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AS85049™/80

FEDERAL SUPPLY CLASS  
5935

## RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, TO ADD A SINGLE METRIC TABLE FOR THE FIGURES, TO ADD THE APPLICABLE PROCUREMENT SPECIFICATION AND TO MOVE THE NOTES TO THE REQUIREMENTS SECTION.

## NOTICE

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

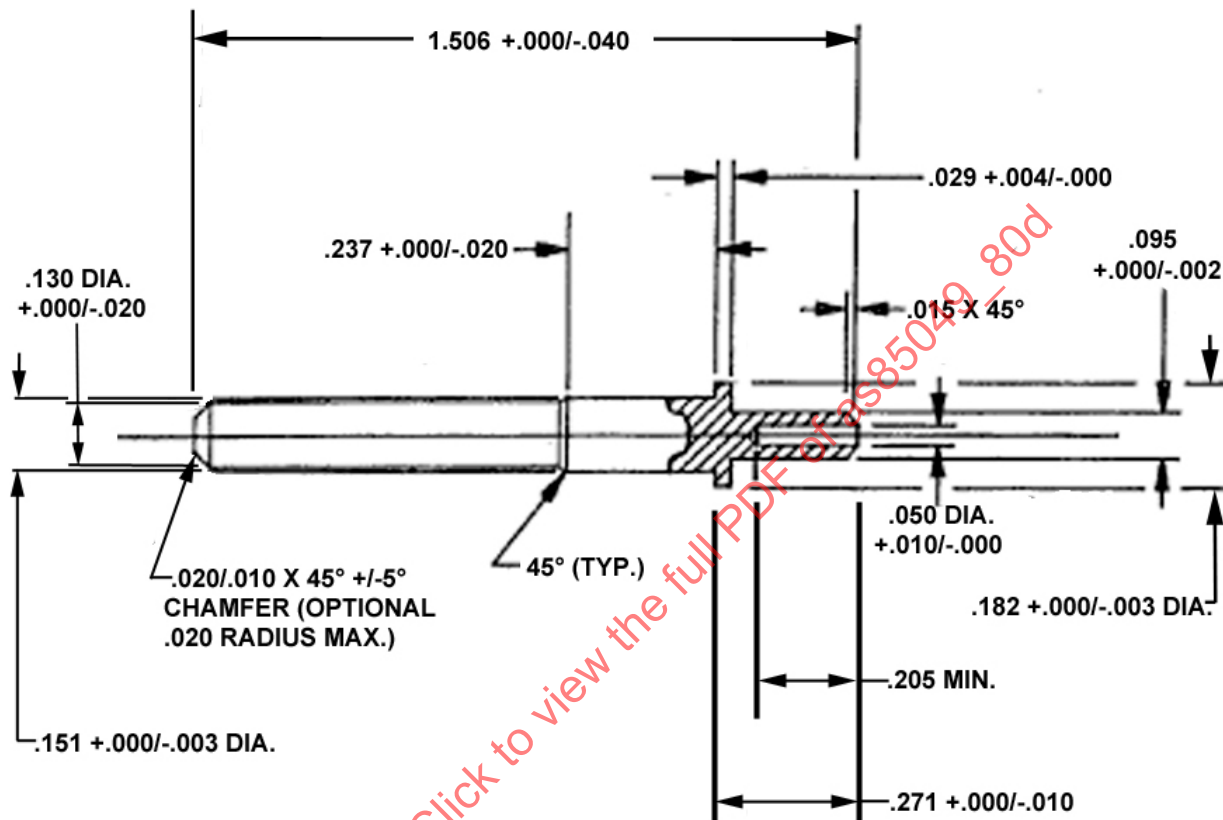
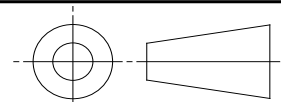


FIGURE 1 – ACCESSORY DIMENSIONS AND CONFIGURATION FOR SIZE 12 CONTACTS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/80D>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



## AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL,  
DUMMY CONTACT, SIZES 16, 12, AND 8,  
CATEGORY 7 (FOR MIL-DTL-38999 CONNECTORS)

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SHEET 1 OF 4

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ISSUED 2000-06 REVISED 2017-01 REAFFIRMED 2021-08

