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REV.
B

AS34091™

FEDERAL SUPPLY CLASS
5935

RATIONALE

ADD LIMITED USE OF TIN/ZINC FINISH CLASS PER THE COMMITTEE'S DECISION. ADJUST ASSEMBLY NUMBERS AND BACKSHELL ASSEMBLY NUMBERS TO ALLOW THE USE OF TIN/ZINC FINISH CLASS. EDITORIAL CORRECTIONS.

NOTICE

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

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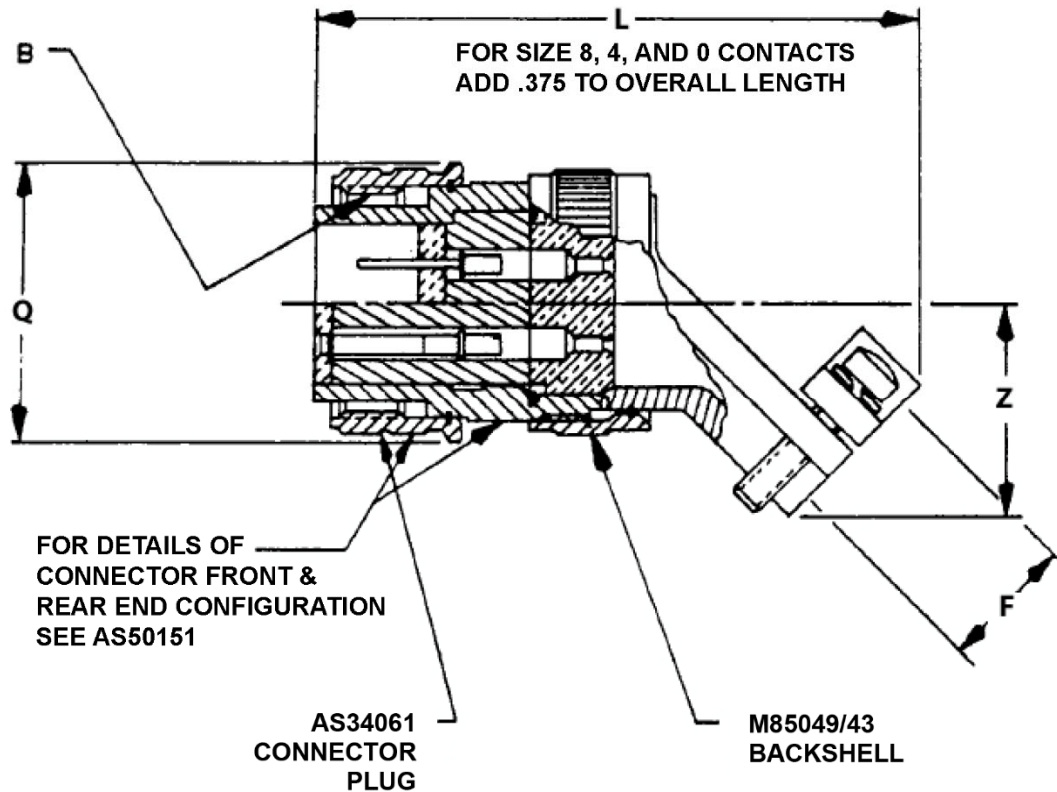
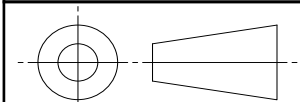


FIGURE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS (CLASS D AND DV ENVIRONMENT RESISTANT)

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34091B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

(R) CONNECTORS, PLUG, ELECTRIC,
45° ASSEMBLY, CRIMP CONTACT,
AN TYPE

AS34091™
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TABLE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS (CLASS D) 1/

