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REV.
A

AS34461™

FEDERAL SUPPLY CLASS
5935

RATIONALE

AS34461A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS81703.

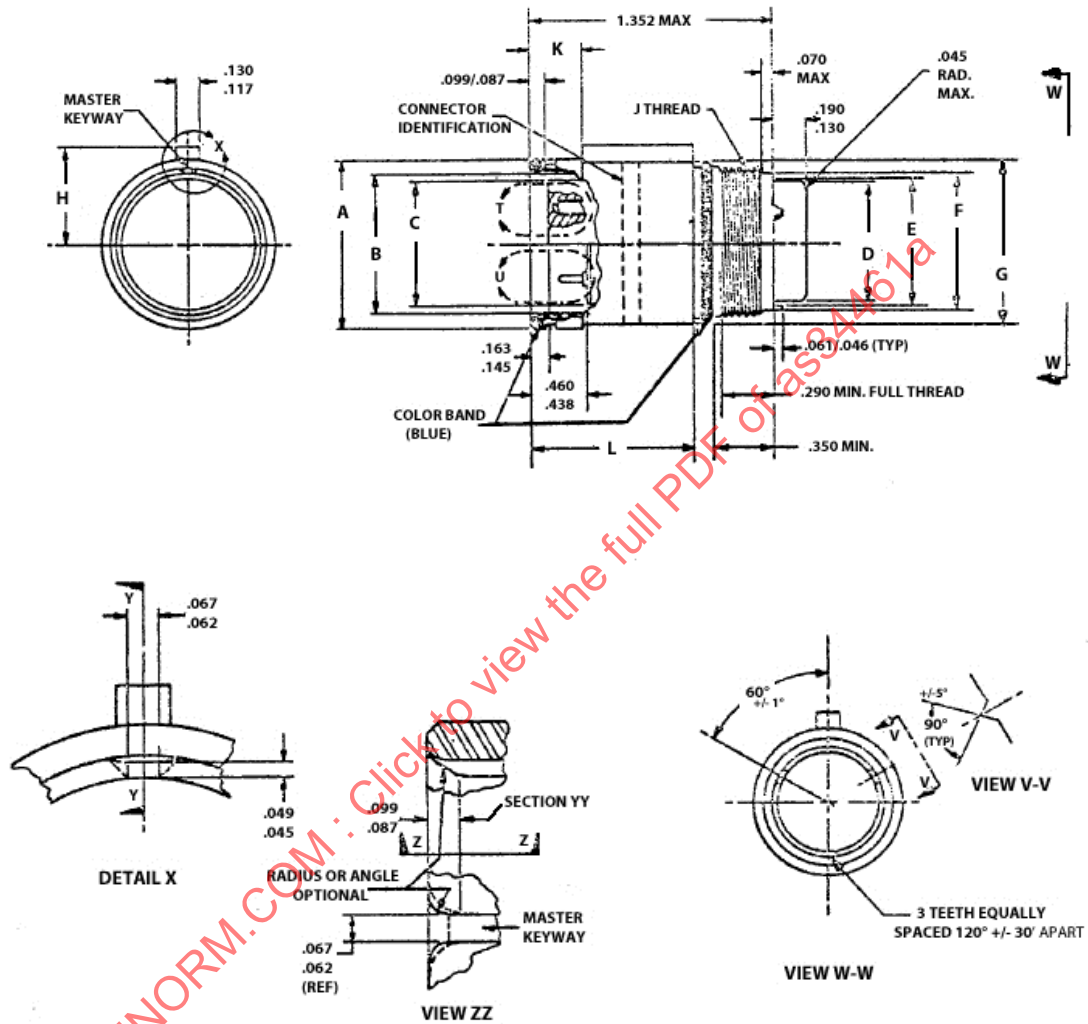
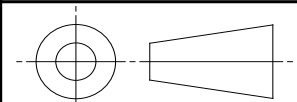


FIGURE 1A – CONNECTOR CONFIGURATIONS AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34461A>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD

(R) CONNECTOR, PLUG, ELECTRIC, CRIMP TYPE,
RACK AND PANEL, SERIES 3
(CLASS L AND E)

AS34461™
SHEET 1 OF 4

REV.
A

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ISSUED 1998-01 REVISED 2011-09 REAFFIRMED 2021-08

