



part of the Trifast plc Group

# PLASTIC & RUBBER HARDWARE Handbook



Click the **tabs** on the right hand side to navigate to each section you want to look at

[www.trfastenings.com](http://www.trfastenings.com)

Edition 2

Overview

Circuit Board  
Hardware

Cable  
Management

Rivets

Nuts, Screws  
& Washers

Bumpers

Masking Caps  
& Plugs

Key



What do they do?



Range/Type



Components



Industries

PRODUCT UPDATE

Click the **home button** to return to this page



# Overview

## Product range

Click on each product to view the full range on the TR Global Website

### Circuit Board Hardware



### Cable Management



### Rivets



### Nuts, Screws & Washers



### Bumpers



### Masking Caps & Plugs



## Related products



Fasteners for Plastic



Machine Screws



Spacers & Pillars



Cable Glands

### Nylon Material Specifications

As standard most of our plastic parts are available in nylon: Nylon 6/6 V2 / TMS 001, Nylon 6/6 V0 / TMS 019. [Click the link above for more information.](#)

UL Flame Rating: UL94 classifications V0, V1, V2 and HB describe the flame retardancy levels for a given resin. V0 rated resins typically have the highest flame resistance followed by V1, V2 and HB. We can manufacture most products in different materials and colour if required.



Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

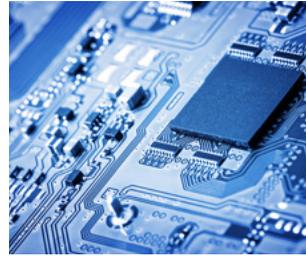
2



# Overview

## Relevant industries

Telecommunications, automotive, audio & visual, electronics, medical, lighting, general industrial, controls & automation, data & IT equipment, heating & ventilation & domestic appliances.



## Where will you find them?

Phones, laptops, tablets, irons, toasters, TV's, videos, Sky boxes, computers, screens, car dashboards, showers, gaming machines, speakers, shop tills, lights, hand tools, pressure washers, vacuum cleaners, hand dryers, hair dryers, cooker hoods, lawn mowers, and many more. Almost anything that has a plug on it.

[Download the latest Plastic Hardware flyer](#)

**DID YOU KNOW?** There is a Plastics Hardware flyer available on the TR website, click the link above to download.

Overview

Circuit Board  
Hardware

Cable  
Management

Rivets

Nuts, Screws  
& Washers

Bumpers

Masking  
Caps & Plugs

Key

?  
What do they do?

Range/Type

Components

Industries

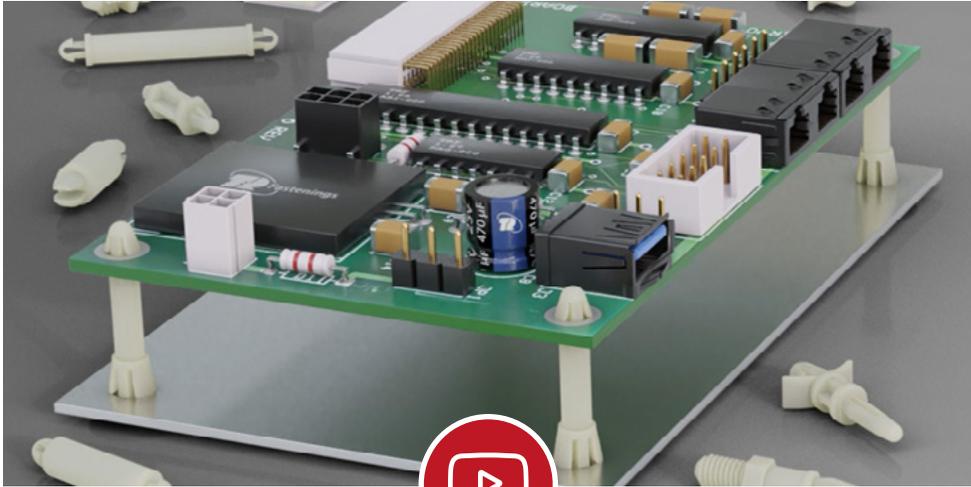
3



# Circuit Board Hardware

## What do they do?

TR's range of Circuit Board Supports provide a quick, low cost method of mounting PCB's a specific distance from a surface.



