

## Datasheet

RS Stock No:124-7169

# Bright Zinc Plated Steel, Hexagon Countersunk Socket Screws: Metric Thread



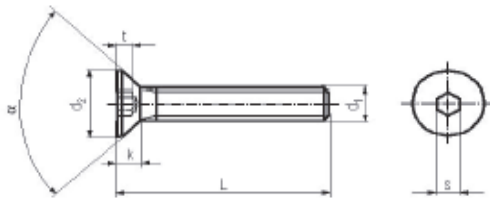
Countersunk socket screws are designed for light duty applications where there is limited space. These screws are widely used in many applications where a strong and reliable joint is required. Typically countersunk socket screws are used to fasten plates and strips of metal to equipment and machinery as their flat head allows a flush flat finish. This range of socket screws is bright zinc plated and is suitable for indoor and dry environments

- Threaded in accordance with Din 7991 standard
- Bright zinc plated
- Used in applications where a wider head and lower profile is required
- Suitable for light fastening applications
- Typical applications include; Machine tooling, Security Guarding, Panel Building and General Fastening Applications
- Also used in many internal joinery applications
- Requires a Hex key / Allen key

# Please view our full range listing below for all A4, 316 Stainless Steel Hexagon Socket Countersunk Head Screws.

| Head Shape             | Material          | Thread Size | Length | RS Part No. |
|------------------------|-------------------|-------------|--------|-------------|
| Hex Socket Countersunk | Zinc Plated Steel | M3          | 8 mm   | 4839751     |
| Hex Socket Countersunk | Zinc Plated Steel | M3          | 10 mm  | 4839773     |
| Hex Socket Countersunk | Zinc Plated Steel | M3          | 12 mm  | 4839767     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 8 mm   | 4839789     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 10 mm  | 4839789     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 12 mm  | 4389802     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 16 mm  | 4389818     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 20 mm  | 4915085     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 25 mm  | 4915091     |
| Hex Socket Countersunk | Zinc Plated Steel | M4          | 30 mm  | 4915108     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 10 mm  | 4839824     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 12 mm  | 4839830     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 16 mm  | 4839846     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 20 mm  | 4839852     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 25 mm  | 4915114     |
| Hex Socket Countersunk | Zinc Plated Steel | M5          | 30 mm  | 4915120     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 10 mm  | 4915142     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 12 mm  | 4839868     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 16 mm  | 4839874     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 20 mm  | 4839896     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 25 mm  | 4839903     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 30 mm  | 4915158     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 35 mm  | 4915164     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 40 mm  | 4915170     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 45 mm  | 1247169     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 50 mm  | 8229252     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 60 mm  | 8229256     |
| Hex Socket Countersunk | Zinc Plated Steel | M6          | 65 mm  | 1247170     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 12 mm  | 4839919     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 16 mm  | 4839925     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 20 mm  | 4839931     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 25 mm  | 4839953     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 30 mm  | 4839969     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 35 mm  | 4915186     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 40 mm  | 4915192     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 45 mm  | 1247171     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 50 mm  | 8229265     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 60 mm  | 8229268     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 70 mm  | 1247172     |
| Hex Socket Countersunk | Zinc Plated Steel | M8          | 80 mm  | 1247173     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 16 mm  | 1247174     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 20 mm  | 8229262     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 25 mm  | 8229271     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 30 mm  | 8229274     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 35 mm  | 8229278     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 40 mm  | 8229287     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 45 mm  | 1247175     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 50 mm  | 8229280     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 55 mm  | 1247176     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 60 mm  | 1247177     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 70 mm  | 1247178     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 75 mm  | 1247179     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 80 mm  | 1247180     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 90 mm  | 1247181     |
| Hex Socket Countersunk | Zinc Plated Steel | M10         | 100 mm | 1247182     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 25 mm  | 8229284     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 30 mm  | 8229293     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 35 mm  | 8229296     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 40 mm  | 8229290     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 45 mm  | 8229300     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 50 mm  | 8229303     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 60 mm  | 1247183     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 65 mm  | 1247184     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 70 mm  | 1247185     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 75 mm  | 1247186     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 80 mm  | 1247187     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 90 mm  | 1247188     |
| Hex Socket Countersunk | Zinc Plated Steel | M12         | 100 mm | 1247189     |

FLAT HEAD SOCKET CAP SCREWS DIN 7991 / ISO 10642 / ANSI B18.3.5M



\*\*\*\*\*Notice\*\*\*\*\*  
Lindstrom Metric, LLC will supply all Flat Head Socket Cap Screws With Full Thread, not according to below formulas.

