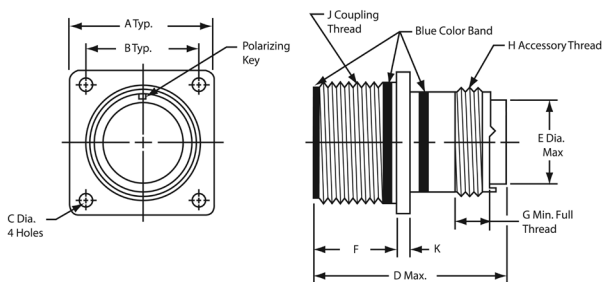
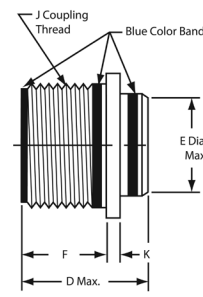


RECEPTACLES



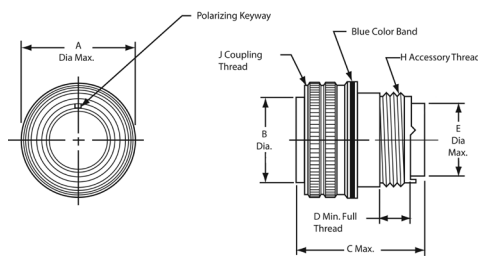
MS3450 (9440)



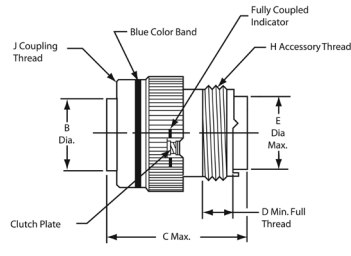
MS3452 (9442)

| SHELL SIZE | MS3450, MS3451, MS3452, MS3454 | MS3450 | MS3450, MS3452 | | | | MS3452 | | | MS3450, MS3451, MS3452 | |
|------------|--------------------------------|-------------|----------------|-------|--------------------|----------------|-------------|---------------------|---------------------|------------------------|-------|
| | J THREAD CLASS 2A | F MAX./MIN. | A +/- .031 | B | C +.010 / -.005 | | F MAX./MIN. | D MAX. | | E DIA. +/- .016 | K |
| | | | | | CLASSES A, F, L, W | CLASSES KT, KS | | SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | | |
| 8S | .5000-28 UNEF | .593/.562 | 0.875 | 0.594 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 0.500 | 0.083 |
| 10S | .6250-24 UNEF | .593/.562 | 1.000 | 0.719 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 0.625 | 0.083 |
| 10SL | .6250-24 UNEF | .593/.562 | 1.000 | 0.719 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 0.625 | 0.083 |
| 12 | .7500-20 UNEF | .781/.750 | 1.094 | 0.812 | 0.120 (3.0) | 0.150 (3.8) | .765/.750 | 1.662 | - | 0.750 | 0.083 |
| 12S | .7500-20 UNEF | .593/.562 | 1.094 | 0.812 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 0.750 | 0.083 |
| 14 | .8750-20 UNEF | .781/.750 | 1.188 | 0.906 | 0.120 (3.0) | 0.150 (3.8) | .765/.750 | 1.662 | - | 0.875 | 0.083 |
| 14S | .8750-20 UNEF | .593/.562 | 1.188 | 0.906 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 0.875 | 0.083 |
| 16 | 1.0000-20 UNEF | .781/.750 | 1.281 | 0.969 | 0.120 (3.0) | 0.150 (3.8) | .765/.750 | 1.662 | 1.937 | 1.000 | 0.083 |
| 16S | 1.0000-20 UNEF | .593/.562 | 1.281 | 0.969 | 0.120 (3.0) | 0.150 (3.8) | .578/.562 | 1.662 | - | 1.000 | 0.083 |
| 18 | 1.1250-18 UNEF | .781/.750 | 1.375 | 1.062 | 0.120 (3.0) | 0.177 (4.5) | .765/.750 | 1.662 | 1.937 | 1.062 | 0.125 |
| 20 | 1.2500-18 UNEF | .781/.750 | 1.500 | 1.156 | 0.120 (3.0) | 0.177 (4.5) | .765/.750 | 1.662 | 1.937 | 1.187 | 0.125 |
| 22 | 1.3750-18 UNEF | .781/.750 | 1.625 | 1.250 | 0.120 (3.0) | 0.177 (4.5) | .765/.750 | 1.662 | 1.937 | 1.312 | 0.125 |
| 24 | 1.5000-18 UNEF | .843/.812 | 1.750 | 1.375 | 0.147 (3.7) | 0.177 (4.5) | .827/.812 | 1.662 | 1.937 | 1.437 | 0.125 |
| 28 | 1.7500-18 UNS | .843/.812 | 2.000 | 1.562 | 0.147 (3.7) | 0.177 (4.5) | .827/.812 | 1.662 | 1.937 | 1.750 | 0.125 |
| 32 | 2.0000-18 UNS | .906/.875 | 2.250 | 1.750 | 0.173 (4.4) | 0.209 (5.3) | .988/.875 | 1.662 | 1.937 | 2.000 | 0.125 |
| 36 | 2.2500-16 UN | .906/.875 | 2.500 | 1.938 | 0.173 (4.4) | 0.209 (5.3) | .988/.875 | 1.662 | 1.937 | 2.250 | 0.125 |
| 40 | 2.5000-16 UN | .906/.875 | 2.750 | 2.188 | 0.173 (4.4) | 0.209 (5.3) | .988/.875 | 1.662 | 1.937 | 2.500 | 0.125 |

