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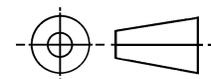
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THIRD ANGLE PROJECTION



ISSUED 2001-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, STRAIGHT, SHIELD TERMINATION, CATEGORY 3A (FOR MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3, AND MIL-C-83723 SERIES III CONNECTORS)

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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: MIL-C-85049.

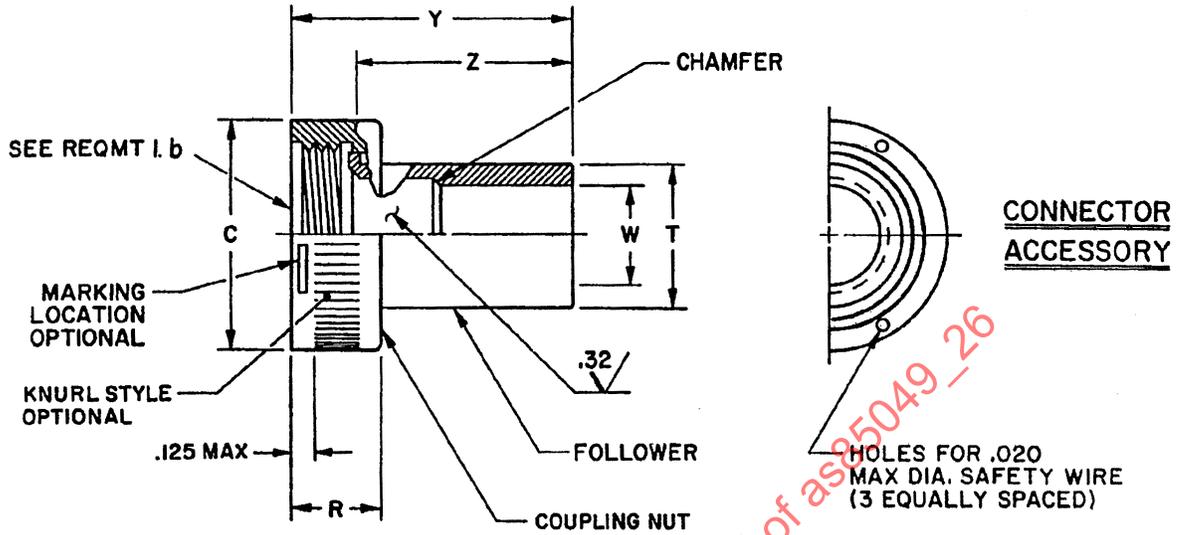


FIGURE 1. CONFIGURATION AND DIMENSIONS.

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TABLE I. DIMENSIONS.

| Dash Number | For Connection Shell Size (Ref) | | | MIL-C-83723 Series III | C Dia +.000 -.345 |
|-------------|---------------------------------|----------------------|------------------|------------------------|-------------------------|
| | MIL-C-81703 Series 3 | MIL-C-26482 Series 2 | MIL-C-5015 Crimp | | |
| -3 | 3 | | | | .669 |
| -8 | | 8 | 8S | 8 | .617 |
| -10 | | 10 | 10S, 10SL | 10 | .734 |
| -12 | 7 | 12 | 12S&12 | 12 | .858 |
| -14 | 12 | 14 | 14S&14 | 14 | .984 |
| -16 | 19 | 16 | 16S&16 | 16 | 1.112 |
| -18 | 27 | 18 | 18 | 18 | 1.218 |
| -20 | 37 | 20 | 20 | 20 | 1.345 |
| -22 | | 22 | 22 | 22 | 1.468 |
| -24 | | 24 | 24 | 24 | 1.593 |
| -28 | | | 28 | | 1.969 |
| -32 | | | 32 | | 2.219 |
| -36 | | | 36 | | 2.469 |
| -40 | | | 40 | | 2.719 |
| -44 | | | 44 | | 2.969 |
| -46 | | | 48 | | 3.219 |
| -61 | 61 | | | | 1.653 |

| Dash Number | R +.000 -.062 | T +.010 Dia | W +.015 Dia | Y Max | M85049/26-2 Ring, Shield Crimp (Ref) | Z +.031 |
|-------------|---------------------|-------------------|-------------------|----------|--|------------|
| -3 | .540 | .337 | .250 | 1.277 | -8 | .926 |
| -8 | .540 | .337 | .250 | 1.277 | -8 | .926 |
| -10 | .540 | .488 | .325 | 1.277 | -10 | .926 |
| -12 | .540 | .500 | .420 | 1.277 | -12 | .926 |
| -14 | .540 | .620 | .540 | 1.277 | -14 | .926 |
| -16 | .540 | .750 | .670 | 1.277 | -16 | .926 |
| -18 | .540 | .880 | .789 | 1.277 | -18 | .926 |
| -20 | .540 | 1.000 | .914 | 1.277 | -20 | .926 |
| -22 | .540 | 1.120 | 1.039 | 1.277 | -22 | .926 |
| -24 | .540 | 1.192 | 1.112 | 1.277 | -24 | .926 |
| -28 | .702 | 1.545 | 1.389 | 1.439 | -28 | .926 |
| -32 | .702 | 1.795 | 1.635 | 1.439 | -32 | .926 |
| -36 | .702 | 2.045 | 1.850 | 1.439 | -36 | .926 |
| -40 | .702 | 2.295 | 2.065 | 1.439 | -40 | .926 |
| -44 | .702 | 2.545 | 2.320 | 1.439 | -44 | .926 |
| -48 | .702 | 2.795 | 2.570 | 1.439 | -48 | .926 |
| -61 | .540 | 1.359 | 1.210 | 1.277 | -61 | .926 |

