

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO CLARIFY FIGURE 1 AND TABLE 1 FOR DIMENSIONS L AND P.

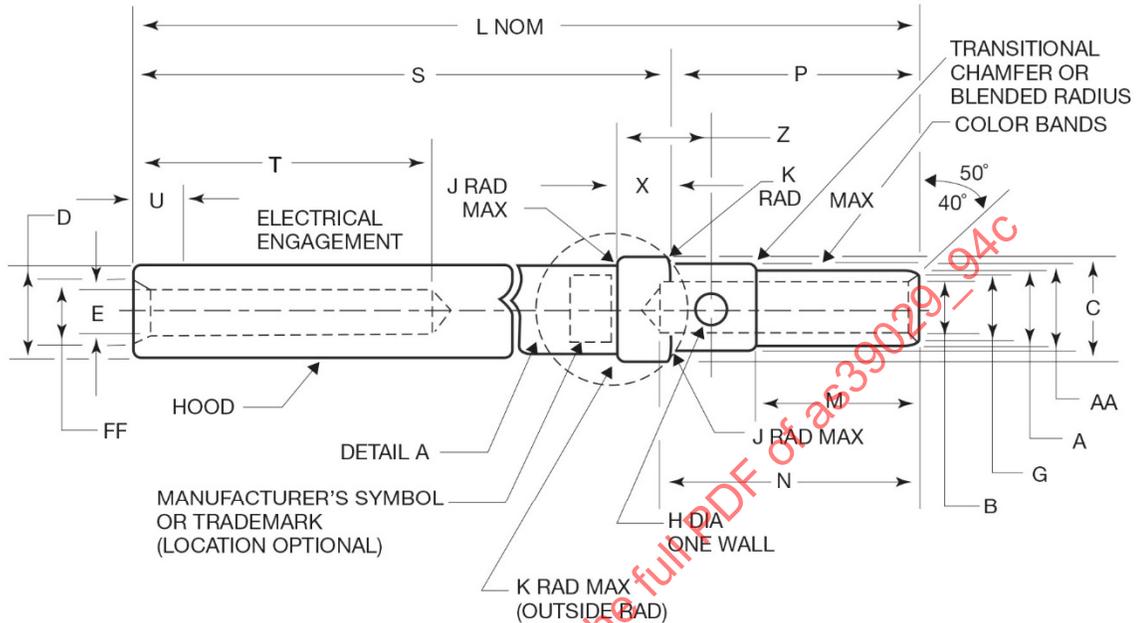
NOTICE

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF AS39029.

REV.
C

AS39029™/94

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SOCKET SIDE (ALL BIN CODES) AND WIRE BARREL SIDE (BIN 603 & 604)

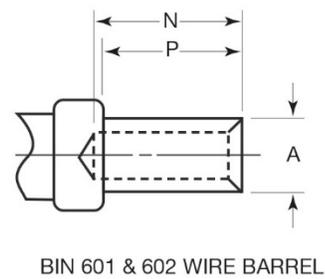
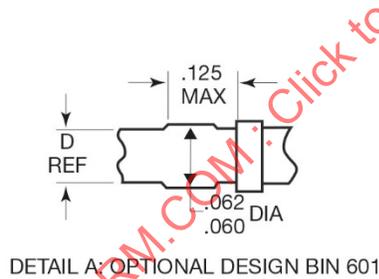
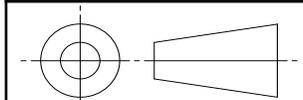


FIGURE 1 - AS39029/94 SOCKET CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/94C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE
(FOR MIL-DTL-83527 CONNECTORS)

AS39029™/94
SHEET 1 OF 3

REV. C

TABLE 1 - CONTACT DIMENSIONS

| BIN CODE | A DIA | B DIA | C DIA | D DIA | E DIA (MIN ONLY) | G DIA | H DIA | J RAD | K RAD | L (REF) |
|----------------|--------------|----------------|----------------------------|--------------|------------------|--------------|--------------|-------|-------|------------------------------|
| 601 (22-22) | .052 .050 | .0375 .0340 | .070 (1.78) .068 (1.73) | .061 .059 | .031 | .047 .041 | .022 .018 | .002 | .003 | .650 (16.51) .630 (16.00) |
| 602 (20-20) | .068 .065 | .0460 .0430 | .084 (2.13) .082 (2.08) | .074 .068 | .0415 | .058 .052 | .033 .025 | .002 | .003 | .918 (23.32) .898 (22.81) |
| 603 (16-16) | .103 .101 | .068 .066 | .134 (3.40) .130 (3.30) | .113 .106 | .064 | .090 .080 | .042 .036 | .003 | .005 | .965 (24.51) |
| 604 (12-12) | .151 .148 | .102 .098 | .190 (4.83) .186 (4.72) | .161 .158 | .0955 | .140 .130 | .042 .036 | .003 | .005 | .965 (24.51) |

