FEDERAL SUPPLY CLASS
5999

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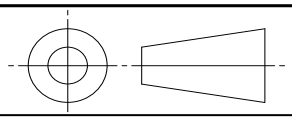
ISSUED 2000-06 REAFFIRMED 2007-06 REVISED 2007-09 STABILIZED 2013-12

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE INTERNATIONAL

AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED (FOR MIL-C-81511 SERIES 3 CONNECTORS)

AS39029/20

REV. B

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

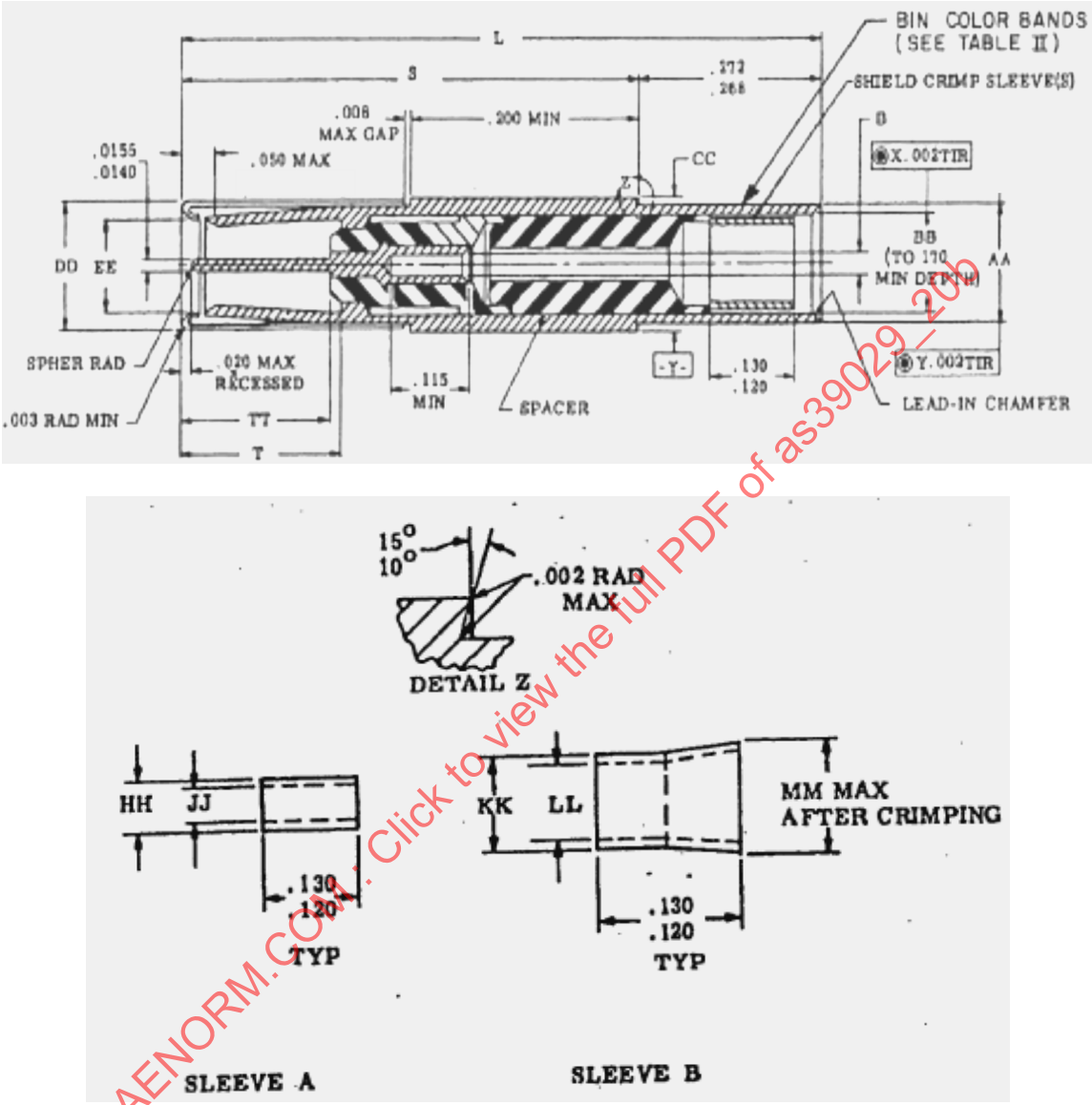

FIGURE 1 - AS39029/20 SHIELDED SOCKET CONTACT

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					
												SLEEVE DIMENSIONS				
											SLEEVES REQUIRED	HH MAX	JJ MIN	KK MAX	LL MIN	MM MAX
184	.034	.726	.994 (25.25)	.240	.094	.081	.108 (2.74)	.108	.0750	.215	A & B	.0535	.0455	.080	.072	.080
		.722			.091		.106 (2.69)		.0725		B	---	---	.080	.072	.080
185	.022	.716	.984 (24.99)	.225	.153	.129	.1695 (4.31)	.169	.1210	.200	NONE	---	---	---	---	---
		.712			.150		.1675 (4.25)		.1175		B	---	---	.128	.109	.128
186											B	---	---	.128	.113	.128
	.034	.716	.984 (24.99)	.225	.153	.129	.1695 (4.31)	.169	.1210	.200	A	.103	.081	---	---	---
		.712			.150		.1675 (4.25)		.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					
184	Brown	Gray	Yellow	16	M81044/18-22 SHIELDED GRUMMAN GC18K1-22	A & B	D	B
					M27500-22RC1S6 REVERE WH95623 2/ GRUMMAN GC875FW22-2	B		
185	Brown	Gray	Green	12	RG-180B/U 3/ MICRO DOT 293-3922 GRUMMAN GC875GA1	None		
					RAYCHEM 9530D5117 GRUMMAN GC875GC1	B		
186	Brown	Gray	Blue	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 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.

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
184	M22520/2-01	M22520/2-28	4	M22520/20-01	M22520/20-03	3	A & B
						4	C
185	M22520/2-01	M22520/2-29	1	M22520/22-01	M22520/22-03	4	NONE
						5	B
186	M22520/2-01	M22520/2-29	4	M22520/22-01	M22520/22-03	4	B
						5	A
						6	B
						5	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
184	M22520/19-01	M22520/19-02	3	M81969/16-02	M81969/16-02	M81969/30-03
			4			
185	M22520/21-01	M22520/21-02	5	M81969/16-03	M81969/16-03	M81969/30-04
			3			
186	M22520/21-01	M22520/21-02	4			
			6			
			6			
			5			

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDES PART NUMBER(S)
M39029/20-184	184	M39029/20-001
M39029/20-185	185	M39029/20-002
M39029/20-186	186	M39029/20-003

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
184	2.7	15	2.0	.0690 +.0000 -.0001	20.0	.0710 +.0001 -.0000	8.0	4.0
185	4.5		3.0	.1140 +.0000 -.0001	25.0	.1165 +.0001 -.0000		2.0
186	2.7							