

Formerly MIL-C-5015 Types A and B

See page 429 for dimension table. MS receptacles mate with MS mating plugs that are on the same line in the table below. \*Standard shells have cadmium plating with drab olive chromate finish. In shell sizes 12S, 14S, 16, 16S, 18, 20, 22, 24, and 28, clear chromate over cadmium plating (639), black zinc over zinc plating (621), or electroless nickel plating (689) are also available. Add the shell finish identification to the end of part number to

MS Receptacles

| No. of Contacts | Shell Size and Insert | 97-3100A* |       | 97-3101A* |       | 97-3102A* |       |
|-----------------|-----------------------|-----------|-------|-----------|-------|-----------|-------|
|                 |                       | EACH      |       | EACH      |       | EACH      |       |
|                 |                       | 1-9       | 10-49 | 1-9       | 10-49 | 1-9       | 10-49 |
| 6               | 20-8S*                | 45.26     | 30.59 | 41.03     | 31.84 | 33.03     | 25.62 |
| 13              | 20-11P                | 30.89     | 25.28 | 34.76     | 26.95 | 25.09     | 20.53 |
| 13              | 20-11S                | 61.78     | 46.18 | 57.29     | 44.45 | 46.81     | 38.30 |
| 5               | 20-14P                | 38.41     | 30.72 | 36.08     | 27.99 | 28.07     | 21.78 |
| 5               | 20-14S                | 51.02     | 36.63 | 50.19     | 38.95 | 42.18     | 32.72 |
| 7               | 20-15P                | 18.74     | 14.99 | 21.08     | 14.74 | 12.21     | 9.77  |
| 7               | 20-15S                | 24.89     | 19.91 | 26.11     | 20.89 | 18.33     | 14.67 |
| 9               | 20-16P                | 20.37     | 14.45 | 18.87     | 15.43 | 11.76     | 9.63  |
| 9               | 20-16S                | 21.32     | 15.37 | 19.65     | 16.08 | 15.22     | 10.76 |
| 6               | 20-17P                | 21.80     | 18.34 | 21.84     | 16.95 | 23.64     | 19.34 |
| 6               | 20-17S                | 26.33     | 22.55 | 26.58     | 20.62 | 17.11     | 14.00 |
| 9               | 20-18P                | 23.34     | 16.25 | 20.97     | 17.16 | 16.28     | 11.48 |
| 9               | 20-18S                | 25.60     | 18.51 | 26.57     | 18.44 | 16.34     | 13.37 |
| 9               | 20-19P                | 24.45     | 20.55 | 24.33     | 18.88 | 15.86     | 12.30 |
| 3               | 20-19S                | 29.46     | 25.43 | 27.22     | 21.55 | 16.73     | 12.85 |
| 9               | 20-21P                | 38.84     | 24.89 | 30.78     | 23.87 | 22.99     | 17.85 |
| 9               | 20-21S                | 38.71     | 26.18 | 33.30     | 25.83 | 25.53     | 19.81 |
| 2               | 20-23P                | 18.04     | 14.76 | 19.14     | 15.66 | 12.16     | 9.95  |
| 2               | 20-23S                | 23.36     | 16.27 | 24.76     | 17.19 | 16.67     | 11.73 |
| 4               | 20-24P                | 37.59     | 25.43 | 31.59     | 24.51 | 23.83     | 18.49 |
| 4               | 20-24S                | 46.60     | 31.51 | 37.40     | 29.02 | 27.63     | 22.61 |
| 14              | 20-27P                | 19.97     | 14.06 | 21.82     | 15.21 | 12.70     | 10.16 |
| 14              | 20-27S                | 20.45     | 16.36 | 23.61     | 16.43 | 16.30     | 11.49 |
| 17              | 20-29P                | 21.04     | 15.10 | 21.75     | 17.40 | 13.97     | 11.18 |
