



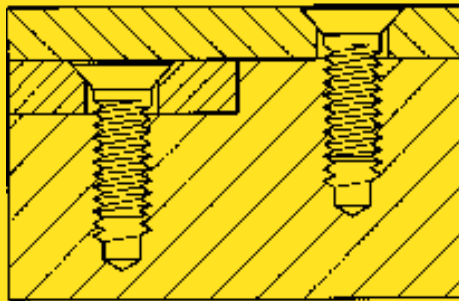
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# PRODUCT DATA SHEET



## Flat Head Socket Cap Screw



### Applications:

- Flush mounted applications where one part slides over another
- Flat heads are limited by configuration in their tensile strength capability

### Benefits:

- Unified standard threads are Class 3A UNRC and UNRF with Holo-Krome controlled radius roots and radius run-out
- Closely controlled fillet between head and body provides maximum fatigue strength
- Inch Series: ASME/ANSI B18.3 and ASTM F 835
- Metric Series: Reference ISO 10642

### Standard Flat Head Socket Cap Screw

### Metric Flat Head Socket Cap Screw

| DIAMETER   | LENGTH UNDER HEAD | PRODUCT CODE NUMBER |       | DIAMETER  | LENGTH UNDER HEAD | PRODUCT CODE NUMBER |       | DIAMETER                              | LENGTH UNDER HEAD | PRODUCT CODE NUMBER | DIAMETER                             | LENGTH UNDER HEAD | PRODUCT CODE NUMBER |
|--|-------------------|---------------------|-------|---|-------------------|---------------------|-------|---------------------------------------|-------------------|---------------------|--------------------------------------|-------------------|---------------------|
|  |                   | UNRC                | UNRF  |   |                   | UNRC                | UNRF  |                                       |                   |                     |                                      |                   |                     |
| <b>#4</b><br>(.112")<br>40 UNRC<br>1/16" Key               | 1/4"              | 60002               | -     | <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key | 1"                | 60100               | 61044 | <b>M3</b><br>Pitch 0.50<br>2mm Key    | 6                 | 87003               | <b>M10</b><br>Pitch 1.50<br>6mm Key  | 30                | 87160               |
|  | 3/8"              | 60004               | -     |   | 1-1/4"            | 60102               | 61046 |                                       | 8                 | 87004               |                                      | 35                | 87164               |
|  | 1/2"              | 60006               | -     |   | 1-1/2"            | 60104               | 61048 |                                       | 10                | 87008               |                                      | 40                | 87168               |
|  | 5/8"              | 60008               | -     |   | 1-3/4"            | 60106               | -     |                                       | 12                | 87012               |                                      | 45                | 87172               |
|  | 3/4"              | 60010               | -     |   | 2"                | 60108               | -     |                                       | 16                | 87016               |                                      | 50                | 87176               |
| <b>#5</b><br>(.125")<br>40 UNRC<br>5/64" Key               | 1/4"              | 60012               | -     | <b>7/16"</b><br>(.437")<br>14 UNRC<br>1/4" Key            | 2-1/4"            | 60110               | -     | <b>M4</b><br>Pitch 0.70<br>2.55mm Key | 20                | 87020               | <b>M12</b><br>Pitch 1.75<br>8mm Key  | 60                | 87177               |
|  | 3/8"              | 60014               | -     |   | 2-1/2"            | 60112               | -     |                                       | 25                | 87021               |                                      | 70                | 87178               |
|  | 1/2"              | 60016               | -     |   | 3"                | 60114               | -     |                                       | 8                 | 87024               |                                      | 20                | 87180               |
|  | 5/8"              | 60018               | -     |   | 3/4"              | 60116               | -     |                                       | 10                | 87028               |                                      | 25                | 87184               |
|  | 3/4"              | 60020               | -     |   | 1"                | 60118               | -     |                                       | 12                | 87032               |                                      | 30                | 87188               |
| <b>#6</b><br>(.138")<br>32 UNRC<br>5/64" Key               | 1/4"              | 60022               | -     | <b>1/2"</b><br>(.500")<br>13 UNRC<br>20 UNRF<br>5/16" Key | 1-1/4"            | 60120               | -     | <b>M5</b><br>Pitch 0.80<br>3mm Key    | 16                | 87036               | <b>M16</b><br>Pitch 2.00<br>10mm Key | 35                | 87192               |
|  | 3/8"              | 60024               | -     |   | 1-1/2"            | 60122               | -     |                                       | 20                | 87040               |                                      | 40                | 87196               |
|  | 1/2"              | 60026               | -     |   | 3/4"              | 60124               | 61050 |                                       | 25                | 87044               |                                      | 45                | 87200               |
|  | 5/8"              | 60028               | -     |   | 1"                | 60126               | 61052 |                                       | 30                | 87048               |                                      | 50                | 87204               |
|  | 3/4"              | 60030               | -     |   | 1-1/4"            | 60128               | 61054 |                                       | 35                | 87049               |                                      | 55                | 87205               |
| <b>#8</b><br>(.164")<br>32 UNRC<br>3/32" Key               | 3/8"              | 60032               | -     | <b>5/8"</b><br>(.625")<br>11 UNRC<br>3/8" Key             | 1-1/2"            | 60130               | 61056 | <b>M6</b><br>Pitch 1.00<br>4mm Key    | 40                | 87050               | <b>M10</b><br>Pitch 1.50<br>6mm Key  | 60                | 87206               |
|  | 1/2"              | 60034               | -     |   | 1-1/2"            | 60132               | 61058 |                                       | 8                 | 87052               |                                      | 70                | 87189               |
|  | 5/8"              | 60036               | -     |   | 1-3/4"            | 60134               | 61060 |                                       | 10                | 87056               |                                      | 90                | 87202               |
|  | 3/4"              | 60038               | -     |   | 2"                | 60136               | -     |                                       | 12                | 87060               |                                      | 30                | 87207               |
|  | 1"                | 60040               | -     |   | 2-1/4"            | 60138               | -     |                                       | 16                | 87064               |                                      | 35                | 87208               |
| <b>#10</b><br>(.190")<br>24 UNRC<br>32 UNRF<br>1/8" Key    | 3/8"              | 60042               | 61002 | <b>3/4"</b><br>(.750")<br>10 UNRC<br>1/2" Key             | 2-1/2"            | 60138               | -     | <b>M8</b><br>Pitch 1.25<br>5mm Key    | 20                | 87068               | <b>M16</b><br>Pitch 2.00<br>10mm Key | 40                | 87212               |
