

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.
C

AS39029™/21

FEDERAL SUPPLY CLASS
5999

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO UPDATE THE TOOL TABLE AND CORRECT MINOR TECHNICAL ERRORS AS NEEDED.

NOTICE

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

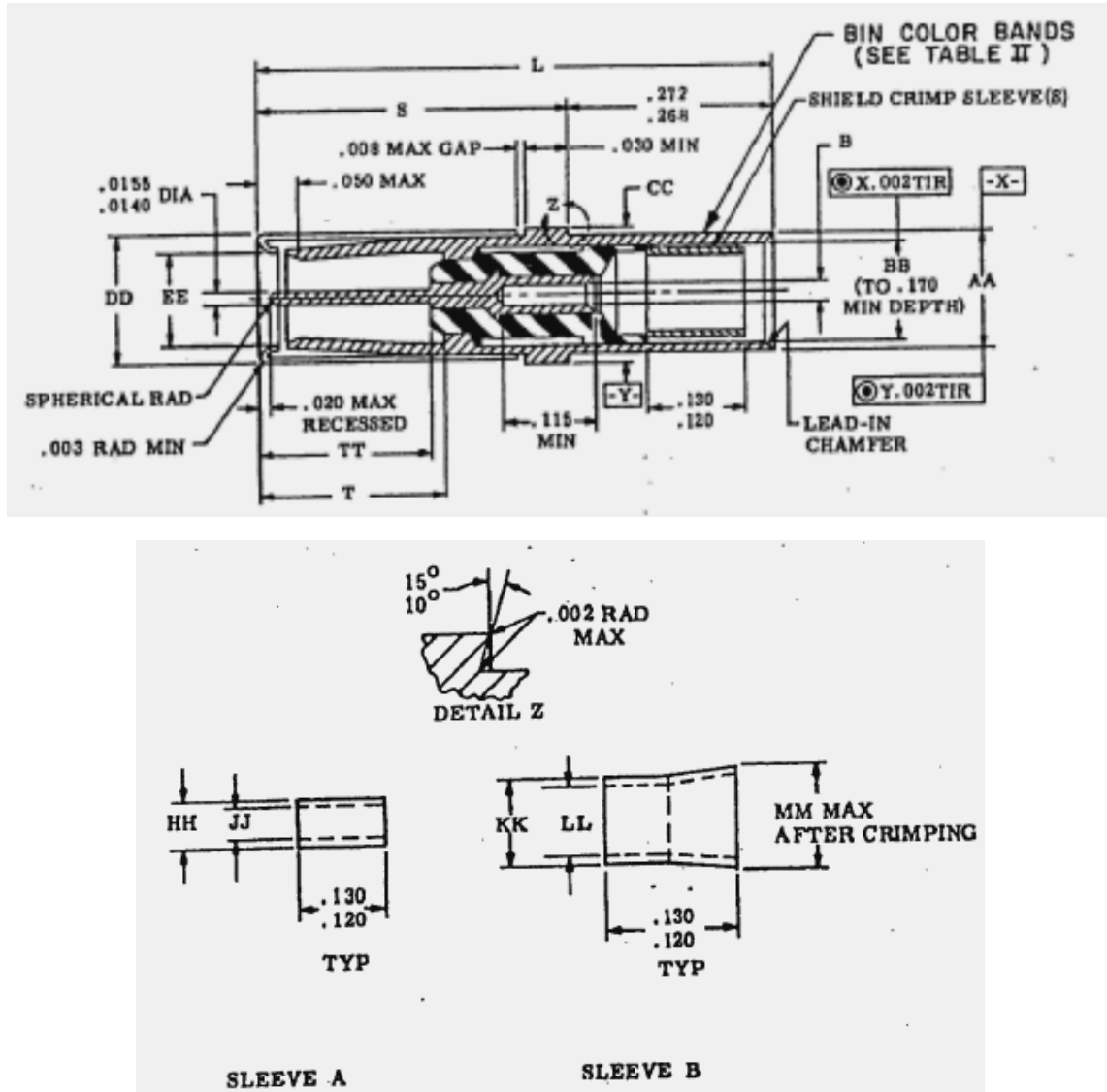
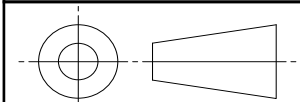


FIGURE 1 - AS39029/21 SHIELDED SOCKET CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/21C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE, SHIELDED
(FOR MIL-C-81511 SERIES 4 CONNECTORS)

AS39029™/21
SHEET 1 OF 4

REV.
C

Documents

Copyright © 2026 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 1-877-606-7323 (U.S. and Canada only)

Fax: 724-776-0790

Tel: 1-724-776-4970 (outside U.S. and Canada)

Email: CustomerService@sae.org

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

TABLE 1 - CONTACT DIMENSIONS (1/)

BIN code	B MIN	S	L (REF)	T MIN	AA	BB MIN	CC	DD MAX	EE	TT MIN	SHIELD CRIMP SLEEVES					
											SLEEVES REQUIRED	SLEEVE A		SLEEVE B		
												HH MAX	JJ MIN	KK MAX	LL MIN	MM MAX
187	.034	.396	.664 (16.87)	.240	.094	.081	.108 (2.74) .106 (2.69)	.108	.0750	.215	A & B	.0535	.0455	.080	.072	.080
		B									---	---	.080	.072	.080	
188	.022	.386	.654 (16.61)	.225	.153	.129	.1695 (4.31) .1675 (4.25)	.169	.1210	.200	NONE	---	---	---	---	---
		B									---	---	.128	.109	.128	
189	.034	.386	.654 (16.61)	.225	.153	.129	.1695 (4.31) .1675 (4.25)	.139	.1210	.200	B	---	---	.128	.113	.128
		A									.103	.081	---	---	---	
		B									---	---	.128	.118	.128	
		A & B									.099	.091	.128	.118	.128	

1/ INNER CONTACT DIMENSIONS ARE CONTROLLED BY PERFORMANCE ONLY (SEE TABLE 3).

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN code	Color bands			Contact cavity size	Cables accommodated 1/	Sleeves required	Type	Class
	1st	2nd	3rd					
187	Brown	Gray	Violet	16	M81044/18-22 SHIELDED GRUMMAN GC18K1-22	A & B	D	B
					M27500-22RC1S6 REVERE WH95623 2/ GRUMMAN GC875FW22-2	B		
188	Brown	Gray	Gray	12	RG-180B/U 3/ MICRO DOT 293-3922 GRUMMAN GC875GA1	None		
					RAYCHEM 9530D5117 GRUMMAN GC875GC1	B		
189	Brown	Gray	White	12	M81044/18-22 SHIELDED GRUMMAN GC18K1-22	B		
					M27500-22RC1S6 REVERE WH95623 2/ GRUMMAN GC875FW-22-2	A		
					MICRO DOT 250-4070 GRUMMAN GC875FY2	B		
					RAYCHEM 5022E5111 GRUMMAN GC875GB1	A & B		

1/ OR EQUIVALENT (M81044/18-22 IS CANCELLED WITHOUT REPLACEMENT).

2/ REVERE WH95623 IS A TWO CONDUCTOR CABLE: ONE SIZE 22 SHIELDED CONDUCTOR CONFORMING TO M27500-22RC1S6

3/ RG-108B/U MAY BE USED WHEN IMPEDANCE MATCHING IS NOT REQUIRED.



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE, SHIELDED
(FOR MIL-C-81511 SERIES 4 CONNECTORS)

AS39029™/21
SHEET 2 OF 4

REV.



Documents

Document Sharing Hub