

REV.
D

AS85049™/60

RATIONALE

REVISION IS REQUIRED TO ADD THE APPLICABLE AS95234 CONNECTOR SPECIFICATION TO THE DOCUMENT TITLE AND TABLE 1, TO REPLACE SUPERSESSION IMAGES WITH WORD TEXT, AND TO UPDATE FINISH RESTRICTION FOOTNOTES.

NOTICE

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

SAE Executive Standards Committee Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

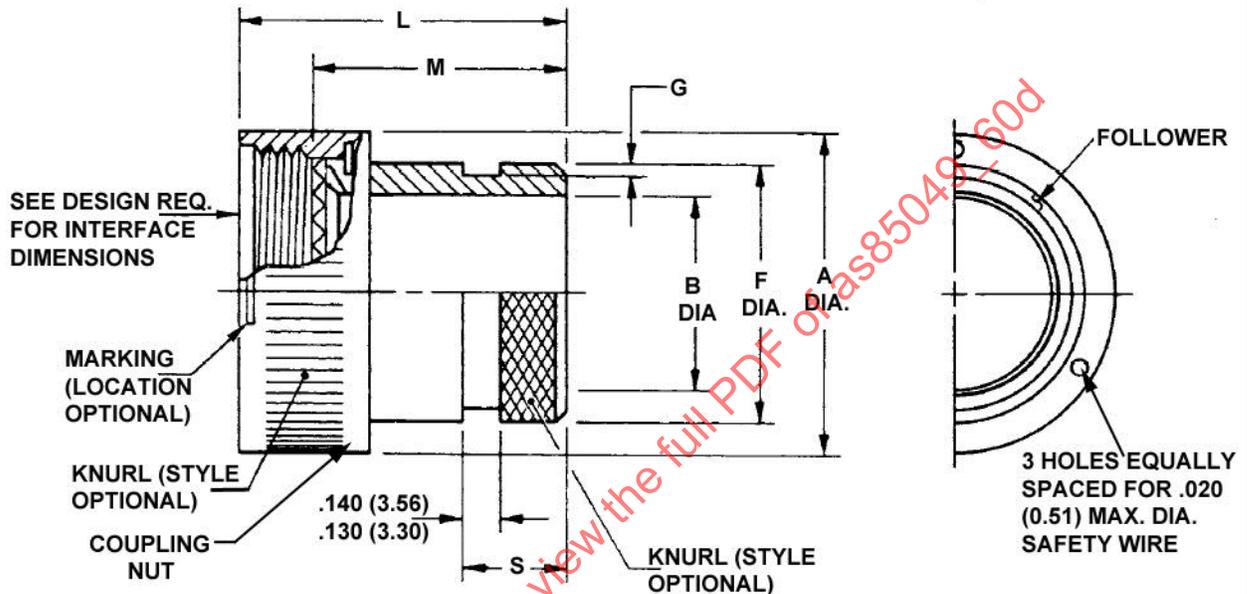
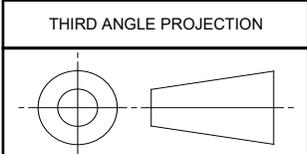


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

SAENORM.COM : Click to view the full PDF of AS85049-60d

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/60D>



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR, ACCESSORIES, ELECTRICAL, ADAPTER, SHRINK BOOT, CATEGORY 5 (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/60
SHEET 1 OF 5

