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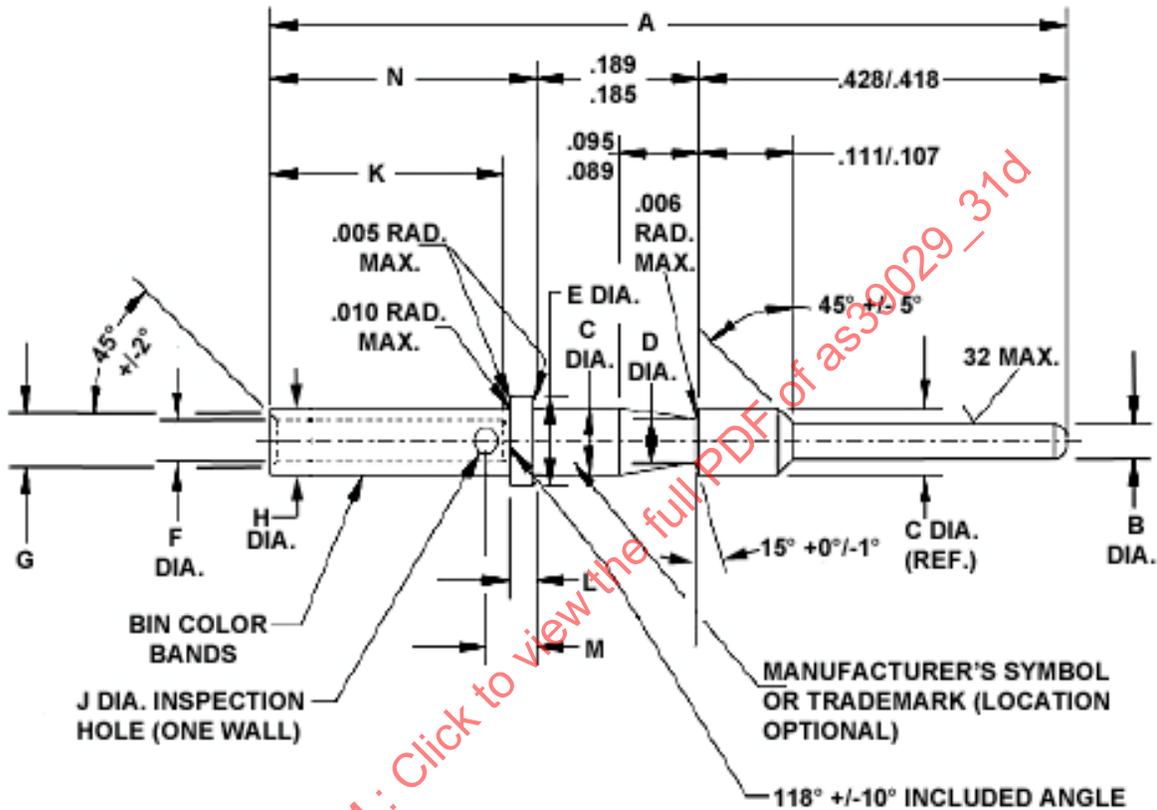
AS39029™/31

RATIONALE

A LIMITED SCOPE REVISION IS REQUIRED TO UPDATE THE CONTACT TYPE DESIGNATIONS IN TABLE 3 AND TO ADD THE APPROPRIATE FOOTNOTES TO THE TABLE.

NOTICE

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

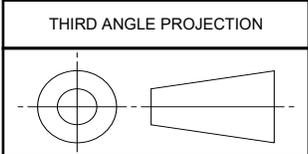


PIN INTERFACE DESIGN FOR ALL BIN CODES EXCEPT BIN CODE 627
WIRE BARREL DESIGN FOR BIN CODES 228 THROUGH 239 (SIZES 16 AND 12 CONTACTS)

FIGURE 1 - AS39029/31 PIN CONTACT

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For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/31D/>



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

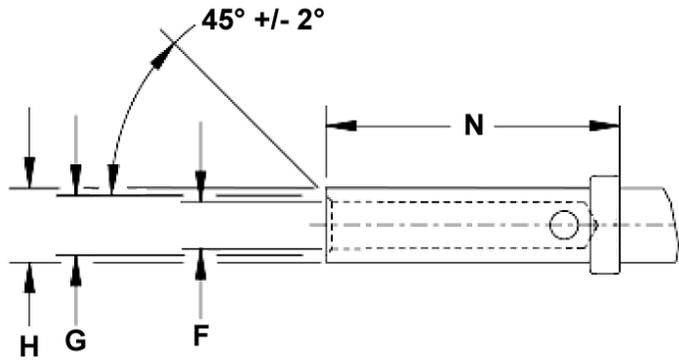
CONTACTS, ELECTRICAL CONNECTOR, PIN,
CRIMP REMOVABLE (FOR MIL-DTL-26482 SERIES 1,
MIL-DTL-26500 AND MIL-DTL-26518 CONNECTORS)