|  | 1/2"              | 60044               | 61004 |   | 3"                | 60140               | -     |                                       | 25                | 87072               |                                      | 45                | 87213               |
|  | 5/8"              | 60046               | 61006 |   | 1-1/4"            | 60142               | -     |                                       | 30                | 87076               |                                      | 50                | 87216               |
|  | 3/4"              | 60048               | 61008 |   | 1-1/2"            | 60144               | -     |                                       | 35                | 87077               |                                      | 60                | 87220               |
|  | 1"                | 60050               | 61010 |   | 1-3/4"            | 60146               | -     |                                       | 40                | 87078               |                                      | 70                | 87221               |
|  | 1-1/4"            | 60052               | 61012 |   | 2"                | 60148               | -     |                                       | 50                | 87079               |                                      |                   |                     |
|  | 1-1/2"            | 60054               | 61014 |   | 2-1/4"            | 60150               | -     |                                       | 10                | 87084               |                                      |                   |                     |
| <b>1/4"</b><br>(.250")<br>20 UNRC<br>28 UNRF<br>5/32" Key  | 3/8"              | 60056               | 61016 | <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key | 2-1/2"            | 60152               | -     | <b>M10</b><br>Pitch 1.50<br>6mm Key   | 12                | 87088               | <b>M16</b><br>Pitch 2.00<br>10mm Key |                   |                     |
|  | 1/2"              | 60058               | 61018 |   | 3"                | 60154               | -     |                                       | 16                | 87092               |                                      |                   |                     |
|  | 5/8"              | 60060               | 61020 |   | 1-1/2"            | 60158               | -     |                                       | 20                | 87096               |                                      |                   |                     |
|  | 3/4"              | 60062               | 61022 |   | 1-3/4"            | 60160               | -     |                                       | 25                | 87100               |                                      |                   |                     |
|  | 1"                | 60064               | 61024 |   | 2"                | 60162               | -     |                                       | 30                | 87104               |                                      |                   |                     |
|  | 1-1/4"            | 60066               | 61026 |   | 2-1/2"            | 60166               | -     |                                       | 35                | 87108               |                                      |                   |                     |
|  | 1-1/2"            | 60068               | 61028 |   | 3"                | 60168               | -     |                                       | 40                | 87112               |                                      |                   |                     |
| <b>5/16"</b><br>(.312")<br>18 UNRC<br>24 UNRF<br>3/16" Key | 1-3/4"            | 60070               | -     | <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key |                   |                     |       | <b>M10</b><br>Pitch 1.50<br>6mm Key   | 45                | 87113               | <b>M16</b><br>Pitch 2.00<br>10mm Key |                   |                     |
|  | 2"                | 60072               | -     |   |                   |                     |       |                                       | 50                | 87114               |                                      |                   |                     |
|  | 1/2"              | 60074               | 61030 |   |                   |                     |       |                                       | 60                | 87115               |                                      |                   |                     |
|  | 5/8"              | 60076               | 61032 |   |                   |                     |       |                                       | 15                | 87122               |                                      |                   |                     |
|  | 3/4"              | 60078               | 61034 |   |                   |                     |       |                                       | 16                | 87124               |                                      |                   |                     |
|  | 1"                | 60080               | 61036 |   |                   |                     |       |                                       | 20                | 87128               |                                      |                   |                     |
|  | 1-1/4"            | 60082               | 61038 |   |                   |                     |       |                                       | 25                | 87132               |                                      |                   |                     |
|  | 1-1/2"            | 60084               | -     |   |                   |                     |       |                                       | 30                | 87136               |                                      |                   |                     |
|  | 1-3/4"            | 60086               | -     |   |                   |                     |       |                                       | 35                | 87140               |                                      |                   |                     |
| 2"   | 60088             | -                   |       |   |                   | 40                  | 87144 |                                       |                   |                     |                                      |                   |                     |
| <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key  | 2-1/4"            | 60090               | -     |   |                   |                     | 45    | 87143                                 |                   |                     |                                      |                   |                     |
|  | 2-1/2"            | 60092               | -     |   |                   |                     | 50    | 87145                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 60    | 87146                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 70    | 87147                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 15    | 87151                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 16    | 87149                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 20    | 87152                                 |                   |                     |                                      |                   |                     |
|  |                   |                     |       |   |                   |                     | 25    | 87156                                 |                   |                     |                                      |                   |                     |