| 17              | 20-29S                | 22.92     | 18.34 | 24.15     | 19.32 | 16.37     | 13.10 |
| 11              | 20-33P                | 24.35     | 17.28 | 22.09     | 18.08 | 17.75     | 12.47 |
| 11              | 20-33S                | 21.33     | 17.45 | 26.44     | 18.34 | 15.50     | 12.69 |
| 2               | 22-1P                 | 17.81     | 14.84 | 19.61     | 16.04 | 11.79     | 9.64  |
| 2               | 22-1S                 | 26.07     | 20.36 | 25.91     | 20.10 | 15.44     | 12.63 |
| 3               | 22-2P                 | 24.05     | 16.97 | 25.23     | 17.56 | 15.92     | 11.25 |
| 3               | 22-2S                 | 23.83     | 19.86 | 26.27     | 21.49 | 21.16     | 14.78 |
| 4               | 22-4P                 | 42.58     | 28.76 | 36.77     | 29.41 | 27.57     | 21.40 |
| 4               | 22-4S                 | 48.37     | 32.71 | 42.91     | 34.34 | 34.13     | 26.47 |
| 6               | 22-5P                 | 39.62     | 26.77 | 41.50     | 28.53 | 25.38     | 17.61 |
| 6               | 22-5S                 | 25.38     | 21.15 | 41.59     | 28.56 | 20.40     | 15.83 |
| 2               | 22-8P                 | 33.99     | 22.97 | 26.51     | 21.20 | 16.48     | 12.78 |
| 2               | 22-8S                 | 42.52     | 28.72 | 35.83     | 28.66 | 26.53     | 20.59 |
| 3               | 22-9P                 | 36.86     | 24.25 | 28.53     | 21.22 | 16.51     | 12.80 |
| 3               | 22-9S                 | 44.89     | 30.36 | 35.13     | 28.11 | 24.21     | 19.81 |
| 2               | 22-10P                | 35.57     | 24.53 | 23.01     | 18.82 | 21.08     | 14.69 |
| 4               | 22-10S                | 21.81     | 18.17 | 24.03     | 19.66 | 16.23     | 13.28 |
| 2               | 22-11P                | 33.07     | 22.34 | 25.74     | 20.58 | 15.89     | 12.18 |
| 2               | 22-11S                | 35.50     | 24.01 | 28.39     | 22.71 | 15.36     | 12.56 |
| 2               | 22-12P                | 42.58     | 31.84 | 40.32     | 32.98 | 34.51     | 26.77 |
| 5               | 22-12S                | 49.62     | 33.56 | 44.17     | 35.33 | 35.46     | 27.51 |
| 5               | 22-13P                | 39.46     | 26.68 | 33.07     | 26.45 | 23.83     | 18.49 |
| 5               | 22-13S                | 41.50     | 30.05 | 37.84     | 30.27 | 28.72     | 22.28 |
| 19              | 22-14P                | 23.20     | 18.56 | 24.20     | 19.36 | 8.74      | 6.35  |
| 19              | 22-14S                | 26.32     | 21.05 | 27.31     | 21.85 | 20.73     | 14.52 |
| 6               | 22-15P                | 42.20     | 28.53 | 35.61     | 28.48 | 22.22     | 18.51 |
| 6               | 22-15S                | 51.22     | 34.63 | 46.33     | 37.05 | 37.74     | 29.29 |
| 9               | 22-16P                | 25.69     | 19.90 | 26.29     | 21.04 | 16.27     | 12.64 |
| 9               | 22-16S                | 26.07     | 20.44 | 26.84     | 21.45 | 16.85     | 13.08 |
| 8               | 22-18P                | 23.12     | 16.10 | 24.35     | 18.05 | 15.06     | 10.66 |
| 8               | 22-18S                | 23.36     | 16.27 | 20.83     | 17.04 | 12.97     | 10.61 |
| 14              | 22-19P                | 20.05     | 16.71 | 22.10     | 18.08 | 14.28     | 11.68 |
| 14              | 22-19S                | 24.89     | 17.89 | 22.60     | 18.49 | 14.78     | 12.09 |