AS39029™/31
SHEET 1 OF 6

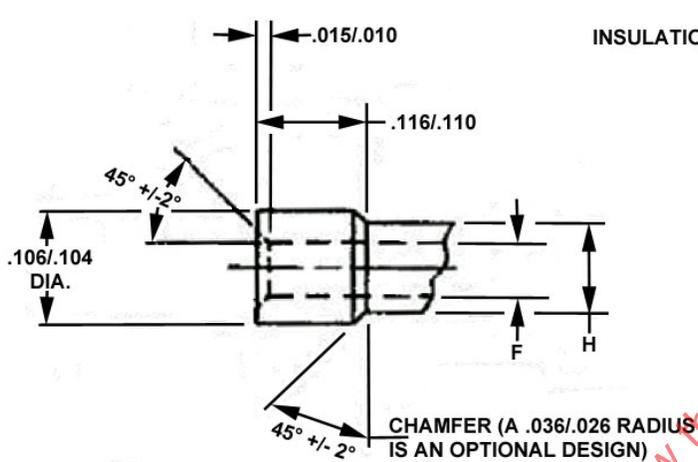
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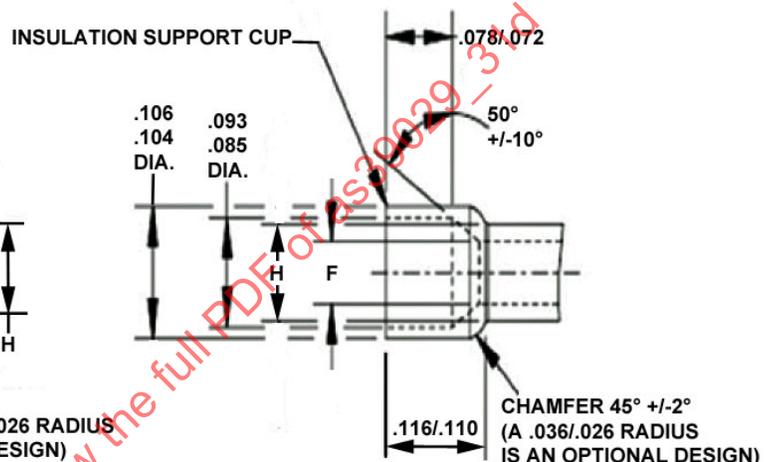
ISSUED 2001-03 REVISED 2022-01



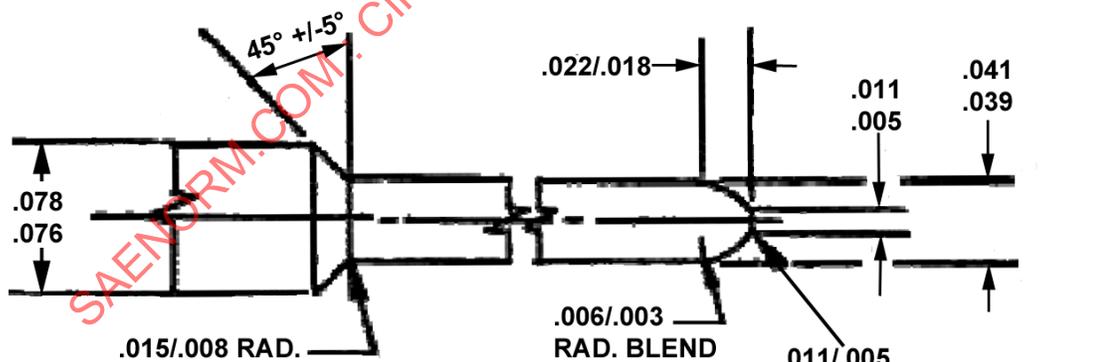
WIRE BARREL DESIGN 223 THROUGH 227 (SIZE 20 CONTACTS)



WIRE BARREL DESIGN BIN CODE 448 (SIZE 20)



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



TAPER PIN INTERFACE DESIGN
BIN CODE 627 (SIZE 20)

FIGURE 1 - AS39029/31 PIN CONTACT (CONTINUED)

	AEROSPACE STANDARD	AS39029™/31 SHEET 2 OF 6	REV. D
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-26482 SERIES 1, MIL-DTL-26500 AND MIL-DTL-26518 CONNECTORS)		

