



TABLE 1 - CONTACT DIMENSIONS

BIN code	A	B	C (DEG)	D DIA	E DIA	F DIA	FF DIA	G DIA	GG DIA	J DIA	K	L		
302		.201	8	.022	.020	.064 (1.63)	N/A	.0545	.050	.051	.235			
304		.190	7	.018	.037 .035	.062 (1.57)		.052	.048	.049	.215			
306		.356 .344	.252 .241	11	.032 .026	.050 .048		.103 (2.62) .100 (2.54)	.078 .075	.078 .076	.078 .076		.276 .256	
308		.257	.10			.068 .066		.133 (3.38) .130 (3.30)	.113 .110	.105 .101	.103 .101		.113 .110	.286 .266
310						.246		.102 .098	.190 (4.83) .187 (4.75)	.161 .158	.152 .148		.158 .155	.161 .158

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN code	M (REF)	N MIN DIA ONLY	P DIA	R	RR	T	U RAD	V DIA	W	APPROX. WEIGHT (LBS)			
302	.713 (18.11)	.028	.039	.254	.030 Min.	.220	.006	N/A	N/A	.00041			
304			.036	.249		.170	.004			.00035			
306	.718 (18.24)	.0415 .064	.065 .062	.259 .254		.320	.270	.009 .007	.0805 .078	.120 .114	.00062		
308			.099 .096							.012 .009	N/A N/A		.00122
310			.145 .142							.270 .250	.017 .013		

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODES	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
302	ORANGE	BLACK	RED	23	28	A	B
304	ORANGE	BLACK	YELLOW	23	22	A	B
306	ORANGE	BLACK	BLUE	20	20	A	B
308	ORANGE	BLACK	GRAY	16	16	A	B
310	ORANGE	BROWN	BLACK	12	12	A	B

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
302	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01	M81969/30-01
304	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01	M81969/30-01
306	M22520/1-01	M22520/1-08 RED	M81969/2-02	M81969/3-02	M81969/30-02
	M22520/7-01	M22520/7-09			
308	M22520/1-01	M22520/1-08 BLUE	M81969/2-03	M81969/3-03	M81969/30-03
	M22520/7-01	M22520/7-10			
310	M22520/1-01	M22520/1-08 YELLOW	M81969/2-04	M81969/3-04	M81969/30-04

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/46-302	302	M39029/46-301 MS90460A23-28 MS90460B23-28
M39029/46-304	304	M39029/46-303 MS90460A23-22 MS90460B23-22
M39029/46-306	306	M39029/46-305 MS90460A20-20 MS90460B20-20
M39029/46-308	308	M39029/46-307 MS90460A16-16 MS90460B16-16
M39029/46-310	310	M39029/46-309 MS90460A12-12 MS90460B12-12

## DETAIL SPECIFICATION REQUIREMENTS:

## 1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2. DIMENSIONS ARE IN INCHES AND SHOWN AFTER PLATING. UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029. ALL DIMENSIONS PROVIDED IN PARENTHESES ARE METRIC EQUIVALENTS AND GIVEN FOR GENERAL INFORMATION ONLY (SEE AS39029 SECTION 6).

## 2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO WIRE/CABLE AND THE INSTALLING/REMOVAL FROM THE CONNECTOR SHALL BE IN ACCORDANCE WITH TABLE 3.

## 3. PART NUMBERS:

CONTACT PART NUMBERS SHALL BE IN ACCORDANCE WITH TABLE 4. SUPERSEDED PART NUMBERS ARE AS SPECIFIED.

 An SAE International Group	<b>AEROSPACE STANDARD</b>	 <b>AS39029/46A</b> SHEET 3 OF 4
	(R) CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE (FOR MIL-C-81511 SERIES 2 CONNECTORS)	