Click here for more info

There are a number of areas to consider when specifying support posts:

1. Hole size/thickness of PCB
2. Hole size/thickness of mating sheet
3. Height of support post
4. Support post material
5. Top & bottom mounting methods

<https://www.youtube.com>



**DID YOU KNOW?** There is an informative overview video available for our Circuit Board Hardware, this is also available on our YouTube Channel.

Overview

Circuit Board  
Hardware

Cable  
Management

Rivets

Nuts, Screws  
& Washers

Bumpers

Masking Caps  
& Plugs

Key

?  
What do  
they do?

Range/Type

Components

Industries

4



# Circuit Board Hardware

## Mounting methods

There are many mounting methods available. Some posts have the same mounting method for both the top and bottom, whereas some posts have different mounting methods for each end.



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Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key

?  
What do they do?

Range/Type

Components

Industries

5



# Circuit Board Hardware

Types - page 1

Next page 

<b>Hexagon Circuit Board Supports</b> 	<b>Hexagon Male Circuit Board Supports</b> 	<b>Mini Circuit Board Supports</b> 	<b>Male Mini Circuit Board Supports</b> 
<b>Round Male Circuit Board Supports</b> 	<b>Round Threaded Spacers (Cross)</b> 	<b>Round Support Posts (Cross)</b> 	<b>Round Mini Supports Dual Lock</b> 
<b>Self Retaining Support Posts</b> 	<b>Mini Circuit Board Posts</b> 	<b>Mini Dual Locking Support Posts</b> 	<b>Mini Dual Locking Support Posts (Metric)</b> 

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Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

6



# Circuit Board Hardware

## Types - page 2

Previous page 

<b>Round Dual Locking Support Posts</b> 	<b>Round Dual Locking Support Posts Tear Drop</b> 	<b>Round Push Support Posts Tear Drop</b> 	<b>Round Locking Support Post Tear Drop</b> 
<b>Round Non-Threaded Support Posts (Cross)</b> 	<b>Round Non-Threaded Support Posts (Arrow Head)</b> 	<b>Locking Support Post (Cross)</b> 	<b>Mini Push Support Posts</b> 
<b>Rivet Locking Support Posts (Cross)</b> 	<b>Dual Locking Support Posts (Cross)</b> 	<b>Reverse Locking Circuit Board Supports</b> 	<b>Mini Circuit Board Supports on Base</b> 

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Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

7



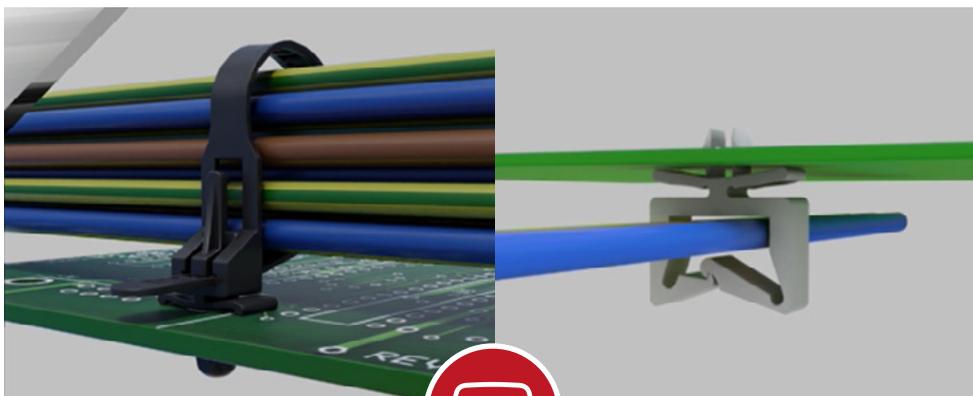
# Cable Management

## What do they do?

Cable Management refers to management of electrical or optical cable in a cabinet or an installation. The term is used for products, workmanship or planning.