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
0.003	.08	0.036	.91	0.104	2.64
0.005	.13	0.039	.99	0.106	2.69
0.006	.15	0.041	1.04	0.107	2.72
0.008	.20	0.072	1.83	0.110	2.79
0.010	.25	0.076	1.93	0.111	2.82
0.011	.28	0.078	1.98	0.116	2.95
0.015	.38	0.085	2.16	0.185	4.70
0.018	.46	0.089	2.26	0.189	4.80
0.022	.56	0.093	2.36	0.418	10.62
0.026	.66	0.095	2.41	0.428	10.87

TABLE 2 - 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 (1.04)	.078 (1.98)	.052 (1.32)	.103 (2.62)	.050 (1.27)	.064 (1.63)	.078 (1.98)	.032 (0.81)	.250 (6.35)	.033 (0.84)	.068 (1.73)	.308 (7.82)
		.039 (0.99)	.076 (1.93)	.048 (1.22)	.100 (2.54)	.048 (1.22)	.060 (1.52)	.076 (1.93)	.026 (0.66)		.029 (0.74)	.053 (1.35)	.304 (7.72)
228, 229, 230, 231, 232, & 233	.905 (22.99)	.0635 (1.61)	.113 (2.87)	.087 (2.21)	.148 (3.76)	.068 (1.73)	.092 (2.34)	.105 (2.67)	.042 (1.07)	.236 (5.99)	.048 (1.22)	.085 (2.16)	.298 (7.57)
		.0615 (1.56)	.110 (2.79)	.083 (2.11)	.144 (3.66)	.066 (1.68)	.080 (2.03)	.101 (2.57)	.036 (0.91)		.044 (1.12)	.068 (1.73)	.294 (7.47)
234, 235, 236, 237, 238, & 239	.905 (22.99)	.095 (2.41)	.161 (4.09)	.135 (3.43)	.202 (5.13)	.102 (2.59)	.135 (3.43)	.153 (3.89)	.042 (1.07)	.236 (5.99)	.048 (1.22)	.085 (2.16)	.298 (7.57)
		.093 (2.36)	.158 (4.01)	.131 (3.33)	.198 (5.03)	.098 (2.49)	.116 (2.95)	.147 (3.73)	.036 (0.91)		.044 (1.12)	.068 (1.73)	.294 (7.47)
240, 448, & 627 1/	.915 (23.24)	.041 (1.04)	.078 (1.98)	.052 (1.32)	.103 (2.62)	.050 (1.27)	N/A	.078 (1.98)	.032 (0.81)	.267 (6.78)	.033 (0.84)	.068 (1.73)	.308 (7.82)
		.039 (0.99)	.076 (1.93)	.048 (1.22)	.100 (2.54)	.048 (1.22)		.076 (1.93)	.026 (0.66)		.029 (0.74)	.053 (1.35)	.304 (7.72)

1/ ALL PIN TIP DIMENSIONS ON BIN CODE 627 SHALL BE IN ACCORDANCE WITH FIGURE 1 (TAPER PIN INTERFACE).

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TABLE 3 - 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-JP 1/ CADMIUM PLATE	A
225	RED	RED	GREEN	20	20	C-KP	A
226	RED	RED	BLUE	20	20	C-KN	A
227	RED	RED	VIOLET	20	20	C-JN	A
228	RED	RED	GRAY	16	16	A	A
229	RED	RED	WHITE	16	16	A	B
230	RED	ORANGE	BLACK	16	16	C-JP 1/ CADMIUM PLATE	A
231	RED	ORANGE	BROWN	16	16	C-KP	A
232	RED	ORANGE	RED	16	16	C-KN	A
233	RED	ORANGE	ORANGE	16	16	C-JN	A
234	RED	ORANGE	YELLOW	12	12	A	A
235	RED	ORANGE	GREEN	12	12	A	B
236	RED	ORANGE	BLUE	12	12	C-JP 1/ CADMIUM PLATE	A
237	RED	ORANGE	VIOLET	12	12	C-KP	A
238	RED	ORANGE	GRAY	12	12	C-KN	A
239	RED	ORANGE	WHITE	12	12	C-JN	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

JN = TYPE J NEGATIVE (FORMERLY CONSTANTAN).
 KN = TYPE K NEGATIVE (FORMERLY ALUMEL).
 KP = TYPE K POSITIVE (FORMERLY CHROMEL).
 JP = TYPE J POSITIVE (FORMERLY IRON).
 1/ CHROMATE CLEAR COAT.

TABLE 4 - 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	M81969/17-09	M81969/19-06	M81969/19-06
228, 229, 230, 231, 232, & 233	M22520/1-01 OR M22520/7-01	M22520/1-02 (BLUE) OR M22520/7-03	M81969/17-04	M81969/19-01	M81969/19-01
234, 235, 236, 237, 238, & 239	M22520/1-01	M22520/1-02 (YELLOW)	M81969/17-05	M81969/19-02	M81969/19-02
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	M81969/17-03	M81969/19-06	M81969/19-06