| 9               | 22-20P                | 19.24     | 16.03 | 21.17     | 17.32 | 13.37     | 10.94 |
| 9               | 22-20S                | 19.77     | 16.47 | 26.00     | 18.05 | 13.96     | 11.42 |
| 4               | 22-22P                | 27.55     | 19.10 | 28.62     | 20.96 | 16.98     | 13.89 |
| 4               | 22-22S                | 34.20     | 23.58 | 31.44     | 25.72 | 23.64     | 19.34 |
| 8               | 22-23P                | 26.52     | 18.39 | 23.82     | 19.49 | 18.29     | 12.87 |
| 8               | 22-23S                | 33.31     | 22.97 | 30.99     | 25.35 | 25.52     | 17.73 |
| 7               | 22-26P                | 43.64     | 29.50 | 37.75     | 30.19 | 28.59     | 22.18 |
| 7               | 22-26S                | 49.62     | 33.56 | 44.17     | 35.33 | 35.46     | 27.51 |
| 9               | 22-27P                | 25.81     | 17.43 | 26.92     | 20.51 | 15.63     | 12.80 |
| 9               | 22-27S                | 27.95     | 19.34 | 28.93     | 21.83 | 17.48     | 14.30 |
| 7               | 22-28P                | 43.18     | 29.18 | 37.25     | 29.80 | 28.07     | 21.78 |
| 7               | 22-28S                | 59.56     | 41.62 | 55.49     | 44.38 | 47.50     | 36.87 |
| 5               | 22-34P                | 39.46     | 26.68 | 34.56     | 28.80 | 19.37     | 15.85 |
| 5               | 22-34S                | 41.39     | 27.99 | 34.87     | 27.90 | 25.81     | 20.02 |
| 7               | 24-2P                 | 25.02     | 17.38 | 25.16     | 18.70 | 16.45     | 11.60 |
| 7               | 24-2S                 | 29.61     | 20.49 | 29.77     | 21.73 | 18.61     | 15.23 |
| 16              | 24-5P                 | 30.55     | 21.13 | 26.47     | 21.66 | 19.77     | 15.83 |
| 16              | 24-5S                 | 34.18     | 23.58 | 34.22     | 26.73 | 23.46     | 18.77 |
| 8               | 24-6P                 | 48.92     | 33.53 | 49.00     | 33.57 | 32.00     | 22.11 |
| 8               | 24-6S                 | 63.05     | 43.05 | 42.80     | 35.67 | 46.85     | 32.14 |
| 16              | 24-7P                 | 28.56     | 19.77 | 28.62     | 19.81 | 17.45     | 14.28 |
| 16              | 24-7S                 | 25.56     | 21.30 | 25.60     | 21.34 | 22.42     | 15.63 |
| 2               | 24-9P                 | 38.42     | 28.38 | 38.50     | 30.80 | 29.30     | 22.72 |
| 2               | 24-9S                 | 44.47     | 32.84 | 44.80     | 35.85 | 29.13     | 23.83 |
| 7               | 24-10P                | 41.26     | 27.50 | 32.99     | 27.49 | 29.87     | 20.66 |



specify a shell finish other than drab olive. \*notes the shell styles that are available with all four of these finish choices. Pricing shown is for standard drab olive and for (639) clear chromate and (621) black zinc finishes. Prices for finish (689) are higher. See page 436 for cable clamps and other accessories.

MS Mating Plugs

| Shell Size and Insert | 97-3106A* |       | 97-3107A* |       | 97-3108B* |       | 97-3108A* |       | 97-3108B* |       |
|-----------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
|                       | EACH      |       | EACH      |       | EACH      |       | EACH      |       | EACH      |       |
|                       | 1-9       | 10-49 | 1-9       | 10-49 | 1-9       | 10-49 | 1-9       | 10-49 | 1-9       | 10-49 |
