

## 1/4-20 x 1/2" SHCS, 50/Pack



Stock #55-178 **8 In Stock**

A\$33.<sup>20</sup>

**ADD TO CART**

### Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1-9    | A\$33.20 each                 |
| Qty 10-24  | A\$30.00 each                 |
| Need More? | <a href="#">Request Quote</a> |

### Product Downloads

### Regulatory Compliance

**Compliant**

RoHS 2015:

[View](#)

Certificate of Conformance:

## Product Details

- Ideal for Use with Our English Sized Positioning Equipment
- A Broad Selection of Sizes Available
- 50 Pieces per Package
- [Socket Head Cap Screw Kits](#) Available
- [Allen Wrenches](#) Also Available

Socket head cap screws offer a reliable, high-strength solution for mounting and assembling optical components in precision systems. Manufactured from durable alloy steel, these screws feature a sleek, consistent design that is ideal for use in many environments. The hexagonal socket head design allows for easy installation in tight spaces using standard [Allen Wrenches](#), ensuring repeatable, secure fastening without damaging surrounding optics or mounts.

Available in English and Metric threading and a variety of hex key sizes, these cap screws are perfect for integration with optical breadboards, translation stages, and custom assemblies. Whether you're building a prototype or maintaining alignment-critical systems, these versatile fasteners offer dependable performance and easy compatibility with Edmund Optics' mechanical components.

## FAQ(s)

### What is a cap screw used for?

Capscrews are used to fasten components securely in optical systems, mounts, and mechanical assemblies where precision and durability are necessary.

### What's the difference between a cap screw and a bolt?

A cap screw is designed to fit tightly into a tapped hole and often provides a cleaner, more secure fit than a standard bolt. Unlike bolts which are tightened using a nut, socket head cap screws have a hexagonal socket making it easy to secure using an Allen wrench.

### What materials are these cap screws made of?

Edmund Optics' cap screws are typically manufactured from alloy steel for corrosion resistance and strength in lab or production environments.

### Are socket head cap screws reusable?

Yes, if not damaged or over-torqued, they can be reused repeatedly. Always check thread integrity and apply proper torque when reassembling.

## Technical Information

|                         | Allen Wrench Stock No.  | Allen Wrench Hex Key Size | For Socket Head Cap | For Socket Head Set | For Button Head Cap |
|-------------------------|-------------------------|---------------------------|---------------------|---------------------|---------------------|
| English                 | <a href="#">#58-639</a> | 0.028"                    | N/A                 | #0                  | N/A                 |
|                         | <a href="#">#58-638</a> | 0.035"                    | N/A                 | #2                  | #0                  |
|                         | <a href="#">#56-271</a> | 0.050"                    | #0                  | #4                  | #2                  |
|                         | <a href="#">#58-637</a> | 1/16"                     | #1                  | #6                  | #3 & #4             |
|                         | <a href="#">#56-270</a> | 1/64"                     | #2 & #3             | #8                  | #5 & #6             |
|                         | <a href="#">#55-188</a> | 3/32"                     | #4 & #5             | #10                 | #8                  |
|                         | <a href="#">#55-189</a> | 7/64"                     | #6                  | N/A                 | N/A                 |
|                         | <a href="#">#03-662</a> | 1/8"                      | N/A                 | 1/4"                | #10                 |
|                         | <a href="#">#55-190</a> | 9/64"                     | #8                  | N/A                 | N/A                 |
|                         | <a href="#">#55-191</a> | 5/32"                     | #10 & #12           | 5/16"               | #12 & 1/4"          |
| <a href="#">#55-192</a> | 3/16"                   | 1/4"                      | 3/8"                | 5/16"               |                     |
| Metric                  | <a href="#">#58-636</a> | 0.9mm                     | N/A                 | M2                  | N/A                 |
|                         | <a href="#">#55-452</a> | 1.5mm                     | M1.6 & M2           | M3                  | M2.5                |
|                         | <a href="#">#57-445</a> | 2mm                       | M2.5 & M2.6         | M4                  | M3                  |
|                         | <a href="#">#55-451</a> | 2.5mm                     | M3                  | M5                  | M4                  |
|                         | <a href="#">#55-199</a> | 3mm                       | M4                  | M6                  | M5                  |
|                         | <a href="#">#55-200</a> | 5mm                       | M6                  | M10                 | M8                  |