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REV.
C

AS34501™

FEDERAL SUPPLY CLASS
5935

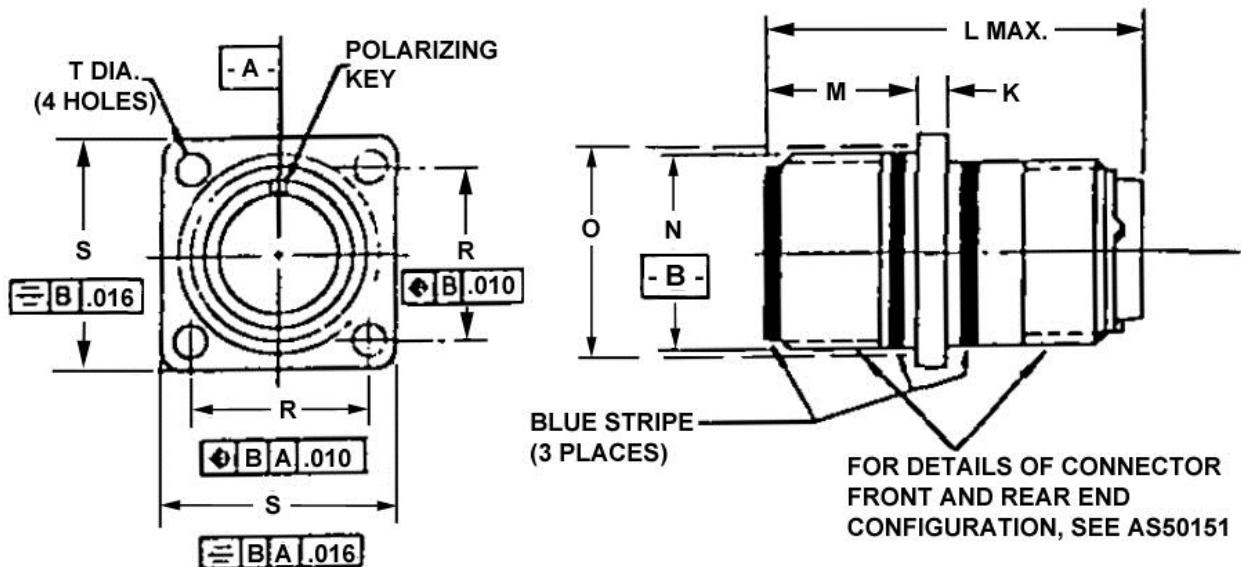
RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, TO ADD A REQUIREMENTS SECTION AND INCORPORATE NOTES, TO CLARIFY RESTRICTIONS, TO ADD METRIC EQUIVALENTS AND TO UPDATE DOCUMENT TO LATEST SAE GUIDELINES.

AS34501C 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, U AND W ENVIRONMENT RESISTANT

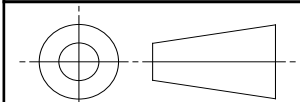
FIGURE 1 – CONNECTOR CONFIGURATION AND DIMENSIONS

TABLE 1 – FIGURE 1 METRIC EQUIVALENTS

INCH	MILLIMETER	INCH	MILLIMETER
.010	0.25	.016	0.41

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34501C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

(R) CONNECTORS, RECEPTACLE, ELECTRICAL,
WALL MOUNTING, REAR RELEASE,
CRIMP CONTACT, AN TYPE

AS34501™
SHEET 1 OF 3

REV.
C

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TABLE 2 – FIGURE 1 DIMENSIONS