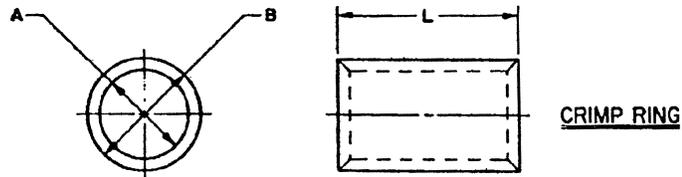


FIGURE 2. CRIMP RING.

TABLE II. DIMENSIONS.

| Dash No. | Color Code | A Dia | | B Dia | | L +.020 | For Use With Backshells (Ref) | For Use With Backshells (Ref) | For Use With Backshells (Ref) | Installing Die Cat. No. See Note 5 |
|----------|------------|-------|-------|-------|-------|------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------|
| | | Min | Max | Min | Max | | | | | |
| -8 | Green | .400 | .410 | .448 | .458 | .440 | M85049/26-1-8 | M85049/20-9 | M85049/33-2-8 | GS405 |
| -10 | Red | .585 | .595 | .660 | .680 | | M85049/26-1-10 | M85049/20-11 | M85049/33-2-10 | GS590 |
| -12 | | | | | | | M85049/26-1-12 | M85049/20-13 | M85049/33-2-12 | GS590 |
| -14 | Blue | .705 | .715 | .780 | .800 | | M85049/26-1-14 | M85049/20-15 | M85049/33-2-14 | GS710 |
| -16 | Gray | .835 | .845 | .910 | .930 | | M85049/26-1-16 | M85049/20-17 | M85049/33-2-16 | GS840 |
| -18 | Brown | 1.005 | 1.015 | 1.080 | 1.100 | | M85049/26-1-18 | M85049/20-19 | M85049/33-2-18 | GS1010 |
| -20 | Green | 1.125 | 1.135 | 1.200 | 1.220 | | M85049/26-1-20 | M85049/20-21 | M85049/33-2-20 | GS1130 |
| -22 | Pink | 1.245 | 1.255 | 1.320 | 1.340 | | M85049/26-1-22 | M85049/20-23 | M85049/33-2-22 | GS1250 |
| -24 | Yellow | 1.312 | 1.322 | 1.387 | 1.407 | | M85049/26-1-24 | M85049/20-25 | M85049/33-2-24 | GS1250 |
| -28 | Red | 1.665 | 1.675 | 1.740 | 1.760 | | M85049/26-1-28 | | | GS1670 |
| -32 | Gray | 1.915 | 1.925 | 1.990 | 2.010 | | M85049/26-1-32 | | | GS1920 |
| -36 | Green | 2.165 | 2.175 | 2.240 | 2.260 | | M85049/26-1-36 | | | GS2170 |
| -40 | Orange | 2.415 | 2.425 | 2.490 | 2.510 | | M85049/26-1-40 | | | GS2420 |
| -44 | Yellow | 2.665 | 2.675 | 2.740 | 2.760 | | M85049/26-1-44 | | | GS2670 |
| -48 | Blue | 2.915 | 2.925 | 2.990 | 3.010 | | M85049/26-1-48 | | | GS2920 |
| -61 | Purple | 1.435 | 1.445 | 1.510 | 1.530 | | M85049/26-1-61 | | | GS1440 |

