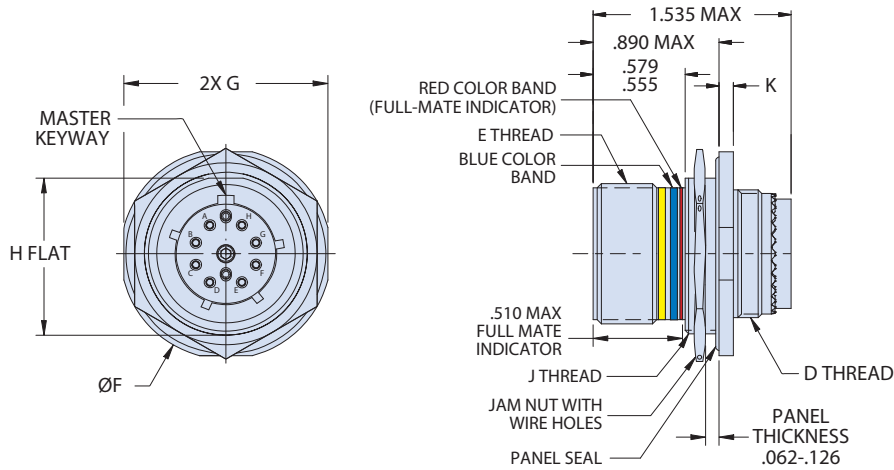
### NOTES

- Universal connectors are intended for use in testing facilities only and should be highly evaluated before consideration in another environment.
- Receptacle connector with universal key polarization contains all key way polarizations (A, B, C, D, E, N) which may have overlap in adjacent minor key ways.
- Plug connector with universal polarization contains master key only.
- Blue color band indicates rear release retention system.
- For dummy terminus, see Glenair 181-128.
- Insert/extraction tool: 809-131 (M81969/14-03).

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**JAM NUT MOUNT RECEPTACLE DIMENSIONS**



Shell Code	Shell Size	E Thread	Ø F	G	H	J Thread	D Thread	K
<b>B</b>	11	.7500-.1P-.3L-TS-2A	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	.755 (19.18) .745 (18.92)	M20 X 1.0-6g 0.100R	M15 X 1.0-6g 0.100R	.121 (3.07) .083 (2.11)
<b>C</b>	13	.8750-.1P-.3L-TS-2A	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	.942 (23.93) .932 (23.67)	M25 X 1.0-6g 0.100R	M18 X 1.0-6g 0.100R	
<b>D</b>	15	1.0000-.1P-.3L-TS-2A	1.638 (41.61) 1.614 (41.00)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	M28 X 1.0-6g 0.100R	M22 X 1.0-6g 0.100R	
<b>E</b>	17	1.1875-.1P-.3L-TS-2A	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 (30.25) 1.181 (30.00)	M32 X 1.0-6g 0.100R*	M25 X 1.0-6g 0.100R	.154 (3.91) .114 (2.90)
<b>F</b>	19	1.2500-.1P-.3L-TS-2A	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35 X 1.0-6g 0.100R	M28 X 1.0-6g 0.100R	
<b>G</b>	21	1.3750-.1P-.3L-TS-2A	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38 X 1.0-6g 0.100R	M31 X 1.0-6g 0.100R	
<b>H</b>	23	1.5000-.1P-.3L-TS-2A	2.201 (55.91) 2.177 (55.30)	2.079 (52.81) 2.047 (51.99)	1.566 (39.78) 1.556 (39.52)	M41 X 1.0-6g 0.100R	M34 X 1.0-6g 0.100R	
<b>J</b>	25	1.6250-.1P-.3L-TS-2A	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44 X 1.0-6g 0.100R	M37 X 1.0-6g 0.100R	

\* Modified major diameter 1.252 - 1.257

**JAM NUT PANEL CUT-OUT**

Shell Code	Shell Size	Ø FF	GG Flat
<b>B</b>	11	0.835 (21.21)	0.771 (19.58)
		0.825 (20.96)	0.761 (19.33)
<b>C</b>	13	1.020 (25.91)	0.955 (24.26)
		1.010 (25.65)	0.945 (24.00)
<b>D</b>	15	1.145 (29.08)	1.085 (27.56)
		1.135 (28.83)	1.075 (27.30)
<b>E</b>	17	1.270 (32.26)	1.210 (30.73)
		1.260 (32.00)	1.200 (30.48)
<b>F</b>	19	1.395 (35.43)	1.335 (33.91)
		1.385 (35.18)	1.325 (33.65)
<b>G</b>	21	1.520 (38.61)	1.460 (37.08)
		1.510 (38.35)	1.450 (36.83)
<b>H</b>	23	1.645 (41.78)	1.585 (40.26)
		1.635 (41.53)	1.575 (40.00)
<b>J</b>	25	1.770 (44.96)	1.710 (43.43)
		1.760 (44.70)	1.700 (43.18)

