

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.

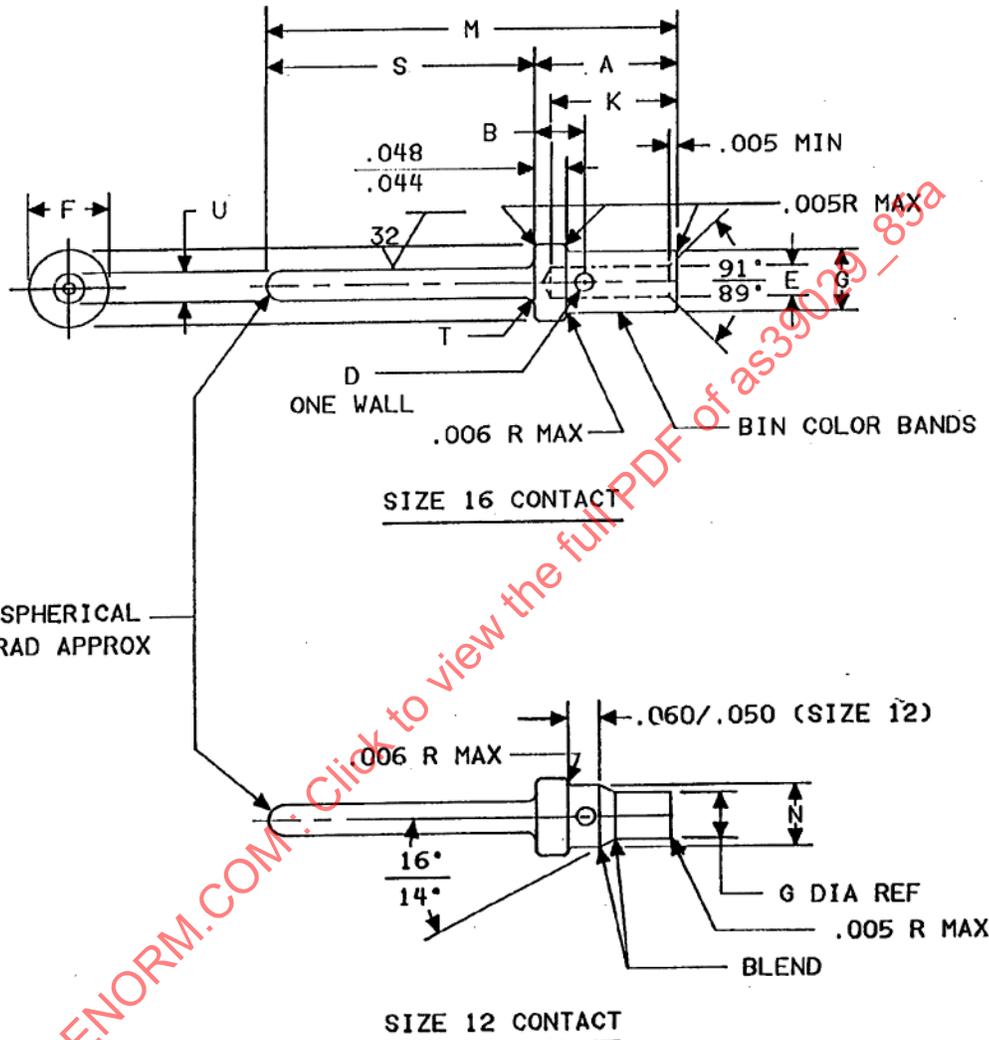
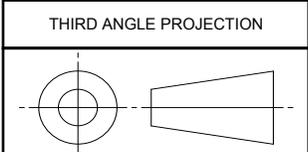


FIGURE 1 - PIN CONTACTS

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/85A>



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, THERMOCOUPLE (FOR AS50151 AS34501 SERIES AND MIL-DTL-83723 SERIES II CONNECTORS)

SAE AS39029/85
SHEET 1 OF 4

REV. A

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ISSUED 2000-07 REVISED 2011-01

TABLE 1 - DIMENSIONS

BIN CODE	A	B	D DIA	E DIA	F DIA	G DIA	K	M REF	N DIA	S	T MAX	U DIA
454 THRU 457	.300 (7.62)	.079 (2.01)	.042 (1.07)	.068 (1.73)	.133 (3.38)	.103 (2.62)	.280 (7.11)	.923 (23.44)	N/A	.631 (16.03)	.015 (.38)	.0635 (1.61)
				.066 (1.68)	.130 (3.30)	.101 (2.57)				.619 (15.72)		.0615 (1.56)
458 THRU 461	.290 (7.37)	.073 (1.85)	.036 (.91)	.102 (2.59)	.189 (4.80)	.150 (3.81)	.250 (6.35)	1.110 (28.19)	.160 (4.06)	.819 (20.80)		.095 (2.41)
				.098 (2.49)	.186 (4.72)	.147 (3.73)				.155 (3.94)		.808 (20.52)

TABLE 2 - DESIGN CHARACTERISTICS

BIN CODES	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
454	YELLOW	GREEN	YELLOW	16	16	(SEE TABLE 4)	B
455	YELLOW	GREEN	GREEN	16	16		B
456	YELLOW	GREEN	BLUE	16	16		B
457	YELLOW	GREEN	VIOLET	16	16		B
458	YELLOW	GREEN	GRAY	12	12		B
459	YELLOW	GREEN	WHITE	12	12		B
460	YELLOW	BLUE	BLACK	12	12		B
461	YELLOW	BLUE	BROWN	12	12		B

TABLE 3 - TOOLS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING/REMOVAL TOOL
454 thru 457	M22520/1-01 M22520/7-01	M22520/1-02 BLUE M22520/7-03	M81969/14-03
458 thru 461	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04

TABLE 4 - MATERIALS, PLATING, AND TENSILE STRENGTH

BIN CODE	MATERIALS	PLATING	TENSILE STRENGTH ^{1/}					
			WIRE SIZE	AXIAL LOAD (LBS)	WIRE SIZE	AXIAL LOAD (LBS)	WIRE SIZE	AXIAL LOAD (LBS)
454	JN	NONE	20	14	18	23	16	33
455	KN	NONE						
456	KP	NONE						
457	JP	CADMIUM PLATE 2/						
458	JN	NONE	N/A	N/A	14	53	12	85
459	KN	NONE						
460	KP	NONE						
461	JP	CADMIUM PLATE 2/						

1/ APPLIES TO TYPE 1 WIRE PER MIL-DTL-5846

2/ CHROMATE CLEAR COAT

TABLE 5 - PART NUMBER AND BIN CODE

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/85-454	454	M39029/851616C1
M39029/85-455	455	M39029/851616C2
M39029/85-456	456	M39029/851616C3
M39029/85-457	457	M39029/851616C4
M39029/85-458	458	M39029/851212C1
M39029/85-459	459	M39029/851212C2
M39029/85-460	460	M39029/851212C3
M39029/85-461	461	M39029/851212C4

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, TABLES 1 AND 2. DIMENSIONS ARE IN INCHES, METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY. DIMENSIONS SHOWN APPLY AFTER PLATING. SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029.

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 5. SUPERSEDED PART NUMBERS ARE AS SPECIFIED.

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	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, THERMOCOUPLE (FOR AS50151 AS34501 SERIES AND MIL-DTL-83723 SERIES II CONNECTORS)		