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#### **Datasheet**

# High Tensile Steel Black Self-Colour Hexagon Socket Cap Head Screws: Metric Thread



Socket caps have a small cylindrical head with tall vertical sides giving them space saving advantages as well as greater tensile strength and they require less side room for wrenches.

- 12.9 grade heat treated high tensile alloy steel
- Threaded in accordance with Din 912 standard
- 1200 MPa maximum tensile strength\* compared to just 800 MPa for structural grade
   8.8 so can be used in high tensile applications
- 1100 yield strength\*\* compared to 640-660 MPa depending on the size of the screw for structural grade 8.8
- 970 MPa proof load\*\*\* compared to just 580-600 depending on the size of the screw for structural grade 8.8
- Used for applications with limited space in high tensile applications
- Suitable for use in many industrial applications and similarly medical, construction, electronic & domestic applications
- Requires a Hex key / Allen key

<sup>\*</sup>Tensile Strength: The maximum load in tension (pulling apart) which a material can withstand before breaking or fracturing.

<sup>\*\*</sup>Yield Strength: The maximum load at which a material exhibits a specific permanent deformation.

<sup>\*\*\*</sup>Proof Load: An axial tensile load which the product must withstand without evidence of any permanent set.





Please view our full range listing below for all 12.9 Grade, Black Self-Colour High Tensile Steel Hexagon Socket Cap Screws