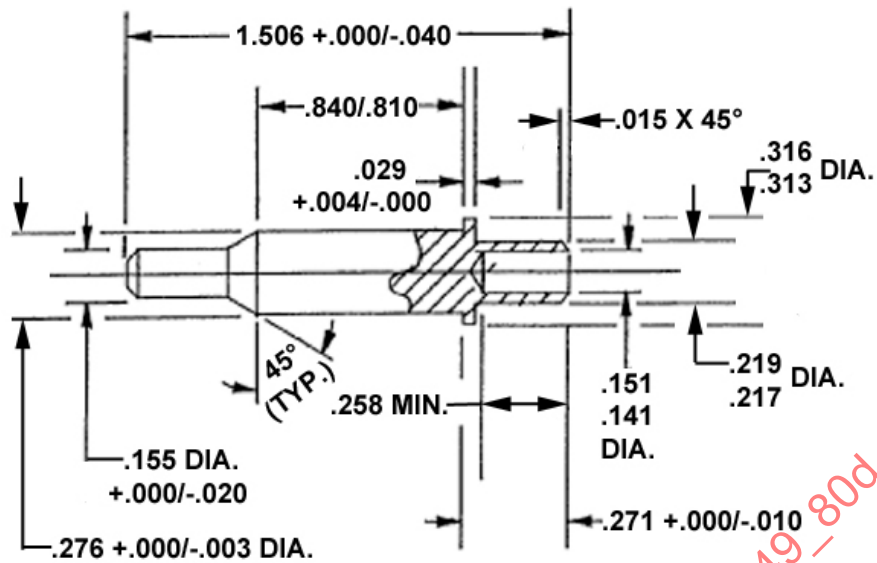


FIGURE 2 – ACCESSORY DIMENSIONS AND CONFIGURATION FOR SIZE 8 CONTACTS

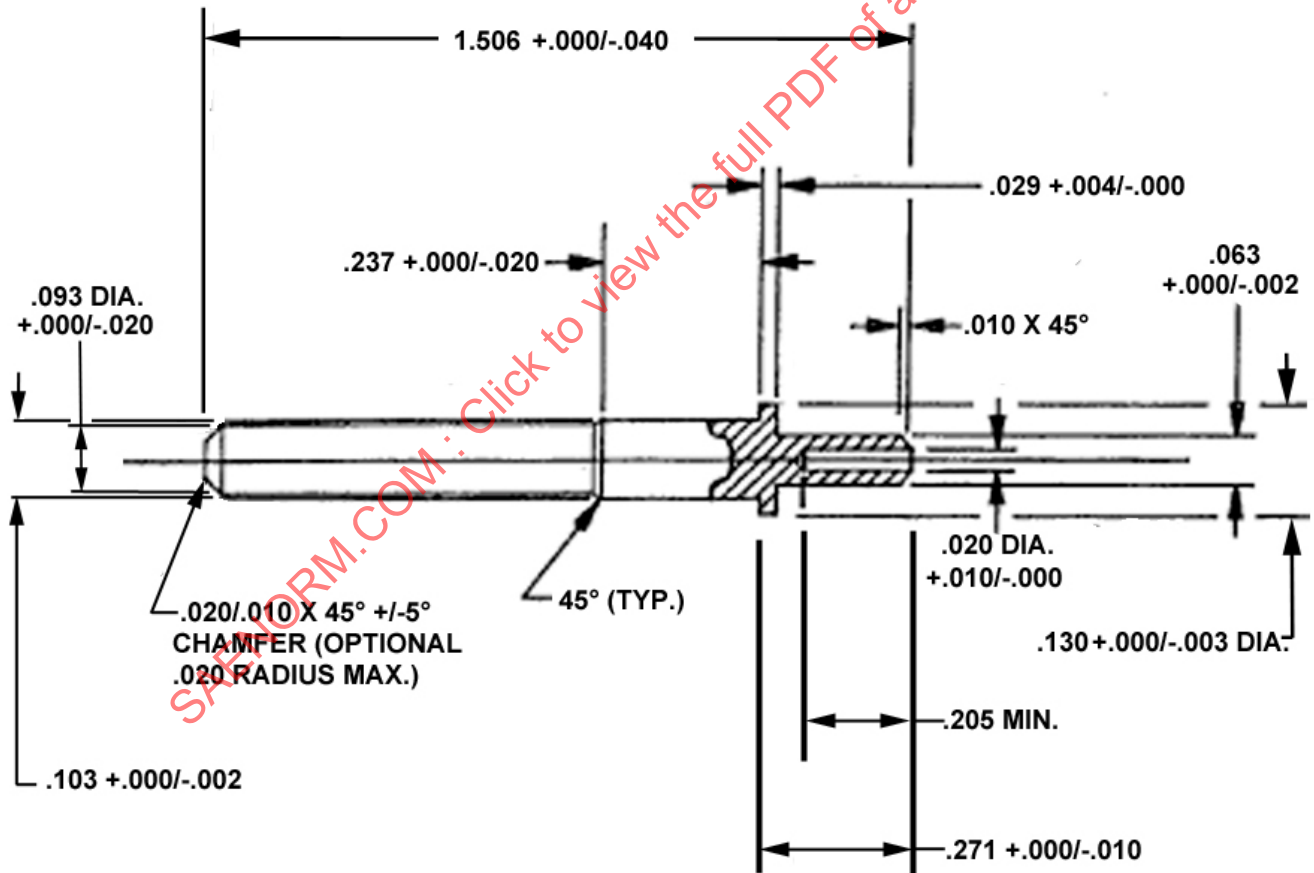


FIGURE 3 – ACCESSORY DIMENSIONS AND CONFIGURATION FOR SIZE 16 CONTACTS



**AEROSPACE STANDARD**  
(R) CONNECTOR ACCESSORIES, ELECTRICAL,  
DUMMY CONTACT, SIZES 16, 12, AND 8,  
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**TABLE 1 – FIGURES 1 THROUGH 3 METRIC EQUIVALENTS**

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.002	0.05	.050	1.27	.155	3.94	.276	7.01
.003	0.08	.063	1.60	.182	4.62	.313	7.95
.004	0.10	.093	2.36	.205	5.21	.316	8.03
.010	0.25	.095	2.41	.217	5.51	.810	20.57
.015	0.38	.103	2.62	.219	5.56	.840	21.34
.020	0.51	.130	3.30	.237	6.02	1.506	38.25
.029	0.74	.141	3.58	.258	6.55		
.040	1.02	.151	3.84	.271	6.88		

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 THRU 3. DIMENSIONS ARE IN INCHES. 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 =  $\pm 0.01$ ; XXX =  $\pm 0.005$ ; ANGULAR  $X^\circ = \pm 1^\circ$ ;  $X^\circ XX' = 0^\circ \pm 30'$ .

2. BREAK ALL SHARP EDGES.

