# METRIC SOCKET FLAT HEAD CAP SCREWS

**Threads:** ANSI B1.13M, ISO 262 (coarse series only)

**Applicable or Similar Specification:** DIN EN ISO 10642

**General Note:** Flat, countersunk head cap screws and button head cap screws are designed and recommended for moderate fastening applications: machine guards, hinges, covers, etc. They are not suggested for use in critical high-strength applications where socket head cap screws should be used.

### Dimensions

- **Material:** ASTM F835M
- **Dimensions:** B18.3.5M
- **Property Class:** 12.9
- **Hardness:** Rc 38-43 (alloy steel)
- **Tensile Stress:** 1040 MPa
- **Shear Stress:** 630 MPa
- **Yield Stress:** 945 MPa
- **Sizes:** For sizes up to and including M20, head angle shall be 92°/90°. For larger sizes, head angle shall be 62°/60°.
- **Thread Class:** 4g 6g

### Notes

1. **Length Tolerance**

<table>
<thead>
<tr>
<th>nominal screw diameter</th>
<th>Up to 16 mm, incl.</th>
<th>Over 16 to 60 mm, incl.</th>
<th>Over 60 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 thru M24</td>
<td>±0.3</td>
<td>±0.5</td>
<td>±0.8</td>
</tr>
</tbody>
</table>

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1. **Head Angle** See Note 8

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