Hex Socket Cap Steel 12.9 M2 6 mm 293280 Hex Socket Cap Steel 12.9 M2 12 mm 293280 Hex Socket Cap Steel 12.9 M2 12 mm 293296  Hex Socket Cap Steel 12.9 M2.5 4 mm 293303 Hex Socket Cap Steel 12.9 M2.5 6 mm 281647 Hex Socket Cap Steel 12.9 M2.5 12 mm 281653  Hex Socket Cap Steel 12.9 M3.5 12 mm 281653  Hex Socket Cap Steel 12.9 M3 8 mm 4679789 Hex Socket Cap Steel 12.9 M3 10 mm 4679809 Hex Socket Cap Steel 12.9 M3 112 mm 4679802 Hex Socket Cap Steel 12.9 M3 15 mm 8229066 Hex Socket Cap Steel 12.9 M3 16 mm 4679802 Hex Socket Cap Steel 12.9 M3 16 mm 4679804 Hex Socket Cap Steel 12.9 M3 15 mm 8229063 Hex Socket Cap Steel 12.9 M3 20 mm 4679818 Hex Socket Cap Steel 12.9 M3 20 mm 4679824 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M3 35 mm 8229066 Hex Socket Cap Steel 12.9 M4 6 mm 8229060  Hex Socket Cap Steel 12.9 M4 10 mm 4679874 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679869 Hex Socket Cap Steel 12.9 M4 10 mm 4679880 Hex Socket Cap Steel 12.9 M4 10 mm 4679980 Hex Socket Cap Steel 12.9 M4 20 mm 4679981 Hex Socket Cap Steel 12.9 M4 10 mm 4679980 Hex Socket Cap Steel 12.9 M4 20 mm 4679991 Hex Socket Cap Steel 12.9 M4 20 mm 4679981 Hex Socket Cap Steel 12.9 M4 20 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M4 25 mm 4679991 Hex Socket Cap Steel 12.9 M5 30 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 10 mm 4679991 Hex Socket Cap Steel 12.9 M5 20 mm 4679991 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.9 M5 30 mm 4680004 Hex Socket Cap Steel 12.	Head Shape	Material	Grade	Thread Size	Length	RS Part No.	
Hex Socket Cap   Steel   12.9   M2   12 mm   293280     Hex Socket Cap   Steel   12.9   M2   12 mm   293296     Hex Socket Cap   Steel   12.9   M2.5   4 mm   293303     Hex Socket Cap   Steel   12.9   M2.5   6 mm   281647     Hex Socket Cap   Steel   12.9   M2.5   12 mm   281653     Hex Socket Cap   Steel   12.9   M3   6 mm   4679773     Hex Socket Cap   Steel   12.9   M3   8 mm   4679789     Hex Socket Cap   Steel   12.9   M3   10 mm   4679802     Hex Socket Cap   Steel   12.9   M3   15 mm   8229063     Hex Socket Cap   Steel   12.9   M3   16 mm   4679818     Hex Socket Cap   Steel   12.9   M3   20 mm   4679824     Hex Socket Cap   Steel   12.9   M3   25 mm   4679830     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679903     Hex Socket Cap   Steel   12.9   M5   10 mm   4679903     Hex Socket Cap   Steel   12.9   M5   10 mm   4679903     Hex Socket Cap   Steel   12.9   M5   10 mm   4679903     Hex Socket Cap   Steel   12.9   M5   10 mm   4679903     Hex Socket Cap   Steel   12.9   M5   30 mm   4679907     Hex Socket Cap   Steel   12.9   M5   30 mm   4679907							
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Hex Socket Cap   Steel   12.9   M3   12 mm   4679802     Hex Socket Cap   Steel   12.9   M3   15 mm   8229063     Hex Socket Cap   Steel   12.9   M3   16 mm   4679818     Hex Socket Cap   Steel   12.9   M3   20 mm   4679824     Hex Socket Cap   Steel   12.9   M3   20 mm   4679834     Hex Socket Cap   Steel   12.9   M3   30 mm   4679836     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   11 mm   4679880     Hex Socket Cap   Steel   12.9   M4   10 mm   4679880     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679919     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947     Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679997     Hex Socket Cap   Steel   12.9   M5   35 mm   4680001     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   40 mm   4680002	•	Steel	12.9	M3	10 mm	4679795	
Hex Socket Cap	•	Steel	12.9	M3		4679802	
Hex Socket Cap   Steel   12.9   M3   16 mm   4679818     Hex Socket Cap   Steel   12.9   M3   20 mm   4679824     Hex Socket Cap   Steel   12.9   M3   25 mm   4679830     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   10 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   35 mm   4679919     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947     Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   10 mm   4679969     Hex Socket Cap   Steel   12.9   M5   10 mm   4679969     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   30 mm   4679981     Hex Socket Cap   Steel   12.9   M5   30 mm   4679981     Hex Socket Cap   Steel   12.9   M5   30 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   46800010     Hex Socket Cap   Steel   12.9   M5   30 mm   46800010     Hex Socket Cap   Steel   12.9   M5   40 mm   4680032	·	Steel	12.9	M3		8229063	
Hex Socket Cap   Steel   12.9   M3   20 mm   4679824     Hex Socket Cap   Steel   12.9   M3   25 mm   4679830     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   11 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   30 mm   4679919     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947     Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   10 mm   4679969     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   10 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679997     Hex Socket Cap   Steel   12.9   M5   20 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   30 mm   46800010     Hex Socket Cap   Steel   12.9   M5   40 mm   46800022	•	Steel	12.9	M3		4679818	
Hex Socket Cap   Steel   12.9   M3   25 mm   4679830     Hex Socket Cap   Steel   12.9   M3   30 mm   4679846     Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   110 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   25 mm   4679919     Hex Socket Cap   Steel   12.9   M4   30 mm   4679931     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947    Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   10 mm   4679969     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   40 mm   4680032	-	Steel	12.9	M3		4679824	
Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   12 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   25 mm   4679919     Hex Socket Cap   Steel   12.9   M4   30 mm   4679931     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947    Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   12 mm   4679969     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679971     Hex Socket Cap   Steel   12.9   M5   30 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   40 mm   4680032	•		12.9	M3			
Hex Socket Cap   Steel   12.9   M3   35 mm   8229066     Hex Socket Cap   Steel   12.9   M3   40 mm   8229060     Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   12 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   25 mm   4679919     Hex Socket Cap   Steel   12.9   M4   30 mm   4679931     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947    Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   12 mm   4679969     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679971     Hex Socket Cap   Steel   12.9   M5   30 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   40 mm   4680032	Hex Socket Cap	Steel	12.9	M3	30 mm	4679846	
Hex Socket Cap   Steel   12.9   M3   40 mm   8229060		Steel	12.9	M3		8229066	
