

REV.
A

SAE AS39029/112

FEDERAL SUPPLY CLASS
5999

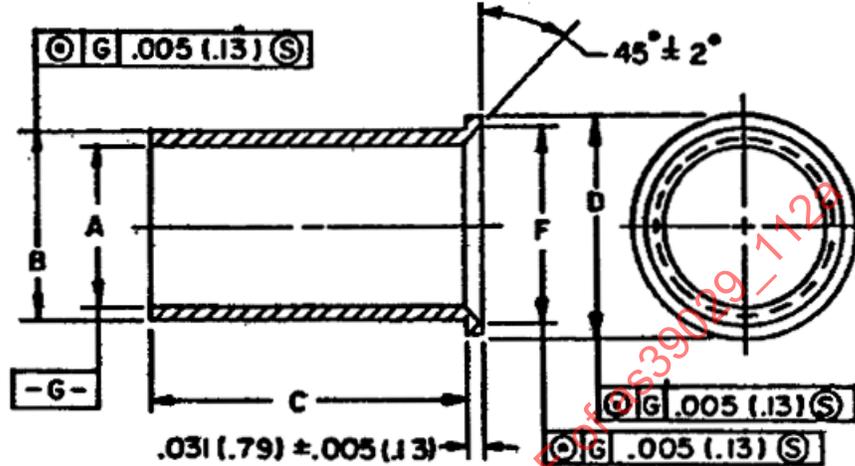
RATIONALE

REVISED TO CLARIFY QUALIFICATION REQUIREMENTS

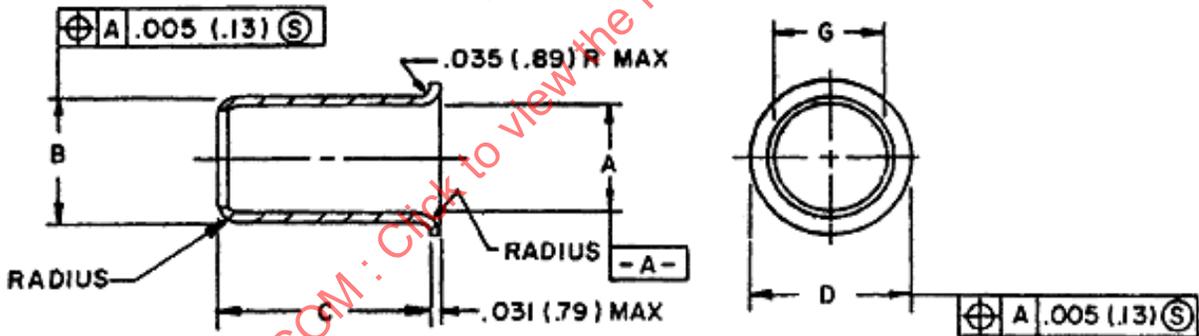
NOTICE

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

CONTACT BUSHING, ELECTRIC, WIRE BARREL



CONTACT BUSHING DESIGN

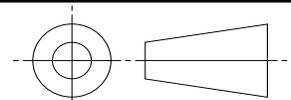


ALTERNATE CONTACT BUSHING DESIGN

FIGURE 1 - AS39029/112 CONTACT BUSHING

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

ELECTRICAL CONNECTOR,
CONTACT BUSHING,
WIRE BARREL

SAE AS39029/112
SHEET 1 OF 4

REV. A

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ISSUED 2007-03 REVISED 2011-02

TABLE 1 - CONTACT BUSHING DIMENSIONS

DASH NUMBER	CONTACT WIRE BARREL SIZE (REF)	WIRE SIZE (REF)	A +.002 (.05) -.003 (.08) DIA	B +.002 (.05) -.003 (.08) DIA	C +.017 (.43) -.016 (.41)	D ±.016 (.41)	F +.006 (.15) -.005 (.13) DIA
-8 -10	8	10	.146 (3.71)	.173 (4.39)	.380 (9.65)	.250 (6.35)	.188 (4.78)
-4 -6	4	6	.235 (5.97)	.272 (6.91)	.380 (9.65)	.344 (8.74)	.292 (7.42)
-0 -2	1/0	2	.369 (9.37)	.444 (11.28)	.536 (13.61)	.516 (13.11)	.462 (11.73)
-4 -6L	4	6	.225 (5.72)	.272 (6.91)	.700 (17.78)	.344 (8.74)	.292 (7.42)
-1 -2L	1	2	.359 (9.12)	.396 (10.06)		.516 (13.11)	.422 (10.72)
-4 -5L	4	5	.250 (6.35)	.272 (6.91)		.344 (8.74)	.292 (7.42)
-6 -8L	6	8	.185 (4.70)	.225 (5.72)		.297 (7.54)	.250 (6.35)
-6 -9L	6	9	.155 (3.94)	.225 (5.72)		.297 (7.54)	.219 (5.56)
-1 -6L	1	6	.225 (5.72)	.396 (10.06)		.516 (13.11)	.422 (10.72)
-4/0 -2/0L	4/0	2/0	.500 (12.70)	.629 (15.98)		.719 (18.26)	.562 (14.27)
-4 -8L	4	8	.185 (4.70)	.272 (6.91)		.344 (8.74)	.250 (6.35)
-6 -10L	6	10	.136 (3.45)	.225 (5.72)		.297 (7.54)	.188 (4.78)

