

REV.
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AS39029/31

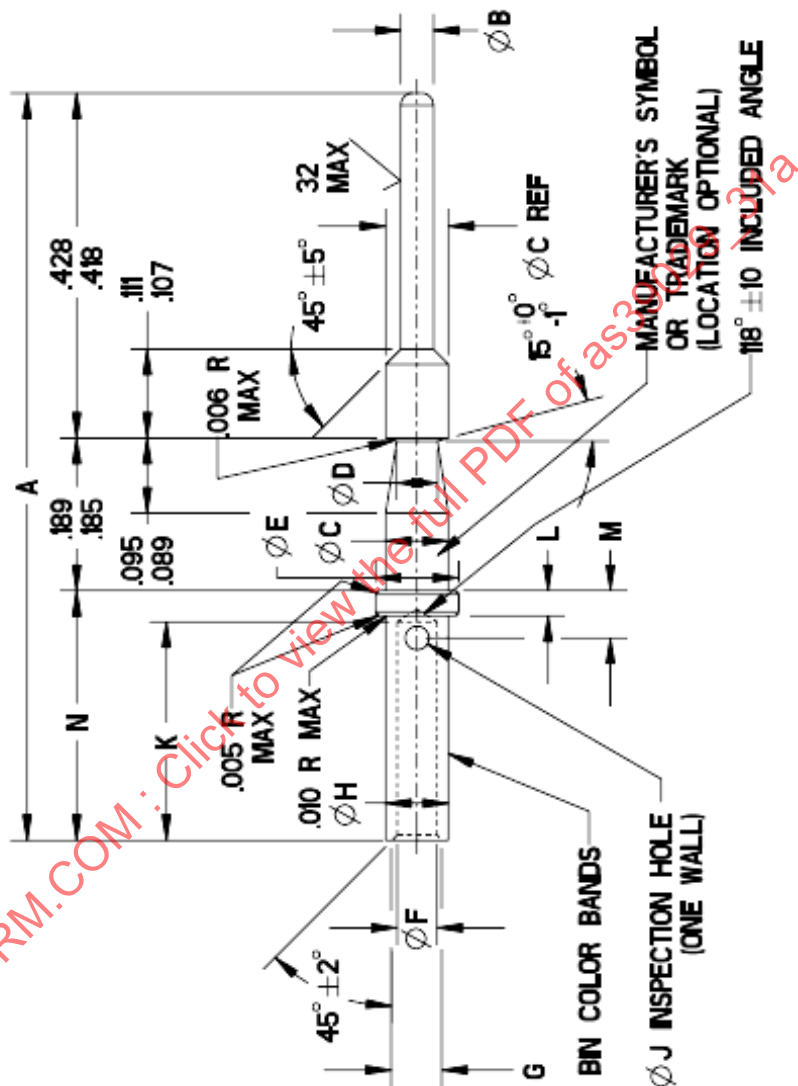
RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY SINCE 1988, INCORPORATES VARIOUS AMENDMENTS, REMOVE GOVERNMENT JARGON AS A RESULT OF THE WORD-FOR-WORD TRANSFERENCE OF AS39029 TO SAE, UPDATE SPECIFICATION REFERENCES, ALIGN SPECIFICATIONS WITH SAE GUIDELINES AS NEEDED, AND REVIEW SPECIFICATIONS FOR KNOWN TECHNICAL PROBLEMS.

NOTICE

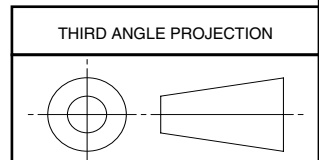
THE REQUIREMENTS FOR PROCURING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS39029.