PLUG SHELL SIZES 8S-16S



MS3456 (9446)

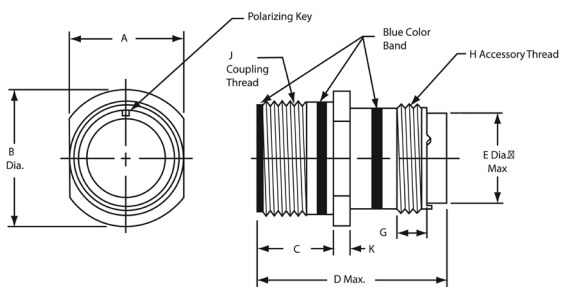


MS3459 (9816)

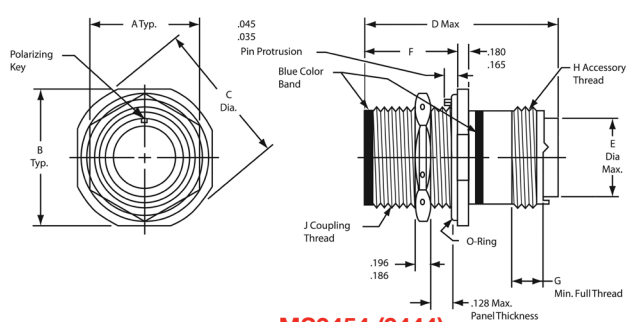
| SHELL SIZE | MS3456, MS3459 | | | | | MS3456 | | | MS3459 | | |
|------------|-----------------|--------|-------------|-------------------|-------------------|---------------------|---------------------|-------------|---------------------|---------------------|-------------|
| | B DIA. +/- .005 | D MIN. | E DIA. MAX. | H THREAD CLASS 2A | J THREAD CLASS 2A | C MAX. | | A DIA. MAX. | C MAX. | | A DIA. MAX. |
| | | | | | | SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | | SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | |
| 8S | 0.360 | 0.290 | 0.305 | .5000-20 UNEF | .5000-20 UNEF | 2.031 | - | 0.844 | 1.510 | - | 0.963 |
| 10S | 0.435 | 0.290 | 0.405 | .6250-24 UNEF | .6250-24 UNEF | 2.031 | - | 0.969 | 1.510 | - | 1.088 |
| 10SL | 0.441** | 0.290 | 0.405 | .6250-24 UNEF | .6250-24 UNEF | 2.031 | - | 0.969 | 1.510 | - | 1.088 |
| 12 | 0.550 | 0.290 | 0.549 | .7500-20 UNEF | .7500-20 UNEF | 2.125 | - | 1.062 | 1.780 | - | 1.213 |
| 12S | 0.550 | 0.290 | 0.549 | .7500-20 UNEF | .7500-20 UNEF | 2.031 | - | 1.062 | 1.510 | - | 1.213 |
| 14 | 0.670 | 0.290 | 0.665 | .8750-20 UNEF | .8750-20 UNEF | 2.125 | - | 1.156 | 1.780 | - | 1.358 |
| 14S | 0.670 | 0.290 | 0.665 | .8750-20 UNEF | .8750-20 UNEF | 2.031 | - | 1.156 | 1.510 | - | 1.358 |
| 16 | 0.800 | 0.290 | 0.790 | 1.0000-20 UNEF | 1.0000-20 UNEF | 2.125 | 2.500 | 1.250 | 1.780 | 2.500 | 1.463 |
| 16S | 0.800 | 0.290 | 0.790 | 1.0000-20 UNEF | 1.0000-20 UNEF | 2.031 | - | 1.250 | 1.510 | - | 1.463 |