ASSEMBLY NUMBER	CONNECTOR PLUG NUMBER	ADAPTER ASSEMBLY NUMBER	B THREAD CLASS 2B	F CABLE ENTRY		L MAX CLOSED	Q DIA MAX	Z MAX
				MAX	MIN			
MS3409D 8S-XX	MS3406D 8S-XX	M85049/43-8W	.500-28 UNEF	.204	.125	3.000	.844	.772
MS3409D 10S-XX	MS3406D 10S-XX	M85049/43-10W	.625-24 UNEF	.286	.187	3.062	.969	.803
MS3409D 10SL-XX	MS3406D 10SL-XX	M85049/43-10W	.625-24 UNEF	.286	.187	3.062	.969	.803
MS3409D 12S-XX	MS3406D 12S-XX	M85049/43-12W	.750-20 UNEF	.416	.291	3.125	1.062	.866
MS3409D 12-XX	MS3406D 12-XX	M85049/43-12W	.750-20 UNEF	.416	.291	3.125	1.062	.866
MS3409D 14S-XX	MS3406D 14S-XX	M85049/43-14W	.875-20 UNEF	.476	.351	3.188	1.156	.928
MS3409D 14-XX	MS3406D 14-XX	M85049/43-14W	.875-20 UNEF	.476	.351	3.188	1.156	.928
MS3409D 16S-XX	MS3406D 16S-XX	M85049/43-16W	1.000-20 UNEF	.625	.501	3.250	1.250	.991
MS3409D 16-XX	MS3406D 16-XX	M85049/43-16W	1.000-20 UNEF	.625	.501	3.250	1.250	.991
MS3409D 18-XX	MS3406D 18-XX	M85049/43-18W	1.125-18 UNEF	.706	.518	3.375	1.344	1.110
MS3409D 20-XX	MS3406D 20-XX	M85049/43-20W	1.250-18 UNEF	.831	.581	3.438	1.469	1.172
MS3409D 22-XX	MS3406D 22-XX	M85049/43-22W	1.375-18 UNEF	.956	.644	3.500	1.594	1.235
MS3409D 24-XX	MS3406D 24-XX	M85049/43-24W	1.500-18 UNEF	1.081	.706	3.500	1.719	1.297
MS3409D 28-XX	MS3406D 28-XX	M85049/43-28W	1.750-18 UNS	1.187	.750	3.625	1.969	1.543
MS3409D 32-XX	MS3406D 32-XX	M85049/43-32W	2.000-18 UNS	1.250	.875	3.750	2.219	1.668
MS3409D 36-XX	MS3406D 36-XX	M85049/43-36W	2.250-16 UN	1.375	.938	3.812	2.469	1.793
MS3409D 40-XX	MS3406D 40-XX	M85049/43-40W	2.500-16 UN	1.500	.938	3.812	2.719	1.918
MS3409D 44-XX	MS3406D 44-XX	M85049/43-44W	2.750-16 UN	1.750	1.188	4.062	2.969	2.132
MS3409D 48-XX	MS3406D 48-XX	M85049/43-48W	3.000-16 UN	1.875	1.312	4.125	3.219	2.257

1/ FOR CLASS DV, REPLACE CLASS D FOR CONNECTORS AND ASSEMBLY NO. TO DV AND W PLATING FOR BACKSHELL TO V.
CLASSES DV AND V ARE NOT APPROVED FOR NAVAIR AND AIR FORCE USE.

REQUIREMENTS:

- CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.
- DIMENSIONS ARE IN INCHES.
- UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS $\pm .016$.
- DIMENSIONING AND TOLERANCING: ASME Y14.5.
- AS50151 FRONT AND REAR RELEASE CRIMP CONTACT CONNECTORS AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE.
- UNLESS OTHERWISE SHOWN, CORRESPONDING FEATURES OF PIN AND SOCKET CONTACT CONNECTORS ARE IDENTICAL.
- THIS ASSEMBLY IS AVAILABLE ONLY WITH CLASS D, DS, OR DV CONNECTOR PLUG FOR JACKETED CABLE.
- UNIT PACKAGE SHALL BE MARKED WITH CLASS DJ, DS, OR DV PART NUMBER ONLY AS APPLICABLE. CONNECTOR SHALL BE MARKED WITH CLASS D, DS, OR DV PART NUMBER AS APPLICABLE.
- FOR INSERT ARRANGEMENTS, REFER TO MIL-STD-1651.
- THE CLASS D OR DV PART NUMBER SHALL BE AS SHOWN IN THE EXAMPLE BELOW.
- PROCUREMENT SPECIFICATION: AS50151, EXCEPT AS SPECIFIED IN THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE QUALIFIED PRODUCTS LIST (QPL-SIS) UNDER QPL-AS50151-**-SIS FOR THIS STANDARD. SEE www.NAVAIR.navy.mil/QPL FOR CURRENT QPL ONLINE.

EXAMPLE OF CONNECTOR PART NO.: MS3409D 18-11PY

MS3409		D		18	-	11	P	Y
BASIC PART NUMBER	CLASS D, DV	MATERIAL DESIGNATOR S - STAINLESS STEEL, LEAVE BLANK FOR ALUMINUM ALLOY.	SHELL SIZE	INSERT ARRANGEMENT	CONTACT DESIGNATOR	ALTERNATE INSERT POSITION W, X, Y, OR Z. - LEAVE BLANK FOR NORMAL POSITION.		

	AEROSPACE STANDARD	AS34091™ SHEET 2 OF 6	REV. B
	(R) CONNECTORS, PLUG, ELECTRIC, 45° ASSEMBLY, CRIMP CONTACT, AN TYPE		



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