FEDERAL SUPPLY CLASS
5999



PIN INTERFACE DESIGN FOR ALL BIN CODES EXCEPT BIN CODE 627
WIRE BARREL DESIGN FOR BIN CODES 228 THRU 239 (SIZES 16 AND 12 CONTACTS)

FIGURE 1 - AS39029/31 PIN CONTACT



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN,
CRIMP REMOVABLE (FOR MIL-DTL-26482 SERIES 1,
MIL-DTL-26500 AND MIL-DTL-26518 CONNECTORS)

AS39029/31
SHEET 1 OF 6

REV.
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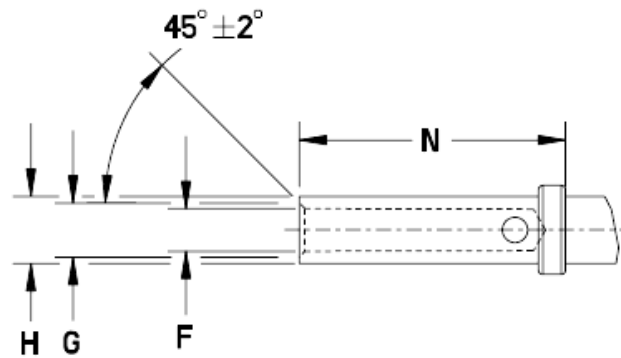
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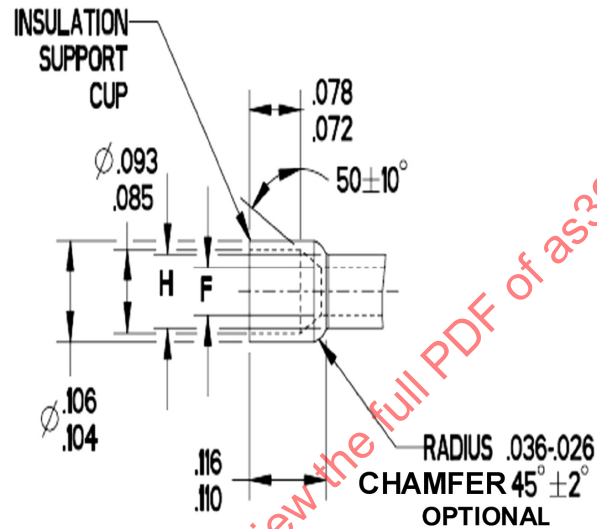
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ISSUED 2001-03 REVISED 2007-11



WIRE BARREL DESIGN 223 THRU 227 (SIZE 20 CONTACTS)



WIRE BARREL DESIGN BIN CODE 240 & 627 (SIZE 20 CONTACT)

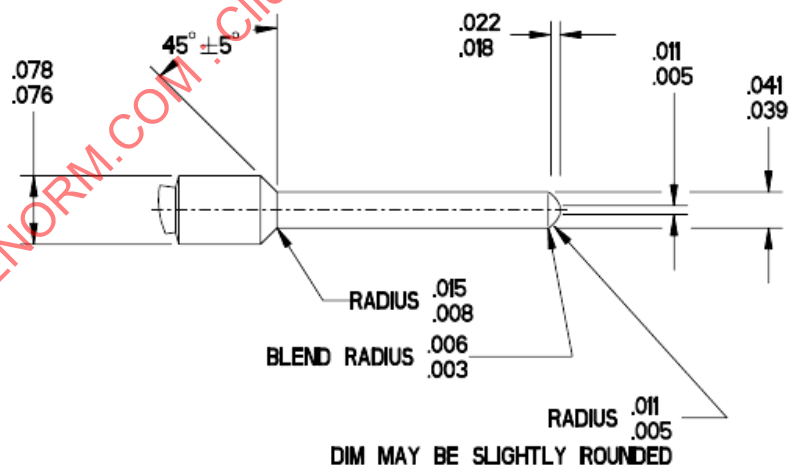


FIGURE 1 - AS39029/31 PIN CONTACT (CONTINUED)

TABLE 1 - CONTACT DIMENSIONS

BIN CODE	A REF	B DIA	C DIA	D DIA	E DIA	F DIA	G DIA	H DIA	J DIA	K MIN	L	M	N
223, 224, 225, 226, & 227	.915 (23.24)	.041 .039	.078 .076	.052 .048	.103 (2.62) .100 (2.54)	.050 .048	.064 .060	.078 .076	.032 .026	.250	.033 .029	.068 .053	.308 .304
228, 229, 230, 231, 232, & 233	.905 (22.99)	.063 5 .061 5	.113 .110	.087 .083	.148 (3.76) .144 (3.66)	.068 .066	.092 .080	.105 .101	.042 .036	.236	.048 .044	.068 .085	.298 .294
234, 235, 236, 237, 238, & 239	.905 (22.99)	.095 .093	.161 .158	.135 .131	.202 (5.13) .198 (5.03)	.102 .098	.135 .116	.153 .147	.042 .036	.236	.048 .044	.068 .085	.298 .294
240, , 448, &	.915 (23.24)	.041 .039	.078 .076	.052 .048	.103 (2.62) .100 (2.54)	.050 .048	N/A	.078 .076	.032 .026	.267	.033 .029	.068 .053	.308 .304
627 1/													