SIZE	K ±.015 (0.38)	L MAX.		M +.031 (0.79) -.000	N +.000 -.062 (1.57)	O (REF.) MTG. HOLE	R T.P. C _L C _L	S ±.031 (0.79)	T +.010 (0.25) -.005 (0.13)	
		SIZE 16 & 12 CONTACTS	SIZE 8, 4 & 0 CONTACTS						CLASS L, U, W	CLASS K
8S	.083 (2.11)	2.031 (51.59)	N/A	.562 (14.27)	.532 (13.51)	.562 (14.27)	.594 (15.09)	.875 (22.23)	.120 (3.05)	.150 (3.81)
10S					.656 (16.66)	.688 (17.48)	.719 (18.26)	1.000 (25.40)		
10SL					.656 (16.66)	.688 (17.48)	.719 (18.26)	1.000 (25.40)		
12S		2.031 (51.59)		.562 (14.27)	.782 (19.86)	.812 (20.62)	.812 (20.62)	1.094 (27.79)		
12		2.125 (53.98)		.750 (19.05)	.782 (19.86)	.812 (20.62)	.812 (20.62)	1.094 (27.79)		
14S		2.031 (51.59)		.562 (14.27)	.906 (23.01)	.938 (23.83)	.906 (23.01)	1.188 (30.18)		
14		2.125 (53.98)		.750 (19.05)	.906 (23.01)	.938 (23.83)	.906 (23.01)	1.188 (30.18)		
16S		2.031 (51.59)		.562 (14.27)	1.032 (26.21)	1.062 (26.97)	.969 (24.61)	1.281 (32.54)		
16	.125 (3.18)	2.125 (53.98)	2.500 (63.50)	.750 (19.05)	1.032 (26.21)	1.062 (26.97)	.969 (24.61)	1.281 (32.54)	.147 (3.73)	.177 (4.50)
18					1.156 (29.36)	1.188 (30.18)	1.062 (26.97)	1.375 (34.93)		
20					1.282 (32.56)	1.312 (33.32)	1.156 (29.36)	1.500 (38.10)		
22					1.406 (35.71)	1.438 (36.53)	1.250 (31.75)	1.625 (41.28)		
24				.812 (20.62)	1.532 (38.91)	1.562 (39.67)	1.375 (34.93)	1.750 (44.45)		
28				.812 (20.62)	1.782 (45.26)	1.812 (46.02)	1.562 (39.67)	2.000 (50.80)		
32				.875 (22.23)	2.082 (52.88)	2.062 (52.37)	1.750 (44.45)	2.250 (57.15)	.173 (4.39)	.209 (5.31)
36					2.282 (57.96)	2.312 (58.72)	1.938 (49.23)	2.500 (63.50)		
40					2.532 (64.31)	2.562 (65.07)	2.188 (55.58)	2.750 (69.85)		
44					2.782 (70.66)	2.812 (71.42)	2.375 (60.33)	3.000 (76.20)		
48					3.032 (77.01)	3.062 (77.77)	2.625 (66.68)	3.250 (82.55)		

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

1. DESIGN AND CONSTRUCTION:

CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2. DIMENSIONS SHOWN ARE IN INCHES AND APPLY AFTER PLATING. UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± .016. DIMENSIONS AND TOLERANCING SHALL BE IN ACCORDANCE WITH ASME Y14.5. ALL DIMENSIONS PROVIDED IN PARENTHESES ARE METRIC EQUIVALENTS, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED ON 1 INCH = 25.4 MILLIMETERS.

AS50151 CRIMP CONTACT FRONT AND REAR RELEASE CONNECTORS AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE.

UNLESS OTHERWISE SHOWN, CORRESPONDING FEATURES OF PIN AND SOCKET CONTACT CONNECTORS ARE IDENTICAL.

2. TOOLS:

EXTRACTION TOOL M81969/29-01 SHALL BE USED TO REMOVE SIZE 16 CONTACTS THAT ARE CRIMPED TO MIL-DTL-25038/1 OR NEMA-WC27500 FIRE ZONE WIRE.

3. FOR INSERT ARRANGEMENTS SEE MIL-STD-1651.

	AEROSPACE STANDARD	AS34501™ SHEET 2 OF 3 	REV. 6
	(R) CONNECTORS, RECEPTACLE, ELECTRICAL, WALL MOUNTING, REAR RELEASE, CRIMP CONTACT, AN TYPE		



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