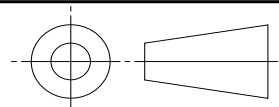


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			AS39029/21
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CUSTODIAN: AE-8/AE-8C1		PROCUREMENT SPECIFICATION: AS39029	
		AEROSPACE STANDARD CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED (FOR MIL-C-81511 SERIES 4 CONNECTORS)	AS39029/21
			REV. B

NOTICE

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

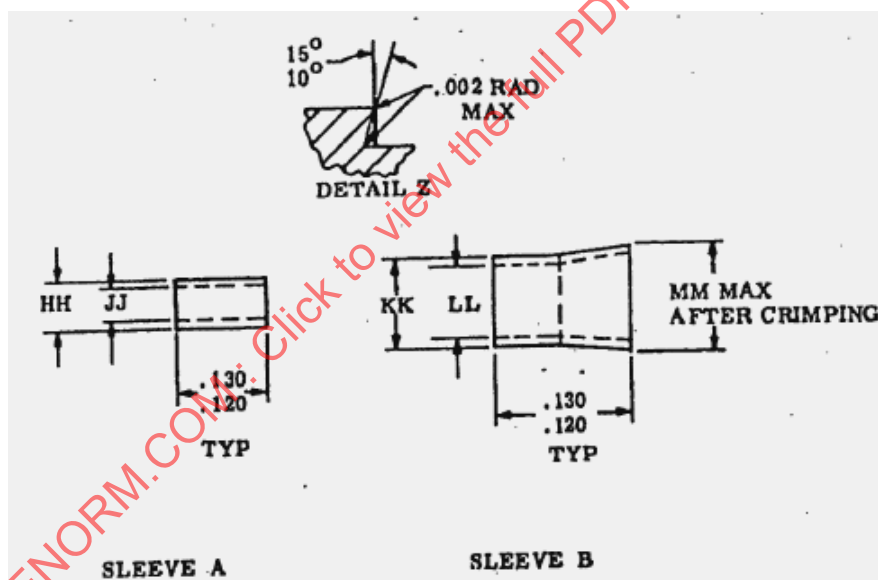
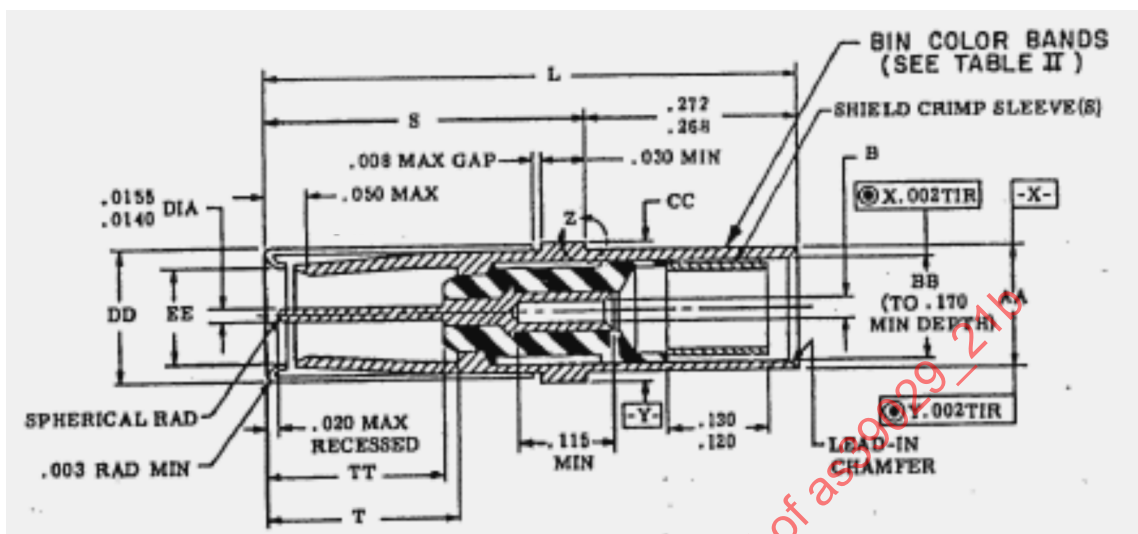


FIGURE 1 - AS39029/21 SHIELDED SOCKET CONTACT

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		
		.392			.091						.0725		B	---	---	.080	.072	.080
188	.022	.386	.654 (16.61)	.225	.153	.129	.1695 (4.31) .1675 (4.25)	.169	.1210	.200	NONE	---	---	---	---	---		
		.382			.150						.1175		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	---	---	---
		.382			.150						.1175		B	---	---	.128	.118	.128
													A & B	.099	.091	.128	.118	.128

NOTE 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 GC875FW22-2	A		
					MICRO DOT 250-4070 GRUMMAN GC875FY2	B		
					RAYCHEM 5022ES111 GRUMMAN GC875GB1	A & B		

1/ OR EQUIVALENT (M81044/18-22 IS CANCELED 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**
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TABLE 3 - TOOL REQUIREMENTS

BIN CODE	INNER CONTACT 1/			SHIELD SLEEVE			
	BASIC CRIMPING TOOL	POSITIONER	POSITIONER SETTING	BASIC CRIMPING TOOL	POSITIONER	POSITIONER SETTING	SLEEVE TYPE
187	M22520/2-01	M22520/2-28	4	M22520/20-01	M22520/20-02	3 4	A & B C
188	M22520/2-01	M22520/2-29	1	M22520/22-01	M22520/22-02	6 3 4	NONE B B
189	M22520/2-01	M22520/2-29	4	M22520/22-01	M22520/22-02	5 6 5	A B A & B

NOTE 1/ INNER CONTACT DIMENSIONS ARE CONTROLLED BY PERFORMANCE ONLY. INNER CONTACT TOOLS SHALL BE AS SPECIFIED.

TABLE 3 - TOOL REQUIREMENTS (CONTINUED)

BIN CODE	OUTER CONTACT			INSTALLING TOOL	REMOVAL TOOL	
	BASIC CRIMPING TOOL	POSITIONER	POSITIONER SETTING		WIRED CONTACT	UNWIRED CONTACT
187	M22520/19-01	M22520/19-03?	3 4	M81969/16-02	M81969/16-02	M81969/30-03
188	M22520/21-01	M22520/21-03?	5 3	M81969/16-03	M81969/16-03	M81969/30-04
189	M22520/21-01	M22520/21-03?	4			
			6			
			6 5			

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDES PART NUMBER(S)
M39029/21-187	187	M39029/21-001
M39029/21-188	188	M39029/21-002
M39029/21-189	189	M39029/21-003

TABLE 5 - PERFORMANCE REQUIREMENTS

BIN CODE	TENSILE STRENGTH (LB) MIN		CONTACT ENGAGING AND SEPARATION FORCES (OUNCES)				MAXIMUM CONTACT RESISTANCE (MILLIVOLTS)	
			OUTER SOCKET CONTACT					
			SEPARATION		ENGAGEMENT			
INNER CONTACT	OUTER CONTACT	MIN	TEST PIN DIAMETER	MAX	TEST PIN DIAMETER	INNER CONTACT	OUTER CONTACT	
187	2.7	15	2.0	.0690 +.0000 -.0001	20.0	.0710 +.0001 -.0000	8.0	4.0
188	4.5		3.0	.1140 +.0000 -.0001	25.0	.1165 +.0001 -.0000		2.0
189	2.7							

**AEROSPACE STANDARD**

CONTACTS, ELECTRICAL CONNECTOR,
 SOCKET, CRIMP REMOVABLE, SHIELDED
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