



Features

- Triple-start stub ACME mating thread
- High density #20HD and #22HD arrangements for reduced size and weight
- Aerospace-grade materials, construction
- Snap-in crimp contacts

Specifications

- Operating temperature:
Finishes ME, MT, Z1: -65°C to +200°C
Finishes NF, ZR: -65°C to +175°C
- Wire sizes:
#20HD contacts: 20–24 AWG
#22HD contacts: 22–28 AWG
- Dielectric withstanding voltage
#20HD layouts: 1800 Vac
#22HD layouts: 1300 Vac
- Current rating
#20HD contacts 7.5 A
#22HD contacts 5 A
- Mating durability: 500 cycles
- Mechanical shock: EIA-364-27, 300g.
- Vibration (sine): MIL-DTL-38999M, 60g.
- Vibration (random) EIA-364-28 Condition VI, Letter J, 43.92 Grms, +200°C
- High Impact shock: MIL-S-901 Grade A
- Humidity: EIA-364-31 Method 4
- Salt spray (dynamic): EIA-364-26, 500 hours (96 hours for nickel-plated versions)
- Altitude immersion: EIA-364-03 75,000 feet altitude

Connector Construction

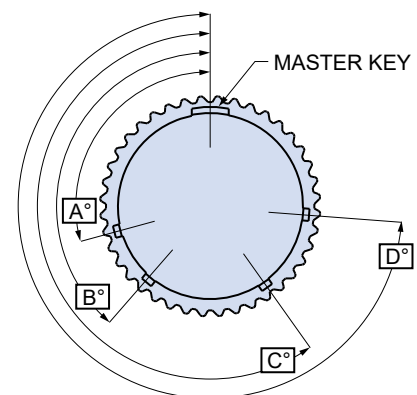
- Shell and coupling nut: aluminum or stainless steel
- Contacts: copper alloy, gold plating
- Wire grommet: fluorosilicone
- Dielectric inserts: high grade rigid dielectric
- Ground spring: copper alloy, nickel plating
- Contact retention clips: copper alloy
- Ratchet springs: stainless steel, passivated
- Retainer rings: stainless steel, passivated

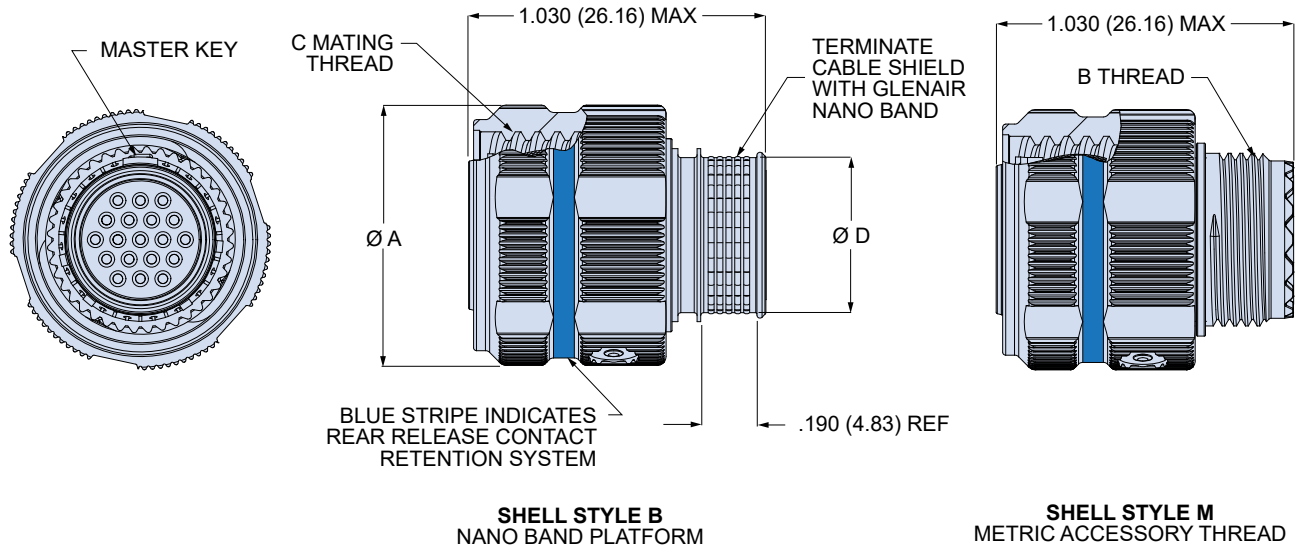
Ultraminiature 806-012 plugs save size and weight compared to traditional aerospace-grade circular connectors. Rugged ratchet mechanism and unique triple-start mating thread provide improved de-coupling resistance under vibration. Series 806 enhanced performance connectors are intended for use in unpressurized aircraft areas subject to vibration, moisture, and temperature extremes.

How To Order							
SAMPLE PART NUMBER →		806-012	-ME	8-3	S	M	A
Product	806-012 = Cable Plug						
Shell Material and Finish	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated						
Arrangement Number (Shell Size - Insert Arr.)	See Table 1						
Contact Type	Connector supplied with contacts P = Pin S = Socket						
Shell Style	M = Metric accessory threads B = Nano Band platform						
Polarizing Position (Table 2)	A B C D E F						

Table 1 Arrangement Number				
No. of Contacts	#20HD	#22HD	Arr.	Shell Size
3	●		8-3	8
4		●	8-4	8
5	●		9-5	9
7		●	8-7	8
8	●		10-8	10
10	●		11-10	11
11		●	9-11	9
15		●	10-15	10
15	●		12-15	12
19		●	11-19	11
20	●		14-20	14
26		●	12-26	12
31	●		16-31	16
39		●	14-39	14
41	●		18-41	18
55	●		20-55	20
60		●	16-60	16
69	●		22-69	22
85		●	18-85	18
92	●		24-92	24
110		●	20-110	20
140		●	22-140	22
186		●	24-186	24

Table 2 Polarizing Positions				
Position	A°	B°	C°	D°
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298





806-012 Plug Dimensions						
Shell Size	øA Max		B Thread	C Mating Thread	øD	
	In.	mm.			In.	mm.
8	.676	17.17	M10x1.0-6g-0.100R	.5000-.067P-.2L-TS-2B	.330	8.38
9	.771	19.58	M12x1.0-6g-0.100R	.5625-.067P-.2L-TS-2B	.409	10.39
10	.832	21.13	M14x1.0-6g-0.100R	.6250-.067P-.2L-TS-2B	.487	12.37
11	.890	22.61	M15x1.0-6g-0.100R	.6875-.067P-.2L-TS-2B	.527	13.39
12	.950	24.13	M17x1.0-6g-0.100R	.7500-.067P-.2L-TS-2B	.606	15.39
14	1.110	28.19	M19x1.0-6g-0.100R	.8750-.067P-.2L-TS-2B	.684	17.37
16	1.170	29.72	M22x1.0-6g-0.100R	1.0000-.067P-.2L-TS-2B	.785	19.94
18	1.350	34.29	M25x1.0-6g-0.100R	1.1250-.067P-.2L-TS-2B	.899	22.83
20	1.470	37.34	M28x1.0-6g-0.100R	1.2500-.067P-.2L-TS-2B	1.046	26.57
22	1.600	40.64	M31x1.0-6g-0.100R	1.3750-.067P-.2L-TS-2B	1.158	29.41
24	1.710	43.43	M34x1.0-6g-0.100R	1.5000-.067P-.2L-TS-2B	1.276	32.41

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