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TABLE 2 - ALTERNATE CONTACT BUSHING DESIGN DIMENSIONS

DASH NUMBER	CONTACT WIRE BARREL SIZE (REF)	WIRE SIZE (REF)	A DIA MAX	B +.002 (.05) -.003 (.08) DIA	C ±.010 (.25)	D ±.016 (.41)	G DIA MIN
-8 -10	8	10	.173 (4.39)	.173 (4.39)	.380 (9.65)	.250 (6.35)	.136 (3.45)
-4 -6	4	6	.272 (6.91)	.272 (6.91)	.380 (9.65)	.344 (8.74)	.225 (5.71)
-0 -2	1/0	2	.444 (11.28)	.444 (11.28)	.536 (13.61)	.516 (13.11)	.359 (9.12)
-1 -2L	1	2	.369 (9.37)	.396 (10.06)	.700 (17.78)	.516 (13.11)	.359 (9.12)
-4 -5L	4	5	.260 (6.60)	.272 (6.91)		.344 (8.74)	.250 (6.30)
-4 -6L	4	6	.235 (5.97)	.272 (6.91)		.344 (8.74)	.225 (6.35)
-6 -8L	6	8	.195 (4.95)	.225 (5.71)		.297 (7.54)	.185 (4.70)
-6 -9L	6	9	.165 (4.19)	.225 (5.71)		.297 (7.54)	.155 (3.94)
-1 -6L	1	6	.235 (5.97)	.396 (10.06)		.516 (13.11)	.225 (6.35)
-4/0 -2/0L	4/0	2/0	.510 (12.95)	.629 (15.98)		.719 (18.26)	.500 (12.70)
-4 -8L	4	8	.195 (4.95)	.272 (6.91)		.344 (8.74)	.185 (4.70)
-6 -10L	6	10	.146 (3.71)	.225 (5.72)	↓	.297 (7.54)	.136 (3.45)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 IN = 25.4 MM.
3. DIMENSIONING AND TOLERANCING ARE IN ACCORDANCE WITH ANSI Y14.5-1973.
4. METRIC EQUIVALENTS ARE IN PARENTHESES.
5. REQUIREMENTS:
 - A. CLASSIFICATION: TYPE A / CLASS B
 - B. MATERIAL: COPPER ALLOY: ANNEAL TO ROCKWELL HARDNESS 15T 70 MAXIMUM IN ACCORDANCE WITH ASTM E 18, EXCEPT THAT -1-6L SHALL BE ANNEALED TO ROCKWELL HARDNESS 15T 55 MAXIMUM IN ACCORDANCE WITH ASTM E 18.
 - C. FINISH: BUSHINGS SHALL BE SILVER PLATED TO A MINIMUM THICKNESS OF .0002 in (.005) IN ACCORDANCE WITH AMS-QQ-S-365 OVER ELECTROLYTIC NICKEL UNDERPLATE OF 30 TO150 (.00076 TO.0038) MICRO-INCHES THICK PER AMS-QQ-N-290 OR OVER COPPER PLATE IN ACCORDANCE WITH AMS2418, 0.000050 (.00127) in THICK MINIMUM.
 - D. SURFACE TEXTURE: ALL EXTERNAL SURFACES SHALL BE 63 OR BETTER IN ACCORDANCE WITH USAS B46.1-1962.
 - E. CONTACT BUSHINGS SHALL BE FREE OF ALL BURRS. BREAK ALL SHARP EDGES .005R MAXIMUM.

 An SAE International Group	AEROSPACE STANDARD	SAE AS39029/112 SHEET 3 OF 4	REV. A
	ELECTRICAL CONNECTOR, CONTACT BUSHING, WIRE BARREL		