

REV.
A

SAE AS39029/54

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, REMOVE GOVERNMENT JARGON, ADD QUALIFICATION REQUIREMENTS, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES, AND REVIEW SPECIFICATION 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.

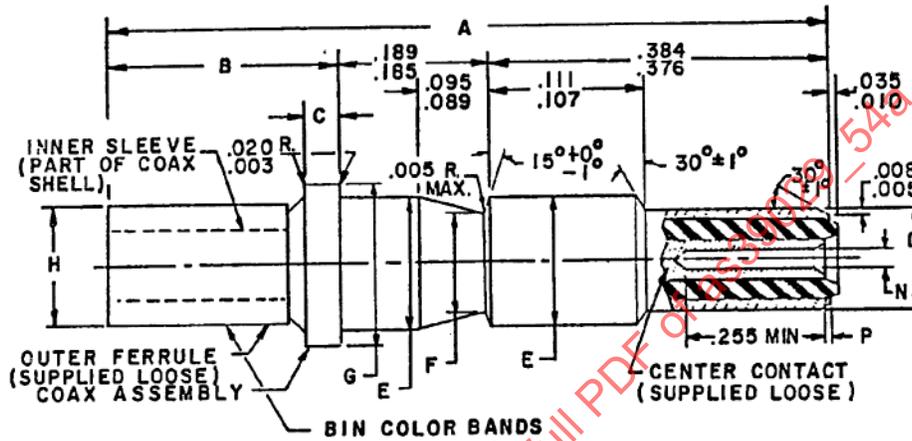
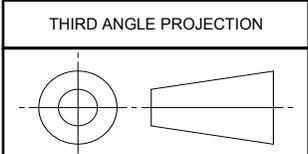


FIGURE 1 – CONNECTOR CONTACT

SAENORM.COM : Click to view the full PDF of SAE AS39029/54

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/54>



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD
(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, SHIELDED (FOR MIL-DTL-26500 AND MIL-DTL-26518 CONNECTORS)

SAE AS39029/54
SHEET 1 OF 4

REV.
A

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.