All dimensions in inches ** Tolerance on this dimension is +.000/-.006

RECEPTACLES



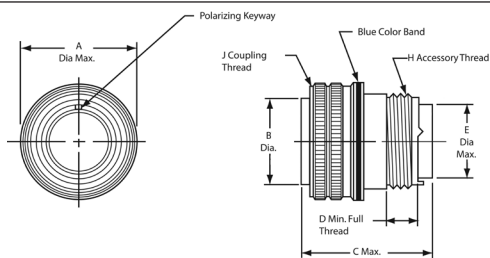
MS3451 (9441)



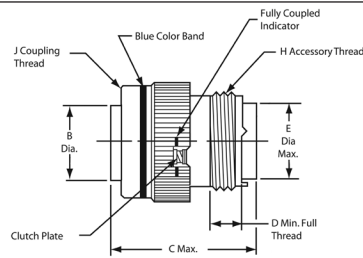
MS3454 (9444)

| SHELL SIZE | MS3450, MS3451, MS3454 | | | | | MS3451 | | | MS3454 | | | |
|---------------------|------------------------|-------|-------------------|-------------|--------|-------------|-----------------|-------------|------------|------------|-----------------|------------|
| | D MAX. | | H THREAD CLASS 2A | E DIA. MAX. | G MIN. | A MAX./MIN. | B DIA. +/- .031 | C MAX./MIN. | A +/- .010 | B +/- .005 | C DIA. +/- .005 | F +/- .005 |
| SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | | | | | | | | | | | |
| 8S | 2.031 | - | .5000-20 UNEF | 0.305 | 0.290 | .504/.496 | 0.729 | .577/.562 | 0.687 | 1.187 | 1.272 | 0.720 |
| 10S | 2.031 | - | .6250-24 UNEF | 0.405 | 0.290 | .629/.621 | 0.854 | .577/.562 | 0.812 | 1.312 | 1.397 | 0.720 |
| 10SL | 2.031 | - | .6250-24 UNEF | 0.405 | 0.290 | .629/.621 | 0.854 | .577/.562 | 0.812 | 1.312 | 1.397 | 0.720 |
| 12 | 2.125 | - | .7500-20 UNEF | 0.549 | 0.290 | .754/.746 | 0.974 | .765/.750 | 0.937 | 1.437 | 1.522 | 0.970 |
| 12S | 2.031 | - | .7500-20 UNEF | 0.549 | 0.290 | .754/.746 | 0.974 | .577/.562 | 0.937 | 1.437 | 1.522 | 0.720 |
| 14 | 2.125 | - | .8750-20 UNEF | 0.665 | 0.290 | .879/.871 | 1.099 | .765/.750 | 1.125 | 1.562 | 1.647 | 0.970 |
| 14S | 2.031 | - | .8750-20 UNEF | 0.665 | 0.290 | .879/.871 | 1.099 | .577/.562 | 1.125 | 1.562 | 1.647 | 0.720 |
| 16 | 2.125 | 2.500 | 1.0000-20 UNEF | 0.790 | 0.290 | 1.005/.996 | 1.224 | .765/.750 | 1.250 | 1.687 | 1.772 | 0.970 |
| 16S | 2.031 | - | 1.0000-20 UNEF | 0.790 | 0.290 | 1.005/.996 | 1.224 | .577/.562 | 1.250 | 1.687 | 1.772 | 0.720 |
| 18 | 2.125 | 2.500 | 1.0625-18 UNEF | 0.869 | 0.290 | 1.131/1.121 | 1.349 | .765/.750 | 1.375 | 1.812 | 1.897 | 0.970 |
| 20 | 2.125 | 2.500 | 1.1875-18 UNEF | 0.994 | 0.290 | 1.256/1.246 | 1.474 | .765/.750 | 1.500 | 1.937 | 2.022 | 0.970 |
| 22 | 2.125 | 2.500 | 1.3125-18 UNEF | 1.119 | 0.290 | 1.381/1.371 | 1.599 | .765/.750 | 1.625 | 2.156 | 2.241 | 0.970 |
| 24 | 2.125 | 2.500 | 1.4375-18 UNEF | 1.244 | 0.290 | 1.506/1.496 | 1.715 | .827/.812 | 1.750 | 2.281 | 2.366 | 0.970 |
| 28 | 2.125 | 2.500 | 1.7500-18 UNS | 1.465 | 0.467 | 1.756/1.746 | 1.974 | .827/.812 | 2.000 | 2.531 | 2.616 | 0.970 |
| 32 | 2.125 | 2.500 | 2.0000-18 UNS | 1.715 | 0.467 | 2.007/1.996 | 2.224 | .890/.870 | 2.375 | 2.781 | 2.866 | 0.970 |
| 36 | 2.125 | 2.500 | 2.2500-16 UN | 1.930 | 0.467 | 2.257/2.246 | 2.474 | .890/.870 | 2.625 | 3.031 | 3.116 | 0.970 |
| 40 | 2.125 | 2.500 | 2.5000-16 UN | 2.145 | 0.467 | 2.511/2.456 | 2.724 | .890/.870 | 2.875 | 3.281 | 3.366 | 0.970 |