3. DUMMY CONTACT SHALL BE FREE OF ALL MOLDING MARKS, PROTRUSIONS, AND BLEMISHES WITH EXCEPTION OF THE GATE CUTOFF LOCATION. MOLDING MARKS, PROTRUSIONS, AND BLEMISHES FROM GATE CUTOFFS ARE PERMISSIBLE BUT SHALL NOT BE GREATER THAN .005 INCH (0.13 MM) IN HEIGHT.

4. MATERIALS:

PLASTIC ROD, MOLDED, AND EXTRUDED: TEMPERATURE LIMIT 200 °C MINIMUM.  
 POLYTETRAFLUOROETHYLENE PER ASTM D1710.  
 FLUORINATED ETHYLENE PROPYLENE (FEP) PER ASTM D2116.  
 PERFLUOROALKOXY (PFA) PER ASTM D3307.

5. COLOR:

SIZE 16: BLUE, COLOR TO BE IN ACCORDANCE WITH EIA RS359.  
 SIZE 12: YELLOW, COLOR TO BE IN ACCORDANCE WITH EIA RS359.  
 SIZE 8: GREEN, COLOR TO BE IN ACCORDANCE WITH EIA RS359.

6. INSULATION RESISTANCE: SHALL BE 100 MEGOHMS MINIMUM AT 500 V DC WHEN TESTED IN ACCORDANCE WITH EIA 364-21, USING FLAT PROBES PLACED ON OPPOSITE ENDS OF THE DUMMY CONTACT.

7. TOOLS: SEE TABLE 2.

**TABLE 2 – DASH NUMBER AND TOOLS**

DASH NUMBER	GAUGE SIZE	INSTALLING TOOLS	REMOVAL TOOLS
-16	SIZE 16	M81969/14-03	M81969/14-03
-12	SIZE 12	M81969/14-04	M81969/14-04
-8	SIZE 8 1/	M81969/14-06	M81969/14-06

1/ SEE APPLICATION NOTE 3 AND FIGURE 4.