| 20-8P                 | 28.08     | 22.98 | 41.32     | 30.50 | 39.55     | 30.69 | 57.98     | 44.98 | 40.99     | 31.79 |
| 20-11S                | 51.45     | 42.10 | 63.55     | 46.94 | 63.26     | 49.08 | 81.71     | 63.40 | 64.71     | 50.21 |
| 20-11P                | 32.44     | 26.54 | 42.44     | 31.34 | 40.75     | 31.82 | 59.17     | 45.91 | 42.18     | 32.72 |
| 20-14S                | 37.45     | 31.21 | 56.92     | 42.04 | 56.20     | 43.60 | 74.61     | 57.90 | 40.15     | 33.46 |
| 20-14P                | 30.36     | 25.30 | 43.68     | 32.27 | 42.08     | 32.65 | 60.53     | 46.97 | 43.50     | 33.76 |
| 20-15S                | 28.14     | 19.49 | 30.80     | 25.20 | 30.75     | 22.70 | 48.02     | 35.47 | 31.58     | 23.70 |
| 20-15P                | 20.48     | 16.38 | 29.09     | 21.48 | 22.95     | 18.36 | 42.13     | 31.10 | 25.91     | 19.53 |
| 20-16S                | 21.75     | 17.40 | 24.50     | 20.42 | 26.29     | 19.40 | 43.32     | 31.99 | 26.81     | 20.21 |
| 20-16P                | 19.13     | 15.65 | 23.31     | 21.64 | 25.34     | 18.71 | 42.35     | 31.27 | 26.12     | 19.70 |
| 20-17S                | 27.10     | 20.31 | 34.55     | 25.52 | 32.34     | 25.09 | 50.78     | 39.40 | 33.76     | 26.19 |
| 20-17P                | 22.33     | 16.76 | 30.15     | 22.26 | 27.89     | 21.64 | 46.06     | 35.73 | 29.34     | 22.77 |
| 20-18S                | 23.69     | 19.38 | 33.77     | 24.94 | 29.54     | 21.81 | 46.82     | 34.59 | 30.77     | 22.79 |
| 20-18P                | 25.25     | 17.55 | 31.37     | 23.17 | 27.57     | 20.07 | 44.45     | 32.82 | 28.79     | 21.05 |
| 20-19S                | 27.10     | 20.31 | 37.75     | 27.87 | 35.74     | 27.73 | 54.19     | 42.05 | 37.17     | 28.84 |
| 20-19P                | 24.92     | 18.62 | 32.45     | 23.97 | 30.13     | 23.36 | 48.54     | 37.66 | 31.55     | 24.48 |
| 20-21S                | 33.76     | 25.32 | 40.80     | 30.14 | 39.29     | 30.48 | 57.72     | 44.78 | 40.73     | 31.59 |
| 20-21P                | 25.86     | 21.16 | 38.72     | 28.60 | 36.77     | 28.53 | 55.20     | 42.82 | 38.20     | 29.63 |
| 20-23S                | 21.45     | 17.55 | 25.54     | 21.28 | 27.20     | 20.08 | 44.47     | 32.84 | 28.93     | 21.08 |
| 20-23P                | 19.40     | 15.87 | 29.58     | 21.84 | 26.14     | 18.90 | 41.72     | 30.81 | 27.39     | 19.90 |
| 20-24S                | 37.90     | 28.42 | 44.94     | 33.19 | 43.40     | 33.67 | 61.87     | 48.00 | 44.83     | 34.79 |
| 20-24P                | 32.08     | 24.06 | 39.50     | 29.17 | 37.61     | 29.18 | 56.04     | 43.48 | 39.04     | 30.28 |
| 20-27S                | 22.47     | 17.97 | 27.11     | 22.18 | 26.44     | 19.32 | 43.19     | 31.89 | 26.06     | 20.85 |
| 20-27P                | 23.14     | 16.12 | 25.77     | 21.09 | 24.89     | 18.34 | 41.91     | 30.94 | 27.97     | 20.97 |
| 20-29S                | 24.66     | 19.73 | 32.06     | 23.68 | 25.45     | 20.82 | 42.15     | 33.72 | 30.55     | 22.91 |
| 20-29P                | 22.24     | 17.79 | 29.98     | 22.12 | 24.96     | 19.97 | 39.75     | 31.80 | 27.15     | 19.93 |
| 20-33S                | 22.87     | 18.71 | 33.01     | 24.38 | 29.41     | 21.26 | 46.07     | 34.02 | 32.15     | 24.11 |
| 20-33P                | 22.33     | 18.27 | 32.45     | 23.97 | 28.79     | 20.86 | 45.52     | 33.60 | 31.52     | 23.64 |
| 22-1S                 | 22.35     | 18.29 | 38.18     | 28.19 | 30.60     | 23.74 | 50.60     | 39.26 | 30.26     | 24.20 |