Hex Socket Cap   Steel   12.9   M4   6 mm   8229079     Hex Socket Cap   Steel   12.9   M4   8 mm   4679852     Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   12 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   25 mm   4679919     Hex Socket Cap   Steel   12.9   M4   30 mm   4679931     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947      Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   12 mm   4679969     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679981     Hex Socket Cap   Steel   12.9   M5   20 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   30 mm   46800004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   30 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   30 mm   4680010     Hex Socket Cap   Steel   12.9   M5   30 mm   4680032		Steel	12.9	M3	40 mm	8229060	
Hex Socket Cap         Steel         12.9         M4         8 mm         4679852           Hex Socket Cap         Steel         12.9         M4         10 mm         4679874           Hex Socket Cap         Steel         12.9         M4         12 mm         4679880           Hex Socket Cap         Steel         12.9         M4         16 mm         4679896           Hex Socket Cap         Steel         12.9         M4         20 mm         4679903           Hex Socket Cap         Steel         12.9         M4         25 mm         4679919           Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         8 mm         8229085           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel	·						
Hex Socket Cap   Steel   12.9   M4   10 mm   4679874     Hex Socket Cap   Steel   12.9   M4   12 mm   4679880     Hex Socket Cap   Steel   12.9   M4   16 mm   4679896     Hex Socket Cap   Steel   12.9   M4   20 mm   4679903     Hex Socket Cap   Steel   12.9   M4   25 mm   4679919     Hex Socket Cap   Steel   12.9   M4   30 mm   4679931     Hex Socket Cap   Steel   12.9   M4   35 mm   8229072     Hex Socket Cap   Steel   12.9   M4   40 mm   4679947      Hex Socket Cap   Steel   12.9   M5   8 mm   8229085     Hex Socket Cap   Steel   12.9   M5   10 mm   4679953     Hex Socket Cap   Steel   12.9   M5   12 mm   4679969     Hex Socket Cap   Steel   12.9   M5   16 mm   4679975     Hex Socket Cap   Steel   12.9   M5   20 mm   4679981     Hex Socket Cap   Steel   12.9   M5   25 mm   4679997     Hex Socket Cap   Steel   12.9   M5   30 mm   4680004     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680010     Hex Socket Cap   Steel   12.9   M5   35 mm   4680032	Hex Socket Cap	Steel	12.9	M4	6 mm	8229079	
Hex Socket Cap         Steel         12.9         M4         12 mm         4679880           Hex Socket Cap         Steel         12.9         M4         16 mm         4679896           Hex Socket Cap         Steel         12.9         M4         20 mm         4679903           Hex Socket Cap         Steel         12.9         M4         25 mm         4679919           Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M5         8 mm         8229085           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         10 mm         4679969           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         1	Hex Socket Cap	Steel	12.9	M4	8 mm	4679852	
Hex Socket Cap         Steel         12.9         M4         16 mm         4679896           Hex Socket Cap         Steel         12.9         M4         20 mm         4679903           Hex Socket Cap         Steel         12.9         M4         25 mm         4679919           Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         25 mm         4679997           Hex Socket Cap         Steel	Hex Socket Cap	Steel	12.9	M4	10 mm	4679874	
Hex Socket Cap         Steel         12.9         M4         20 mm         4679903           Hex Socket Cap         Steel         12.9         M4         25 mm         4679919           Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel	Hex Socket Cap	Steel	12.9	M4	12 mm	4679880	
Hex Socket Cap         Steel         12.9         M4         25 mm         4679919           Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel	Hex Socket Cap	Steel	12.9	M4	16 mm	4679896	
Hex Socket Cap         Steel         12.9         M4         30 mm         4679931           Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M5         8 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679947           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M4	20 mm	4679903	
Hex Socket Cap         Steel         12.9         M4         35 mm         8229072           Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         8 mm         8229085           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M4	25 mm	4679919	
Hex Socket Cap         Steel         12.9         M4         40 mm         4679947           Hex Socket Cap         Steel         12.9         M5         8 mm         8229085           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M4	30 mm	4679931	
Hex Socket Cap         Steel         12.9         M5         8 mm         8229085           Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M4	35 mm	8229072	
Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M4	40 mm	4679947	
Hex Socket Cap         Steel         12.9         M5         10 mm         4679953           Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032						_	
Hex Socket Cap         Steel         12.9         M5         12 mm         4679969           Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         25 mm         4679997           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	8 mm	8229085	
Hex Socket Cap         Steel         12.9         M5         16 mm         4679975           Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         25 mm         4679997           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	10 mm	4679953	
Hex Socket Cap         Steel         12.9         M5         20 mm         4679981           Hex Socket Cap         Steel         12.9         M5         25 mm         4679997           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	12 mm	4679969	
Hex Socket Cap         Steel         12.9         M5         25 mm         4679997           Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	16 mm	4679975	
Hex Socket Cap         Steel         12.9         M5         30 mm         4680004           Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	20 mm	4679981	
Hex Socket Cap         Steel         12.9         M5         35 mm         4680010           Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	25 mm	4679997	
Hex Socket Cap         Steel         12.9         M5         40 mm         4680032	Hex Socket Cap	Steel	12.9	M5	30 mm	4680004	
	Hex Socket Cap	Steel	12.9	M5	35 mm	4680010	
Hex Socket Cap         Steel         12.9         M5         50 mm         4680048	Hex Socket Cap	Steel	12.9	M5	40 mm	4680032	
	Hex Socket Cap	Steel	12.9	M5	50 mm	4680048	