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| INCH | mm | INCH | mm | INCH | mm |
|-------|-------|-------|-------|-------|-------|
| 0.010 | 0.25 | 0.910 | 23.11 | 1.675 | 42.55 |
| 0.015 | 0.38 | 0.914 | 23.22 | 1.740 | 44.20 |
| 0.020 | 0.51 | 0.926 | 23.52 | 1.760 | 44.70 |
| 0.062 | 1.57 | 0.930 | 23.62 | 1.795 | 45.59 |
| 0.125 | 3.18 | 0.984 | 24.99 | 1.850 | 46.99 |
| 0.250 | 6.35 | 1.000 | 25.40 | 1.915 | 48.64 |
| 0.320 | 8.13 | 1.005 | 25.53 | 1.925 | 48.89 |
| 0.325 | 8.25 | 1.015 | 25.78 | 1.969 | 50.01 |
| 0.337 | 8.56 | 1.039 | 26.39 | 1.990 | 50.55 |
| 0.345 | 8.76 | 1.080 | 27.43 | 2.010 | 51.05 |
| 0.400 | 10.16 | 1.100 | 27.94 | 2.045 | 51.94 |
| 0.410 | 10.41 | 1.112 | 28.24 | 2.065 | 52.45 |
| 0.420 | 10.67 | 1.120 | 28.45 | 2.165 | 54.99 |
| 0.440 | 11.18 | 1.125 | 28.58 | 2.175 | 55.24 |
| 0.448 | 11.38 | 1.135 | 28.83 | 2.219 | 56.36 |
| 0.458 | 11.63 | 1.192 | 30.28 | 2.240 | 56.90 |
| 0.488 | 12.40 | 1.200 | 30.48 | 2.260 | 57.40 |
| 0.500 | 12.70 | 1.210 | 30.73 | 2.295 | 58.29 |
| 0.540 | 13.72 | 1.218 | 30.94 | 2.320 | 58.93 |
| 0.585 | 14.86 | 1.220 | 30.99 | 2.415 | 61.34 |
| 0.595 | 15.11 | 1.245 | 31.62 | 2.425 | 61.59 |
| 0.617 | 15.67 | 1.255 | 31.88 | 2.469 | 62.71 |
| 0.620 | 15.75 | 1.277 | 32.44 | 2.490 | 63.25 |
| 0.660 | 16.76 | 1.320 | 33.53 | 2.510 | 63.75 |
| 0.669 | 16.99 | 1.340 | 34.04 | 2.545 | 64.64 |
| 0.670 | 17.02 | 1.345 | 34.16 | 2.570 | 65.28 |
| 0.680 | 17.27 | 1.359 | 34.52 | 2.665 | 67.69 |
| 0.702 | 17.83 | 1.389 | 35.28 | 2.675 | 67.95 |
| 0.705 | 17.91 | 1.435 | 36.45 | 2.719 | 69.06 |
| 0.715 | 18.16 | 1.439 | 36.55 | 2.740 | 69.60 |
| 0.734 | 18.64 | 1.445 | 36.70 | 2.760 | 70.10 |
| 0.750 | 19.05 | 1.468 | 37.29 | 2.795 | 70.99 |
| 0.780 | 19.81 | 1.510 | 38.35 | 2.915 | 74.04 |
| 0.789 | 20.04 | 1.530 | 38.86 | 2.925 | 74.29 |
| 0.800 | 20.32 | 1.545 | 39.24 | 2.969 | 75.41 |
| 0.835 | 21.21 | 1.593 | 40.46 | 2.990 | 75.95 |
| 0.845 | 21.46 | 1.635 | 41.53 | 3.010 | 76.45 |
| 0.858 | 21.79 | 1.653 | 41.99 | 3.219 | 81.76 |
| 0.880 | 22.35 | 1.665 | 42.29 | | |

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CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
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CATEGORY 3A (FOR MIL-C-5015 CRIMP, MIL-C-26482 SERIES 2,
MIL-C-81703 SERIES 3, AND MIL-C-83723 SERIES III CONNECTORS)

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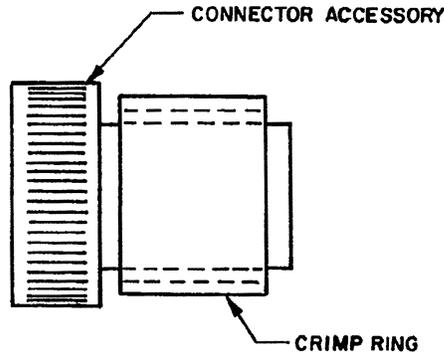


FIGURE 3. CONNECTOR ACCESSORY AND CRIMP RING (GOVERNMENT PROCUREMENT).

REQUIREMENTS:

1. Design and construction:
 - a. Dimensions and configuration: See figures 1 and 2 and table I.
 - b. Interface dimensions shall conform to MIL-C-85049, Figure 4.
 - c. Figure 1 consists of a coupling nut and follower. The coupling nut shall be captivated to and free to rotate on the follower.
2. Material and finish: See table II.
3. Qualification:

See MIL-C-85049, category 3A. The MIL-C-85049/26-2 connector accessory shall be qualified and supplied by the MIL-C-85049/26-1 connector accessory manufacturer. Figure 2 will require examination of product only.

Information pertaining to qualification of products may be obtained from the Commanding Officer, Naval Avionics Center, Attention: Code B/444, 6000 East 21st Street, Indianapolis, IN 46219-2189.

TABLE III. MATERIAL AND FINISH.

| Figure | Material | Finish |
|--------|--|--|
| 1 | Aluminum alloy in accordance with MIL-C-85049 | <u>1/</u> N, <u>2/</u> W |
| 2 | Copper, ASTM B75, Type DLP-WW-T-799 Rockwell F-50 max. or OFHC copper, CDA 102 or approved equivalent | Tin plate in accordance with MIL-T-10727 Type 1, color coded per table (see figure 2) |
| 3 | Connector Accessory - Aluminum alloy in accordance with MIL-C-85049 | <u>1/</u> N, <u>2/</u> W |
| | Crimp Ring - Copper, ASTM B75, Type DLP-WW-T-799 Rockwell F-50 max. or OFHC copper, CDA 102 or approved equivalent | Tin plate in accordance with MIL-T-10727, Type 1, color coded per table (see figure 2) |

- 1/ Not for Navy use. Restricted to Air Force Space applications only.
2/ W finish is not for use in space application.