FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO CORRECT PAGE 4 TABLE 2, IT SHOULD BE TABLE 3. IN NEW TABLE 3, THE COLUMN TITLED "AS81703 SERIES 3" SHOULD BE TITLED "AS81703 SERIES 1 & 2 ONLY", AS95234 AND APPROPRIATE DASH NUMBERS/SHELL SIZES AND DIMENSIONS NEED TO BE ADDED TO TABLES 2 AND 3, AND DOCUMENT FORMAT REQUIRES UPDATING TO LATEST SAE FORMAT GUIDELINES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

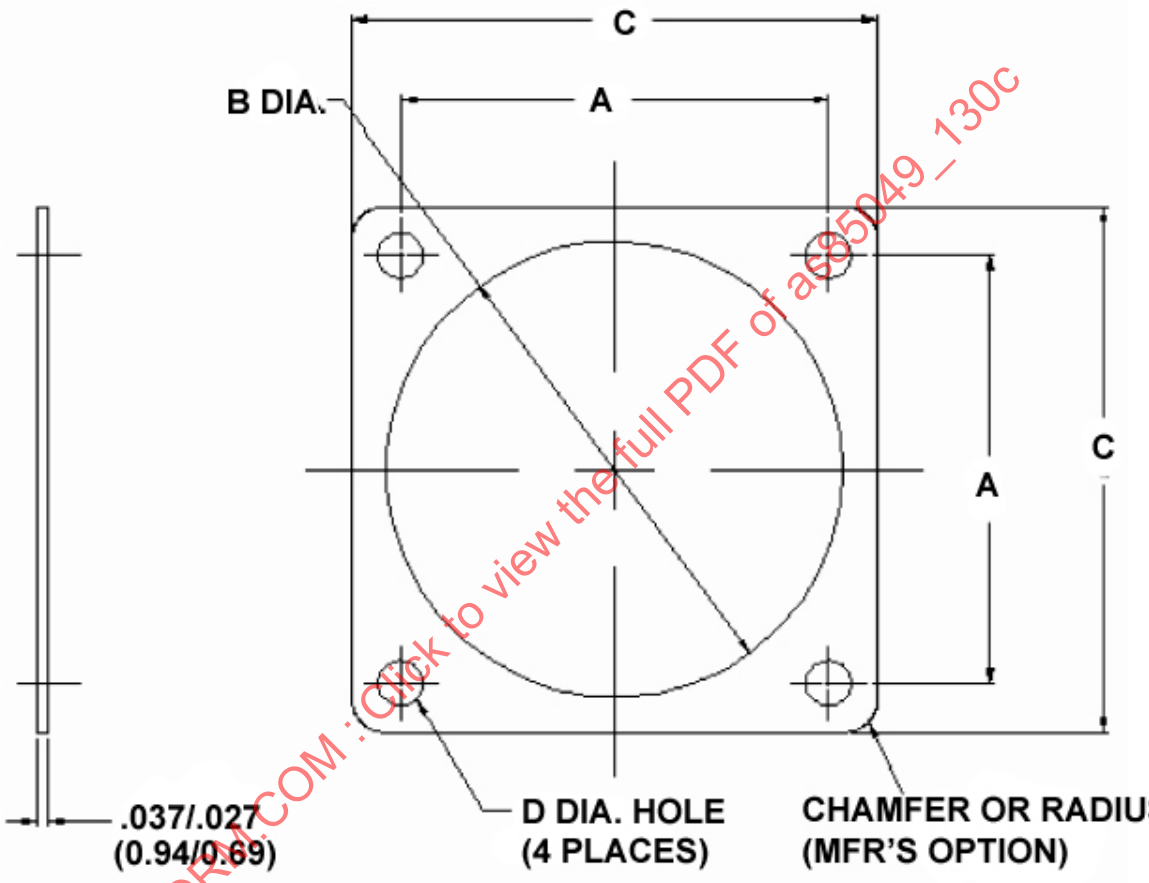
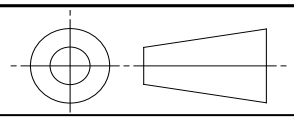