Head Shape	Material	Grade	Thread Size	Length	RS Part No.
Hex Socket Cap	Steel	12.9	M6	12 mm	4680060
Hex Socket Cap	Steel	12.9	M6	14 mm	8229313
Hex Socket Cap	Steel	12.9	M6	15 mm	8229088
Hex Socket Cap	Steel	12.9	M6	16 mm	4680076
Hex Socket Cap	Steel	12.9	M6	20 mm	4680105
Hex Socket Cap	Steel	12.9	M6	25 mm	4680082
Hex Socket Cap	Steel	12.9	M6	30 mm	4680098
Hex Socket Cap	Steel	12.9	M6	35 mm	4680111
Hex Socket Cap	Steel	12.9	M6	40 mm	4680127
Hex Socket Cap	Steel	12.9	M6	45 mm	4680133
Hex Socket Cap	Steel	12.9	M6	50 mm	4680149
Hex Socket Cap	Steel	12.9	M6	55 mm	8229082
Hex Socket Cap	Steel	12.9	M6	60 mm	4680155
Hex Socket Cap	Steel	12.9	M6	70 mm	275018
<u> </u>					
Hex Socket Cap	Steel	12.9	M8	12 mm	529696
Hex Socket Cap	Steel	12.9	M8	16 mm	529703
Hex Socket Cap	Steel	12.9	M8	20 mm	529719
Hex Socket Cap	Steel	12.9	M8	25 mm	529725
Hex Socket Cap	Steel	12.9	M8	30 mm	4680161
Hex Socket Cap	Steel	12.9	M8	35 mm	4680177
Hex Socket Cap	Steel	12.9	M8	40 mm	4680199
Hex Socket Cap	Steel	12.9	M8	45 mm	4680206
Hex Socket Cap	Steel	12.9	M8	50 mm	4680212
Hex Socket Cap	Steel	12.9	M8	55 mm	4680228
Hex Socket Cap	Steel	12.9	M8	60 mm	4680234
Hex Socket Cap	Steel	12.9	M8	65 mm	8229091
Hex Socket Cap	Steel	12.9	M8	70 mm	275052
Hex Socket Cap	Steel	12.9	M8	80 mm	4680256
Hex Socket Cap	Steel	12.9	M8	100 mm	4680284

