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REV.
D

AS34591™

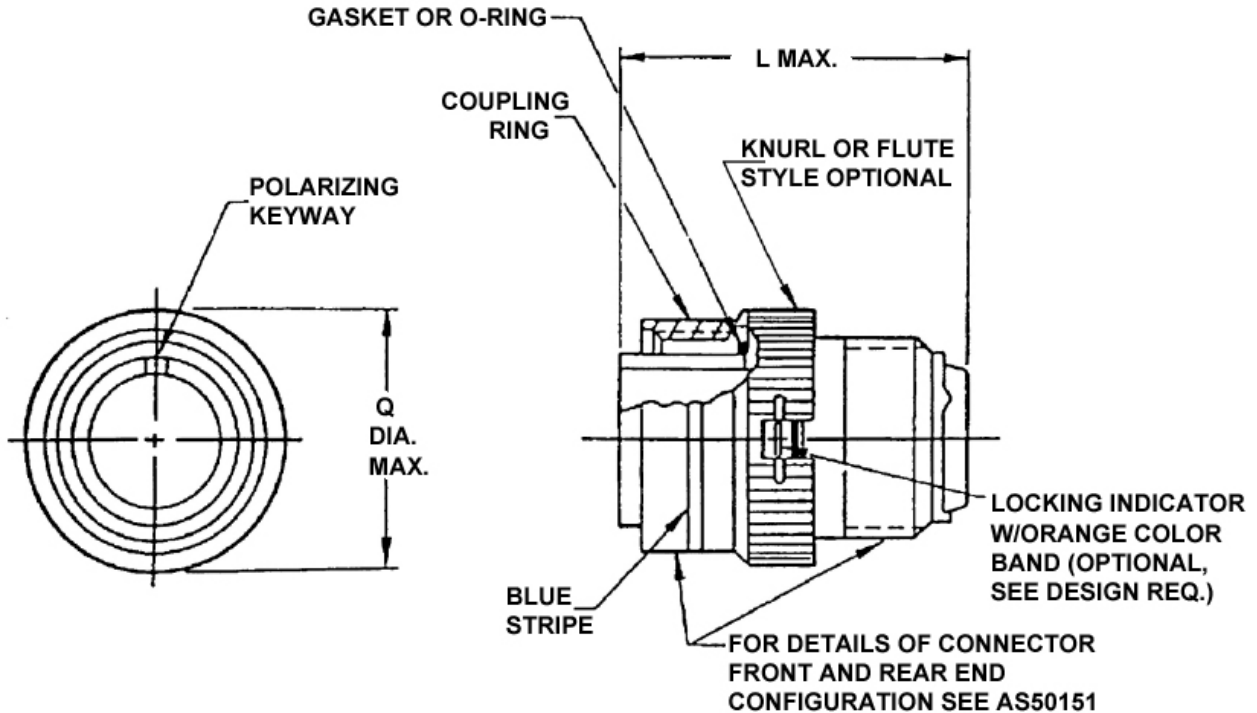
RATIONALE

PARAGRAPHS 9D ADDED SAMPLE SIZE, REMOVED SHELL SIZES REFERENCES, AND UPDATED DATE CODE EFFECTIVITY IN PARAGRAPH 9.J.

AS34591D HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

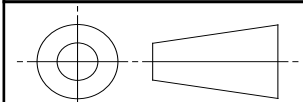


CLASSES K, L & W ENVIRONMENT RESISTANT

FIGURE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34591D/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

CONNECTOR, PLUG, ELECTRICAL,
SELF-LOCKING, COUPLING NUT, REAR RELEASE,
CRIMP CONTACT, AN TYPE

AS34591™
SHEET 1 OF 5

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Documents

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TABLE 1 - FIGURE 1 DIMENSIONS

SHELL SIZE	L MAXIMUM		Q DIAMETER MAXIMUM
	SIZE 16 & 12 CONTACTS	SIZE 8, 4, & 0 CONTACTS	
8S	2.031 (51.59)	N/A	.930 (23.62)
10S			1.088 (27.64)
10SL			1.088 (27.64)
12S			1.213 (30.81)
12	2.125 (53.98)		1.213 (30.81)
14S	2.031 (51.59)		1.358 (34.49)
14	2.125 (53.98)	2.125 (53.98)	1.358 (34.49)
16S	2.031 (51.59)	N/A	1.463 (37.16)
16	2.125 (53.98)	2.500 (63.50)	1.463 (37.16)
18			1.588 (40.34)
20			1.713 (43.51)
22			1.788 (45.42)
24			1.963 (49.86)
28			2.213 (56.21)
32			2.463 (62.56)
36			2.713 (68.91)
40			2.963 (75.26)

TABLE 2 - FINAL/BREAKAWAY AND FREE-ROTATING TORQUES

SHELL SIZE	FINAL/BREAKAWAY TORQUES (SEE REQUIREMENT 7)			MAX FREE-ROTATING TORQUE (SEE REQUIREMENT 8) IN-LB (N-M)
	FINAL TORQUE MAX IN-LB (N-M)	BREAKAWAY TORQUE		
		MIN IN-LB (N-M)	MAX IN-LB (N-M)	
8S	12 (1.36)	8 (0.90)	20 (2.26)	10 (1.13)
10S & 10SL	14 (1.58)	8 (0.90)	25 (2.82)	
12 & 12S	16 (1.81)	10 (1.13)	28 (3.16)	12 (1.36)
14 & 14S	20 (2.26)	12 (1.36)	35 (3.95)	14 (1.58)
16 & 16S	24 (2.71)	16 (1.81)	40 (4.52)	
18	30 (3.39)	22 (2.49)	45 (5.08)	16 (1.81)
20	40 (4.52)	28 (3.16)	52 (5.88)	
22	46 (5.20)	36 (4.07)	65 (7.34)	20 (2.26)
24	55 (6.21)	40 (4.52)	75 (8.47)	
28	66 (7.46)	50 (5.65)	90 (10.17)	24 (2.71)
32	78 (8.81)	60 (6.78)	105 (11.86)	
36	93 (10.51)	65 (7.34)	115 (12.99)	28 (3.16)
40	106 (11.98)	70 (7.91)	125 (14.12)	

	AEROSPACE STANDARD	AS34591™ SHEET 2 OF 5	REV. 1
	CONNECTOR, PLUG, ELECTRICAL, SELF-LOCKING, COUPLING NUT, REAR RELEASE, CRIMP CONTACT, AN TYPE		



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