PLUG SHELL SIZES 18-40



MS3456 (9446)



MS3459 (9816)

| SHELL SIZE | MS3456, MS3459 | | | | | MS3456 | | | MS3459 | | |
|------------|-----------------|--------|-------------|-------------------|-------------------|---------------------|---------------------|-------------|---------------------|---------------------|-------------|
| | B DIA. +/- .005 | D MIN. | E DIA. MAX. | H THREAD CLASS 2A | J THREAD CLASS 2A | C MAX. | | A DIA. MAX. | C MAX. | | A DIA. MAX. |
| | | | | | | SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | | SIZE 16&12 CONTACTS | SIZE 8,4,0 CONTACTS | |
| 18 | 0.925 | 0.290 | 0.869 | 1.0625-18 UNEF | 1.1250-18 UNEF | 2.125 | 2.500 | 1.344 | 1.850 | 2.500 | 1.588 |
| 20 | 1.045 | 0.290 | 0.994 | 1.1875-18 UNEF | 1.2500-18 UNEF | 2.125 | 2.500 | 1.469 | 1.850 | 2.500 | 1.713 |
| 22 | 1.170 | 0.290 | 1.119 | 1.3125-18 UNEF | 1.3750-18 UNEF | 2.125 | 2.500 | 1.594 | 1.850 | 2.500 | 1.788 |
| 24 | 1.295 | 0.467 | 1.244 | 1.4375-18 UNEF | 1.5000-18 UNEF | 2.125 | 2.500 | 1.719 | 1.850 | 2.500 | 1.963 |
| 28 | 1.515 | 0.467 | 1.465 | 1.7500-18 UNS | 1.7500-18 UNS | 2.125 | 2.500 | 1.969 | 1.850 | 2.500 | 2.213 |
| 32 | 1.765 | 0.467 | 1.715 | 2.0000-18 UNS | 2.0000-18 UNS | 2.125 | 2.500 | 2.219 | 1.850 | 2.500 | 2.463 |
| 36 | 1.975 | 0.467 | 1.930 | 2.2500-16 UN | 2.2500-16 UN | 2.125 | 2.500 | 2.469 | 1.850 | 2.500 | 2.713 |
| 40 | 2.225 | 0.467 | 2.145 | 2.5000-16 UN | 2.5000-16 UN | 2.125 | 2.500 | 2.719 | 1.850 | 2.500 | 2.963 |

All dimensions in inches (millimeters in parenthesis)