

SAE Executive Standards Committee 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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.
E

AS39029™/5

FEDERAL SUPPLY CLASS
5999

RATIONALE

REVISION IS REQUIRED TO CORRECT THE AS39029/5A REVISION ERROR FOR THE BIN CODE 115 Y DIMENSION MINIMUM VALUE, .068-.063 SHOULD BE .068-.053.

AS39029/5E HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS39029.

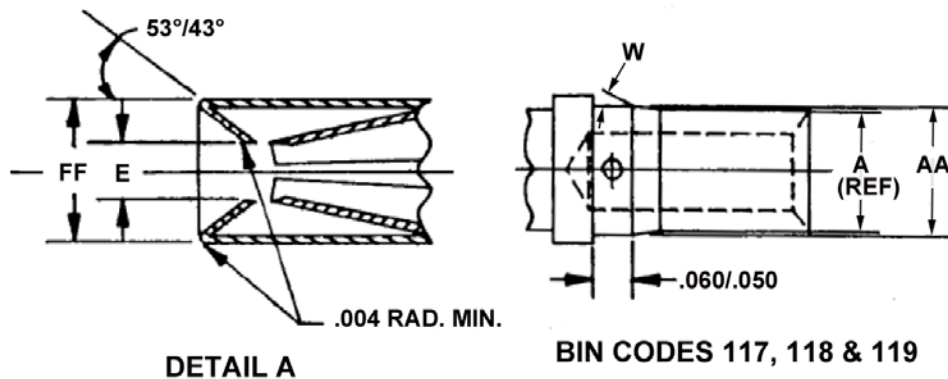
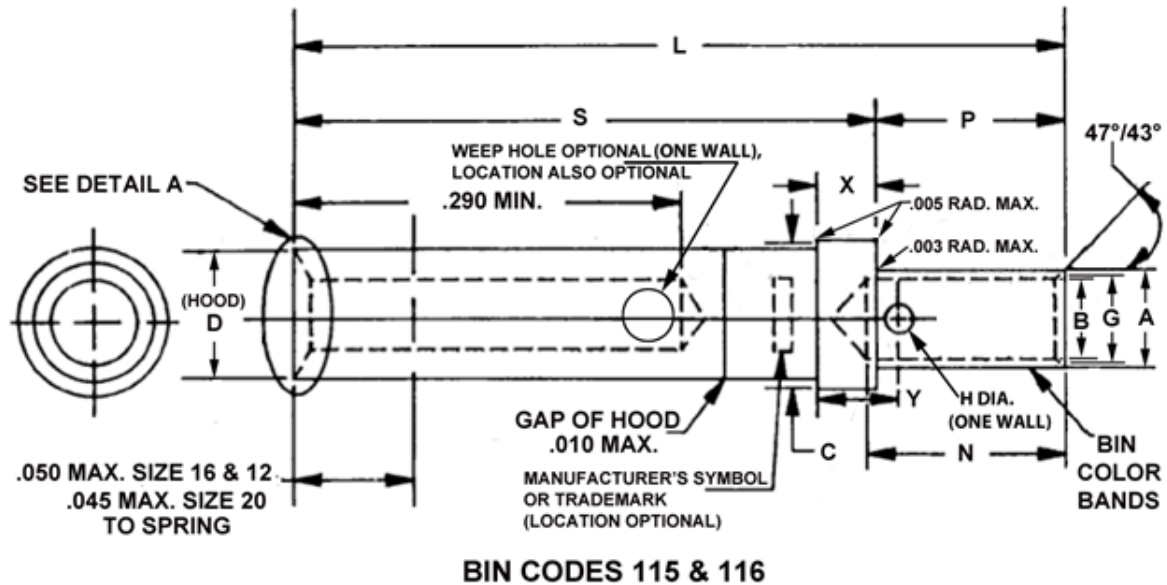
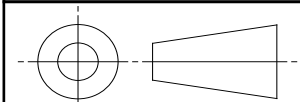


FIGURE 1 - AS39029/5 SOCKET CONTACT CONFIGURATIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/5E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP
REMOVABLE (FOR MIL-DTL-26482 SERIES 2, AS81703
SERIES 3, MIL-DTL-83723 SERIES I AND III, MIL-DTL-83733
CONNECTORS, MIL-DTL-12883/40, AND /41 RELAY SOCKETS)

AS39029™/5
SHEET 1 OF 3

REV.
E

Documents

Copyright © 2023 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCH	MILLIMETER	INCH	MILLIMETER	INCH	MILLIMETERS	INCH	MILLIMETERS
.003	0.08	.005	0.13	.045	1.14	.060	1.52
.004	0.10	.010	0.25	.050	1.27	.290	7.37

