

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY SINCE 1988, INCORPORATES VARIOUS AMENDMENTS, REMOVE GOVERNMENT JARGON AS A RESULT OF THE WORD-FOR-WORD TRANSFERENCE OF AS39029 TO SAE, UPDATE SPECIFICATION REFERENCES, ALIGN SPECIFICATIONS WITH SAE GUIDELINES AS NEEDED, AND REVIEW SPECIFICATIONS FOR KNOWN TECHNICAL PROBLEMS.

NOTICE

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

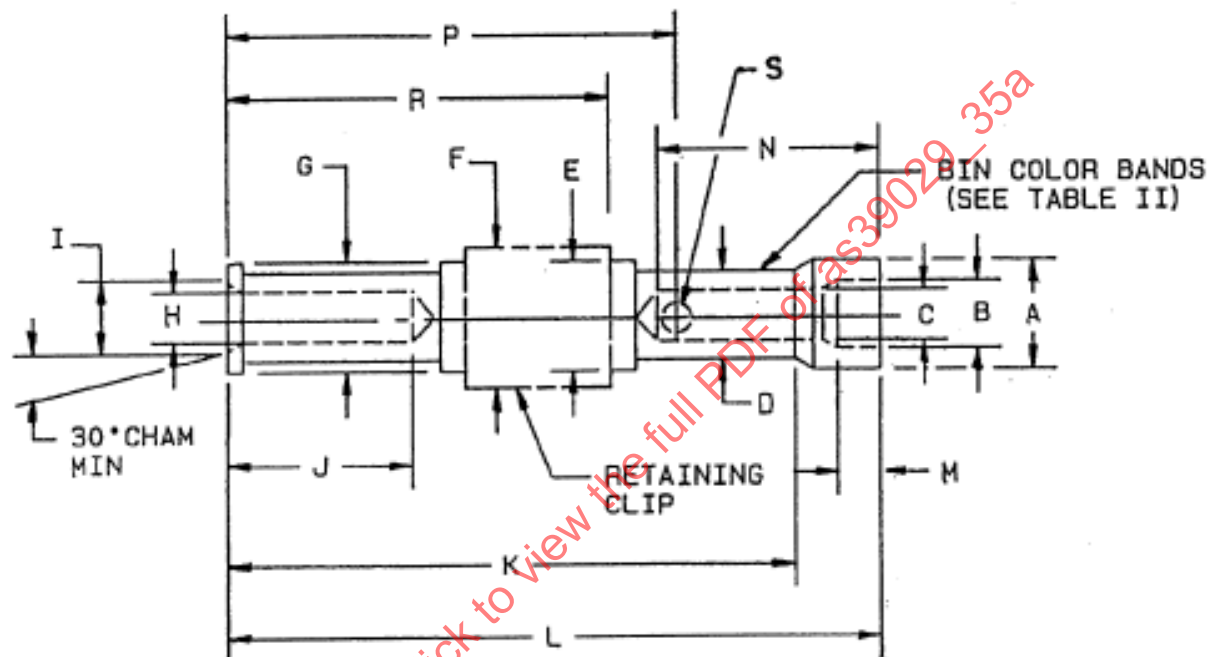
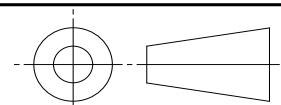


FIGURE 1 - AS39029/35 SOCKET CONTACT

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE (FOR MIL-DTL-28748/3
AND MIL-C-28748/13 CONNECTORS)

SAE AS39029/35A
SHEET 1 OF 4

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TABLE 1- CONTACT DIMENSIONS

BIN code	A Dia	B Dia	C Dia	D Dia	E Dia	F Dia	G Dia	H Dia	I Dia	J	K	L	M	N	P	R	S Dia 1/
274	.121 (3.07)	.070 (1.78)	.048 (1.22)	.079 (2.01)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.0415 (1.054)	.096 (2.44)	.312 (7.92)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.067 (1.70)	.044 (1.12)	.076 (1.93)	max	max	max		.090 (2.29)	.282 (7.16)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
275	.121 (3.07)	.070 (1.78)	.048 (1.22)	.079 (2.01)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.064 (1.63)	.096 (2.44)	.312 (7.92)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.067 (1.70)	.044 (1.12)	.076 (1.93)	max	max	max		.090 (2.29)	.282 (7.16)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
276	.121 (3.07)	.095 (2.41)	.070 (1.78)	.112 (2.84)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.064 (1.63)	.096 (2.44)	.312 (7.92)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.092 (2.34)	.066 (1.68)	.109 (2.77)	max	max	max		.090 (2.29)	.282 (7.16)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
441	.077 (1.96)	.057 (1.45)	.037 (0.94)	.070 (1.78)	.077 (1.96)	.078 (1.98)	.061 (1.55)	.032 (.81)	.050 (1.27)	.077 (1.96)	.426 (10.82)	.464 (11.79)	.045 (1.14)	.145 (3.68)	.350 (8.89)	.288 (7.32)	.023 (.58)
	.074 (1.88)	.054 (1.37)	.034 (0.86)	.067 (1.70)	.074 (1.88)	max	max		.044 (1.12)	.175 (4.44)	.406 (10.31)	.444 (11.28)	.025 (.64)	.125 (3.18)	.330 (8.38)	.268 (6.81)	.017 (.43)

1/ Hole - one wall locate on axial C_L within $\pm .008$ (.20 mm).

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN code	Color bands			Mating end size	Wire barrel size	Type	Class
	1st	2nd	3rd				
274	Red	Violet	Yellow	20	20	A	A
275	Red	Violet	Green	16	20		
276	Red	Violet	Blue	16	16		
441	Yellow	Yellow	Brown	22	22		

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
274	M22520/1-01	M22520/1-03 RED	M81969/18-01	M81969/20-01
275	M22520/1-01	M22520/1-03 BLUE	M81969/18-01	M81969/20-01
276	M22520/1-01	M22520/1-03 BLUE	M81969/18-01	M81969/20-01
441	M22520/2-01	K280 1/ OR 64092 2/ OR EQUIVALENT	M81969/18-02	M81969/20-02

1/ DANIEL MANUFACTURING CORPORATION PART NUMBER

2/ ASTRO TOOL CORPORATION PART NUMBER

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/35-274	274	MS17804-20-20
M39029/35-275	275	MS17804-16-20
M39029/35-276	276	MS17804-16-16
M39029/35-441	441	M39029/35-22-22

DETAIL SPECIFICATION REQUIREMENTS:

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2. WALL THICKNESS OF ANY PART OF THE CONTACT SHALL NOT BE LESS THAN 0.010 (0.25 MM). DIMENSIONS ARE IN INCHES AND SHOWN AFTER PLATING. UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029. ALL DIMENSIONS IN PARENTHESES ARE METRIC EQUIVALENTS AND PROVIDED 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.