

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



Stock **#55-178** 20+ In Stock

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SPECIFICATIONS

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?

Cap screws 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	#58-639	0.028"	N/A	#0	N/A
	#58-638	0.035"	N/A	#2	#0
	#56-271	0.050"	#0	#4	#2
	#58-637	1/16"	#1	#6	#3 & #4
	#56-270	1/64"	#2 & #3	#8	#5 & #6
	#55-188	3/32"	#4 & #5	#10	#8
	#55-189	7/64"	#6	N/A	N/A
	#03-662	1/8"	N/A	¼"	#10
	#55-190	9/64"	#8	N/A	N/A
	#55-191	5/32"	#10 & #12	5/16"	#12 & ¼"
	#55-192	3/16"	¼"	3/8"	5/16"
Metric	#58-636	0.9mm	N/A	M2	N/A
	#55-452	1.5mm	M1.6 & M2	M3	M2.5
	#57-445	2mm	M2.5 & M2.6	M4	M3
	#55-451	2.5mm	M3	M5	M4
	#55-199	3mm	M4	M6	M5
	#55-200	5mm	M6	M10	M8