Cables can easily become tangled, making them difficult to work with, sometimes resulting in devices accidentally becoming unplugged as one attempts to move a cable.

Cable Management both supports and contains cables during installation and makes subsequent maintenance or changes to the cable system easier.



[Click here for installation videos](#)

<https://www.youtube.com>

### DID YOU KNOW?

There are installation videos available for each Cable Management product on our website and our YouTube Channel.



Key



What do they do?



Range/Type



Components



Industries

8

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



# Cable Management

## Cable Management variations



### Cable Ties

A Cable Tie is a type of fastener for holding items together, primarily electrical cables or wires. Because of their low cost and ease of use, cable ties are abundant, finding use in a wide range of other applications.



### Tie Holders

Cable Tie Mounts act as a fixing element for a Cable Tie to any surface. The mounts can be attached to a surface by three main methods, either fixing with a screw, self-adhesive or push in.



### Twist Locks

Cable Tidy Twists provide an effective way to gather several cables.

These Cable Twists are easy to lock and unlock, so can be reused many times over.



### Wire Saddles

Wire Saddles are used to secure cables or wires to PCBs or other sheet materials.

Cables slide into Wire Saddle and are kept in place without the need of a locking mechanism.



### Clips

A Cable Clip is a device that manages wires and cables and secures them to a fixed point on a surface. P Clips are a single piece band for the permanent or semi-permanent fixing of cables, hoses and pipes.

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers

Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

9



# Cable Management

Range - page 1

Next page 

<b>Standard Cable Tie</b> 	<b>Releasable Cable Tie</b> 	<b>Push Mount Cable Tie</b> 	<b>Screw Mount Cable Tie</b> 
<b>Releasable Arrowhead Cable Tie</b> 	<b>Tie Holder Push Mount</b> 	<b>Tie Holder Arrowhead</b> 	<b>Tie Holder Through Hole</b> 
<b>Tie Holder Blind Hole</b> 	<b>Tie Holder Flat</b> 	<b>Standard Twist Lock</b> 	<b>Side Entry Curly Lock</b> 

Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

10

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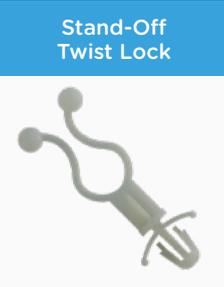
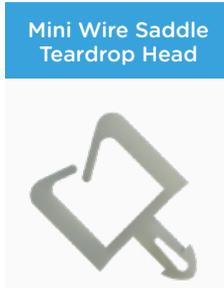
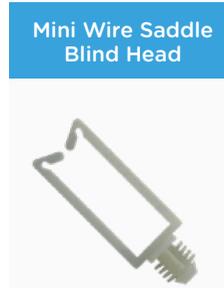
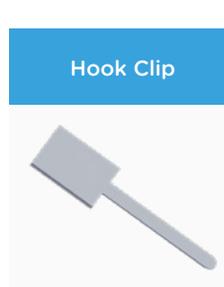
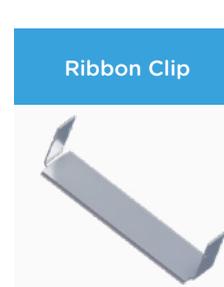
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# Cable Management

Range - page 2

Previous page 

<p>Stand-Off Twist Lock</p> 	<p>Micro Wire Saddle Arrowhead</p> 	<p>Narrow Wire Saddle</p> 	<p>Locking Wire Saddle</p> 
<p>Locking Wire Saddle Locking Top</p> 	<p>Mini Wire Saddle Teardrop Head</p> 	<p>Mini Wire Saddle Blind Head</p> 	<p>Hinged Edge Wire Saddle Type 1</p> 
<p>Micro Wire Saddle on Adhesive Base</p> 	<p>Stand-Off Harness Clip</p> 	<p>P Clip</p> 	<p>Releasable Adjustable Clip with Adhesive Base</p> 
<p>Open Arm Clip</p> 	<p>Buckle Clip</p> 	<p>Hook Clip</p> 	<p>Ribbon Clip</p> 

Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

11



# Rivets

## What do they do?

Plastic Rivets are used in most things - from computers to panel fasteners in rockets. In most cases - not all - the Rivet you use should have the same mechanical properties as the materials the Rivets are intended to join. This means, for example, that plastic Snap Rivet fasteners can be used to join soft materials, such as other plastics, urethane and rubber.



