What Are PCB Edge-Locking Supports Used For?

Engineering Hardware & Fasteners · engineeringhardware.com/applications/pcb-edge-locking-supports

PCB Edge-Locking Supports are used for setting a fixed distance on a screw that passes straight through it, with no thread of its own. They are manufactured to Trade series (edge-locking board supports), and selection is driven by the bore diameter, the fit and tolerance the assembly requires, and the service environment.

Primary duty

Setting a fixed distance on a screw that passes straight through it, with no thread of its own

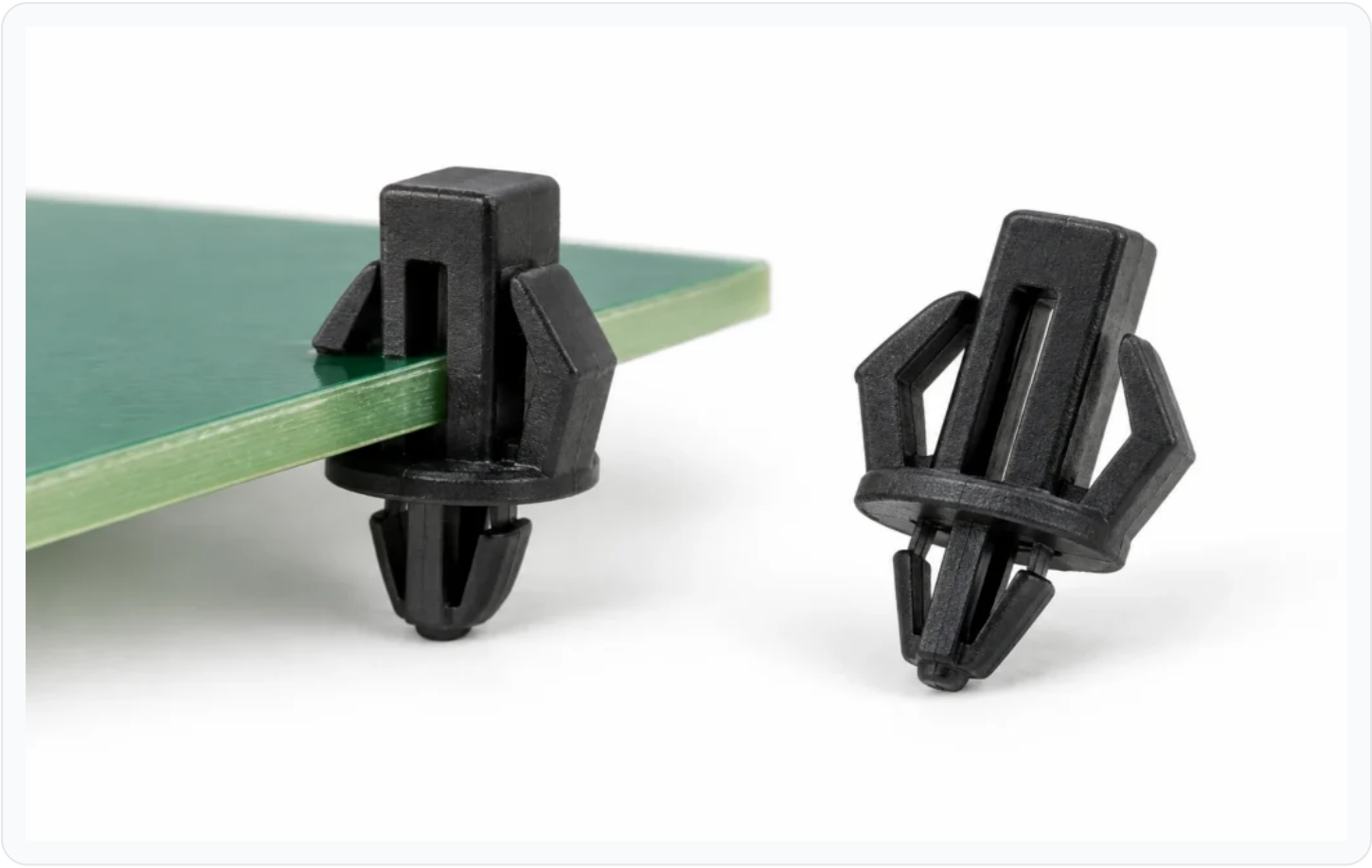
Governing standard

Trade series (edge-locking board supports)

Category

Standoffs & Spacers

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



The primary duty of PCB Edge-Locking Supports is setting a fixed distance on a screw that passes straight through it, with no thread of its own. Below: the sectors that specify them in volume, the checklist used to select the right size and material for the application, installation notes, and the known limits of the type.