REV. D

ISSUED 1998-08 REVISED 2017-01 REAFFIRMED 2021-09

TABLE 1 – FIGURE 1 DASH NUMBERS AND DIMENSIONS

| DASH NO. | FOR CONNECTOR SHELL SIZE (REF.) | | | | A DIA. +.000 -.045 (1.14) | F DIA. +.000 -.020 (0.51) | G +.008 (0.20) -.000 | L MAX | M MAX | S ± .031 (0.79) | B MIN DIA |
|----------|---------------------------------|---------------------------------|-----------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------|----------------|--------------------|-----------------|
| | AS81703 SERIES 3 | MIL-DTL- 83723 SERIES III | AS95234 AS50151 CRIMP | MIL-DTL- 26482 SERIES 2 | | | | | | | |
| 3 | 3 | | | | .669 (17.0) | .533 (13.5) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .250 (6.4) |
| 8 | | 8 | 8S | 8 | .617 (15.7) | .533 (13.5) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .250 (6.4) |
| 10 | | 10 | 10S, 10SL | 10 | .734 (18.6) | .605 (15.4) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .355 (9.0) |
| 12 | 7 | 12 | 12S, 12 | 12 | .858 (21.8) | .774 (19.7) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .491 (12.5) |
| 14 | 12 | 14 | 14S, 14 | 14 | .984 (25.0) | .838 (21.3) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .565 (14.4) |
| 16 | 19 | 16 | 16S, 16 | 16 | 1.112 (28.2) | .963 (24.5) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .690 (17.5) |
| 18 | 27 | 18 | 18 | 18 | 1.218 (30.9) | 1.042 (26.5) | .044 (1.1) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .769 (19.5) |
| 20 | 37 | 20 | 20 | 20 | 1.345 (34.2) | 1.217 (30.9) | .069 (1.8) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | .894 (22.7) |
| 22 | | 22 | 22 | 22 | 1.468 (37.3) | 1.355 (34.4) | .069 (1.8) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | 1.019 (25.9) |
| 24 | | 24 | 24 | 24 | 1.593 (40.5) | 1.443 (36.7) | .069 (1.8) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | 1.134 (28.8) |
| 28 | | | 28 | | 1.969 (50.0) | 1.709 (43.4) | .069 (1.8) | 1.511 (38.4) | .994 (25.2) | .406 (10.3) | 1.369 (34.8) |
| 32 | | | 32 | | 2.219 (56.4) | 1.919 (48.7) | .086 (2.2) | 1.511 (38.4) | .994 (25.2) | .563 (14.3) | 1.615 (41.0) |
| 36 | | | 36 | | 2.469 (62.7) | 2.169 (55.1) | .086 (2.2) | 1.511 (38.4) | .994 (25.2) | .563 (14.3) | 1.830 (46.5) |
| 40 | | | 40 | | 2.719 (69.1) | 2.402 (61.0) | .086 (2.2) | 1.511 (38.4) | .994 (25.2) | .563 (14.3) | 2.045 (51.9) |
| 44 | | | 44 | | 2.969 (75.4) | 2.657 (67.5) | .086 (2.2) | 1.511 (38.4) | .994 (25.2) | .563 (14.3) | 2.300 (58.4) |
| 48 | | | 48 | | 3.219 (81.8) | 2.907 (73.8) | .086 (2.2) | 1.511 (38.4) | .994 (25.2) | .563 (14.3) | 2.550 (64.8) |
| 61 | 61 | | | | 1.653 (42.0) | 1.529 (38.8) | .069 (1.8) | 1.187 (30.1) | .832 (21.1) | .406 (10.3) | 1.174 (29.8) |

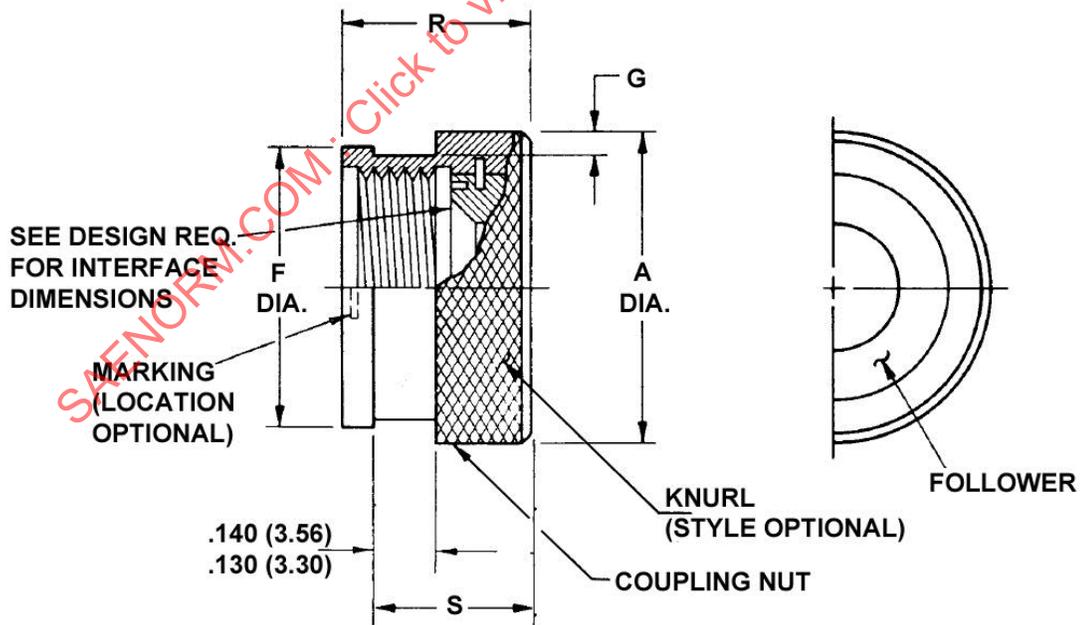


FIGURE 2 – ACCESSORY CONFIGURATION AND DIMENSIONS

| | | | |
|---|--|------------------------------------|-------------------------|
|  | AEROSPACE STANDARD (R) CONNECTOR, ACCESSORIES, ELECTRICAL, ADAPTER, SHRINK BOOT, CATEGORY 5 (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS) | AS85049™/60 SHEET 2 OF 5 | REV. D |
| | | | |