FIGURE 1 - ACCESSORY CONFIGURATION

For more information on this standard, visit
https://www.sae.org/standards/content/AS85049/130C

THIRD ANGLE PROJECTION



ISSUED 2004-03 REVISED 2016-09 REAFFIRMED 2021-04

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE INTERNATIONAL

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, GASKETING MATERIAL, CONDUCTIVE/NON-CONDUCTIVE, FLANGE MOUNT, CATEGORY 7

TABLE 1 – FIGURE 1 DIMENSIONS

DASH NUMBER	A ±.015	B +.020 -.000	C ±.015	D ±.010
01	.594 (15.09)	.568 (14.43)	.812 (20.62)	.125 (3.18)
02	.594 (15.09)	.500 (12.70)	.875 (22.23)	.156 (3.96)
03	.625 (15.88)	.603 (15.32)	.896 (22.76)	.125 (3.18)
04	.719 (18.26)	.680 (17.27)	.937 (23.80)	.125 (3.18)
05	.719 (18.26)	.625 (15.88)	1.000 (25.40)	.156 (3.96)
05A	.717 (18.2)	.717 (18.2)	1.000 (25.4)	.165 (4.2)
06	.750 (19.05)	.750 (19.05)	1.023 (25.98)	.125 (3.18)
07	.812 (20.62)	.875 (22.23)	1.060 (26.92)	.141 (3.58)
08	.812 (20.62)	.828 (21.03)	1.114 (28.30)	.125 (3.18)
09	.813 (20.65)	.750 (19.05)	1.094 (27.79)	.141 (3.58)
10	.843 (21.41)	.875 (22.23)	1.138 (28.91)	.125 (3.18)
11	.906 (23.01)	1.005 (25.53)	1.153 (29.29)	.125 (3.18)
12	.906 (23.01)	.938 (23.83)	1.125 (28.58)	.125 (3.18)
13	.906 (23.01)	.875 (22.23)	1.188 (30.18)	.156 (3.96)
13A	.906 (23.0)	.969 (24.6)	1.181 (30.0)	.165 (4.2)
14	.969 (24.61)	1.135 (28.83)	1.258 (31.95)	.156 (3.96)
15	.969 (24.61)	1.063 (27.00)	1.250 (31.75)	.125 (3.18)
16	.969 (24.61)	1.000 (25.40)	1.281 (32.54)	.156 (3.96)
16A	.969 (24.61)	1.079 (27.41)	1.280 (32.51)	.165 (4.19)
17	1.015 (25.78)	1.125 (28.58)	1.383 (35.13)	.125 (3.18)
18	1.062 (26.97)	1.260 (32.00)	1.351 (34.32)	.156 (3.96)
19	1.062 (26.97)	1.189 (30.20)	1.343 (34.11)	.125 (3.18)
20	1.062 (26.97)	1.135 (28.83)	1.375 (34.92)	.156 (3.96)
20A	1.063 (27.00)	1.213 (30.81)	1.378 (35.00)	.165 (4.19)
21	1.140 (28.96)	1.312 (33.32)	1.508 (38.30)	.125 (3.18)
22	1.156 (29.36)	1.375 (34.93)	1.500 (38.10)	.141 (3.58)
23	1.156 (29.36)	1.312 (33.32)	1.467 (37.26)	.125 (3.18)
24	1.156 (29.36)	1.250 (31.75)	1.500 (38.10)	.177 (4.50)
24A	1.157 (29.39)	1.346 (34.19)	1.496 (38.00)	.165 (4.19)
25	1.187 (30.15)	1.266 (32.16)	1.458 (37.03)	.125 (3.18)
26	1.250 (31.75)	1.500 (38.10)	1.625 (41.28)	.141 (3.58)
27	1.250 (31.75)	1.437 (36.50)	1.562 (39.67)	.125 (3.18)
28	1.250 (31.75)	1.375 (34.92)	1.625 (41.28)	.177 (4.50)
28A	1.252 (31.80)	1.472 (37.39)	1.614 (41.00)	.165 (4.19)
29	1.281 (32.54)	1.500 (38.10)	1.718 (43.64)	.125 (3.18)
30	1.375 (34.92)	1.625 (41.28)	1.750 (44.45)	.177 (4.50)
31	1.375 (34.92)	1.563 (39.70)	1.703 (43.26)	.156 (3.96)
32	1.375 (34.92)	1.500 (38.10)	1.750 (44.45)	.203 (5.16)
32A	1.374 (34.90)	1.610 (40.89)	1.752 (44.50)	.165 (4.19)
33	1.392 (35.36)	1.625 (41.28)	1.818 (46.18)	.141 (3.58)
34	1.436 (36.47)	1.570 (39.88)	1.799 (45.69)	.125 (3.18)
35	1.500 (38.10)	1.750 (44.45)	1.875 (47.63)	.177 (4.50)
36	1.562 (39.67)	1.750 (44.45)	2.000 (50.80)	.203 (5.16)
36A	1.563 (39.70)	1.839 (46.71)	2.000 (50.80)	.201 (5.11)
37	1.568 (39.83)	1.875 (47.63)	2.138 (54.31)	.141 (3.58)
38	1.719 (43.66)	2.000 (50.80)	2.375 (60.33)	.177 (4.50)
39	1.734 (44.04)	2.062 (52.37)	2.328 (59.13)	.177 (4.50)
40	1.750 (44.45)	2.000 (50.80)	2.250 (57.15)	.219 (5.56)
40A	1.752 (44.50)	2.102 (53.39)	2.244 (57.00)	.201 (5.11)
41	1.906 (48.41)	2.250 (57.15)	2.625 (66.68)	.219 (5.56)
42	1.938 (49.23)	2.250 (57.15)	2.500 (63.50)	.219 (5.56)
42A	1.937 (49.20)	2.346 (59.59)	2.500 (63.50)	.201 (5.11)
43	2.188 (55.58)	2.500 (63.50)	2.750 (69.85)	.219 (5.56)
44	2.375 (60.33)	2.781 (70.64)	3.000 (76.20)	.219 (5.56)
45	2.406 (61.11)	2.750 (69.85)	3.125 (79.38)	.281 (7.14)
46	2.625 (66.68)	3.031 (76.99)	3.250 (82.55)	.219 (5.56)
47	2.656 (67.46)	3.000 (76.20)	3.375 (85.73)	.281 (7.14)
48	2.906 (73.81)	3.250 (82.55)	3.625 (92.08)	.281 (7.14)
49	3.156 (80.16)	3.500 (88.90)	3.875 (98.43)	.281 (7.14)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

   ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = ±.03 AND .XXX = ±.015 ANGULAR TOLERANCES X = ±2. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM.

2. MATERIAL: SEE TABLE 2.

TABLE 2 - MATERIAL DESIGNATORS

MATERIAL DESIGNATOR	MATERIAL
M	CONDUCTIVE-SILVER PLATED ALUMINUM FILLED SILICONE, IN ACCORDANCE WITH MIL-DTL-83528, TYPE 'B', CAPABLE OF 100 dB AT 10 GHz. TEMPERATURE RANGE -55 TO +160 °C
F	FLUOROSILICONE IN ACCORDANCE WITH AMS-R-25988 OR MIL-DTL-25988
C	CONDUCTIVE-SILICONE WITH ALUMINUM OR MONEL MESH, CAPABLE OF 80 dB AT 100 MHz. TEMPERATURE RANGE –57 TO +260 °C
N	NEOPRENE IN ACCORDANCE WITH AMS3208
S	SILICONE IN ACCORDANCE WITH AA-59588
V	VITON IN ACCORDANCE WITH AMS7276, AMS7259, AMS3216, OR AMS3218

3. PART OR IDENTIFYING NUMBER (PIN):

   EXAMPLE: M85049/ 130 - 18 S

   BASIC PART NUMBER

   SPECIFICATION SHEET

   DASH NUMBER, (SEE TABLE 1)

   MATERIAL DESIGNATOR, (SEE TABLE 2)

4. QUALIFICATION:

   SEE AS85049, CATEGORY 7.

5. GASKET USED WITH CONNECTOR AND ASSOCIATED SHELL SIZE PER TABLE 3