

"ZERO-CROSSTALK" Series 806 Mil-Aero VersaLink™ Connectors



806-049 VersaLink PCB Jam-Nut Receptacle

SERIES 806 VERSALINK CONNECTORS



PART NUMBER DEVELOPMENT					
Sample Part Number	806-049	-ME	11-4V	S	A
Series / Basic No.	806-049 PCB Jam-Nut Receptacle				
Material / Finish	ME = Aluminum alloy, electroless nickel (96 hour salt spray) MT = Aluminum alloy, nickel-PTFE NF = Aluminum alloy, cad/O.D. over electroless nickel ZR = Aluminum alloy, zinc nickel, black (trivalent chromium) Z1 = Aluminum alloy, stainless steel passivated ZL = Aluminum alloy, electro-deposited nickel				
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)				
Contact Gender	P = Pin S = Socket				
Polarization	A, B, C, D, E, F ; see Polarization Table				

MATERIALS / FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50μ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50μ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Potting: epoxy

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD:
20 AWG: 7.5 amps
22 AWG: 5 amps
- DWV:
20HD: 1800 VAC at sea level
22HD: 1300 VAC at sea level
VersaLink: 500 VAC at sea level
- Insulation resistance:
5000 MΩ min. at ambient temperature
1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Integral PCB stand off 4x 4-40 UNC, .156 minimum thread and locating post.
2. Connector is backfilled with epoxy, contacts are non-removable.
3. Receptacle connector mates with 806-044 of the same arrangement, polarization, and opposite gender.
4. Refer to Refer to Series 806 PCB footprints on page 38.
5. Red band indicates full mate.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V ¹	1		
9-2V ²	2		
10-2V ²	2		2
11-4V ³	4		
11-2V ⁹ ⁴	2	9	
12-4V ⁴	4	4	
14-6V ⁷	6	7	
14-4V ¹⁵ ⁵	4	15	
16-10V ⁴	10	4	
16-8V ¹⁰	8	10	
18-14V ⁴	14	4	
18-8V ³¹	8	31	
20-18V ⁸	18	8	
22-25V ⁴	25	4	
22-16V ¹⁹	16	19	
24-32V	32		
24-16V ⁶⁶	16	66	

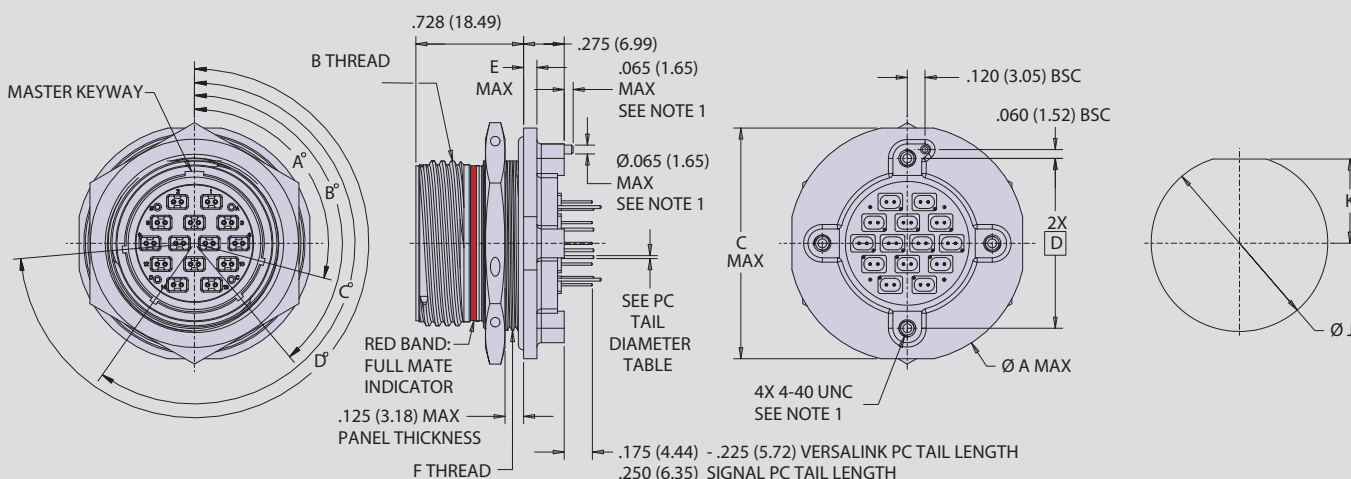
Support for:

1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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DIMENSIONS

SHELL SIZE	ØA MAX	B MATING THREAD	C MAX	D	E MAX	F THREAD
8	0.980 (24.89)	.5000-.067P-.2L-TS-2B	0.920 (23.37)	0.534 (13.56)	0.100 (2.54)	M15 X 1-6g,100R
9	1.040 (26.42)	.5625-.067P-.2L-TS-2B	0.980 (24.89)	0.579 (14.71)	0.100 (2.54)	M16 X 1-6g,100R
10	1.110 (28.19)	.6250-.067P-.2L-TS-2B	1.050 (26.67)	0.679 (17.25)	0.100 (2.54)	M18 X 1-6g,100R
11	1.160 (29.46)	.6875-.067P-.2L-TS-2B	1.110 (28.19)	0.734 (18.64)	0.100 (2.54)	M19 X 1-6g,100R
12	1.230 (31.24)	.7500-.067P-.2L-TS-2B	1.170 (29.72)	0.804 (20.42)	0.100 (2.54)	M21 X 1-6g,100R
14	1.360 (34.54)	.8750-.067P-.2L-TS-2B	1.320 (33.53)	0.891 (22.63)	0.100 (2.54)	M24 X 1-6g,100R
16	1.515 (38.48)	1.0000-.067P-.2L-TS-2B	1.444 (36.68)	1.049 (26.64)	0.100 (2.54)	M27 X 1-6g,100R
18	1.610 (40.89)	1.1250-.067P-.2L-TS-2B	1.570 (39.88)	1.148 (29.16)	0.100 (2.54)	M30 X 1-6g,100R
20	1.850 (46.99)	1.2500-.067P-.2L-TS-2B	1.760 (44.70)	1.252 (31.80)	0.128 (3.25)	M34 X 1-6g,100R
22	2.010 (51.05)	1.3750-.067P-.2L-TS-2B	1.913 (48.59)	1.369 (34.77)	0.128 (3.25)	M37 X 1-6g,100R
24	2.195 (55.75)	1.5000-.067P-.2L-TS-2B	2.070 (52.58)	1.509 (38.33)	0.128 (3.25)	M41 X 1-6g,100R

POLARIZATION

POS	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

CUTOUT PANEL DIMENSIONS

SHELL SIZE	ØJ	K
8	0.601 (15.27)	0.256 (6.50)
9	0.640 (16.26)	0.287 (7.29)
10	0.719 (18.26)	0.318 (8.08)
11	0.759 (19.28)	0.350 (8.89)
12	0.837 (21.26)	0.381 (9.68)
14	0.955 (24.26)	0.443 (11.25)
16	1.073 (27.25)	0.505 (12.83)
18	1.192 (30.28)	0.568 (14.43)
20	1.349 (34.26)	0.630 (16.00)
22	1.467 (37.26)	0.693 (17.60)
24	1.624 (41.25)	0.775 (19.69)

PC TAIL DIAMETERS

CONTACT	MAX PC TAIL DIAMETER
#20	.032 (0.81)
#22	.022 (0.56)
VL SIGNAL	.017 (0.43)
VL GROUND	.022 (0.56)

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