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EAR CONTROLLED PRODUCT

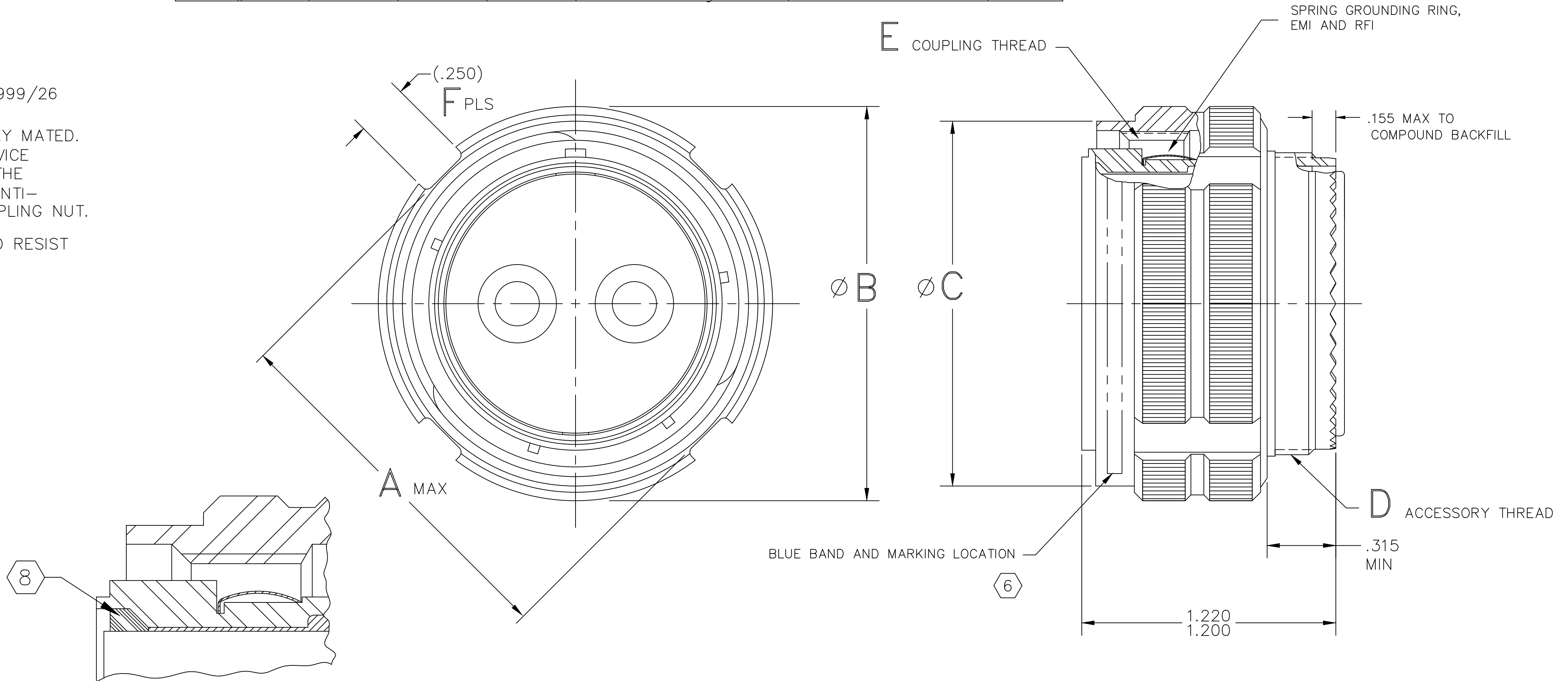
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	N/R	INITIAL RELEASE	5/9/11	CJP
	N/R1	ADDED INFO TO PART NUMBER STRUCTURE	2/1/12	CJP
	N/R2	UPDATED MATERIAL AND FINISH	9/10/12	RF
	A	SEE DCO-02459	8/3/2020	GTm
	B	SEE DCO-02775	11/9/2020	MD
	B1	SEE DCO-02966	5/21/21	GTm
	C	SEE DCO-03924	5/12/22	KK
	C1	SEE DCO-04047	6/8/22	KK
	D	SEE DCO-04702	7/12/23	KK