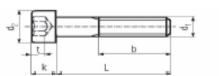


					DO D (1)	
Head Shape	Material	Grade	Thread Size	Length	RS Part No.	
Hex Socket Cap	Steel	12.9	M10	20 mm	4680278	
Hex Socket Cap	Steel	12.9	M10	25 mm	4680290	
Hex Socket Cap	Steel	12.9	M10	30 mm	4680313	
Hex Socket Cap	Steel	12.9	M10	35 mm	4680329	
Hex Socket Cap	Steel	12.9	M10	40 mm	529810	
Hex Socket Cap	Steel	12.9	M10	45 mm	275096	
Hex Socket Cap	Steel	12.9	M10	50 mm	529826	
Hex Socket Cap	Steel	12.9	M10	55 mm	275103	
Hex Socket Cap	Steel	12.9	M10	60 mm	529832	
Hex Socket Cap	Steel	12.9	M10	65 mm	4680335	
Hex Socket Cap	Steel	12.9	M10	70 mm	4680341	
Hex Socket Cap	Steel	12.9	M10	80 mm	4680357	
Hex Socket Cap	Steel	12.9	M10	90 mm	275147	
Hex Socket Cap	Steel	12.9	M10	100 mm	275153	
Hex Socket Cap	Steel	12.9	M10	120 mm	4680363	
Hex Socket Cap	Steel	12.9	M12	25 mm	4680385	
Hex Socket Cap	Steel	12.9	M12	30 mm	4680391	
Hex Socket Cap	Steel	12.9	M12	40 mm	4680408	
Hex Socket Cap	Steel	12.9	M12	45 mm	4680414	
Hex Socket Cap	Steel	12.9	M12	50 mm	4680420	
Hex Socket Cap	Steel	12.9	M12	55 mm	275181	
Hex Socket Cap	Steel	12.9	M12	60 mm	529898	
Hex Socket Cap	Steel	12.9	M12	65 mm	275197	
Hex Socket Cap	Steel	12.9	M12	70 mm	275204	
Hex Socket Cap	Steel	12.9	M12	80 mm	275226	
Hex Socket Cap	Steel	12.9	M12	90 mm	4680436	
Hex Socket Cap	Steel	12.9	M12	100 mm	4680442	
Hex Socket Cap	Steel	12.9	M12	120 mm	4680458	
Hex Socket Cap	Steel	12.9	M16	40 mm	4680492	
Hex Socket Cap	Steel	12.9	M16	50 mm	4680515	
Hex Socket Cap	Steel	12.9	M16	60 mm	275327	
Hex Socket Cap	Steel	12.9	M16	70 mm	275349	
Hex Socket Cap	Steel	12.9	M16	80 mm	275361	
Hex Socket Cap	Steel	12.9	M16	100 mm	275383	
Hex Socket Cap	Steel	12.9	M16	120 mm	4680543	