Typical Applications for PCB Edge-Locking Supports

The most common settings where these are specified:

- **Electronics assembly:** holding boards off a chassis and stacking multiple boards at a fixed pitch.

Enclosures & panels: spacing a fascia, guard or label plate off the surface behind it.

Machine alignment: setting and correcting the height of a component on its mounting.

General machine building: fastening covers, brackets, motors and sub-assemblies on production equipment.

Maintenance & repair (MRO): a stocked size for servicing existing plant where the original fastener spec must be matched.

Product catalog

Related PCB Supports products



(https://engineeringhardware.com/product/cost-effective-steel-standoff-screw-with-zinc-plating-for-general-purpose-spacing-in/)

PCB & Electronic Standoffs

Cost-Effective Steel Standoff Screw with Zinc Plating, for General Purpose Spacing in Control Panels and Junction Boxes
(https://engineeringhardware.com/product/cost-effective-steel-standoff-screw-with-zinc-plating-for-general-purpose-spacing-in/)

Round Head · DIN, GB, ANSI, BSW, JIS, GOST, Customized

US$0.24 MOQ 100,000 pieces



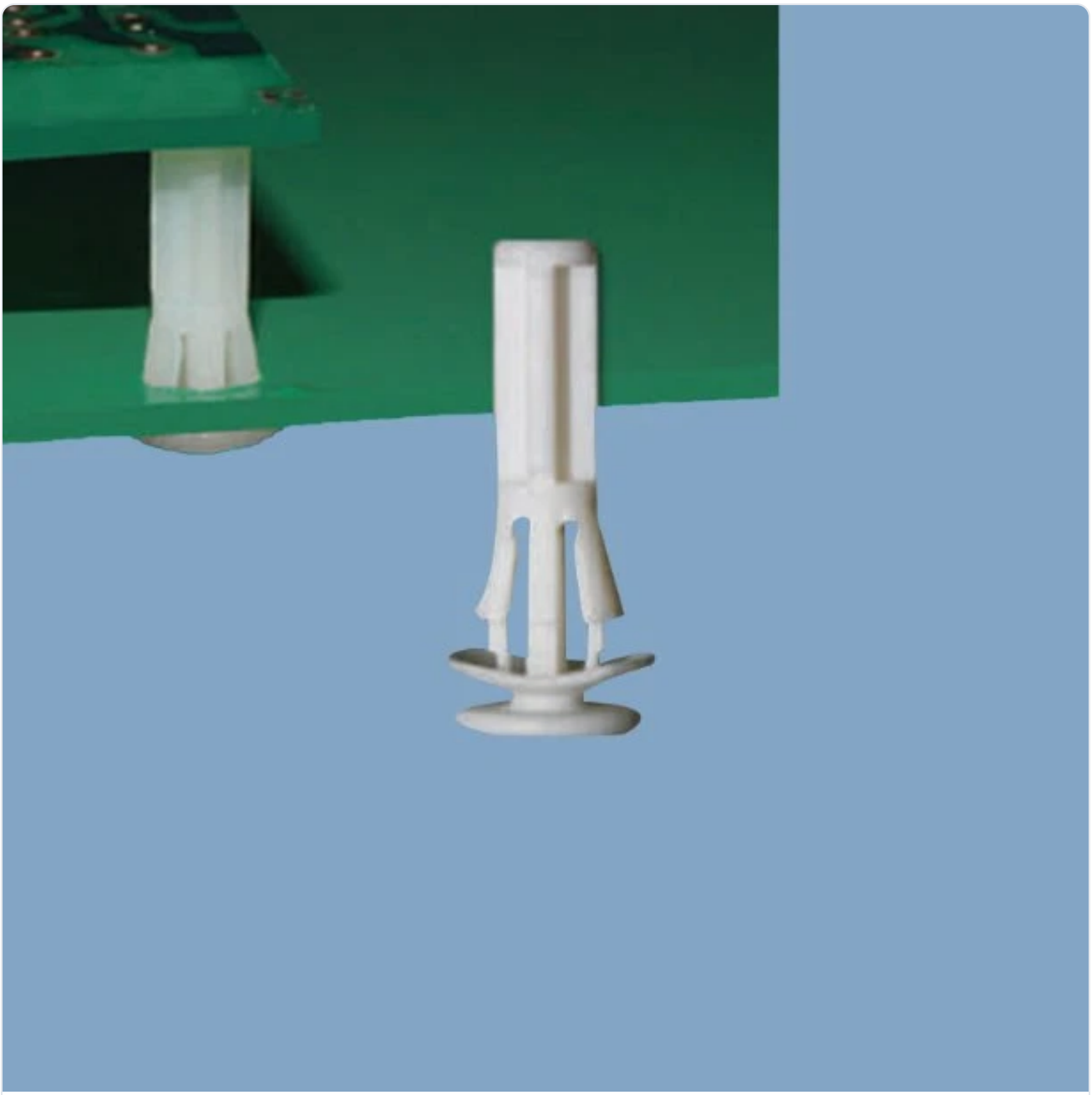
(https://engineeringhardware.com/product/m3-m5-male-to-female-hex-standoff-spacer-stainless-steel-threaded-hex-standoff/)

