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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<br>UNDER<br>HEAD | PRODUCT<br>CODE NUMBER |       | DIAMETER                                                   | LENGTH<br>UNDER<br>HEAD | PRODUCT<br>CODE NUMBER |       | DIAMETER                              | LENGTH<br>UNDER<br>HEAD | PRODUCT<br>CODE<br>NUMBER | DIAMETER                             | LENGTH<br>UNDER<br>HEAD | PRODUCT<br>CODE<br>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                  | -     |                                       | 16                      | 87036                     |                                      | 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>M5</b><br>Pitch 0.80<br>3mm Key    | 40                      | 87050                     |                                      | 60                      | 87206                     |
|                                                            | 1/2"                    | 60034                  | -     |                                                            | 1-3/4"                  | 60132                  | 61058 |                                       | 8                       | 87052                     | <b>M16</b><br>Pitch 2.00<br>10mm Key | 70                      | 87189                     |
|                                                            | 5/8"                    | 60036                  | -     |                                                            | 2"                      | 60134                  | 61060 |                                       | 10                      | 87056                     |                                      | 90                      | 87202                     |
|                                                            | 3/4"                    | 60038                  | -     |                                                            | 2-1/4"                  | 60136                  | -     |                                       | 12                      | 87060                     |                                      | 30                      | 87207                     |
|                                                            | 1"                      | 60040                  | -     |                                                            | 2-1/2"                  | 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              | 3"                      | 60140                  | -     |                                       | 20                      | 87068                     |                                      | 40                      | 87212                     |
|                                                            | 1/2"                    | 60044                  | 61004 |                                                            | 1-1/4"                  | 60142                  | -     |                                       | 25                      | 87072                     |                                      | 45                      | 87213                     |
|                                                            | 5/8"                    | 60046                  | 61006 |                                                            | 1-1/2"                  | 60144                  | -     |                                       | 30                      | 87076                     |                                      | 50                      | 87216                     |
|                                                            | 3/4"                    | 60048                  | 61008 |                                                            | 1-3/4"                  | 60146                  | -     |                                       | 35                      | 87077                     |                                      | 60                      | 87220                     |
|                                                            | 1"                      | 60050                  | 61010 |                                                            | 2"                      | 60148                  | -     |                                       | 40                      | 87078                     |                                      | 70                      | 87221                     |
|                                                            | 1-1/4"                  | 60052                  | 61012 |                                                            | 2-1/4"                  | 60150                  | -     | <b>M6</b><br>Pitch 1.00<br>4mm Key    | 50                      | 87079                     |                                      |                         |                           |
|                                                            | 1-1/2"                  | 60054                  | 61014 |                                                            | 2-1/2"                  | 60152                  | -     |                                       | 10                      | 87084                     |                                      |                         |                           |
| <b>1/4"</b><br>(.250")<br>20 UNRC<br>28 UNRF<br>5/32" Key  | 3/8"                    | 60056                  | 61016 | <b>5/16"</b><br>(.312")<br>18 UNRC<br>24 UNRF<br>3/16" Key | 3"                      | 60154                  | -     |                                       | 12                      | 87088                     |                                      |                         |                           |
|                                                            | 1/2"                    | 60058                  | 61018 |                                                            | 1-1/2"                  | 60158                  | -     |                                       | 16                      | 87092                     |                                      |                         |                           |
|                                                            | 5/8"                    | 60060                  | 61020 |                                                            | 1-3/4"                  | 60160                  | -     |                                       | 20                      | 87096                     |                                      |                         |                           |
|                                                            | 3/4"                    | 60062                  | 61022 |                                                            | 2"                      | 60162                  | -     |                                       | 25                      | 87100                     |                                      |                         |                           |
|                                                            | 1"                      | 60064                  | 61024 |                                                            | 2-1/2"                  | 60166                  | -     |                                       | 30                      | 87104                     |                                      |                         |                           |
|                                                            | 1-1/4"                  | 60066                  | 61026 |                                                            | 3"                      | 60168                  | -     |                                       | 35                      | 87108                     |                                      |                         |                           |
|                                                            | 1-1/2"                  | 60068                  | 61028 |                                                            |                         |                        |       |                                       | 40                      | 87112                     |                                      |                         |                           |
|                                                            | 1-3/4"                  | 60070                  | -     |                                                            |                         |                        |       |                                       | 45                      | 87113                     |                                      |                         |                           |
| <b>5/16"</b><br>(.312")<br>18 UNRC<br>24 UNRF<br>3/16" Key | 2"                      | 60072                  | -     | <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key  |                         |                        |       |                                       | 50                      | 87114                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       | <b>M8</b><br>Pitch 1.25<br>5mm Key    | 60                      | 87115                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 15                      | 87122                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 16                      | 87124                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 20                      | 87128                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 25                      | 87132                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 30                      | 87136                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 35                      | 87140                     |                                      |                         |                           |
| <b>3/8"</b><br>(.375")<br>16 UNRC<br>24 UNRF<br>7/32" Key  |                         |                        |       |                                                            |                         |                        |       |                                       | 40                      | 87144                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 45                      | 87143                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 50                      | 87145                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 60                      | 87146                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 70                      | 87147                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 15                      | 87151                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 16                      | 87149                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 20                      | 87152                     |                                      |                         |                           |
|                                                            |                         |                        |       |                                                            |                         |                        |       |                                       | 25                      | 87156                     |                                      |                         |                           |