1/ ALL DIMENSIONS ON BIN CODE 627 SHALL BE IN ACCORDANCE WITH FIGURE 1

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODES	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
223	RED	RED	ORANGE	20	20	A	A
224	RED	RED	YELLOW	20	20	C-IRON	A
225	RED	RED	GREEN	20	20	C-NICKEL-CHROMIUM	A
226	RED	RED	BLUE	20	20	C- NICKEL- ALUMINUM/SILICON	A
227	RED	RED	VIOLET	20	20	C- COPPER-NICKEL ALLOY	A
228	RED	RED	GRAY	16	16	A	A
229	RED	RED	WHITE	16	16	A	B
230	RED	ORANGE	BLACK	16	16	C-IRON	A
231	RED	ORANGE	BROWN	16	16	C-NICKEL-CHROMIUM	A
232	RED	ORANGE	RED	16	16	C- NICKEL- ALUMINUM/SILICON	A
233	RED	ORANGE	ORANGE	16	16	C- COPPER-NICKEL ALLOY	A
234	RED	ORANGE	YELLOW	12	12	A	A
235	RED	ORANGE	GREEN	12	12	A	B
236	RED	ORANGE	BLUE	12	12	C-IRON	A
237	RED	ORANGE	VIOLET	12	12	C-NICKEL-CHROMIUM	A
238	RED	ORANGE	GRAY	12	12	C- NICKEL- ALUMINUM/SILICON	A
239	RED	ORANGE	WHITE	12	12	C- COPPER-NICKEL ALLOY	A
240	RED	YELLOW	BLACK	20	20	A	A
448	YELLOW	YELLOW	GRAY	20	20	A	B
627	BLUE	RED	VIOLET	20	20	A	B

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
223, 224, 225, 226, & 227	M22520/1-01 OR M22520/2-01 OR M22520/7-01	M22520/1-02 RED OR M22520/2-02 OR M22520/7-02	M81969/14-10 OR M81969/17-03	M81969/19-06	M81969/30-05
228, 229, 230, 231, 232, & 233	M22520/1-01 OR M22520/7-01	M22520/1-02 BLUE OR M22520/7-03	M81969/14-03 OR M81969/17-04	M81969/19-01	M81969/30-06
234, 235, 236, 237, 238, & 239	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04 OR M81969/17-05	M81969/19-02	M81969/30-07
240, , 448, & 627	M22520/1-01 OR M22520/2-01 OR M22520/7-01	M22520/1-02 RED OR M22520/2-02 OR M22520/7-02	M81969/14-10 OR M81969/17-03	M81969/19-06	M81969/30-05

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDING PART NUMBER(S)	AS39029 PART NUMBER	BIN CODE	SUPERSEDING PART NUMBER(S)
M39029/31-223	223	MS3192-20-20A	M39029/31-234	234	MS3192-12-12A
M39029/31-224	224	MS3192-20-20C4	M39029/31-235	235	MS24254-12P
M39029/31-225	225	MS3192-20-20C1	M39029/31-236	236	MS3192-12-12C4
M39029/31-226	226	MS3192-20-20C2	M39029/31-237	237	MS3192-12-12C1
M39029/31-227	227	MS3192-20-20C3	M39029/31-238	238	MS3192-12-12C2
M39029/31-228	228	MS3192-16-16A	M39029/31-239	239	MS3192-12-12C3
M39029/31-229	229	MS24254-16P	M39029/31-240	240	MS3192A20-20A
M39029/31-230	230	MS3192-16-16C4	M39029/31-448	448	MS39029/31-20-20
M39029/31-231	231	MS3192-16-16C1	M39029/31-627	627	M39029/31-241 MS24254-20P
M39029/31-232	232	MS3192-16-16C2			
M39029/31-233	233	MS3192-16-16C3			
M39029/31-234	234	MS3192-12-12A			