

REV.
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AS85049/103

FEDERAL SUPPLY CLASS
5935

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.

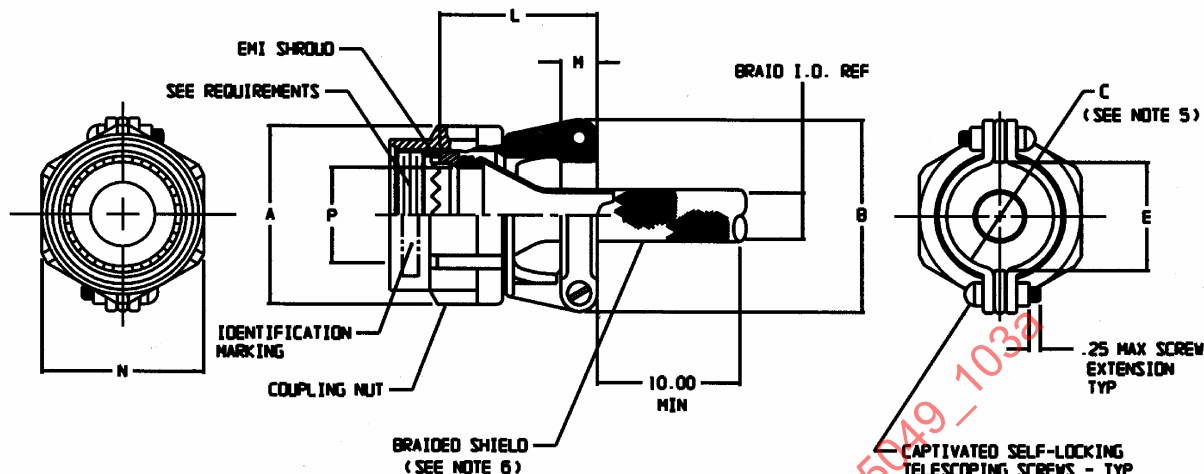
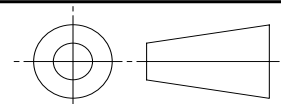


FIGURE 1 - CONFIGURATION AND DIMENSIONS

TABLE 1 - SHELL SIZES AND DIMENSIONS

SHELL SIZE	A MAX DIA	B MAX	C ±.031 DIA SEE NOTE 5	E MIN	L	M ±.03	N HEX	P MIN	BRAID ID REF	SCREW SIZE
09	.858 (21.79)	.98 (24.89)	.265 (6.73)	.229 (5.82)	.780/.939 (19.81/23.85)	.375 (9.53)	.750/.736 (19.05/18.69)	.264 (6.71)	.375 (9.53)	4-40
11	.984 (24.99)	1.05 (26.67)	.310 (7.87)	.274 (6.96)	.860/1.059 (21.84/26.90)	.375 (9.53)	.875/.860 (22.23/21.84)	.390 (9.91)	.375 (9.53)	4-40
13	1.157 (29.39)	1.20 (30.48)	.390 (9.91)	.354 (8.99)	.950/1.199 (24.10/30.45)	.406 (10.31)	1.000/.980 (25.40/24.89)	.504 (12.80)	.500 (1.27)	6-32
15	1.280 (32.51)	1.30 (33.02)	.506 (12.85)	.470 (11.94)	.950/1.199 (24.13/30.45)	.406 (10.31)	1.125/1.100 (28.58/27.94)	.630 (16.00)	.500 (1.27)	6-32
17	1.406 (35.71)	1.44 (36.58)	.591 (15.01)	.555 (14.10)	1.080/1.329 (27.43/33.75)	.406 (10.31)	1.250/1.224 (31.75/31.09)	.756 (19.20)	.781 (19.84)	6-32
19	1.516 (38.51)	1.56 (39.62)	.661 (16.79)	.625 (15.88)	1.140/1.509 (28.9/38.33)	.406 (10.31)	1.375/1.348 (34.93/34.24)	.843 (21.41)	.781 (19.84)	6-32
21	1.642 (41.51)	1.69 (42.92)	.744 (18.90)	.708 (17.98)	1.200/1.609 (30.5/40.87)	.406 (10.31)	1.500/1.469 (38.10/37.31)	.969 (24.61)	1.000 (25.40)	6-32
23	1.768 (44.91)	1.77 (44.96)	.826 (20.98)	.790 (20.07)	1.330/1.759 (33.8/44.68)	.406 (10.31)	1.625/1.581 (41.28/40.16)	1.091 (27.71)	1.000 (25.40)	6-32
25	1.890 (48.01)	1.89 (48.01)	.896 (22.76)	.860 (21.84)	1.450/1.859 (36.8/47.22)	.406 (10.31)	1.750/1.690 (44.45/42.93)	1.217 (30.91)	1.250 (31.75)	6-32