SOCKET HEAD CAP SCREWS DIN 912/ ISO 4762 / ANSI B 18.3.1 M





Head Diameter d2 based on Knurled Head

Thread Size d1	M	36	(N	(39)	M	42	(M	45)	M	M48 M56		M64		
Thread Pitch		4		4	4	.5	4	.5	5		5.5		6	
Thread Length b	84		NA		96		NA		108		124		140	
Head Dla. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	53.54	54.46	57.54	58.46	62.54	63.46	66.54	67.46	71.54	72.46	83.46	84.54	95.46	96.54
ISO 4762 (1997)	53.54	54.46			62.54	63.46			71.54	72.46	83.46	84.54	95.46	96.54
ANSI B 18.3.1 M (1986)	53.37	54.46			62.31	63.46			71.27	72.46				
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	35.38	36.00	38.38	39.00	41.38	42.00	44.38	45.00	47.38	48.00	55.26	56.00	63.26	64.00
ISO 4762 (1997)	35.38	36.00			41.38	42.00			47.38	48.00	55.26	56.00	63.26	64.00
ANSI B 18.3.1 M (1986)	35.64	36.00			41.61	42.00			47.58	48.00				
Key Size nominal s	2	7		27	3	2	3	2	3	36	4	1	4	6
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 912 (1983)	27.065	27.275	27.065	27.275	32.08	32.33	32.08	32.33	36.08	36.33	41.08	41.33	46.08	46.33
ISO 4762 (1997)	27.065	27.275			32.08	32.33			36.08	36.33	41.08	41.33	46.08	46.33
ANSI B 18.3.1 M (1986)	27.065	27.319			32.080	32.461			36.080	36.461				
Key Engagement t	m	in.	m	ıln.	min.		min. min.		in.	min.		min.		
DIN 912 (1983)		9		22		4	2	4	28		34		38	
ISO 4762 (1997)		9				4				28	34		38	
ANSI B 18.3.1 M (1986)	1	8			2	1			2	24				
Thread Size d1	M	72	N	180	M	90	M1	100	1					
Thread Pitch		6		6		5		5	1					
Thread Length b	1	56	1	72	19	92	2	12	1					
Head Dla. d2	min.	max.	min.	max.	min.	max.	min.	max.	]					
DIN 912 (1983)	107.46	108.54	119.46	120.54	134.37	135.63	149.37	150.63	]					
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	1					
DIN 912 (1983)	71.26	72.00	79.26	80.00	89.13	90.00	99.13	100.00	1					
Key Size nominal s	5	5		55	7	5	0	5	1					
	min.	max.	min.	max.	min.	max.	min.	max.	1					
DIN 912 (1983)	55.10	55.40	65.10	65.40	75.10	75.40	85.12	85.47	1					
Key Engagement t	m	in.	n	ıln.	m		m	in.	l					
DIN 912 (1983)	4	3	4	48	5	4	60		]					
Property Class	12	2.9	8.8≤0	16mm	8.8≥d 16mm 10.9		A2 /A4-50 A2 /A4-70		44-70	A2 /A4-80				
Tensile Strength	17690	00 psi	1160	00 psi	12035	iO psl	15080	00 psi	7250	00 psl	101500 psi		116000 psi	
Yield Strength	1595	00 psl	928	00 psi	9570	0 psl	136300 psi 30450 psi		6525	iO psl	psi 87000 psi			
Rockwell Hardness (HRC)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
INDUMBER HARDINESS ITHIC														
· · · · · · · · · · · · · · · · · · ·	39	44	22	32	23	34	32	39	NA	NA	NA	NA	NA	NA

Property Class	Steel	Steel	Stainless Steel			
Property Class	12.9	2.9 8.8 & 10.9 A2				
Finish	F	Furnace Black Plain				
Thread Tolerance	5g6g	6q				

Diameters & Lengths With ( ) are not recommended for new design.

M1.4, 2.6, 39 and 45 are no longer included in DIN 912.

M1.4, 2.6, 18, 22, 27, 33, 39, and 45 are no longer included in ISO 4762.

The basic difference between DIN 912-12.9 (1983) / ISO 4762-12.9 (1997) and ANSI B 18.3.M (1986) is both DIN and ISO have a thread tolerance of 5g6g, while ANSI has a thread tolerance of 4g6g, which may not be readily available on a worldwide basis.

ANSI B 18.3.1 M is only available in Property Class 12.9.

For More Detailed Information, Please Refer To Complete DIN, ISO, or ANSI Standard, Which Are The Governing Standards.

DIN 912 (1983) / ISO 4762 (1997) / ANSI B 18.3.1M (1982) - LGF 05/01/08

See Next Page For Additional Information