



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
F	REVISED PER ECO 15091	07/15/24	H.J.

**AERO ELECTRIC PART NUMBER**

AE9 20 W 11-23 S N - .250 AD I

- BLANK = NO SOLDER (7)
- T = WITH SOLDER
- AD = WITH ALIGNMENT DISK
- PC TAIL EXTENSION (6)
  - .250
  - .350
  - .450
- SHELL POLARIZATION
  - N = NORMAL
  - A, B, C, D AND E
- NOTE: ALL MINOR KEYS ARE ROTATED TO PROVIDE SHELL POLARIZATION, THE MASTER KEY REMAINS FIXED.
- CONTACT STYLE
  - P = PIN
  - S = SOCKET
- A = PIN (CONNECTORS USED WITH OTHER THAN STANDARD CONTACTS.)
- B = SOCKET
- INSERT ARRANGEMENT PER MIL-STD-1560
  - 9-23, 11-23, 13-23, 15-23, 17-23, 19-23, 21-23, 23-23, 25-23
- SHELL SIZE
  - 9, 11, 13, 15, 17, 19, 21, 23 AND 25
- CLASS/MATERIAL/FINISH
  - W - ALUMINUM, OLIVE DRAB CADMIUM OVER NICKEL
  - F - ALUMINUM, ELECTROLESS NICKEL (RoHS)
  - E - STAINLESS STEEL, PASSIVATED (RoHS)
  - L - STAINLESS STEEL, ELECTRODEPOSITED NICKEL, NON-FIREWALL (RoHS)
  - BZ - NICKEL ALUMINUM BRONZE, NON-FIREWALL (RoHS)
  - Z - ALUMINUM, BLACK ZINC NICKEL (RoHS)
- CONNECTOR STYLE
  - 20 = WALL MOUNT RECEPTACLE
- AERO PRODUCT IDENTIFIER
  - HIGH DENSITY SERIES IN D38999, SERIES III CONNECTOR HOUSING

SHELL SIZE	MS SHELL CODE	A TYP		B TYP BSC		C TYP BSC		D TYP		E		F THREAD TRIPLE START	G MAX		H MAX		J NO OF TEETH	K ACCESSORY THREAD
		INCH $\pm .012$	MM $\pm 0.30$	INCH	MM	INCH	MM	INCH $\pm .008$	MM $\pm 0.20$	INCH $\pm .008$	MM $\pm 0.20$		INCH	MM	INCH	MM		
09	A	.937	23.80	.719	18.26	.594	15.09	.216	5.49			.6250-.1P-.3L					12	M12x1.0-6g.100R
11	B	1.031	26.20	.812	20.62	.719	18.26					.7500-.1P-.3L					16	M15x1.0-6g.100R
13	C	1.126	28.60	.906	23.01	.812	20.62	.194	4.93			.8750-.1P-.3L					20	M18x1.0-6g.100R
15	D	1.220	31.00	.969	24.61	.906	23.01	.173	4.39	.128	3.25	1.000-.1P-.3L	.820	20.83	.098	2.50	24	M22x1.0-6g.100R
17	E	1.311	33.30	1.062	26.97	.969	24.61					1.187-.1P-.3L					28	M25x1.0-6g.100R
19	F	1.437	36.50	1.156	29.36	1.062	26.97	.194	4.93			1.250-.1P-.3L					32	M28x1.0-6g.100R
21	G	1.563	39.70	1.250	31.75	1.156	29.36					1.375-.1P-.3L					36	M31x1.0-6g.100R
23	H	1.689	42.90	1.375	34.93	1.250	31.75	.242	6.15	.154	3.91	1.500-.1P-.3L	.790	20.07	.126	3.20	40	M34x1.0-6g.100R
25	J	1.811	46.00	1.500	38.10	1.375	34.93					1.625-.1P-.3L					44	M37x1.0-6g.100R

- (7) IF ORDERED WITH "T", PC TAIL CONTACTS SHALL BE SOLDER DIPPED.
- (6) IF ORDERED WITH PC CONTACTS, PC TAIL EXTENSION TO BE MEASURED FROM BACK OF THE SHELL. PC TAIL DIAMETER SHALL BE  $\phi .019 \pm .001$ .
- (5) INSERTION/REMOVAL TOOL USED ON THIS CONNECTOR SHALL NOT BE PROVIDED WITH THE CONNECTOR. NOTE: DO NOT USE THIS TOOL TO EXTRACT WIRE INSULATION DIAMETER GREATER THAN .045.
- (4) MARKING: "AERO", AERO PART NUMBER & MFG DATE CODE SHALL BE LOCATED APPROXIMATELY WHERE SHOWN.
- (3) BLUE COLOR BAND DESIGNATES REAR RELEASE CONTACT RETENTION SYSTEM.
- (2) RED COLOR BAND IS A FULLY MATED INDICATOR, IT IS VISIBLE WHEN UNMATED AND FULLY COVERED WHEN COMPLETELY MATED.

1. A QUANTITY OF CRIMP CONTACTS CONSISTING OF THE NORMAL COMPLIMENT AND NO SEALING PLUGS WILL BE INCLUDED IN THE PACKAGE.

CONNECTORS WITH PC CONTACTS ARE PROVIDED WITH LOADED CONTACTS AND ALIGNMENT DISK IF REQUIRED.

NOTES UNLESS OTHERWISE SPECIFIED:

PROJECTION 	APPLICATION	UNLESS OTHERWISE SPECIFIED	DRAWN	S.S.	05/10/10	<b>AERO ELECTRIC CONNECTOR, Inc.</b> 2280 208th Street Torrance, California 90501 CON:SYS™
	TSR 2879	INTERPRET DWG PER MIL-STD-100 ALL DIMENSIONS IN INCHES PART TO BE FREE OF BURRS ALL DIM APPLY BEFORE PLATING ✓ ALL MACHINED SURFACES MAX. RUNOUT .005 FIM BREAK SHARP EDGES .005 MAX MACHINE FILLET RADI .006 MAX	CHECK			
--CONFIDENTIAL INFORMATION-- CONFIDENTIAL INFORMATION OF CONESYS, INC. IS CONTAINED IN THIS DRAWING. THE TRANSMISSION, USE, OR REVELATION OF ANY PORTION OF THIS DRAWING OUTSIDE OF THE ENTITY TO WHOM IT WAS SENT, WITHOUT WRITTEN AUTHORIZATION OF CONESYS, INC. IS PROHIBITED.		.XX $\pm .010$ .XXX $\pm .005$ ANGLES $\pm 0^{\circ}30'$	APVD	H.J.	05/10/10	DWG. NO.
		DO NOT SCALE DRAWING	MATERIAL	N/A		AE920
			FINISH	N/A		REV
			SIZE	C	CAGE CODE	59976
			SCALE	N/A	SHEET	1 OF 1