| 22-1P                 | 18.89     | 15.45 | 34.58     | 25.54 | 20.42     | 17.02 | 46.78     | 36.31 | 26.95     | 21.55 |
| 22-2S                 | 25.39     | 20.77 | 41.20     | 30.43 | 32.16     | 23.43 | 50.48     | 37.27 | 27.64     | 23.04 |
| 22-2P                 | 20.38     | 16.67 | 29.21     | 24.34 | 27.58     | 19.94 | 36.31     | 30.26 | 28.79     | 20.91 |
| 22-4S                 | 42.13     | 31.59 | 54.61     | 40.33 | 48.13     | 37.34 | 68.15     | 52.87 | 46.69     | 37.34 |
| 22-4P                 | 29.52     | 24.60 | 48.47     | 35.78 | 41.59     | 32.27 | 61.59     | 47.80 | 40.56     | 32.45 |
| 22-5S                 | 39.62     | 27.23 | 45.93     | 33.91 | 36.42     | 26.90 | 55.18     | 40.75 | 38.01     | 28.07 |
| 22-5P                 | 39.10     | 26.89 | 45.33     | 33.47 | 35.85     | 26.46 | 54.61     | 40.33 | 37.43     | 27.63 |
| 22-8S                 | 34.55     | 25.89 | 47.49     | 35.06 | 40.54     | 31.46 | 60.55     | 46.99 | 39.60     | 31.68 |
| 22-8P                 | 24.57     | 18.43 | 37.94     | 28.01 | 30.41     | 23.59 | 50.42     | 39.13 | 32.02     | 24.85 |
| 22-9S                 | 31.12     | 25.46 | 46.82     | 34.59 | 39.85     | 30.91 | 59.86     | 46.44 | 41.51     | 32.00 |
| 22-9P                 | 30.55     | 25.00 | 37.96     | 28.04 | 30.36     | 23.59 | 50.38     | 39.07 | 32.05     | 24.86 |
| 22-10S                | 22.12     | 18.93 | 38.89     | 29.48 | 31.49     | 21.78 | 47.22     | 33.14 | 33.14     | 22.19 |
| 22-10P                | 22.18     | 18.10 | 37.96     | 28.04 | 27.75     | 20.25 | 47.22     | 34.87 | 32.05     | 22.19 |
| 22-11S                | 26.89     | 20.17 | 40.09     | 29.59 | 32.62     | 25.30 | 52.64     | 40.82 | 34.31     | 26.82 |
| 22-11P                | 19.85     | 16.24 | 37.19     | 27.47 | 22.50     | 18.41 | 49.57     | 38.45 | 31.22     | 24.21 |
| 22-12S                | 43.46     | 32.59 | 55.87     | 41.26 | 49.45     | 38.38 | 69.47     | 53.91 | 51.15     | 39.68 |
| 22-12P                | 35.31     | 29.43 | 54.97     | 40.59 | 33.90     | 26.69 | 68.53     | 53.16 | 50.21     | 38.97 |
| 22-13S                | 36.73     | 27.54 | 49.44     | 36.58 | 42.73     | 33.15 | 62.80     | 46.68 | 44.41     | 34.45 |
| 22-13P                | 31.59     | 23.70 | 44.74     | 33.03 | 37.61     | 29.18 | 57.61     | 44.71 | 39.29     | 30.48 |
| 22-14S                | 26.32     | 21.05 | 35.47     | 29.02 | 27.38     | 22.40 | 43.36     | 35.48 | 28.72     | 23.50 |
| 22-14P                | 24.42     | 16.96 | 37.45     | 27.65 | 24.62     | 20.14 | 46.74     | 34.51 | 31.50     | 21.81 |
| 22-15S                | 45.74     | 34.31 | 58.01     | 42.83 | 51.74     | 40.14 | 71.75     | 55.67 | 53.42     | 41.47 |
| 22-15P                | 34.31     | 25.74 | 47.30     | 34.92 | 40.32     | 31.28 | 60.32     | 46.80 | 41.99     | 34.28 |
| 22-16S                | 24.94     | 18.71 | 38.24     | 28.26 | 30.69     | 23.61 | 50.70     | 39.33 | 32.36     | 25.11 |
| 22-16P                | 24.35     | 18.27 | 37.23     | 27.85 | 30.13     | 23.86 | 50.13     | 38.89 | 31.78     | 24.67 |
| 22-18S                | 19.92     | 16.30 | 35.80     | 26.43 | 25.68     | 19.61 | 45.05     | 33.27 | 29.74     | 20.58 |
| 22-18P                | 19.43     | 15.89 | 35.32     | 26.08 | 26.44     | 19.29 | 44.62     | 32.94 | 29.26     | 20.27 |