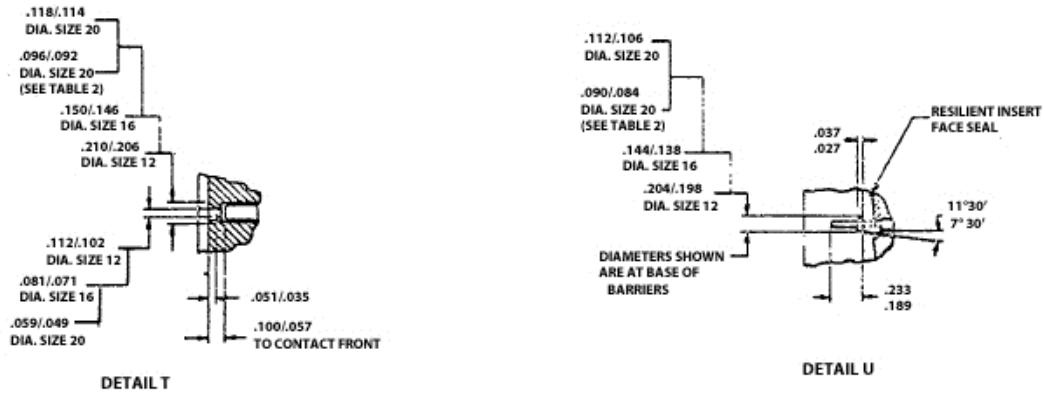


FIGURE 1B – CONNECTOR CONFIGURATIONS AND DIMENSIONS (CONTINUED)

FIGURE 1 – CONFIGURATIONS AND DIMENSIONS

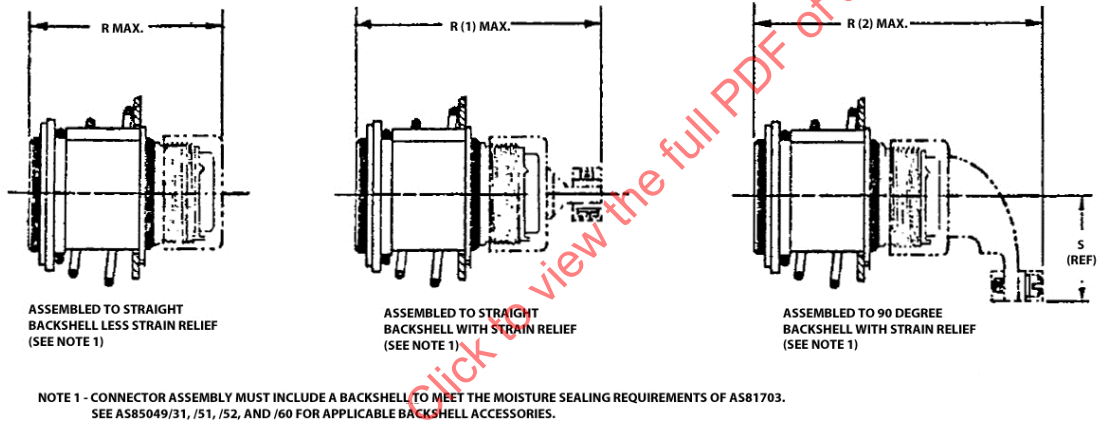


FIGURE 2 – CONNECTOR BACKSHELL/ACCESSORY DETAILS

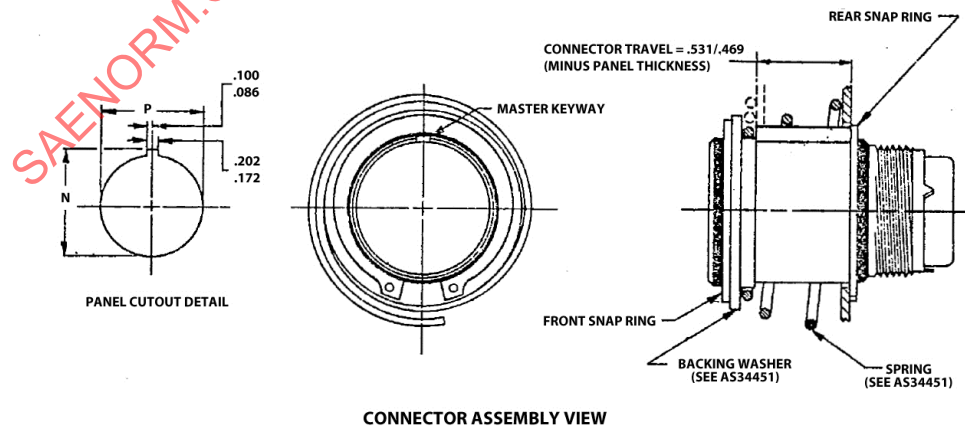


FIGURE 3 – CONNECTOR ASSEMBLY DETAILS

	AEROSPACE STANDARD (R) CONNECTOR, PLUG, ELECTRIC, CRIMP TYPE, RACK AND PANEL, SERIES 3 (CLASS L AND E)		AS34461™ SHEET 2 OF 4	REV. A
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TABLE 1 – FIGURE 1 THROUGH 3 DIMENSIONS

