

REV.
A

SAE AS39029/12

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, REMOVE GOVERNMENT JARGON, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS39029.

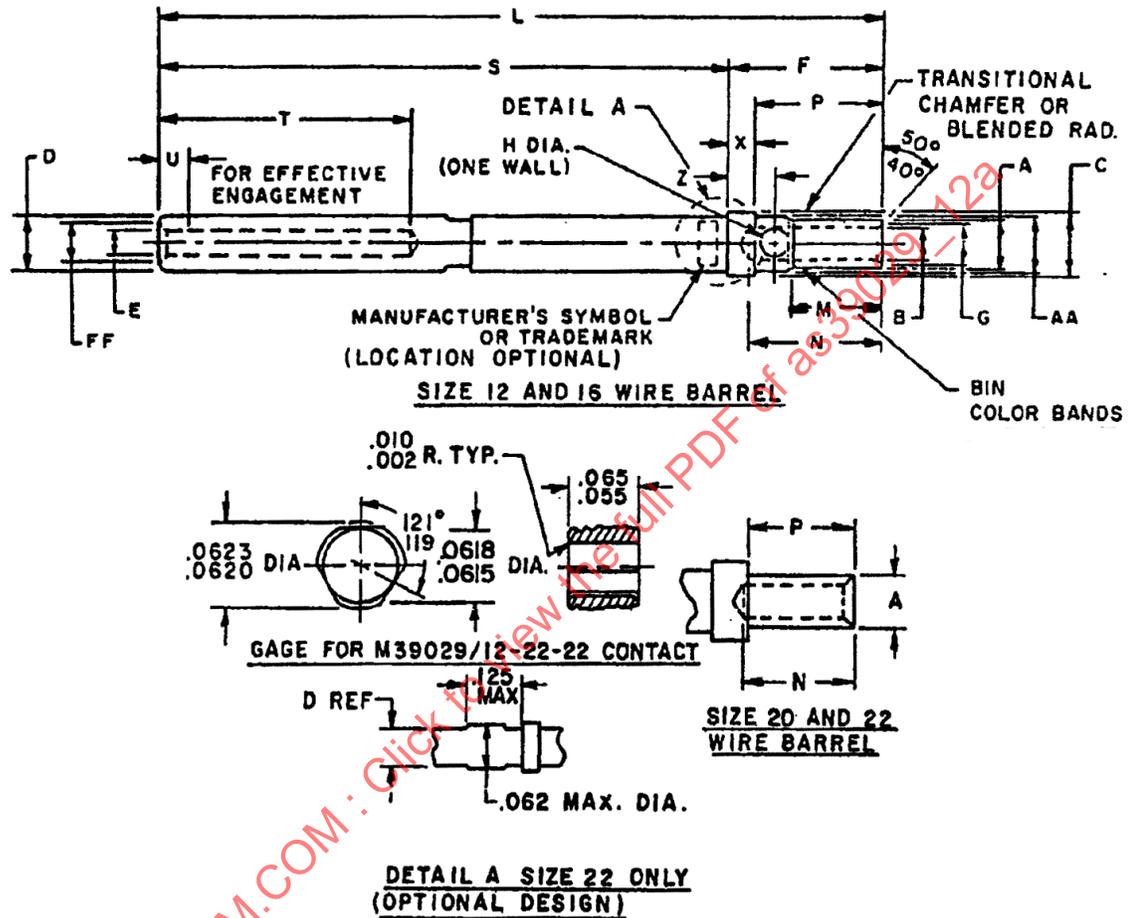
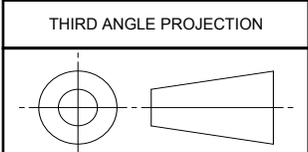


FIGURE 1 – SOCKET CONTACT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/12A>



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, (FOR AS81659 SERIES 2 CONNECTORS)

SAE AS39029/12
SHEET 1 OF 4

REV. A

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ISSUED 2001-03 REVISED 2011-06