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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

12



# Rivets

## Rivet variations - page 1

Next page 



### Snap Rivet

Snap Rivets are easy to install. Push the head in and the grommet expands for a tight fit. Removable by simply pulling the head. Typical applications for Snap Rivets include lighting, motor vehicles, domestic appliances, audio equipment & furniture.



### Shockproof Snap Rivet

This range of Snap Rivets are installed by pushing down the head of the pin, without the need for special tooling. The head and body positively lock together to provide a secure fit which resists loosening through shock and vibration. Applications include automotive interiors, lighting, pumps, domestic appliances, heating and ventilation.



### Drive Rivet

A robust vibration-resistant fastening system that secures the application in place with a push-to-close action requiring only finger pressure. Typical applications include audio equipment, furniture, telecom equipment, motor vehicles, electrical equipment & domestic appliances.



### Push Lock Rivet

These rivets are quickly installed by simply inserting into a pre-drilled hole and pushing the pin in place to fasten. The locking mechanism prevents the pin from disengaging during assembly. Typical applications for Push Lock Rivets include motor vehicles, domestic appliances, HVAC, audio equipment & furniture.



### Screw Rivet

Designed to provide rapid assembly and simple removal, Screw Rivets are ideal for applications where maintenance or servicing is required by removal of the fixed panel. The pin is pushed in place to set then removed using a standard screwdriver. Typical applications include motor vehicles, domestic appliances, audio equipment & furniture.



### Blind Rivet

Non-corrosive, non-conducting plastic rivets, for medium-duty fastening of various materials, including soft rubbers, urethanes, padded fabrics and plastics. Provide a non-marking, enlarged bearing surface drawing panels together securely, without washers, whilst still allowing for thermal expansion. Typical applications include motor vehicles, electronics & domestic appliances.



### Clinch Rivet

Non-corrosive, non-conducting plastic rivets, for medium-duty fastening of various materials, including soft rubbers, urethanes, padded fabrics and plastics. Rivet is installed using standard Pop-Rivet application tooling. Typical applications include motor vehicles, electronics & domestic appliances.

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

13



# Rivets

## Rivet variations - page 2

Previous / next page  

	<p><b>Rivet Ratchet Locking</b></p> <p>These rivets are used in pairs and pressed together. No tooling is needed as they can be pressed together using finger-tip pressure. The fastener gives a neat appearance on both sides of the panel making them ideal for Point-of-Sale displays or securing swatches of card, paper or material.</p>
	<p><b>Heat Sink Spring Mount Rivet</b></p> <p>Designed to hold down heat sinks on printed circuit boards. The spring applies a continuous pressure on the heat sink improving conductivity. The rivets are installed by hand without the need for special tooling.</p>
	<p><b>Push Screw</b></p> <p>Push Screws combine the simple push-fit action of a Barbed Rivet with the versatility of a threaded fastener. They are designed to push into a threaded hole and then be removed with a standard screwdriver. Applications include automotive, electronics, electrical, control cabinets, point of sale, access panels.</p>
	<p><b>Pawl Lock Rivet</b></p> <p>Mini Push-In Rivets also known as Mini Pawl Locks are a type of Christmas Tree Rivet, which are used in a variety of fastening applications. Designed to push into place and only require access to the top side of the application.</p>
	<p><b>Barbed Rivet</b></p> <p>This group of Push-In Rivets are also known as Pine Tree, Fir Tree or Christmas Tree rivets. They are designed to push into place without the need for special tooling. There are various head styles within the range offering a neat fastening solution. Applications include automotive, domestic appliances, furniture and electrical/electronic equipment.</p>
	<p><b>Barbed Double Head Rivet</b></p> <p>The double head design on this rivet is designed to clip into a 'Dog House' type housing typically seen in automotive interior trim applications. This then provides a discreet fixing where the head of the fastener is concealed in the panel.</p>
	<p><b>Door Trim Clip</b></p> <p>Similar to the Double Head Rivet, this rivet is also designed to clip into a 'Dog House' type housing typically seen in automotive interior trim applications. The integral spring mechanism in the head allows for a tight rattle resistant fit thus reducing movement and noise. The foam sealing washer under the head seals against the ingress of water and dirt.</p>

