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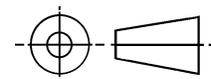
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THIRD ANGLE PROJECTION



ISSUED 1998-08 REAFFIRMED 2004-11

PREPARED BY SUBCOMMITTEE AE-8C1

SAE Aerospace
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AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, 90°, 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.

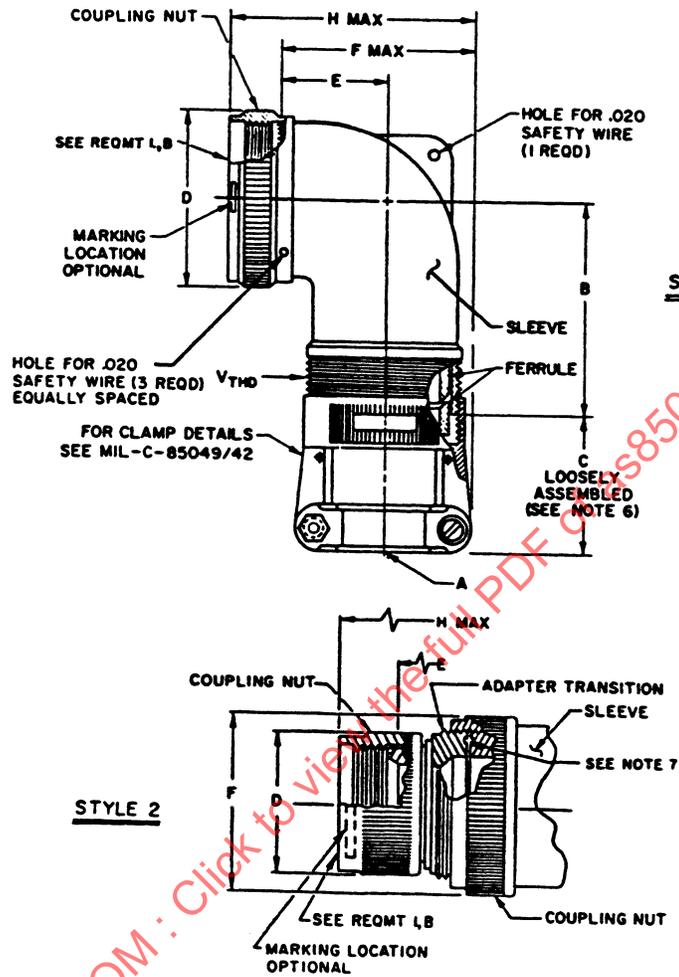


TABLE I. DIMENSIONS.

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| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---------------------------------|------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Wire Bundle Accommodation Range | | | | | |
| | | | | | | Min | Max | | | | |
| 1 | 3 | X | X | X | 4 | .125 | .250 | 1 | 1.800 | 1.027 | .669 |
| 2 | | | | | 6 | .250 | .437 | 2 | 1.320 | 1.027 | .669 |
| 3 | X | 8 | 8S | 8 | 4 | .125 | .250 | 1 | 1.200 | 1.027 | .617 |
| 4 | | 10 | 10S, 10SL | 10 | 4 | .125 | .312 | 1 | 1.920 | 1.027 | .734 |
| 5 | | | | | 6 | .250 | .375 | 1 | 1.320 | 1.027 | .734 |
| 6 | 7 | 12 | 12,12S | 12 | 4 | .125 | .312 | 1 | 1.940 | 1.027 | .858 |
| 7 | | | | | 6 | .250 | .437 | 1 | 1.940 | 1.027 | .858 |
| 8 | | | | | 10 | .350 | .500 | 1 | 1.335 | 1.027 | .858 |
| 9 | 12 | 14 | 14,14S | 14 | 6 | .250 | .437 | 1 | 2.010 | 1.027 | .984 |
| 10 | | | | | 10 | .350 | .575 | 1 | 1.655 | 1.027 | .984 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 1 | .636 | .625-24 UNEF | 1.18 | - | 1.57 |
| 2 | 1.386 | .750-20 UNEF | 2.02 | .858 | 2.41 |
| 3 | .541 | .625-24 UNEF | 1.09 | - | 1.48 |
| 4 | .636 | .625-24 UNEF | 1.18 | - | 1.57 |
| 5 | .636 | .750-20 UNEF | 1.27 | - | 1.66 |
| 6 | .641 | .625-24 UNEF | 1.18 | - | 1.57 |
| 7 | .641 | .750-20 UNEF | 1.28 | - | 1.67 |
| 8 | .641 | 1.000-20 UNEF | 1.37 | - | 1.76 |
| 9 | .741 | .750-20 UNEF | 1.38 | - | 1.77 |
| 10 | .741 | 1.000-20 UNEF | 1.47 | - | 1.86 |

