

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-39029/46C, AMENDMENT 1, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-39029/46C, AMENDMENT 1, NOTICE 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

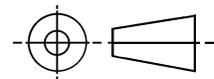
UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

AS39029/46

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

SAENORM.COM : Click to view the full PDF of as39029 - 46

THIRD ANGLE PROJECTION



ISSUED 2001-03

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE (FOR MIL-C-81511
SERIES 2 CONNECTORS)

AS39029/46
SHEET 1 OF 5

AS39029/46

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 .018	.064 (1.63)		.0545	.050	.051	.235	
304		.190	7	.018	.037 .035	.062 (1.57)	N/A	.052	.048	.049	.215	.006
306	.356 .344	.252 .241			.050 .048	.103 (2.62) .100 (2.54)		.078 .075	.078 .076	.078 .076	.276 .256	.003
308		.257	11 .10	.032 .026	.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	.296 .276	.010 .005

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		.220	.006	N/A	N/A	.00041
304			.036	.249		.170	.004			.00035
306		.0415	.065 .062		.030 Min.	.320	.009 .007	.0805 .078	.120 .114	.00062
308	.718 (18.24)	.064	.099 .096	.259 .254		.270	.012 .009		N/A N/A	.00122
310		.0955	.145 .142			.270 .250	.017 .013			.00240

FIGURE 1. CONNECTOR CONTACT - CONTINUED.

REQUIREMENTS:

Dimensions, design characteristics, and configuration: See figure 1 and table I.

Tools: See table II.

Vibration: Method 2005 of MIL-STD-1344, test condition IV.

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition A.

Mating contact: MIL-C-39029/47 and MIL-C-39029/18.

NOTE: For MIL-C-81511 connectors, series 1 is intermateable with series 3 and series 2 is intermateable with series 4. The respective contacts for these connectors are required to be intermateable but are not interchangeable.

QPL evaluating activity: Naval Avionics Center, Code B-714, Indianapolis, Indiana 46218.

Military part number: See table III.

TABLE I. DESIGN CHARACTERISTICS.

BIN code	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	15	A	B
310	Orange	Brown	Black	12	12	A	B

TABLE II. TOOLS.

BIN code	Basic crimping tool	Positioner	Installing tool	Removal tool
302	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01
304	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01
306	M22520/1-01 M22520/7-01	M22520/1-08 Red M22520/7-09	M81969/2-02	M81969/3-02
308	M22520/1-01 M22520/7-01	M22520/1-08 Blue M22520/7-10	M81969/2-03	M81969/3-03
310	M22520/1-01	M22520/1-08 Yellow	M81969/2-04	M81969/3-04