ISSUED 2000-07 REAFFIRMED 2007-01 REVISED 2010-11

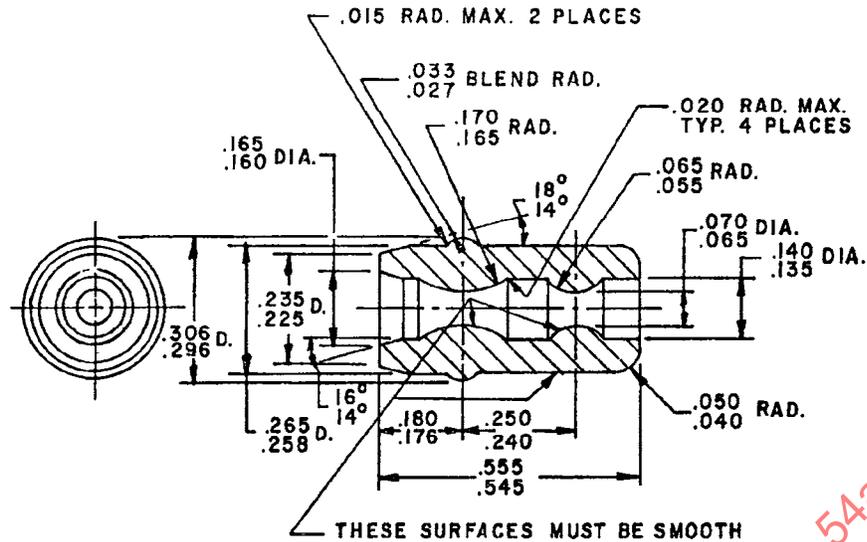


FIGURE 2 – BOOT, SEALING

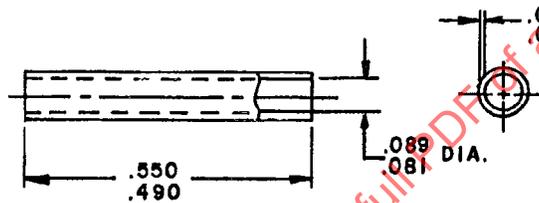


FIGURE 3 – SLEEVE, SEALING, COAXIAL CABLE

TABLE 1 – DIMENSIONS

BIN CODE	A (REF)	B MAX	C	D DIA	E DIA	F DIA	G DIA	H MAX DIA	N DIA	P
342	.865 (21.97)	.298 (7.57)	.062 (1.57)	.124 (3.15)	.161 (4.09)	.135 (3.43)	.202 (5.13)	.154 (3.91)	.028 (.71)	.066 (1.68)
			.044 (1.12)	.122 (3.10)	.158 (4.01)	.131 (3.33)	.196 (4.98)		.026 (.66)	.020 (.51)
343	.865 (21.97)	.298 (7.57)	.050 (1.27)	.215 (5.46)	.252 (6.40)	.226 (5.74)	.313 (7.95)	.195 (4.95)	.045 (1.14)	.016 (.41) RECESSED
			.044 (1.12)	.213 (5.41)	.249 (6.32)	.221 (5.61)	.309 (7.85)		.043 (1.09)	.010 (.25) PROTRUSION

TABLE 2 – DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CONTACT CAVITY SIZE	CABLE ACCOMMODATED	TYPE	CLASS
	1ST	2ND	3RD				
342	ORANGE	YELLOW	RED	12	M27500-22RE1N06	D	A
343	ORANGE	YELLOW	ORANGE	8	M27500-20RE1N06		

TABLE 3 – TOOLS

BIN CODE	INNER CONTACT		OUTER CONTACT		INSTALLING TOOL ^{1/}	REMOVAL TOOL ^{1/}
	BASIC CRIMPING TOOL	POSITIONER	BASIC CRIMPING TOOL	CRIMPING DIE		
342	M22520/2-01	M22520/2-33	M22520/5-01 M22520/10-01	M22520/5-08 M22520/10-05(A)	M81969/17-05	M81969/19-09
343	M22520/2-01	M22520-2-24	M22520/5-01 M22520/10-01	M22520/5-10 M22520/10-06	M81969/17-06	M81969/19-03

^{1/} INSTALLING AND REMOVAL TOOLS SHOWN ARE FOR MIL-DTL-26500 CONNECTOR APPLICATIONS. WHEN THESE CONTACTS ARE USED IN OTHER APPLICATIONS, USE CONNECTOR MANUFACTURER'S RECOMMENDATION FOR INSTALLING AND REMOVAL TOOLS.

TABLE 4 – PART NUMBER

BIN CODE	PART NUMBER	SUPERSEDED PART NUMBER
342	M39029/54-342	MS27184-22P
343	M39029/54-343	MS27184-20P

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

1. DESIGN:

CONTACTS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1, 2 AND 3, AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES, METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY. DIMENSIONS SHOWN APPLY AFTER PLATING. BOOT SEALING: ALL DIMENSIONS ARE AFTER CURING, ALL DIAMETERS SHALL BE CONCENTRIC WITHIN .004 T.I.R. RADII SHALL BE .008 MAXIMUM UNLESS OTHERWISE SPECIFIED. SLEEVE SEALING: COLOR, WHITE.

2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO 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 AND PLATING SHALL BE IN ACCORDANCE WITH AS39029. BOOTS AND SLEEVE SEALING: PARTS MUST BE FREE OF FLASH, CRACKS OR CAVITIES (SEE FIGURE 2), BOOTS SEALING: IMMEDIATELY AFTER MOLDING, CURE BOOTS, SLEEVE SEALING MATERIAL: FLEXITE SR200 SILICONE RUBBER EXTRUDED TUBING PER A-A-59588 CLASS 2B, OR EQUIVALENT STANDARD WALL (SEE FIGURE 3).

5. MECHANICAL:

MECHANICAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.

6. ELECTRICAL:

ELECTRICAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.