TABLE I. DIMENSIONS (CONTINUED).

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| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---------------------------------|-------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Wire Bundle Accommodation Range | | | | | |
| | | | | | | Min | Max | | | | |
| 11 | 19 | 16 | 16,16S | 16 | 6 | .250 | .437 | 1 | 2.100 | 1.027 | 1.112 |
| 12 | | | | | 12 | .500 | .700 | 1 | 1.745 | 1.059 | 1.112 |
| 13 | 27 | 18 | 18 | 18 | 10 | .350 | .625 | 1 | 2.270 | 1.027 | 1.218 |
| 14 | | | | | 16 | .625 | .779 | 1 | 1.920 | 1.156 | 1.218 |
| 15 | 37 | 20 | 20 | 20 | 10 | .350 | .625 | 1 | 2.270 | 1.027 | 1.345 |
| 16 | | | | | 16 | .625 | .904 | 1 | 1.920 | 1.156 | 1.345 |
| 17 | X | 22 | 22 | 22 | 12 | .500 | .750 | 1 | 2.380 | 1.059 | 1.468 |
| 18 | | | | | 20 | .875 | 1.029 | 1 | 2.025 | 1.375 | 1.468 |
| 19 | | 24 | 24 | 24 | 12 | .500 | .750 | 1 | 2.380 | 1.059 | 1.593 |
| 20 | | | | | 20 | .875 | 1.144 | 1 | 2.025 | 1.375 | 1.593 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 11 | .926 | .750-20 UNEF | 1.59 | - | 1.98 |
| 12 | .926 | 1.1875-18 UNEF | 1.77 | - | 2.15 |
| 13 | 1.016 | 1.000-20 UNEF | 1.80 | - | 2.19 |
| 14 | 1.016 | 1.4375-18 UNEF | 1.97 | - | 2.36 |
| 15 | 1.016 | 1.000-20 UNEF | 1.80 | - | 2.19 |
| 16 | 1.016 | 1.4375-18 UNEF | 1.97 | - | 2.36 |
| 17 | 1.166 | 1.1875-18 UNEF | 2.11 | - | 2.50 |
| 18 | 1.166 | 1.750-10 UNS | 2.29 | - | 2.68 |
| 19 | 1.166 | 1.1875-18 UNEF | 2.11 | - | 2.50 |
| 20 | 1.166 | 1.750-18 UNS | 2.29 | - | 2.68 |

TABLE I. DIMENSIONS (CONTINUED).

| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) Wire Bundle Accommodation Range | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---|-------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Min | Max | | | | |
| | 21 | | | 28 | | | 16 | | | | |
| 22 | | | 32 | | 24 | 1.000 | 1.375 | 1 | 2.195 | 1.500 | 1.969 |
| 23 | | | | | 16 | .625 | .937 | 1 | 2.800 | 1.156 | 2.219 |
| 24 | | | 36 | | 20 | .875 | 1.250 | 1 | 2.800 | 1.375 | 2.219 |
| 25 | | | | | 28 | 1.250 | 1.625 | 1 | 2.445 | 1.781 | 2.219 |
| 26 | | | 40 | | 16 | .625 | .937 | 1 | 2.770 | 1.156 | 2.469 |
| 27 | | | | | 24 | 1.000 | 1.375 | 1 | 2.770 | 1.500 | 2.469 |
| 28 | | | | | 32 | 1.437 | 1.840 | 1 | 2.415 | 1.830 | 2.469 |
| 29 | | | | | 16 | .625 | .937 | 1 | 2.770 | 1.156 | 2.719 |
| 30 | | | | | 24 | 1.000 | 1.375 | 1 | 2.770 | 1.500 | 2.719 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 21 | 1.266 | 1.4375-18 UNEF | 2.33 | - | 2.88 |
| 22 | 1.266 | 2.000-18 UNS | 2.51 | - | 3.06 |
| 23 | 1.616 | 1.4375-18 UNEF | 2.81 | - | 3.36 |
| 24 | 1.616 | 1.750-18 UNS | 2.81 | - | 3.36 |
| 25 | 1.616 | 2.250-16 UN | 3.07 | - | 3.62 |
| 26 | 1.816 | 1.4375-18 UNEF | 3.13 | - | 3.68 |
| 27 | 1.816 | 2.000-18 UNS | 3.13 | - | 3.68 |
| 28 | 1.816 | 2.500-18 UN | 3.39 | - | 3.94 |
| 29 | 2.566 | 1.4375-18 UNEF | 3.88 | - | 4.43 |
| 30 | 2.566 | 2.000-18 UNS | 3.88 | - | 4.43 |

