FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, TO ADD METRIC EQUIVALENTS FOR THE DIMENSIONAL TOLERANCE VALUES, TO INCORPORATE THE NOTES INTO THE REQUIREMENTS SECTION, AND TO UPDATE THE DOCUMENT TO THE 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.

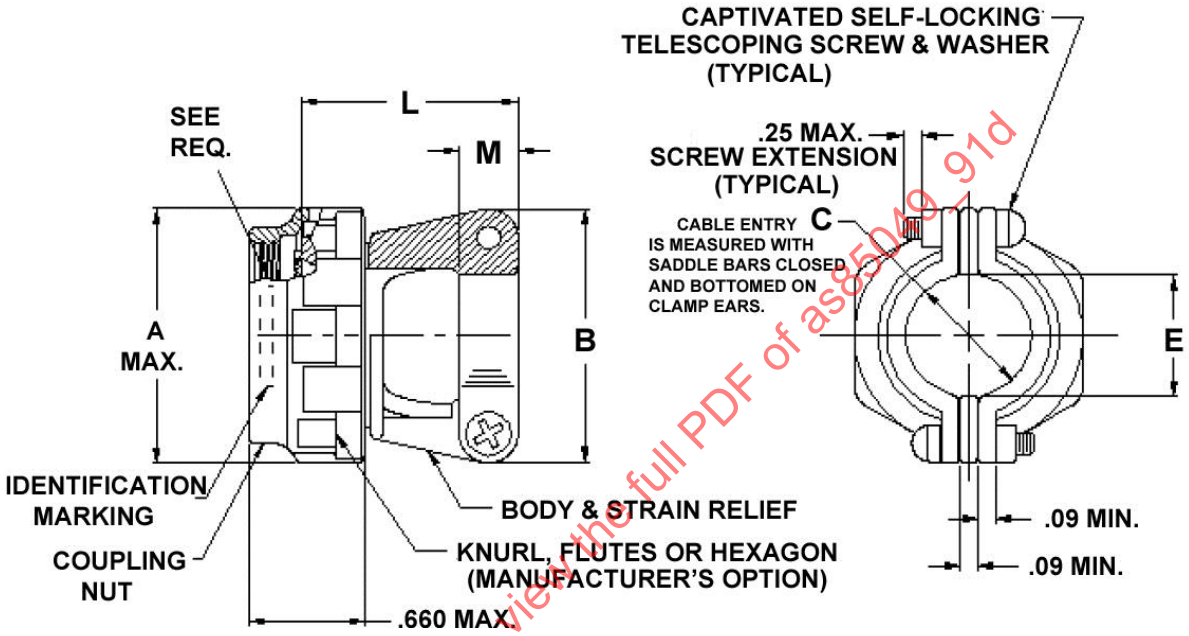


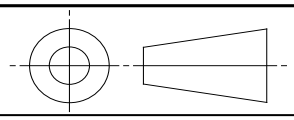
FIGURE 1 - CONFIGURATION AND DIMENSIONS

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS
.09	2.29	.660	16.76
.25	6.35		

For more information on this standard, visit
https://www.sae.org/standards/content/AS85049/91D

THIRD ANGLE PROJECTION



ISSUED 2000-06 REVISED 2016-03 REAFFIRMED 2020-10

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE INTERNATIONAL

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, COMPOSITE, ELECTRICAL, STRAIN RELIEF, STRAIGHT, SELF-LOCKING, CATEGORY 4C (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

TABLE 2 - SHELL SIZES AND DIMENSIONS

SHELL SIZE	A MAX DIA	B MAX	C ±.031 (0.78) DIA	E MIN	L MAX	M ±.03 (0.76)	SCREW SIZE
09	.858 (21.79)	.980 (24.89)	.219 (5.56)	.229 (5.82)	.840 (21.23)	.375 (9.53)	4-40
11	.984 (24.99)	1.05 (26.67)	.264 (6.71)	.274 (6.96)	.960 (24.28)	.375 (9.53)	4-40
13	1.157 (29.39)	1.20 (30.48)	.344 (8.74)	.354 (8.99)	1.100 (27.94)	.406 (10.31)	6-32
15	1.280 (32.51)	1.30 (33.02)	.460 (11.68)	.470 (11.94)	1.100 (27.94)	.406 (10.31)	6-32
17	1.406 (35.71)	1.42 (36.07)	.545 (13.84)	.555 (14.10)	1.230 (31.24)	.406 (10.31)	6-32
19	1.516 (38.51)	1.52 (38.61)	.615 (15.62)	.625 (15.88)	1.410 (35.81)	.406 (10.31)	6-32
21	1.642 (41.51)	1.64 (41.66)	.698 (17.73)	.708 (17.98)	1.510 (38.35)	.406 (10.31)	6-32
23	1.768 (44.91)	1.77 (44.96)	.780 (19.81)	.790 (20.07)	1.660 (42.16)	.406 (10.31)	6-32
25	1.890 (48.01)	1.89 (48.01)	.850 (21.59)	.860 (21.84)	1.760 (44.70)	.406 (10.31)	6-32

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 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESES AND GIVEN FOR GENERAL INFORMATION ONLY. PART SUPPLIED WITH STANDARD DETENTED SELF-LOCKING WHICH PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION 'N' IS A FREE SPINNING SELF-LOCKING COUPLING.

2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 3 OR 3A.

3. ACCESSORY:

   CONSIST OF A COUPLING NUT, CLAMP STRAIN RELIEF AND SADDLE BARS. THE COUPLING NUT SHALL BE CAPTIVATED TO THE CLAMP AND IS FREE TO ROTATE. ACCESSORIES WILL NOT ACCOMMODATE CONNECTORS USING SIZE 8, 4, OR 0 CONTACTS.

4. CLAMP SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE OR WIRES.

5. MATERIAL AND FINISH: IN ACCORDANCE WITH AS85049 AND TABLE 3 HEREIN.

6. CAPTIVATED SELF-LOCKING TELESCOPING SCREWS AND WASHERS: 300 SERIES CORROSION-RESISTANT STEEL/ PASSIVATED, SILVER PLATE OPTIONAL.

TABLE 3 - MATERIAL AND FINISH

MATERIAL	FINISH
COMPOSITE (CONDUCTIVE)	J - CADMIUM OLIVE DRAB 1/ 2/ M - ELECTROLESS NICKEL 1/ XC - NICKEL FLUOROCARBON POLYMER 1/ YC - PURE DENSE ELECTRODEPOSITED ALUMINUM 1/ ZC - ZINC NICKEL 1/ 2/
COMPOSITE (NONCONDUCTIVE)	T - COMPOSITE MATERIAL WITHOUT PLATING (NATURAL OR BLACK COLOR-MANUFACTURER'S OPTION)

1/ COUPLING NUT AND SADDLES MAY BE UNPLATED (NATURAL OR BLACK COLOR-MANUFACTURER'S OPTION).
2/ FINISHES NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).