

REV.
A

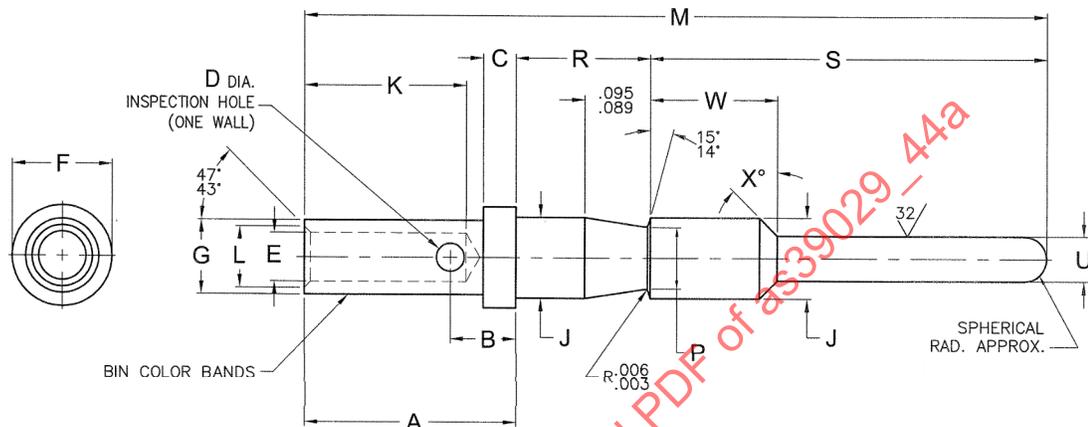
SAE AS39029/44

RATIONALE

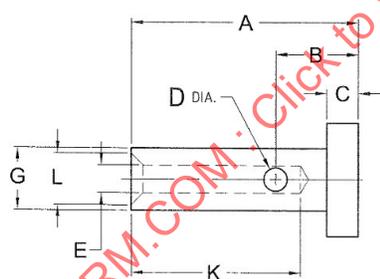
REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY SINCE 1988, INCORPORATES VARIOUS AMENDMENTS, CORRECT THE "W" DIMENSION, REMOVE GOVERNMENT JARGON AS A RESULT OF THE WORD-FOR-WORD TRANSFERENCE OF AS39029 TO SAE, UPDATE SPECIFICATION REFERENCES, AND ALIGN SPECIFICATIONS WITH SAE GUIDELINES.

NOTICE

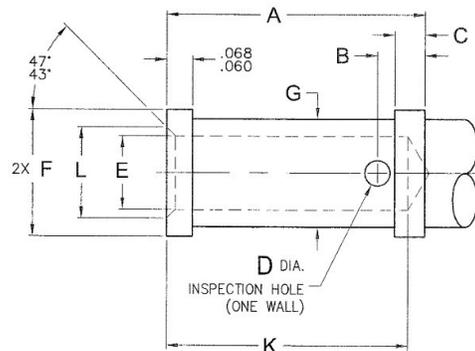
THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS39029.



PIN INTERFACE DESIGN FOR ALL BIN CODES
WIRE BARREL DESIGN FOR BIN CODES 288 THRU 290 (SIZES 16 AND 12 CONTACTS)



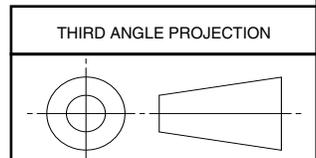
WIRE BARREL DESIGN
BIN CODE 287 (16-22)



WIRE BARREL DESIGN
BIN CODES 291-293 (SIZES 8, 4, 0)

FIGURE 1 - PIN CONTACT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/44>



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-5015 SERIES MS3400 CONNECTORS)

SAE AS39029/44
SHEET 1 OF 4

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TABLE 1 - CONTACT D SIZE DIMENSIONS

BIN Code	E Dia	F Dia	J Dia	M Ref	P Dia	R	S	U Dia	W	X*	A	B	C	D Dia	G Dia	K	L
287	0.0355	0.148 (3.76)	0.113	1.159	0.087		0.694	0.0635			0.285	0.106	0.042	0.032	0.078	0.216	0.067
	0.280										0.100	0.036	0.026	0.076	0.206	0.061	
288	0.068	0.133 (3.38)	0.110	1.172 (29.77)	0.083		0.684	0.0615			0.298	0.079		0.042	0.105	0.281	0.090
289	0.066														0.101		
290	0.102	0.202 (5.13)	0.161	1.360 (34.54)	0.135			0.095	0.183	50	0.294	0.073		0.036	0.153	0.250	0.125
	0.098																
291	0.184	0.313 (7.95)	0.252		0.225	0.189	0.882								0.269	0.534	0.230
	0.179																
292	0.286	0.419	0.336	1.579 (40.11)	0.310			0.226			0.520		0.048	0.044	0.263	0.534	0.220
293	0.458	0.611	0.518	1.733 (44.02)	0.492	0.253	0.817				0.118	28			0.380	0.480	0.364
	0.451																
								0.358			0.675				0.568	0.690	0.542
								0.356			0.665				0.558	0.636	0.532

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN Codes	Color Bands			Mating End Size	Wire Barrel Size	Type Size	Class
	1st	2nd	3rd				
287	Red	Gray	Violet	16	22	A	B
288	Red	Gray	Gray	16	16		
289	Red	Gray	White	12	16		
290	Red	White	Black	12	12		
291	Red	White	Brown	8	8		
292	Red	White	Red	4	4		
293	Red	White	Orange	0	0		

1/ BIN 289 SHALL MEET ALL APPLICABLE TEST REQUIREMENTS FOR SIZE 12-14

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	DIE SET	LOCATOR	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
287 1/	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-09	M81969/19-01
288	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-04	M81969/19-01
289	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-04	M81969/19-02
290	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-05	M81969/19-02
291	M22520/23-01	M22520/23-02	M22520/23-09	---	M81969/17-06	M81969/19-03
292	M22520/23-01	M22520/23-04	M22520/23-11	---	M81969/17-07	M81969/19-04
293	M22520/23-01	M22520/23-05	M22520/23-13	---	M81969/17-08	M81969/19-05

1/ USED SELECTOR NUMBER 3, 2, 1 FOR WIRE SIZE 22, 24, 26 RESPECTIVELY

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/44-287	287	MS90453-16-22
M39029/44-288	288	MS90453-16-16
M39029/44-289	289	MS90453-12-16
M39029/44-290	290	MS90453-12-12
M39029/44-291	291	MS90453-8-8
M39029/44-292	292	MS90453-4-4
M39029/44-293	293	MS90453-0-0

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 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.

 An SAE International Group	AEROSPACE STANDARD	SAE AS39029/44 SHEET 3 OF 4	REV. A
	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-5015 SERIES MS3400 CONNECTORS)		