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TABLE I. DIMENSIONS (CONTINUED).

| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) Wire Bundle Accommodation Range | | Style | B + .125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---|-------|-------|-------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Min | Max | | | | |
| | 31 | X | X | 40 | | X | 32 | | | | |
| 32 | 16 | | | .625 | .937 | | 1 | 2.770 | 1.156 | 2.969 | |
| 33 | 24 | | | 1.000 | 1.375 | | 1 | 2.770 | 1.500 | 2.969 | |
| 34 | 32 | | | 1.437 | 1.875 | | 1 | 2.415 | 1.830 | 2.969 | |
| 35 | 16 | | | .625 | .937 | | 1 | 2.770 | 1.156 | 3.219 | |
| 36 | 24 | | | 1.000 | 1.375 | | 1 | 2.770 | 1.500 | 3.219 | |
| 37 | 32 | | | 1.437 | 1.875 | | 1 | 2.415 | 1.830 | 3.219 | |
| 38 | 61 | X | X | X | 12 | .500 | .750 | 1 | 2.380 | 1.059 | 1.653 |
| 39 | | | | | 20 | .875 | 1.184 | 1 | 2.025 | 1.375 | 1.653 |
| 40 | 19 | 16 | 16,16S | 16 | 10 | .350 | .625 | 1 | 2.100 | 1.027 | 1.112 |

| Dash No. | E + .125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|-------------|----------------------|----------|--------------|----------|
| 31 | 2.566 | 2.500-16 UN | 4.14 | - | 4.69 |
| 32 | 2.566 | 1.437-18 UNEF | 3.88 | - | 4.43 |
| 33 | 2.566 | 2.000-18 UNS | 3.88 | - | 4.43 |
| 34 | 2.566 | 2.500-16 UN | 4.14 | - | 4.69 |
| 35 | 2.566 | 1.4375-18 UNEF | 3.88 | - | 4.43 |
| 36 | 2.566 | 2.000-18 UNS | 3.88 | - | 4.43 |
| 37 | 2.566 | 2.500-16 UN | 4.14 | - | 4.69 |
| 38 | 1.166 | 1.1875-18 UNEF | 2.11 | - | 2.50 |
| 39 | 1.166 | 1.750-18 UNS | 2.29 | - | 2.68 |
| 40 | .926 | 1.000-20 UNEF | 1.66 | - | 2.05 |

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TABLE I. DIMENSIONS (CONTINUED).