TABLE 2 – FIGURE 2 DASH NUMBERS AND DIMENSIONS

| DASH NO. | FOR CONNECTOR SHELL SIZE (REF.) | | | | A DIA + .000 - .045 (1.14) | F DIA + .000 - .020 (0.51) | G + .008 (0.20) - .000 | R MAX | S ± .031 (0.79) |
|----------|---------------------------------|---------------------------------|-----------------------------|-------------------------------|-------------------------------------|-------------------------------------|------------------------------|----------------|--------------------|
| | AS81703 SERIES 3 | MIL-DTL- 83723 SERIES III | AS95234 AS50151 CRIMP | MIL-DTL- 26482 SERIES 2 | | | | | |
| 3 | 3 | | | | .750 (19.1) | .709 (18.0) | .044 (1.1) | .540 (13.7) | .406 (10.3) |
| 8 | | 8 | 8S | 8 | .688 (17.5) | .657 (16.7) | .044 (1.1) | .540 (13.7) | .406 (10.3) |
| 10 | | 10 | 10S, 10SL | 10 | .803 (20.4) | .774 (19.7) | .044 (1.1) | .540 (13.7) | .406 (10.3) |
| 12 | 7 | 12 | 12S, 12 | 12 | .938 (23.8) | .898 (22.8) | .044 (1.1) | .540 (13.7) | .406 (10.3) |
| 14 | 12 | 14 | 14S, 14 | 14 | 1.063 (27.0) | 1.024 (26.0) | .044 (1.1) | .540 (13.7) | .406 (10.3) |
| 16 | 19 | 16 | 16S, 16 | 16 | 1.238 (31.4) | 1.152 (29.3) | .069 (1.1) | .540 (13.7) | .406 (10.3) |
| 18 | 27 | 18 | 18 | 18 | 1.310 (33.3) | 1.243 (31.6) | .069 (1.1) | .540 (13.7) | .406 (10.3) |
| 20 | 37 | 20 | 20 | 20 | 1.436 (36.5) | 1.370 (34.8) | .069 (1.8) | .540 (13.7) | .406 (10.3) |
| 22 | | 22 | 22 | 22 | 1.560 (39.6) | 1.443 (36.7) | .069 (1.8) | .540 (13.7) | .406 (10.3) |
| 24 | | 24 | 24 | 24 | 1.686 (42.8) | 1.618 (41.1) | .069 (1.8) | .540 (13.7) | .406 (10.3) |
| 28 | | | 28 | | 2.062 (52.4) | 1.969 (50.0) | .086 (1.8) | .702 (17.8) | .406 (10.3) |
| 32 | | | 32 | | 2.312 (58.7) | 2.219 (56.4) | .086 (2.2) | .702 (17.8) | .563 (14.3) |
| 36 | | | 36 | | 2.562 (65.1) | 2.469 (62.7) | .086 (2.2) | .702 (17.8) | .563 (14.3) |
| 40 | | | 40 | | 2.812 (71.4) | 2.719 (69.1) | .086 (2.2) | .702 (17.8) | .563 (14.3) |
| 44 | | | 44 | | 3.062 (77.8) | 2.969 (75.4) | .086 (2.2) | .702 (17.8) | .563 (14.3) |
| 48 | | | 48 | | 3.312 (84.1) | 3.219 (81.8) | .086 (2.2) | .702 (17.8) | .563 (14.3) |
| 61 | 61 | | | | 1.748 (44.4) | 1.653 (42.0) | .069 (1.8) | .540 (13.7) | .406 (10.3) |

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 FIGURES 1 AND 2 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM (SEE TABLE 1). UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = ± .03 AND .XXX = ± .015 ANGULAR TOLERANCES X = ± 2.

INTERFACE DIMENSIONS SHALL BE IN ACCORDANCE WITH AS85049, FIGURE 4 OR 4A.

THE COUPLING NUT SHALL BE CAPTIVATED TO THE ADAPTER BODY AND SHALL BE FREE TO ROTATE ON THE FOLLOWER. USE WITH AS85049/140 AND AS85049/141 SHRINKBOOTS.

2. MATERIAL AND FINISH: SEE TABLE 3.

TABLE 3 – MATERIAL AND FINISH

| FIGURE | MATERIAL | FINISH |
|--------|---|---------------------------|
| 1 & 2 | ALUMINUM ALLOY IN ACCORDANCE WITH AS85049 | A, 1/ N, 2/ W, X, Y, 2/ Z |

1/ N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.

2/ W AND Z FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

| | | | |
|---|--|------------------------------------|-------------------|
|  | AEROSPACE STANDARD (R) CONNECTOR, ACCESSORIES, ELECTRICAL, ADAPTER, SHRINK BOOT, CATEGORY 5 (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS) | AS85049™/60 SHEET 3 OF 5 | REV. D |
| | | | |

