

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



806-045 VersaLink Square Flange Receptacle

SERIES 806 VERSALINK CONNECTORS



PART NUMBER DEVELOPMENT							
Sample Part Number	806-045	-ME	16-10V4	A	M	T	A
Series / Basic No.	806-045 = Square flange 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	A = Pin, less contact B = Socket, less contact						
Shell Style	M = Metric thread B = Banding platform						
Panel Mount Hole Style	T = Thru Hole C = Clinch Nut, 4-40 Thd, M45938/6-4C						
Polarization	A, B, C, D, E, F ; see Polarization Table						

MATERIAL AND 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
- Contact retention clip: copper alloy / nickel

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. Glenair strongly recommends the use of strain relief 620VS090 or equivalent when using a metric accessory thread shell. Glenair strongly recommends overmolding when using a banding porch shell.
2. Consult factory for use with other cables.
3. Groove for use with overmold strain relief or 809-060 heat shrink boots.
4. Terminate shield with Glenair BandMaster ATS tool 601-108 & Glenair Nanoband.
5. VersaLink contacts are purchased separately. See following drawings for more information:
VersaLink: 853-045 & 853-046
22HD: 850-094 & 850-095
20HD: 809-204 & 809-205
See 8574-0001 for pre-terminated VersaLink contacts. Contact factory for complete cable assemblies.
6. Receptacle mates with 806-044 of the same arrangement, polarization, and opposite gender.
7. Blue color band indicates rear release retention.
8. Red color band full mate indicator.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V ¹	1		
9-2V ²	2		
10-2V2	2		2
11-4V ³	4		
11-2V9 ⁴	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15 ⁵	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

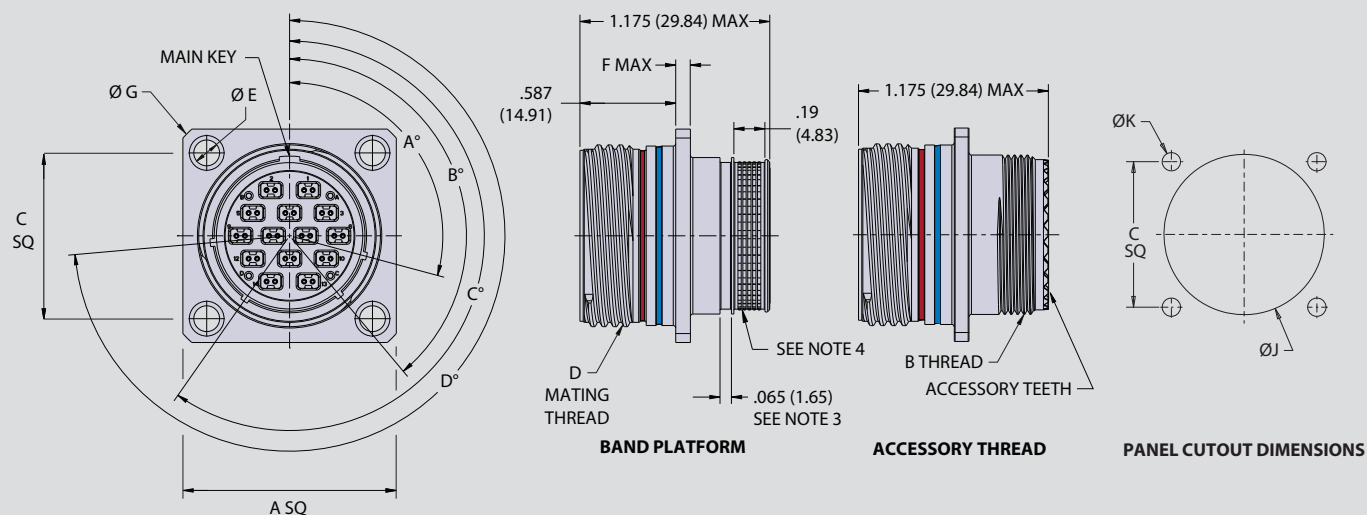
Support for:

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

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



806-045 VersaLink Square Flange Receptacle



CONNECTOR DIMENSIONS

SHELL SIZE	A MAX	B THREAD	C SQ	D MATING THREAD	ØE Thru Holes	F MAX	ØG	ØH
8	0.822 (20.88)	M10 X 1-6g.100R	0.531 (13.49)	.5000-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.040 (26.42)	0.327 (8.31)
9	0.855 (21.72)	M12 X 1-6g.100R	0.594 (15.09)	.5625-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.130 (28.70)	0.406 (10.31)
10	0.913 (23.19)	M14 X 1-6g.100R	0.625 (15.88)	.6250-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.174 (29.82)	0.484 (12.29)
11	0.960 (24.38)	M15 X 1-6g.100R	0.670 (17.02)	.6875-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.200 (30.48)	0.524 (13.31)
12	1.040 (26.42)	M17 X 1-6g.100R	0.765 (19.43)	.7500-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.354 (34.39)	0.603 (15.32)
14	1.133 (28.78)	M19 X 1-6g.100R	0.859 (21.82)	.8750-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.510 (38.35)	0.681 (17.30)
16	1.227 (31.17)	M22 X 1-6g.100R	0.938 (23.83)	1.000-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.620 (41.15)	0.782 (19.86)
18	1.320 (33.53)	M25 X 1-6g.100R	1.016 (25.81)	1.1250-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.784 (45.31)	0.899 (22.83)
20	1.444 (36.68)	M28 X 1-6g.100R	1.109 (28.17)	1.250-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	1.910 (48.51)	1.043 (26.49)
22	1.570 (39.88)	M31 X 1-6g.100R	1.203 (30.56)	1.3750-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	2.083 (52.91)	1.155 (29.34)
24	1.696 (43.08)	M34 X 1-6g.100R	1.312 (33.32)	1.500-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	2.200 (55.88)	1.273 (32.33)

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

PANEL CUTOUT DIMENSIONS

SHELL SIZE	ØJ	W/ CLINCH NUT	W/O CLINCH NUT	SHELL SIZE	ØJ	W/ CLINCH NUT	W/O CLINCH NUT
8	0.505 (12.83)	0.128 (3.25)	0.128 (3.25)	16	1.010 (25.65)	0.128 (3.25)	0.128 (3.25)
9	0.572 (14.53)	0.128 (3.25)	0.128 (3.25)	18	1.120 (28.45)	0.128 (3.25)	0.128 (3.25)
10	0.640 (16.26)	0.128 (3.25)	0.128 (3.25)	20	1.270 (32.26)	0.128 (3.25)	0.154 (3.91)
11	0.707 (17.96)	0.128 (3.25)	0.128 (3.25)	22	1.395 (35.43)	0.128 (3.25)	0.154 (3.91)
12	0.762 (19.35)	0.128 (3.25)	0.128 (3.25)	24	1.520 (38.61)	0.128 (3.25)	0.154 (3.91)
14	0.885 (22.48)	0.128 (3.25)	0.128 (3.25)				

VERSALINK CONTACTS SOLD SEPARATELY

Pin	853-045
Socket	853-046
Pin Pigtail	8574-0001-AN
Socket Pigtail	8574-0001-BN
Pin-Pin Cable	8574-0001-AA
Pin-Socket Cable	8574-0001-AB
Socket-Socket Cable	8574-0001-BB

SIGNAL AND POWER CONTACTS SOLD SEPARATELY

#22HD Pin	Wire size #22-#28	850-094-1
#22HD Pin	Wire size #26-#30	850-094-2
#22HD Socket	Wire size #22-#28	850-095-1
#22HD Socket	Wire size #26-#30	850-095-2
#20HD Pin	Wire size #20-#24	809-204
#20HD Socket	Wire size #20-#24	809-205

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	963-068-26
Flat Pair	963-069-26