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

| BIN CODE | M MIN | N | P | S | T MIN | U MAX | X | Z | AA DIA | FF MIN |
|----------------|-------|--------------|--------------|--------------|-------|-------|--------------|--------------|--------------|--------|
| 601 (22-22) | N/A | .165 .135 | .237 .231 | .410 .401 | .280 | .043 | .034 .029 | .161 .132 | --- | .043 |
| 602 (20-20) | N/A | .190 .150 | .165 .155 | .750 .745 | .325 | .041 | .034 .029 | .069 .054 | N/A | .056 |
| 603 (16-16) | .150 | .290 .250 | .257 .245 | .718 .710 | .468 | .060 | .048 .044 | .083 .069 | .111 .107 | .086 |
| 604 (12-12) | .150 | .290 .250 | .257 .245 | .718 .710 | .468 | .060 | .048 .044 | .083 .069 | .158 .155 | .116 |

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

| BIN CODE | COLOR BANDS | | | MATING END SIZE | WIRE BARREL SIZE | TYPE | CLASS |
|----------|-------------|-------|--------|-----------------|------------------|------|-------|
| | 1ST | 2ND | 3RD | | | | |
| 601 | BLUE | BLACK | BROWN | 22 | 22 | A | B |
| 602 | BLUE | BLACK | RED | 20 | 20 | | |
| 603 | BLUE | BLACK | ORANGE | 16 | 16 | | |
| 604 | BLUE | BLACK | YELLOW | 12 | 12 | | |

TABLE 3 - TOOL REQUIREMENTS

| BIN CODE | BASIC CRIMPING TOOL | POSITIONER | INSTALLING TOOL | REMOVAL TOOL |
|----------|---------------------|------------------|-----------------|--------------|
| 601 | M22520/2-01 | M22520/2-23 | M81969/1-01 | M81969/1-01 |
| 602 | M22520/2-01 | M22520/2-08 | M81969/1-02 | M81969/1-02 |
| | M22520/7-01 | M22520/7-02 | | |
| 603 | M22520/1-01 | M22520/1-02 BLUE | M81969/1-03 | M81969/1-03 |
| | M22520/7-01 | M22520/7-03 | | |
| 604 | M22520/1-01 | M22520/1-11 | N/A | M81969/28-02 |

TABLE 4 - CONTACT ENGAGEMENT AND SEPARATION FORCES

| BIN CODE | MATING END SIZE | INITIAL | | | AFTER CONDITIONING | | |
|----------|-----------------|-----------------------------------|---|-----------------------------------|-----------------------------------|---|-----------------------------------|
| | | MINIMUM SEPARATION FORCE (OUNCES) | MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES) | MAXIMUM ENGAGEMENT FORCE (OUNCES) | MINIMUM SEPARATION FORCE (OUNCES) | MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES) | MAXIMUM ENGAGEMENT FORCE (OUNCES) |
| | | MINIMUM DIAMETER AS31971 PIN | MAXIMUM DIAMETER AS31971 PIN | MAXIMUM DIAMETER AS31971 PIN | MAXIMUM DIAMETER AS31971 PIN | MAXIMUM DIAMETER AS31971 PIN | MAXIMUM DIAMETER AS31971 PIN |
| 601 | 22 | 0.75 | 2.50 | 3.0 | 0.60 | 2.75 | 4.0 |
| 602 | 20 | 0.75 | 5.0 | 6.0 | 0.60 | 6.00 | 7.0 |
| 603 | 16 | 2.00 | 9.0 | 12.0 | 1.0 | 11.5 | 15.0 |
| 604 | 12 | 3.00 | 12.0 | 15.0 | 2.0 | 14.5 | 18.0 |