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

14



# Rivets

## Rivet variations - page 3

Previous page



	<p><b>Snap Lock Pin</b> Commonly used to fix connector's and terminal blocks to printed circuit boards. Easily installed by hand.</p>
	<p><b>Drive Fastener</b> These Drive Fasteners are a multi-purpose, front loaded fastener. They have a hollow body which increases their flexibility for ease of insertion and removal. Can be used as a decorative hole plug.</p>
	<p><b>Mounting Button</b> These Rivets are an easy and economical solution to mating objects together. The mounting arrowhead locks it securely in place. They can be removed from the underside of the board.</p>
	<p><b>Removable Rivet Panel Fastener</b> Designed to be a simple push-to-set and 1/4-turn to remove, these Panel Fasteners are ideal for use on inspection and access panels where frequent access is required. Different plunger styles are available. Typical applications include electronics, control cabinets &amp; enclosures.</p>
	<p><b>Snap Latch Panel Fastener</b> Designed to be a simple push-to-set and pull to remove, these Panel Fasteners are ideal for use on inspection and access panels where frequent access is required. Different plunger styles are available. Typical applications include electronics, control cabinets &amp; enclosures.</p>

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

15

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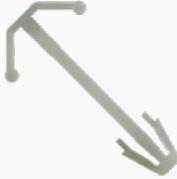
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# Rivets

Range - page 1

Next page 

<b>TRCR Clinch Rivet</b> 	<b>Blind Rivet Domed Head Folding Leg</b> 	<b>TRDF Drive Fastener</b> 	<b>TRMB Mounting Button</b> 
<b>TRMMB Mounting Button</b> 	<b>TRPL Pawl Lock Rivet</b> 	<b>TRSLP Snap Lock Pin</b> 	<b>Heat Sink Spring Mount Rivet</b> 
<b>Spring Mount Rivet</b> 	<b>Push Screw Barbed Countersunk Phillips</b> 	<b>Push Screw Barbed Pan Phillips</b> 	<b>Push Screw Barbed Pan Pozi Drive®</b> 

Overview

Circuit Board  
Hardware

Cable  
Management

Rivets

Nuts, Screws  
& Washers

Bumpers

Masking Caps  
& Plugs

Key



What do  
they do?



Range/Type



Components



Industries

16

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# Rivets

Range - page 2

Previous / next page  

<b>Push Screw Barbed Countersunk Shoulder Phillips</b> 	<b>PFP1 Barbed Rivet</b> 	<b>BHF Barbed Rivet</b> 	<b>RBF Barbed Rivet</b> 
<b>BFP Barbed Rivet</b> 	<b>BPF1 Barbed Rivet</b> 	<b>PTF Barbed Rivet</b> 	<b>Barbed Flat Head Rivet</b> 
<b>Barbed Double Head Rivet</b> 	<b>Barbed Button Head Rivet</b> 	<b>Barbed Pan Head Rivet</b> 	<b>Door Trim Clip</b> 

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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

17



# Rivets

Range - page 3

Previous / next page  

<b>TRPPR Drive Rivet</b> 	<b>Drive Rivet Expansion</b> 	<b>Fan Mount Rivet</b> 	<b>Removable Drive Rivet</b> 
<b>Push Rivet Shouldered</b> 	<b>Push Rivet Miniature</b> 	<b>Push Rivet Countersunk Head</b> 	<b>Push Rivet Domed Head</b> 
<b>Push Rivet Domed Head Type 2</b> 	<b>Push Rivet Flat Head</b> 	<b>TRRH Snap Rivet</b> 	<b>TRRT Snap Rivet</b> 

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Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key

  
What do they do?