TABLE 1 – DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	D DIA	E DIA MIN	F	G DIA	H DIA	L (REF)
148 (22-22)	.052 (1.32)	.0375 (.953)	.070 (1.57)	.061 (1.55)	.031 (.787)	.271 (6.88)	.047 (1.19)	.022 (.559)	.650 (16.51)
	.050 (1.27)	.0340 (.864)	.068 (1.73)	.059 (1.50)		.260 (6.60)	.041 (1.04)	.018 (.457)	.630 (16.00)
149 (20-20)	.068 (1.73)	.0460 (1.17)	.084 (2.13)	.074 (1.88)	.0415 (1.05)	.199 (5.05)	.058 (1.47)	.033 (.838)	.918 (23.32)
	.065 (1.65)	.0430 (1.09)	.082 (2.08)	.068 (1.73)		.184 (4.67)	.052 (1.32)	.025 (.635)	.898 (22.81)
150 (16-16)	.103 (2.62)	.068 (1.73)	.134 (3.40)	.113 (2.87)	.064 (1.63)	.305 (7.75)	.090 (2.29)	.042 (1.07)	.982 (24.94)
	.101 (2.57)	.066 (1.68)	.130 (3.30)	.110 (2.79)		.289 (7.34)	.080 (2.03)	.036 (.914)	.952 (24.18)
151 (12-12)	.151 (3.84)	.102 (2.59)	.190 (4.83)	.161 (4.09)	.0955 (2.43)	.305 (7.75)	.140 (3.56)	.042 (1.07)	.982 (24.94)
	.148 (3.76)	.098 (2.49)	.186 (4.72)	.158 (4.01)		.289 (7.34)	.130 (3.30)	.036 (.914)	.952 (24.18)

TABLE 1 – DIMENSIONS (CONTINUED)

BIN CODE	M MIN	N	P	S	T MIN	U MAX	X	Z	AA DIA	FF MIN
148 (22-22)	N/A	.165 (4.19)	.237 (6.02)	.379 (9.63)	.200	.043	.034 (.864)	.161 (4.09)	N/A	.043 (1.09)
		.135 (3.43)	.231 (5.87)	.370 (9.40)			.029 (.737)	.132 (3.35)		
149 (20-20)	N/A	.190 (4.83)	.165 (4.19)	.719 (18.26)	.325	.041	.034 (.864)	.069 (1.75)	N/A	.056 (1.42)
		.150 (3.81)	.155 (3.94)	.714 (18.14)			.029 (.737)	.054 (1.37)		
150 (16-16)	.150 (3.81)	.290 (7.37)	.257 (6.53)	.677 (17.20)	.468	.060	.048 (1.22)	.083 (2.11)	.111 (2.82)	.086 (2.18)
		.250 (6.35)	.245 (6.22)	.653 (16.59)			.044 (1.12)	.069 (1.75)	.107 (2.72)	
151 (12-12)	.150 (3.81)	.290 (7.37)	.257 (6.53)	.677 (17.20)	.468	.060	.048 (1.22)	.083 (2.11)	.158 (4.01)	.116 (2.95)
		.250 (6.35)	.245 (6.22)	.653 (16.59)			.044 (1.12)	.069 (1.75)	.155 (3.94)	

TABLE 2 – DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
148	BROWN	YELLOW	GRAY	22	22	A	B
149	BROWN	YELLOW	WHITE	20	20		
150	BROWN	GREEN	BLACK	16	16		
151	BROWN	GREEN	BROWN	12	12		

TABLE 3 – TOOLS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
148	M22520/2-01	M22520/2-23	M81969/1-01	M81969/1-01
149	M22520/2-01 M22520/7-01	M22520/2-08 M22520/7-02	M81969/1-02	M81969/1-02
150	M22520/1-01 M22520/7-01	M22520/1-02 (BLUE) M22520/7-03	M81969/1-03	M81969/1-03
151	M22520/1-01	M22520/1-11	-----	M81969/28-02

TABLE 4 – PART NUMBER

BIN CODE	PART NUMBER	SUPERSEDED PART NUMBER
148	M39029/12-148	M39029/12-22-22
149	M39029/12-149	M39029/12-20-20
150	M39029/12-150	M39029/12-16-16
151	M39029/12-151	M39029/12-12-12

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS39029.

1. DESIGN:

CONTACTS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY. DIMENSIONS SHOWN APPLY AFTER PLATING.

2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO THE 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.

4. MATERIALS:

MATERIALS SHALL BE IN ACCORDANCE WITH SAE AS39029.

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	(R) CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, (FOR AS81659 SERIES 2 CONNECTORS)		