| 22-19S                | 21.69     | 17.75 | 37.53     | 27.72 | 28.05     | 20.71 | 46.80     | 34.57 | 31.59     | 21.87 |
| 22-19P                | 21.19     | 17.34 | 37.03     | 27.34 | 27.55     | 20.35 | 46.33     | 34.20 | 31.08     | 21.52 |
| 22-20S                | 20.88     | 17.08 | 29.66     | 24.72 | 27.85     | 20.13 | 46.03     | 33.99 | 30.78     | 21.80 |
| 22-20P                | 20.26     | 16.58 | 26.16     | 26.70 | 27.16     | 19.90 | 38.21     | 30.18 | 30.15     | 20.37 |
| 22-22S                | 30.55     | 25.00 | 46.26     | 34.17 | 31.09     | 25.91 | 55.53     | 41.00 | 41.05     | 28.48 |
| 22-22P                | 23.89     | 19.55 | 39.69     | 29.31 | 30.77     | 22.51 | 48.97     | 36.16 | 33.91     | 23.42 |
| 22-23S                | 30.10     | 24.63 | 37.96     | 31.64 | 36.68     | 26.84 | 55.09     | 40.68 | 40.44     | 28.00 |
| 22-23P                | 26.32     | 18.37 | 38.74     | 28.61 | 29.96     | 21.59 | 48.00     | 35.45 | 32.88     | 22.75 |
| 22-26S                | 43.46     | 32.59 | 55.87     | 41.26 | 49.45     | 38.38 | 69.47     | 53.91 | 51.99     | 39.68 |
| 22-26P                | 35.31     | 27.45 | 49.45     | 36.51 | 40.32     | 31.04 | 62.80     | 46.80 | 44.29     | 34.28 |
| 22-27S                | 27.85     | 18.82 | 42.73     | 31.55 | 33.24     | 24.54 | 52.00     | 38.40 | 34.82     | 25.72 |
| 22-27P                | 26.07     | 17.60 | 40.41     | 29.84 | 30.94     | 22.86 | 49.70     | 36.70 | 32.53     | 24.02 |
| 22-28S                | 55.52     | 41.63 | 67.18     | 49.60 | 61.52     | 47.72 | 81.53     | 63.26 | 63.21     | 49.03 |
| 22-28P                | 29.97     | 24.97 | 48.95     | 36.15 | 42.08     | 32.65 | 62.10     | 48.17 | 43.77     | 33.97 |
| 22-34S                | 29.92     | 24.48 | 46.56     | 34.39 | 39.29     | 30.48 | 59.57     | 46.22 | 41.22     | 31.98 |
| 22-34P                | 31.59     | 23.70 | 44.73     | 33.03 | 37.61     | 29.18 | 57.61     | 44.71 | 39.29     | 30.48 |
| 24-2S                 | 26.75     | 21.88 | 41.59     | 30.71 | 36.60     | 27.03 | 54.17     | 39.99 | 35.50     | 24.58 |
| 24-2P                 | 26.74     | 21.88 | 36.95     | 27.28 | 31.92     | 23.57 | 49.52     | 36.57 | 34.41     | 19.97 |
| 24-5S                 | 32.41     | 25.93 | 39.83     | 32.58 | 40.51     | 29.71 | 57.82     | 42.70 | 39.40     | 27.28 |
| 24-5P                 | 25.57     | 20.92 | 38.71     | 31.68 | 36.84     | 27.12 | 54.31     | 40.11 | 35.66     | 24.69 |
| 24-6S                 | 46.67     | 38.19 | 63.40     | 46.81 | 58.39     | 43.10 | 75.98     | 56.11 | 56.77     | 40.68 |
| 24-6P                 | 49.56     | 33.97 | 49.08     | 36.23 | 44.08     | 32.56 | 61.65     | 45.52 | 43.38     | 30.09 |
| 24-7S                 | 27.52     | 22.51 | 42.37     | 31.29 | 37.37     | 25.59 | 54.95     | 40.58 | 36.34     | 25.16 |
| 24-7P                 | 25.61     | 20.96 | 32.97     | 27.47 | 35.50     | 26.21 | 53.07     | 39.20 | 34.34     | 23.77 |
| 24-9S                 | 45.43     | 34.08 | 56.66     | 41.83 | 55.07     | 42.73 | 73.81     | 57.27 | 48.34     | 38.67 |
| 24-9P                 | 31.91     | 26.11 | 50.31     | 37.15 | 48.32     | 37.48 | 59.57     | 46.22 | 42.02     | 35.30 |
| 24-10S                | 41.23     | 33.73 | 55.89     | 41.28 | 50.91     | 37.57 | 68.46     | 50.56 | 51.01     | 33.61 |