  
Range/Type

  
Components

  
Industries

18



# Rivets

Range - page 4

Previous / next page  

TRSR Snap Rivet



Heat Resistant Snap Rivet



Snap Rivet Shockproof



Snap Rivet Shockproof Heat Resistant



Rivet Cover



PLR-5810 Push Lock Rivet



PLR-12A1 Push Lock Rivet



APT-25075 Push Lock Rivet



PLR-6611 Push Lock Rivet



PLR-6808 Push Lock Rivet



PLR-6609 Push Lock Rivet



PLR-6810 Push Lock Rivet



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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

19



# Rivets

Range - page 5

Previous / next page  

PLR-6807  
Push Lock Rivet



PLR-7712  
Push Lock Rivet



PLR-7712-SP  
Push Lock Rivet



PLR-7809  
Push Lock Rivet



PLR-7810  
Push Lock Rivet



PLR-7911  
Push Lock Rivet



PLR-8098  
Push Lock Rivet



PLR-8813  
Push Lock Rivet



PLR-8928  
Push Lock Rivet



PLR-95150  
Push Lock Rivet



PLR-9813  
Push Lock Rivet



PLR-9917  
Push Lock Rivet



Overview



Circuit Board  
Hardware



Cable  
Management



Rivets



Nuts, Screws  
& Washers



Bumpers



Masking Caps  
& Plugs



Key



What do they do?



Range/Type



Components



Industries

20

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# Rivets

Range - page 6

Previous / next page  

PLR-100140  
Push Lock Rivet



SCR-3545 Screw  
Rivet Flat Head



SCR-3545-115  
Screw Rivet



SCR-4185  
Screw Rivet



USR-1131  
Screw Rivet  
Raised Head



USR-1132  
Screw Rivet  
Raised Head



USR-1133  
Screw Rivet  
Cross Recess  
Raised Head



USR-1133  
Screw Rivet  
Torx Recess  
Raised Head



BSR-6016  
Screw Rivet  
Raised Head



USR-64125  
Screw Rivet  
Raised Head



BSR-6325  
Screw Rivet  
Raised Head



BSR-7720  
Screw Rivet  
Raised Head



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Overview



Circuit Board  
Hardware



Cable  
Management



Rivets



Nuts, Screws  
& Washers



Bumpers



Masking Caps  
& Plugs



Key



What do they do?



Range/Type



Components



Industries

21



# Rivets

Range - page 7

Previous page 

SCR-5103 Screw Rivet Flat Head



BSR-1126 Screw Rivet Raised Head



USR-67150 Screw Rivet Flat Head



SL - Snap Latch



SL-L - Snap Latch



SL-M - Snap Latch



Mini Barbed Rivet



Rivet Ratchet Locking



Panel Slotted Head Ratchet Rivet



Panel Turn-In Panel Fastener



RR1 - Snap Latch



Panel RR1-1 - Snap Latch



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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

22



# Nuts, Screws & Washers

## What do they do?

Nylon is a popular plastic for some manufacturers. As a fastener, this material is especially suited for electronics. It offers high-tensile strength and higher wear resistance than aluminium. Nylon fasteners also have excellent resistance to some chemicals and hydrocarbons, while providing a high amount of insulation. It's also half the weight of aluminium.

Manufacturers like nylon fasteners because they don't burn - they melt - which makes them desirable when producing fire-resistant products.



### Nylon Material Specifications

As standard most of our plastic parts are available in nylon:  
Nylon 6/6 V2 / TMS 001, Nylon 6/6 V0 / TMS 019.  
Click the link above for more information.