NOTES : UNLESS OTHERWISE SPECIFIED

1. MATERIAL AND FINISH:
GROMMET- FLUOROSILICONE/SILICONE BLEND.
RETAINING CLIPS- BeCu ALLOY
END CAP (BACK OF COUPLING NUT)- 300 SERIES STAINLESS STEEL, PASSIVATED.
COUPLING NUT- TITANIUM ALLOY, ELECTRODEPOSITED NICKEL IN ACCORDANCE WITH AMS-QQ-N-290, CLASS 2. PLATING SHALL BE VISIBLY CONTINUOUS UNDER A MAXIMUM OF 10X MAGNIFICATION WITH NO MIN THICKNESS REQUIREMENT.
SHELL- TITANIUM ALLOY, ELECTRODEPOSITED NICKEL IN ACCORDANCE WITH AMS-QQ-N-290, CLASS 2. EXTERIOR PLATING SHALL BE .00006 MIN THICK WHEN MEASURED ON SMOOTH/FLAT PORTION OF OF THE CONNECTOR AND .00004 MIN THICK ON EXTERIOR CORNERS. INTERNAL PLATING SHALL BE VISIBLY CONTINUOUS UNDER A MAXIMUM OF 10X MAGNIFICATION WITH NO MIN THICKNESS REQUIREMENT..
NICKEL PLATING ON TITANIUM CONTENT: PHOSPHORUS OF UP TO 5% BY WEIGHT OF PLATING PER STANDARDLESS SCANNING ELECTRON MICROSCOPE/ENERGY DISPERSIVE X-RAY SPECTROSCOPY (SEM/EDS).
2. THE CONNECTOR DESCRIBED ON THIS DRAWING MEETS MECHANICAL AND ELECTRICAL CHARACTERISTICS OF MIL-DTL-38999 SERIES III, MIL-DTL-38999/26 AND MIL-STD-1560.
3. THIS CONNECTOR PROVIDES 360° SHELL-TO-SHELL BOTTOMING WHEN FULLY MATED. IN ADDITION, THIS CONNECTOR IS EQUIPED WITH AN ANTI-DECOUPLING DEVICE WHICH PROVIDES FOR AN OVER TRAVEL OF THE COUPLING NUT, BEYOND THE SHELL-TO-SHELL BOTTOMING POINT, OF AT LEAST ONE "CLICK" OF THE ANTI-DECOUPLING DEVICE, AND LESS THAN 5° ANGULAR ROTATION OF THE COUPLING NUT.
4. THIS CONNECTOR INCORPORATES A FULLY SEALED LOCKING MECHANISM TO RESIST FLUID INTRUSION INTO THE MECHANISM BY SPRAY, OR MIST APPLIED TO THE CONNECTOR FROM ANY ANGLE.
5. THIS CONNECTOR MEETS VIBRATION REQUIREMENTS EXCEEDING THOSE OF MIL-DTL-38999.
6. THE FOLLOWING INFORMATION SHALL BE MARKED ON THE CONNECTOR IN ACCORDANCE WITH MIL-DTL-38999:
A. HIREL'S PART NUMBER
B. HIREL'S CAGE NUMBER
C. DATE CODE
7. CONNECTORS EXCEED SHELL-TO-SHELL CONTINUITY REQUIREMENTS IAW MIL-DTL-38999 SERIES III, SECTION 3.29 EXCEPT AS NOTED BELOW:
VOLTAGE DROP: 2.5 MILLIVOLTS MAX.
8. RTV 3140 TO BE APPLIED IN REGION SHOWN AFTER APPLICATION OF ECCOBOND.

SHELL SIZE	SHELL CODE	A MAX	ØB MAX	ØC +.000 -.008	D THREAD	E THREAD CLASS 2B	F PLS
9	A	.748	.858	.732	M12 X 1.0-6g 0.100R	.625-.1P-.3L-TS	4
11	B	.862	.984	.839	M15 X 1.0-6g 0.100R	.750-.1P-.3L-TS	4
13	C	1.028	1.157	1.008	M18 X 1.0-6g 0.100R	.875-.1P-.3L-TS	4
15	D	1.154	1.280	1.138	M22 X 1.0-6g 0.100R	1.000-.1P-.3L-TS	4
17	E	1.291	1.406	1.276	M25 X 1.0-6g 0.100R	1.1875-.1P-.3L-TS	4
19	F	1.398	1.516	1.382	M28 X 1.0-6g 0.100R	1.250-.1P-.3L-TS	8
21	G	1.524	1.642	1.508	M31 X 1.0-6g 0.100R	1.375-.1P-.3L-TS	8
23	H	1.642	1.768	1.626	M34 X 1.0-6g 0.100R	1.500-.1P-.3L-TS	8
25	J	1.768	1.890	1.752	M37 X 1.0-6g 0.100R	1.625-.1P-.3L-TS	8



EXPLANATION OF PART NUMBER

59000B-**-** * *-F08

- MODIFICATION DESIGNATOR: F08 = HIGH IMPACT, Ti SHELL CONDUCTIVE NICKEL PLATE.
- POLARIZATION: PER MIL-DTL-38999, SERIES III
- CONTACT STYLE DESIGNATOR:
 - P = PIN CONTACT INSERT
 - S = SOCKET CONTACT INSERT
- INSERT ARRANGEMENT PER MIL-STD-1560 (SIZE 9-2 NON MIL SPEC AVAILABLE)
 - *OMIT LEADING ZEROES AS SHOWN IN MIL-STD-1560
- SHELL SIZE DESIGNATOR: PER MIL-DTL-38999, SERIES III
- CONNECTOR CLASS (NON MIL-STD CLASS)
- BASIC NUMBER

SOCKET INSULATOR LOCATION

QTY REQ'D		CODE IDENT	PART OR IDENTIFYING NO.	MOMENTUM OR DESCRIPTION			
PARTS LIST							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± ~ .XX ± ~ ± ~ .XXX ± ~			APPROVALS DATE		HiREL CONNECTORS INC 760 W WHARTON DRIVE CLAREMONT CA 91711		
MATERIAL			DRAWN R.FIGUEROA CHECKED C. PHILLIPS DESIGN R. FIGUEROA		5/5/11 6/13/11 5/5/11		
FINISH					SIZE CODE IDENT NO. DRAWING NO.		
1					D 34222 59000B-**-****-F08		
APPLICATION			DO NOT SCALE DRAWING		SCALE NONE 29163 SHEET 1 OF 1		