SHELL SIZE DASH NO.	A DIA.	B SHELL I.D.	C MAX. INSERT O.D.	D MAX. GROMMET O.D.	E MIN. UNDER TEETH	F MAX. DIA.	G MAX. DIA.	H DIM. FROM CENTERLINE TO TOP OF KEY	J THREAD
-3	.641/.628	.454/.446	.330	.351	.441	.509	.615	.442/.422	9/16-24 UNEF-2A
-7	.797/.784	.589/.581	.451	.531	.613	.687	.760	.504/.484	3/4-20 UNEF-2A
-12	.920/.907	.723/.715	.553	.665	.731	.812	.867	.567/.547	7/8-20 UNEF-2A
-19	1.048/1.035	.862/.854	.738	.790	.861	.937	1.010	.639/.619	1-20 UNEF-2A
-27	1.189/1.176	1.017/1.009	.854	.869	.919	.992	1.150	.709/.689	1 1/16-18 UNEF-2A
-37	1.356/1.343	1.139/1.131	.978	.994	1.044	1.117	1.322	.796/.776	1 3/16-18 UNEF-2A
-61	1.673/1.660	1.427/1.419	1.271	1.280	1.361	1.427	1.635	.951/.931	1 1/2-18 UNEF-2A

TABLE 1 – FIGURE 1 THROUGH 3 DIMENSIONS (CONTINUED)

SHELL SIZE DASH NO.	K	L	N	P	R MAX.	R (1) MAX.	R (2) MAX.	S (REF)
-3	.283/.253	.824/.804	.858/.828	.686/.656	1.660	2.010	2.218	.850
-7	.332/.302	.817/.797	.999/.969	.827/.797			2.420	.950
-12	.337/.307		1.124/1.094	.968/.938		2.240	2.510	1.010
-19	.335/.305		1.249/1.219	1.077/1.047			2.640	1.070
-27	.334/.304	.805/.785	1.390/1.360	1.218/1.188			2.740	1.130
-37	.343/.313		1.546/1.516	1.390/1.360			2.870	1.190
-61	.382/.352	.793/.773	1.874/1.844	1.702/1.672			3.132	1.335

TABLE 2 – INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETER SEAL BARRIER

INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS FOR SOCKET CONTACT CHAMFER LEAD-INS AND PIN CONTACT RAISED BARRIERS (ON OUTER ROW CONTACTS OF INSERT ARRANGEMENTS INDICATED BELOW) (APPLICABLE TO THE .096/.092 SIZE 20 DIAMETER IN DETAIL T AND THE .090/.084 DIAMETER SIZE 20 IN DETAIL U)		
SHELL SIZE	INSERT ARRANGEMENT	CONTACT CAVITIES
12	12-50	5, 6, 8, 9, 11 AND 12

TABLE 3 – SNAP RING PART NUMBERS

SHELL SIZE DASH NO.	FRONT SNAP RING	REAR SNAP RING
-3	MS16624-1062	MS16626-3059 1/
-7	MS16626-1078	MS16626-3075 1/
-12	MS16626-1093	MS16626-3087 1/
-19	MS16626-1106	MS16626-3100 1/
-27	MS16626-1118	MS16626-3112 1/
-37	MS16624-1137	MS16624-3131 1/
-61	MS16624-1168	MS16624-3162 1/

1/ EXCEPT WITH BLACK FINISH IAW MIL-PRF-46010 CLASS 2.

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81703.

1. DESIGN:

CONNECTORS AND ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 THROUGH 3 AND TABLES 1 THROUGH 3. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. TOLERANCES SHALL BE .XX = $\pm .01$ AND .XXX = $\pm .005$. ANGULAR TOLERANCES SHALL BE X DEGREES = ± 1 DEGREE 0 FEET AND X DEGREES X FEET = ± 30 FEET. COLOR BAND SHALL BE .100 INCHES WIDE MAXIMUM. BAND LOCATION MUST BE SUCH THAT IT IS VISIBLE WHEN THE CONNECTOR IS MOUNTED. FOR MATING INFORMATION, REFER TO AS34451.

	AEROSPACE STANDARD	AS34461™ SHEET 3 OF 4	REV. A
	(R) CONNECTOR, PLUG, ELECTRIC, CRIMP TYPE, RACK AND PANEL, SERIES 3 (CLASS L AND E)		