TABLE 2 - CONTACT DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	D DIA	E MIN DIA	G DIA	H DIA	L MAX (REF)	N	P	S	W°	X	Y	AA	FF MIN DIA	WEIGHT (LB NOMINAL)	Q	R
115	.078 (1.98)	.050 (1.27)	.103 (2.62)	.078 (1.98)	.0415 (1.05)	.066 (1.68)	.032 (0.81)	.675 (17.15)	.187 (4.75)	.171 (4.34)	.485 (12.32)		.033 (0.84)	.068 (1.73)		.060 (1.52)	.0007 (.0003 KG)	.032 (0.81)	.051 (1.30)
	.076 (1.93)	.048 (1.22)	.100 (2.54)	.076 (1.93)		.056 (1.42)	.026 (0.66)		.155 (3.94)	.160 (4.06)	.479 (12.17)	--	.029 (0.74)	.053 (1.35)	--			.026 (0.66)	.026 (0.66)
116	.103 (2.62)	.068 (1.73)	.133 (3.38)	.113 (2.87)	.064 (1.63)	.092 (2.34)	.042 (1.07)	.759 (19.28)	.284 (7.21)	.257 (6.53)	.500 (12.70)		.048 (1.22)	.085 (2.16)		.087 (2.21)	.0014 (.0006 KG)	--	--
	.101 (2.57)	.066 (1.68)	.130 (3.30)	.110 (2.79)		.078 (1.98)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.494 (12.55)	--	.044 (1.12)	.068 (1.73)	--				
117	.078 (1.98)	.050 (1.27)	.133 (3.38)	.113 (2.87)	.064 (1.63)	.066 (1.68)	.042 (1.07)	.759 (19.28)	.284 (7.21)	.257 (6.53)	.500 (12.70)	46	.048 (1.22)	.085 (2.16)	.103 (2.62)	.087 (2.21)	--	--	--
	.076 (1.93)	.048 (1.22)	.130 (3.30)	.110 (2.79)		.056 (1.42)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.494 (12.55)	44	.044 (1.12)	.068 (1.73)	.101 (2.57)				
118	.151 (3.84)	.102 (2.59)	.190 (4.83)	.161 (4.09)	.0955 (2.43)	.136 (3.45)	.042 (1.07)	.759 (19.28)	.284 (7.21)	.257 (6.53)	.500 (12.70)	16	.048 (1.22)	.085 (2.16)	.158 (4.01)	.125 (3.18)	.0028 (.0013 KG)	--	--
	.148 (3.76)	.098 (2.49)	.187 (4.75)	.158 (4.01)		.116 (2.95)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.494 (12.55)	14	.044 (1.12)	.068 (1.73)	.155 (3.94)				
119	.103 (2.62)	.068 (1.73)	.190 (4.83)	.161 (4.09)	.0955 (2.43)	.092 (2.34)	.042 (1.07)	.759 (19.28)	.284 (7.21)	.257 (6.53)	.500 (12.70)	46	.048 (1.22)	.085 (2.16)	.158 (4.01)	.125 (3.18)	--	--	--
	.101 (2.57)	.066 (1.68)	.187 (4.75)	.158 (4.01)		.078 (1.98)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.494 (12.55)	44	.044 (1.12)	.068 (1.73)	.155 (3.94)				

TABLE 3 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
115	BROWN	BROWN	GREEN	20	20	A	B
116	BROWN	BROWN	BLUE	16	16		
117	BROWN	BROWN	VIOLET	16	20		
118	BROWN	BROWN	GRAY	12	12		
119	BROWN	BROWN	WHITE	12	16		

TABLE 4 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
115	M22520/1-01 OR M22520/2-01 OR M22520/7-01	M22520/1-02 RED OR M22520/2-02 OR M22520/7-02	M81969/14-11 OR M81969/8-05	M81969/14-11 OR M81969/8-06	M81969/30-05
	M22520/1-01 OR M22520/7-01	M22520/1-02 BLUE OR M22520/7-03	M81969/14-03 OR M81969/8-07	M81969/14-03 OR M81969/8-08	M81969/30-06
	M22520/1-01 OR M22520/7-01	M22520/1-02 BLUE OR M22520/7-03	M81969/14-03 OR M81969/8-207	M81969/14-03 OR M81969/8-208	M81969/30-06
118	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04 OR M81969/8-09	M81969/14-04 OR M81969/8-210	M81969/30-07
			M81969/14-04 OR M81969/8-209	M81969/14-04 OR M81969/8-210	M81969/30-07



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP
REMOVABLE (FOR MIL-DTL-26482 SERIES 2, AS81703
SERIES 3, MIL-DTL-83723 SERIES I AND III, MIL-DTL-83733
CONNECTORS, MIL-DTL-12883/40, AND /41 RELAY SOCKETS)

AS39029™/5
SHEET 2 OF 3

REV.
E



Documents

Document Sharing Hub