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| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) Wire Bundle Accommodation Range | | Style | B ±.125 | C Ref | D Dia Max | | | |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---|--------|-------|------------|----------|--------------|-------|-------|-------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Min | Max | | | | | | | |
| | 41 | 27 | 18 | 18 | | 18 | 4 | | | | | .125 | .312 | 1 |
| 42 | 6 | | | | .250 | | .437 | 1 | 2.270 | 1.027 | 1.218 | | | |
| 43 | 37 | 20 | 20 | 20 | 6 | .250 | .437 | 1 | 2.270 | 1.027 | 1.345 | | | |
| 44 | X | X | X | X | 4 | .125 | .312 | 1 | 2.380 | 1.027 | 1.468 | | | |
| 45 | | | | | 6 | .250 | .437 | 1 | 2.380 | 1.027 | 1.468 | | | |
| 46 | | | | | 10 | .350 | .625 | 1 | 2.380 | 1.027 | 1.593 | | | |
| 47 | | | | | X | 36 | X | 12 | .500 | .750 | 1 | 2.770 | 1.059 | 2.469 |
| 48 | | | | | | 40 | | 12 | .500 | .750 | 1 | 2.770 | 1.059 | 2.719 |
| 49 | | | | | 10 | 10S, 10SL | 10 | 6 | .250 | .437 | 2 | 1.940 | 1.027 | .734 |
| 50 | | | | | 12 | 14 | 14,14S | 14 | 12 | .500 | .750 | 2 | 2.270 | 1.059 |

| Dash No. | E ±.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 41 | 1.016 | .625-24 UNEF | 1.80 | - | 2.19 |
| 42 | 1.016 | .750-20 UNEF | 1.80 | - | 2.19 |
| 43 | 1.016 | .750-20 UNEF | 1.80 | - | 2.19 |
| 44 | 1.166 | .625-24 UNEF | 2.11 | - | 2.50 |
| 45 | 1.166 | .750-20 UNEF | 2.11 | - | 2.50 |
| 46 | 1.166 | 1.000-20 UNEF | 2.11 | - | 2.50 |
| 47 | 1.816 | 1.1875-18 UNEF | 3.13 | - | 3.68 |
| 48 | 1.816 | 1.1875-18 UNEF | 3.88 | - | 4.43 |
| 49 | 1.381 | .750-20 UNEF | 2.03 | .858 | 2.42 |
| 50 | 1.766 | 1.1875-18 UNEF | 2.61 | 1.218 | 3.00 |

TABLE I. DIMENSIONS (CONTINUED).

| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) Wire Bundle Accommodation Range | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---|-------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Min | Max | | | | |
| | 51 | 19 | 16 | 16,16S | | 16 | 16 | | | | |
| 52 | 27 | 18 | 18 | 18 | 12 | .500 | .750 | 1 | 2.270 | 1.059 | 1.218 |
| 53 | 61 | | | | 16 | .625 | .937 | 1 | 2.025 | 1.156 | 1.863 |
| 54 | 37 | 20 | 20 | 20 | 12 | .500 | .750 | 1 | 2.270 | 1.059 | 1.345 |
| 55 | | | | | 20 | .875 | 1.250 | 2 | 2.550 | 1.375 | 1.345 |
| 56 | | | | | 10 | .350 | .625 | 1 | 2.380 | 1.027 | 1.468 |
| 57 | | | | | 16 | .625 | .937 | 1 | 2.380 | 1.156 | 1.468 |
| 58 | | | | | 20 | .875 | 1.250 | 2 | 2.550 | 1.375 | 1.468 |
| 59 | | | | | 16 | .625 | .937 | 1 | 2.380 | 1.156 | 1.593 |
| 60 | | | 28 | | 12 | .500 | .750 | 1 | 2.550 | 1.059 | 1.969 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 51 | 1.916 | 1.4375-18 UNEF | 2.87 | 1.468 | 3.26 |
| 52 | 1.016 | 1.1875-18 UNEF | 1.86 | - | 2.25 |
| 53 | 1.166 | 1.4375-18 UNEF | 2.14 | - | 2.53 |
| 54 | 1.016 | 1.1875-18 UNEF | 1.86 | - | 2.25 |
| 55 | 2.016 | 1.750-18 UNS | 3.14 | 1.969 | 3.53 |
| 56 | 1.166 | 1.000-20 UNEF | 2.11 | - | 2.50 |
| 57 | 1.166 | 1.4375-18 UNEF | 2.12 | - | 2.51 |
| 58 | 2.016 | 1.750-18 UNS | 3.14 | 1.969 | 3.53 |
| 59 | 1.166 | 1.4375-18 UNEF | 2.14 | -- | 2.53 |
| 60 | 1.266 | 1.1875-18 UNEF | 2.33 | -- | 2.88 |

TABLE I. DIMENSIONS (CONTINUED).