| Thread Size d1   |                          | (M2) | (M2.5) | M3   | M4   | M5    | M6    | M8    | M10   | M12   | (M14) | M16   | (M18) | M20   | (M22) | M24   |
|--|--------------------------|------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Thread Pitch   |                          | 0.4  | 0.45   | 0.5  | 0.7  | 0.8   | 1     | 1.25  | 1.5   | 1.75  | 2     | 2     | 2.5   | 2.5   | 2.5   | 3     |
| Head Angle a   |                          | 90°  | 90°    | 90°  | 90°  | 90°   | 90°   | 90°   | 90°   | 90°   | 90°   | 90°   | 90°   | 90°   | 60°   | 60°   |
| DIN 7991 Thread Length Formula   | For Lengths ≤125mm       | 10   | 11     | 12   | 14   | 16    | 18    | 22    | 26    | 30    | 34    | 38    | 42    | 46    | 50    | 54    |
|  | For Lengths >125mm≤200mm |      |        |      |      |       | 24    | 28    | 32    | 36    | 40    | 44    | 48    | 52    | 56    | 60    |
|  | For Lengths >200 mm      |      |        |      |      |       |       |       | 45    | 49    | 53    | 57    | 61    | 65    | 69    | 73    |
| ISO 10642 & ANSI B18.3.5M use a shank length / grip length formula to determine thread length. - Refer to full ISO or ANSI standard for more details.  |                          |      |        |      |      |       |       |       |       |       |       |       |       |       |       |       |
| DIN 7991 Head Dia. d2  | min.                     | 3.7  | 4.7    | 5.7  | 7.64 | 9.64  | 11.57 | 15.57 | 19.48 | 23.48 | 26.48 | 29.48 | 32.38 | 35.38 | 35.38 | 38.38 |
|  | max. = nominal           | 4.0  | 5.0    | 6.0  | 8.00 | 10.00 | 12.00 | 16.00 | 20.00 | 24.00 | 27.00 | 30.00 | 33.00 | 36.00 | 36.00 | 39.00 |
| ISO 10642 Head Dia. d2   | min.                     |      |        | 5.54 | 7.53 | 9.43  | 11.34 | 15.24 | 19.22 | 23.12 | 26.52 | 29.01 |       | 35.05 |       |       |
|  | max. = theoretical       |      |        | 6.72 | 8.96 | 11.20 | 13.44 | 17.92 | 22.40 | 26.88 | 30.80 | 33.60 |       | 40.32 |       |       |
| ANSI B18.3.5M Head Dia. D2   | min.                     |      |        | 5.35 | 7.80 | 9.75  | 11.70 | 15.65 | 19.50 | 23.40 | 26.18 | 23.76 |       | 34.60 |       |       |
|  | max. = theoretical       |      |        | 6.72 | 8.96 | 11.20 | 13.44 | 17.92 | 22.40 | 26.88 | 30.24 | 33.60 |       | 40.32 |       |       |
| ISO 10642 & ANSI B18.3.5M use a theoretical value for the max head diameter, which represents the exact diameter of a hole countersunk to exactly 90° in which a screw having the maximum head size will fit flush. - Refer to full ISO or ANSI standard for more details. |                          |      |        |      |      |       |       |       |       |       |       |       |       |       |       |       |

|                             |                  |     |     |      |      |      |      |      |      |      |      |      |   |       |      |    |
|-----------------------------|------------------|-----|-----|------|------|------|------|------|------|------|------|------|---|-------|------|----|
| DIN 7991 Head Height k      | max.             | 1.2 | 1.5 | 1.7  | 2.3  | 2.8  | 3.3  | 4.4  | 5.5  | 6.5  | 7    | 7.5  | 8 | 8.5   | 13.1 | 14 |
| ISO 10642 Head Height k     | max. = reference |     |     | 1.86 | 2.48 | 3.10 | 3.72 | 4.96 | 6.20 | 7.44 | 8.40 | 8.80 |   | 10.16 |      |    |
| ANSI B18.3.5M Head Height k | max. = reference |     |     | 1.86 | 2.48 | 3.10 | 3.72 | 4.96 | 6.20 | 7.44 | 8.12 | 8.80 |   | 10.16 |      |    |

ISO 10642 & ANSI B18.3.5M show Head Height k as a reference point only. - Refer to full ISO or ANSI standard for more details.