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group**AEROSPACE STANDARD**

CONNECTORS, ACCESSORIES, COMPOSITE,
RFI/EMI, ELECTRICAL, STRAIN RELIEF, STRAIGHT,
SELF-LOCKING, CATEGORY 3C
(FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049/103
SHEET 1 OF 3**REV.
A**

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NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.
3. MILLIMETERS ARE IN PARENTHESES.
4. DIMENSIONS APPLY AFTER PLATING.
5. CABLE ENTRY IS MEASURED WITH SADDLE BARS CLOSED AND BOTTOMED ON CLAMP EARS.
6. FOR SHIELD SPLICE/TERMINATION USE AS85049/93 SPLIT SUPPORT RING.
7. DETENTED SELF-LOCKING HAS A POSITIVE AUDIBLE, DETENTED COUPLING.

REQUIREMENTS:

1. CONNECTOR ACCESSORY DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATIONS: SEE FIGURE 1.

2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH SAE AS85049, FIGURE 3.
3. ACCESSORIES: CONSIST OF A COUPLING NUT, CLAMP STRAIN RELIEF, BRAIDED SHIELD AND SADDLE BARS. THE COUPLING NUT SHALL BE CAPTIVATED TO THE CLAMP AND IS FREE TO ROTATE.
4. CLAMP SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
5. MATERIAL AND FINISH: IN ACCORDANCE WITH SAE AS85049
CLAMP BODY, COUPLING AND SADDLE CLAMPS: COMPOSITE (NON-CONDUCTIVE NO FINISH)
SELF-LOCKING TELESCOPING SCREWS AND WASHERS: 300 SERIES CORROSION-RESISTANT
STEEL/PASSIVATED SILVER PLATE OPTIONAL
BRAID: 34 GAUGE WIRE, COPPER, NICKEL PLATED, 50 MICRO-INCHES MINIMUM THICKNESS
BRAID CONSTRUCTION: SIMILAR TO AA59569, 34 AWG CARRIERS AND ENDS MAY VARY TO OBTAIN 90%
COVERAGE
INTERFACE AND SHROUD: BRASS, NICKEL PLATED
BRAID RETENTION DEVICE: ALUMINUM/IRIDITE PER AMS-C-5541 OR 300 SERIES CORROSION RESISTANT
STEEL/ PASSIVATED OR COPPER/TIN PLATED
6. TEMPERATURE CYCLING: IN ACCORDANCE WITH SAE AS85049, FINISH M.
7. VIBRATION: BACKSHELLS SHALL BE SUBJECTED TO TEST PARAMETERS OF APPLICABLE CONNECTOR SPECIFICATIONS. THE COUPLING TORQUE SHALL BE WITHIN +20, -10 INCH-POUNDS OF THE INITIAL VALUE.
8. OZONE EXPOSURE: ONE BACKSHELL ONLY SHALL BE TESTED IN ACCORDANCE WITH EIA 364.
SAMPLE PREPARATION: N/A.
FAILURES: BLISTERING OR PEELING OF PLATING OR ANY CONDITION THAT ADVERSELY AFFECTS THE FUNCTION OF THE BACKSHELLS.
9. FLUID IMMERSION: ACCESSORIES SHALL BE TESTED IN ACCORDANCE WITH SAE AS85049. AFTER IMMERSION THE ACCESSORIES SHALL MEET THE COUPLING STRENGTH REQUIREMENTS OF SAE AS85049.