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| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) Wire Bundle Accommodation Range | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---|-------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Min | Max | | | | |
| | 61 | | | 28 | | | 20 | | | | |
| 62 | | | 32 | | 24 | 1.000 | 1.375 | 1 | 2.800 | 1.500 | 2.219 |
| 63 | | | 36 | | 20 | .875 | 1.250 | 1 | 2.770 | 1.375 | 2.469 |
| 64 | | | 40 | | 28 | 1.250 | 1.625 | 1 | 2.770 | 1.781 | 2.469 |
| 65 | | | 44 | | 20 | .875 | 1.250 | 1 | 2.770 | 1.375 | 2.719 |
| 66 | | | 48 | | 28 | 1.250 | 1.625 | 1 | 2.770 | 1.781 | 2.719 |
| 67 | | | | | 20 | .875 | 1.250 | 1 | 2.770 | 1.375 | 2.969 |
| 68 | | | | | 28 | 1.250 | 1.625 | 1 | 2.770 | 1.781 | 2.969 |
| 69 | | | | | 20 | .875 | 1.250 | 1 | 2.770 | 1.375 | 3.219 |
| 70 | | | | | 28 | 1.250 | 1.625 | 1 | 2.770 | 1.781 | 3.219 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 61 | 1.266 | 1.750-18 UNS | 2.39 | - | 2.94 |
| 62 | 1.616 | 2.000-18 UNS | 2.86 | - | 3.41 |
| 63 | 1.816 | 1.750-18 UNS | 3.13 | - | 3.68 |
| 64 | 1.816 | 2.250-16 UN | 3.27 | - | 3.82 |
| 65 | 2.566 | 1.750-18 UNS | 3.88 | - | 4.43 |
| 66 | 2.566 | 2.250-16 UN | 4.02 | - | 4.57 |
| 67 | 2.566 | 1.750-18 UNS | 3.88 | - | 4.43 |
| 68 | 2.566 | 2.250-16 UN | 4.02 | - | 4.57 |
| 69 | 2.566 | 1.750-18 UNS | 3.88 | - | 4.43 |
| 70 | 2.566 | 2.250-16 UN | 4.02 | - | 4.57 |

TABLE I. DIMENSIONS (CONTINUED).

| Dash No. | Fits Shell of Connector | | | | Clamp Size | A (see note 6) | | Style | B +.125 | C Ref | D Dia Max |
|----------|-------------------------|-------------------|------------------|---------------------|------------|---------------------------------|-------|-------|------------|----------|--------------|
| | MIL-C-81703 Ser 3 | MIL-C-26482 Ser 2 | MIL-C-5015 Crimp | MIL-C-83723 Ser III | | Wire Bundle Accommodation Range | | | | | |
| | | | | | | Min | Max | | | | |
| 71 | 7 | 12 | 12,12S | 12 | 10 | .350 | .625 | 2 | 2.100 | 1.027 | .858 |
| 72 | 27 | 18 | 18 | 18 | 16 | .625 | .937 | 2 | 2.380 | 1.156 | 1.218 |
| 73 | X | 24 | 24 | 24 | 20 | .875 | 1.250 | 2 | 2.550 | 1.375 | 1.593 |
| 74 | 12 | 14 | 14,14S | 14 | 4 | .125 | .312 | 1 | 2.010 | 1.027 | .984 |
| 75 | 19 | 16 | 16,16S | 16 | 4 | .125 | .312 | 1 | 2.100 | 1.027 | 1.112 |

| Dash No. | E +.125 | V Thread Class 2A | F Max | G Dia Max | H Max |
|----------|------------|----------------------|----------|--------------|----------|
| 71 | 1.686 | 1.000-20 UNEF | 2.42 | 1.112 | 2.81 |
| 72 | 1.925 | 1.4375-18 UNEF | 2.88 | 1.468 | 3.27 |
| 73 | 2.026 | 1.750-18 UNS | 3.15 | 1.969 | 3.54 |
| 74 | .741 | .625-24 UNEF | 1.31 | - | 1.70 |
| 75 | .926 | .625-24 UNEF | 1.59 | - | 1.98 |

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