| DIN 7991 Key Size s            | Nominal Size | 1.3   | 1.5   | 2     | 2.5   | 3     | 4     | 5     | 6     | 8      | 10     | 10     | 12     | 12     | 14     | 14     |
|--------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|                                | min.         | 1.275 | 1.545 | 2.02  | 2.52  | 3.02  | 4.02  | 5.02  | 6.02  | 8.025  | 10.025 | 10.025 | 10.025 | 12.032 | 12.032 | 14.032 |
| max.                           | 1.300        | 1.520 | 2.10  | 2.60  | 3.10  | 4.12  | 5.14  | 6.14  | 8.175 | 10.175 | 10.175 | 10.175 | 12.212 | 12.212 | 14.212 | 14.212 |
| ISO 10642 Key Size s           | Nominal Size |       |       | 2     | 2.5   | 3     | 4     | 5     | 6     | 8      | 10     | 10     |        | 12     |        |        |
|                                | min.         |       |       | 2.02  | 2.52  | 3.02  | 4.020 | 5.02  | 6.02  | 8.025  | 10.025 | 10.025 |        | 12.032 |        |        |
| max.                           |              |       | 2.06  | 2.58  | 3.08  | 4.095 | 5.14  | 6.14  | 8.175 | 10.175 | 10.175 |        | 12.212 |        |        |        |
| ANSI B18.3.5M Key Size s       | Nominal Size |       |       | 2     | 2.5   | 3     | 4     | 5     | 6     | 8      | 10     | 10     |        | 12     |        |        |
|                                | min.         |       |       | 2.020 | 2.52  | 3.020 | 4.020 | 5.020 | 6.020 | 8.025  | 10.025 | 10.025 |        | 12.032 |        |        |
| max.                           |              |       | 2.045 | 2.56  | 3.071 | 4.084 | 5.084 | 6.095 | 8.115 | 10.115 | 10.115 |        | 12.142 |        |        |        |
| DIN 7991 Key Engagement t      | min.         | 0.75  | 0.8   | 0.950 | 1.55  | 2.05  | 2.25  | 3.2   | 4.1   | 4.3    | 4.5    | 5.0    | 5.2    | 5.6    | 8.44   | 9.87   |
| ISO 10642 Key Engagement t     | min.         |       |       | 1.100 | 1.50  | 1.90  | 2.20  | 3.0   | 3.6   | 4.3    | 4.5    | 4.8    |        | 5.6    |        |        |
| ANSI B18.3.5M Key Engagement t | min.         |       |       | 1.100 | 1.50  | 1.90  | 2.20  | 3.0   | 3.6   | 4.3    | 4.7    | 4.8    |        | 5.6    |        |        |

| Length Tolerance | DIN 7991 / ISO 10642 |       | ANSI B18.3.5M |      | Length Tolerance | DIN 7991 / ISO 10642 |       | ANSI B18.3.5M |       |
|------------------|----------------------|-------|---------------|------|------------------|----------------------|-------|---------------|-------|
|                  | min                  | max   | min           | max  |                  | min                  | max   | min           | max   |
| Nominal Length   |                      |       |               |      | Nominal Length   |                      |       |               |       |
| (4)              | 3.76                 | 4.24  | 3.7           | 4.3  | 30               | 29.58                | 30.42 | 29.5          | 30.5  |
| (5)              | 4.76                 | 5.24  | 4.7           | 5.3  | 35               | 34.5                 | 35.5  | 34.5          | 35.5  |
| (6)              | 5.76                 | 6.24  | 5.7           | 6.3  | 40               | 39.5                 | 40.5  | 39.5          | 40.5  |
| 8                | 7.71                 | 8.29  | 7.7           | 8.3  | 45               | 44.5                 | 45.5  | 44.5          | 45.5  |
| 10               | 9.71                 | 10.29 | 9.7           | 10.3 | 50               | 49.5                 | 50.5  | 49.5          | 50.5  |
| 12               | 11.65                | 12.35 | 11.7          | 12.3 | (55)             | 54.4                 | 55.6  | 54.5          | 55.5  |
| (14)             | 13.65                | 14.35 | 13.7          | 14.3 | 60               | 59.4                 | 60.6  | 59.5          | 60.5  |
| 16               | 15.65                | 16.35 | 15.7          | 16.3 | (65)             | 64.4                 | 65.6  | 64.2          | 65.8  |
| (18)             | 17.65                | 18.35 | 17.5          | 18.5 | 70               | 69.4                 | 70.6  | 69.2          | 70.8  |
| 20               | 19.58                | 20.42 | 19.5          | 20.5 | (75)             | 74.4                 | 75.6  | 74.2          | 75.8  |
| (22)             | 21.58                | 22.42 | 21.5          | 22.5 | 80               | 79.4                 | 80.6  | 79.2          | 80.8  |
| 25               | 24.58                | 25.42 | 24.5          | 25.5 | 90               | 89.3                 | 90.7  | 89.2          | 90.8  |
| (26)             | 27.58                | 28.42 | 27.5          | 28.5 | 100              | 99.3                 | 100.7 | 99.2          | 100.8 |

\*\*\*\*\*Notice\*\*\*\*\*  
Diameters and or Lengths shown with ( ) are not shown in some standards are not recommended for use in new design.

\*\*\*\*\*Notice\*\*\*\*\*  
DIN 7991, ISO 10642, and ANSI B18.3.5M are not intended for high strength applications. The only purpose of having them produced in property class 10.9 or 12.9 is to increase the wear resistance of the socket drive.

|                  | DIN 7991 / ISO 10642 |                 | ANSI B18.3.5M |
|------------------|----------------------|-----------------|---------------|
| Material         | Steel                | Stainless Steel | Steel         |
| Property Class   | 10.9                 | A2 & A4         | 12.9          |
| Finish           | Furnace Black        | Plain           | Furnace Black |
| Thread Tolerance | 6g                   | 6g              | 4g6g          |