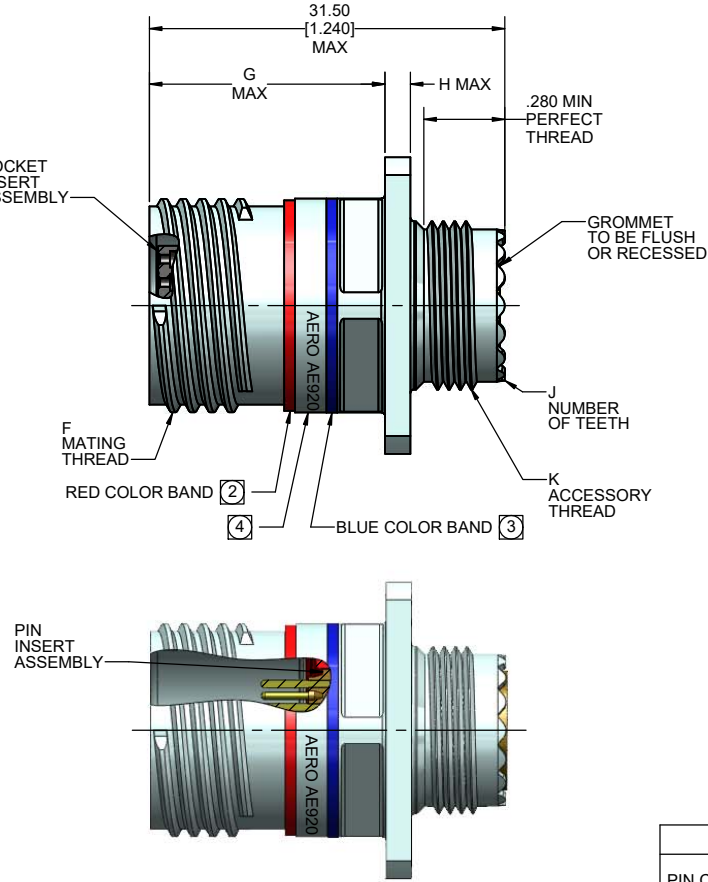
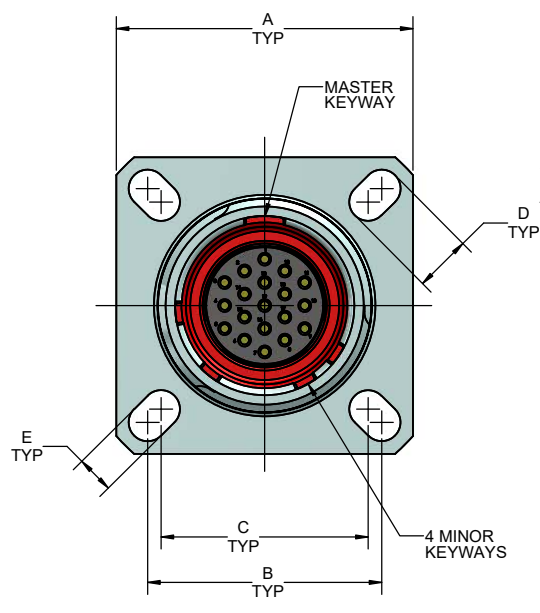


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
E	REVISED PER ECO 14757	05/25/23	H.J.



**AERO ELECTRIC PART NUMBER**

AE9 20 W 11 - 23 S N - XXX

**AERO ELECTRIC MODIFICATION NUMBER**

**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  
 E - STAINLESS STEEL, PASSIVATED  
 L - STAINLESS STEEL, ELECTRODEPOSITED NICKEL, NON-FIREWALL  
 BZ - NICKEL ALUMINUM BRONZE, NON-FIREWALL  
 Z - ALUMINUM, BLACK ZINC NICKEL

**CONNECTOR STYLE**

20 = WALL MOUNT RECEPTACLE

**AERO PRODUCT IDENTIFIER**

HIGH DENSITY SERIES IN D38999, SERIES III CONNECTOR HOUSING

11-23 SOCKET INSERT FRONT (FOR REFERENCE ONLY)

PIN INSERT ASSEMBLY

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 ±.012	MM ±0.30	INCH	MM	INCH	MM	INCH ±.008	MM ±0.20	INCH ±.008	MM ±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	.194	4.93			.7500-.1P-.3L					16	M15x1.0-6g.100R
13	C	1.126	28.60	.906	23.01	.812	20.62					.8750-.1P-.3L	.820	20.83	.098	2.50	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					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	.790	20.07	.126	3.20	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					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

PART NUMBER		MILITARY PART NUMBER			WIRE RANGE	CONTACT SIZE
PIN CONTACT	SOCKET CONTACT	INSERTION/REMOVAL TOOLS	SEALING PLUGS	CRIMPING TOOLS		
5290-004-23H1 OR M39029/18-177	5090-003-231H OR M39029/17-172	M81969/16-04 (PLASTIC) (5)	MS27488-22-2	M22520/2-01	28-22	23

**MATERIAL:**

- RECEPTACLE SHELL.....: MACHINED ALUMINUM ALLOY  
STAINLESS STEEL  
NICKEL ALUMINUM BRONZE
- CONTACT RETENTION CLIP.....: BERYLLIUM COPPER ALLOY
- GROMMET, INTERFACIAL SEAL.....: SILICONE/FLUOROSILICONE ELASTOMER
- PERIPHERAL SEAL.....: SILICONE/FLUOROSILICONE ELASTOMER
- INSULATOR.....: THERMOSET

(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.

NOTES UNLESS OTHERWISE SPECIFIED:

PROJECTION  --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.	APPLICATION TSR 2879	UNLESS OTHERWISE SPECIFIED 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 .XX ±.010 .XXX ±.005 ANGLES ±0°30' DO NOT SCALE DRAWING	DRAWN CHECK APVD MATERIAL FINISH	S.S. H.J. N/A N/A	05/10/10 05/10/10 05/10/10	 <b>AERO ELECTRIC CONNECTOR, Inc.</b> 2280 208th Street Torrance, California 90501 <b>CUSTOMER USE DRAWING</b> TITLED THREADED RECEPTACLE CONNECTOR, WALL MOUNT CLASSES "F", "E", "L", "BZ" & "Z" REF: MIL-DTL-38999, SERIES III DWG. NO. <b>AE920</b> SIZE <b>C</b> CAGE CODE <b>59976</b> SCALE <b>N/A</b> SHEET <b>1</b> OF <b>1</b> REV <b>E</b>
				N/A N/A		