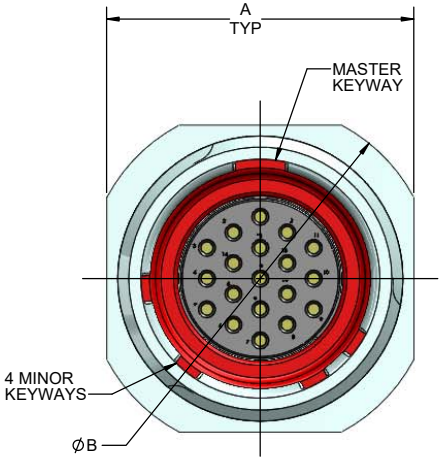
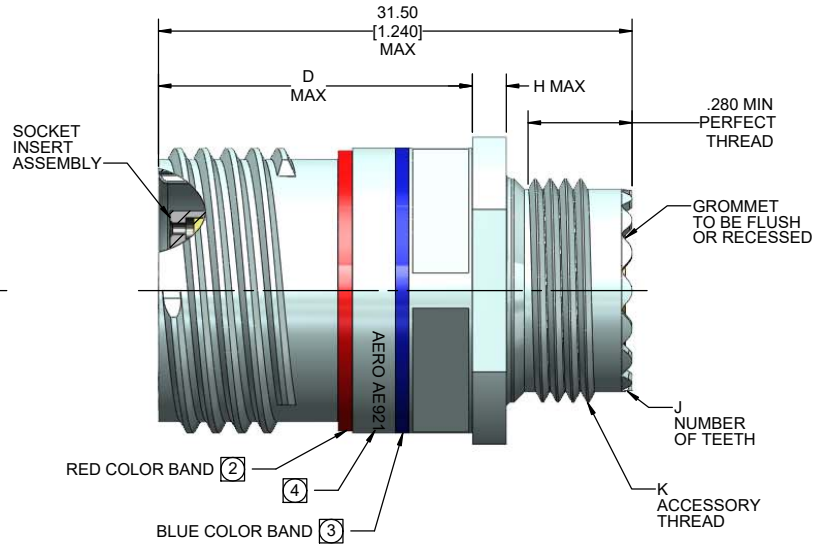
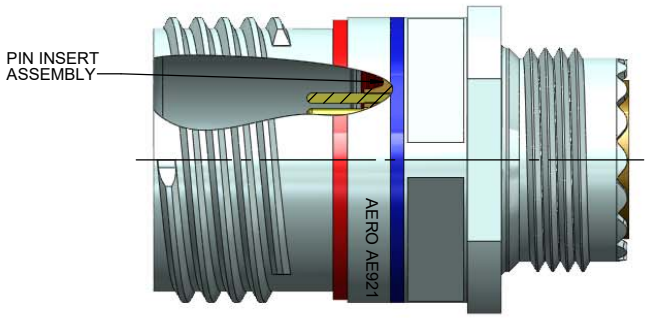
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
E	REVISED PER ECO 14757	05/25/23	H.J.



11-23 SOCKET INSERT FRONT
(FOR REFERENCE ONLY)





AERO ELECTRIC PART NUMBER

AE9 21 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
B = SOCKET THAN STANDARD CONTACTS.)

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
21 = IN-LINE RECEPTACLE

AERO PRODUCT IDENTIFIER
HIGH DENSITY SERIES IN D38999, SERIES III CONNECTOR HOUSING

SHELL SIZE	MS SHELL CODE	A TYP INCH ±.010	A TYP MM ±.25	ØB INCH ±.010	ØB MM ±.25	D MAX INCH	D MAX MM	F THREAD TRIPLE START	H MAX INCH	H MAX MM	J NO OF TEETH	K ACCESSORY THREAD
09	A	.675	17.15	.812	20.62	.820	20.83	.6250-.1P-.3L	.098	2.50	12	M12x1.0-6g.100R
11	B	.800	20.32	.905	22.99			.7500-.1P-.3L			16	M15x1.0-6g.100R
13	C	.925	23.50	1.093	27.76			.8750-.1P-.3L			20	M18x1.0-6g.100R
15	D	1.050	26.67	1.219	30.96			1.000-.1P-.3L			24	M22x1.0-6g.100R
17	E	1.238	31.45	1.375	34.93			1.187-.1P-.3L			28	M25x1.0-6g.100R
19	F	1.300	33.02	1.469	37.31			1.250-.1P-.3L			32	M28x1.0-6g.100R
21	G	1.425	36.20	1.625	41.28	.790	20.07	1.375-.1P-.3L	.126	3.20	36	M31x1.0-6g.100R
23	H	1.550	39.37	1.750	44.45			1.500-.1P-.3L			40	M34x1.0-6g.100R
25	J	1.675	42.55	1.875	47.63			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 RELEVATION 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 RADII .006 MAX
.XX ±.010
.XXX ±.005
ANGLES ±0°30'
DO NOT SCALE DRAWING

DRAWN	ESTHER A.	09/19/14
CHECK	CHUCK B.	09/19/14
APVD	H.J.	09/19/14

MATERIAL: N/A

FINISH: N/A

AERO ELECTRIC CONNECTOR, Inc.
2280 208th Street
Torrance, California 90501
CONESYS™

TITLE: CUSTOMER USE DRAWING
THREADED IN-LINE RECEPTACLE CONNECTOR
CLASSES "W", "F", "E", "L", "BZ" & "Z"
REF:MIL-DTL-38999, SERIES III (TSR #2002)

DWG. NO. AE921 REV E

SIZE C | CAGE CODE 59976 | SCALE N/A | SHEET 1 OF 1