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



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

- 1 + S\$29<sup>05</sup>

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### Volume Pricing

Qty 1-9	S\$29.05 each
Qty 10-24	S\$26.25 each
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Compliant

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## 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