PCB & Electronic Standoffs

M3-M5 Male to Female Hex Standoff Spacer Stainless Steel Threaded Hex Standoff (https://engineeringhardware.com/product/m3-m5-male-to-female-hex-standoff-spacer-stainless-steel-threaded-hex-standoff/)

Round Head · DIN, GB, ANSI, BSW, JIS, GOST

US$0.024 – 0.06 MOQ 1,000 pieces



(https://engineeringhardware.com/product/good-price-plastic-nylon-spacer-support-plastic-distanziatore-pcb-pcb-spacer-push-in/)

PCB & Electronic Standoffs

Good Price Plastic Nylon Spacer Support Plastic Distanziatore PCB PCB Spacer Push in Ssck (https://engineeringhardware.com/product/good-price-plastic-nylon-spacer-support-plastic-distanziatore-pcb-pcb-spacer-push-in/)

Plastic Fasteners · Plastic

US$0.06 – 0.072 MOQ 1,000 pieces



(https://engineeringhardware.com/product/simple-design-stainless-steel-glass-railing-

standoff/)

PCB & Electronic Standoffs

Simple Design Stainless Steel Glass Railing Standoff

(https://engineeringhardware.com/product/simple-design-stainless-steel-glass-railing-standoff/)

Straight Stairs · Stainless Steel

US$1.20 MOQ 500 pieces



(https://engineeringhardware.com/product/male-to-female-m2-2-5-3-4-l-6mm-black-nylon-electronic-plastic-spacer-pillars/)

PCB & Electronic Standoffs

Male to Female M2/2.5/3/4*L + 6mm Black Nylon Electronic Plastic Spacer Pillars Standoffs Hexagon Hexagon Standoffs
(https://engineeringhardware.com/product/male-to-female-m2-2-5-3-4-l-6mm-black-nylon-electronic-plastic-spacer-pillars/)

Customized,14mm · 3mm,8mm

US$0.012 – 0.048 MOQ 1,000 pieces



(https://engineeringhardware.com/product/assembly-coupling-fitting-hexagon-coupling-nuthex-coupling-nuts-long-hex-nuts/)

PCB & Electronic Standoffs

Assembly Coupling Fitting Hexagon Coupling Nuthex Coupling Nuts Long Hex Nuts Extension Nut Hex Long Nut DIN6334 Square Nut Hexagonal Nut Standoffs (https://engineeringhardware.com/product/assembly-coupling-fitting-hexagon-coupling-nuthex-coupling-nuts-long-hex-nuts/)

Hexagon Head · DIN

US$0.024 MOQ 10 pieces

View all PCB & Electronic Standoffs → (https://engineeringhardware.com/fastener-products/spacers-standoffs-binding-hardware/pcb-electronic-standoffs/)

Full product catalog (https://engineeringhardware.com/products/)

How to Specify PCB Edge-Locking Supports for Your Application

Size: Match the size to the mating part — see the dimension table below for each option.

Material: Choose the material and finish for the service environment — plated steel for general use, stainless for corrosion resistance.

Environment: For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.

Standard: This product is supplied to Trade series (edge-locking board supports). Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Where PCB Edge-Locking Supports Are Not the Right Choice

Match the fastener to the load, environment and whether the joint must be reopened; the wrong class or style is the usual cause of joint failure.

Custom manufacturing · Made to drawing

Need a PCB edge-locking supports outside the standard range?

Dimensions, material, finish and form are specified from the drawing — a standoff & spacer outside the standard range is a variation on existing tooling rather than a new design. Made by tapping or turning.

Minimum order from 2,000 pieces; samples within 7 days of drawing approval.

Custom standoff & spacer manufacturing (https://engineeringhardware.com/custom/standoffs-spacers/)

Send a drawing (https://engineeringhardware.com/custom/standoffs-spacers/#rfq)

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Dimensioned line drawing of edge slot with locking barb PCB Edge-Locking Supports to Trade series (edge-locking board supports). Side view and top view, drawn to the dimensions in the table below and redrawn for any size selected.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (Trade series (edge-locking board supports))

Retention	Board hole required	Critical fit	Material
edge slot with locking barb	no	board thickness	nylon 6/6
edge slot, snap into panel	no	board thickness and panel hole	nylon 6/6
edge slot, adhesive base	no	board thickness	flame-retarda

Video: What Are PCB Edge-Locking Supports Used For? in use



(https://www.youtube.com/watch?v=XAUa31zd1lg)

► Watch video: https://www.youtube.com/watch?v=XAUa31zd1lg(https://www.youtube.com/watch?v=XAUa31zd1lg)

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

How do I choose the right size of PCB Edge-Locking Supports?

Match the size to the mating part using the dimension table on this page.

What material should PCB Edge-Locking Supports be for outdoor use?

For damp, coastal or chemical environments specify A4 (316) stainless or a suitably coated steel. For indoor or dry use, A2 (304) stainless or zinc-plated steel is normally adequate.

Are PCB Edge-Locking Supports made to a recognized standard?

Yes — they are manufactured to Trade series (edge-locking board supports), so dimensions are interchangeable between suppliers when you quote the standard on your order.

What are PCB Edge-Locking Supports used for?

Setting a fixed distance on a screw that passes straight through it, with no thread of its own. They are supplied to Trade series (edge-locking board supports).

Can I get a quote for PCB Edge-Locking Supports in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: PCB Edge-Locking Supports — specifications & sizes (https://engineeringhardware.com/fastener/pcb-edge-locking-supports/)

PCB Edge-Locking Supports Specification Guides

- **A4 stainless PCB Edge-Locking Supports (https://engineeringhardware.com/guide/material/a4-stainless-steel-pcb-edge-locking-supports/)**

Related Fastener Applications

- **Adhesive-Mount Threaded Studs applications (https://engineeringhardware.com/applications/adhesive-mount-threaded-studs/)**
- **Fully-Threaded Standoff Caps applications (https://engineeringhardware.com/applications/fully-threaded-standoff-caps/)**
- **Hex Standoffs, Female-Female applications (https://engineeringhardware.com/applications/hex-standoffs-female-female/)**
- **Hex Standoffs, Male-Female applications (https://engineeringhardware.com/applications/hex-standoffs-male-female/)**
- **Low-Profile Captive Pins applications (https://engineeringhardware.com/applications/low-profile-captive-pins/)**
- **Peel-Away Laminated Shims applications (https://engineeringhardware.com/applications/peel-away-laminated-shims/)**