UL Flame Rating: UL94 classifications V0, V1, V2 and HB describe the flame retardancy levels for a given resin. V0 rated resins typically have the highest flame resistance followed by V1, V2 and HB. We can manufacture most products in different materials and colour if required.



Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

23



# Nuts, Screws & Washers

## Nuts, Screws & Washers



### Nylon Machine Screws

A Nylon Screw is exactly what it sounds like: it's a screw made of nylon, which makes it a type of plastic screw. However, not all nylon screws are created equal.

Just like there are dozens of metal screw heads, there are many different types of nylon screw heads.



### Nylon Nuts

A Nylon Nut - in very much the same way is a nut made from nylon and is generally used as the female thread that fixes or secures a male nylon thread.

As with all of our nylon products they're light weight and will not rust, so are of high interest to industries that have these concerns or obstacles.



### Nylon Washers

Flat Washers are used in conjunction with Screws, Bolts or Nuts. They offer insulation, spacing and load distribution for assemblies. A wide selection of materials including Polyamide (PA/Nylon), Polycarbonate (PC) and PVDF are offered that support a wide range of applications, including within the electrical and medical industries.



### KWIK Nuts

The KWIK Nut is designed to push fit onto a male threaded stud or fastener with finger-tip pressure, then turned through 180° to tighten. The nut can then be removed by unthreading as per a standard threaded nut. It offers rapid installation and best suited to soft or delicate materials where high compression is not required.



### Expansion Nuts

Expansion Nuts are designed to provide a secure fastening into square, oval or rectangular holes in metalwork. They are used in conjunction with Self Tapping Screws and used to mount brackets, components, trim etc onto metal mounting panels or frames. Oval versions are ideal when allowing for alignment tolerances.

Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

24

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# Nuts, Screws & Washers

Range - page 1

Next page 

<b>Hexagon Full Nut to DIN</b> 	<b>Hexagon Domed Cap Nut</b> 	<b>Knurled Thin Nut</b> 	<b>Knurled High Nut</b> 
<b>Wing Nut</b> 	<b>KWIK Nut</b> 	<b>Expansion Nut Square</b> 	<b>Expansion Nut Round</b> 
<b>Expansion Nut Oval</b> 	<b>Screw Grommet Square</b> 	<b>Pan Head Machine Screw</b> PoziDrive, Cross Recess H Drive, Slotted Drive 	<b>Countersunk Head Machine Screw</b> Cross Recess H Drive, Slotted Drive 

[Go to the TR Product Literature page](#)

**DID YOU KNOW?** The latest version of the Plastic Rivets & Screws brochure is available on the TR website, click the link above to download.



Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

25



# Nuts, Screws & Washers

Range - page 2

Previous page 

**Raised  
Countersunk Head  
Machine Screw**  
Cross Recess H Drive,  
Slotted Drive



**Cheese Head  
Machine Screw**  
Slotted Drive



**Knurled Thumb  
Head Machine  
Screw with  
Shoulder**



**Hexagon Head  
Set Screw**



**Binder Screws**



**Form A Flat  
Washer**



**Form G Flat  
Washer**



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Overview



Circuit Board  
Hardware



Cable  
Management



Rivets



Nuts, Screws  
& Washers



Bumpers



Masking Caps  
& Plugs



Key



What do they do?



Range/Type



Components



Industries

26



# Bumpers

## What do they do?

They are the small rubber pads usually seen on the rear-side of frames to protect the frame from scratching the wall. Bumpers can be used for a range of applications besides picture frames including cutting/chopping boards, cabinet doors, sliding doors, computers, appliances, office equipment and much more.



Bumpers are designed to dampen the harsh sounds of slamming cabinet doors and drawers and protect sliding hardware from continued abuse. They also quiet and protect doorknobs and walls, while eliminating unsightly damage. When used under electronics, computer equipment and circuit boards, bumpers can eliminate damage from vibrating or sliding.

Available as standard in clear polyurethane, black polyurethane, grey polyurethane, white polyurethane and brown polyurethane.

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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



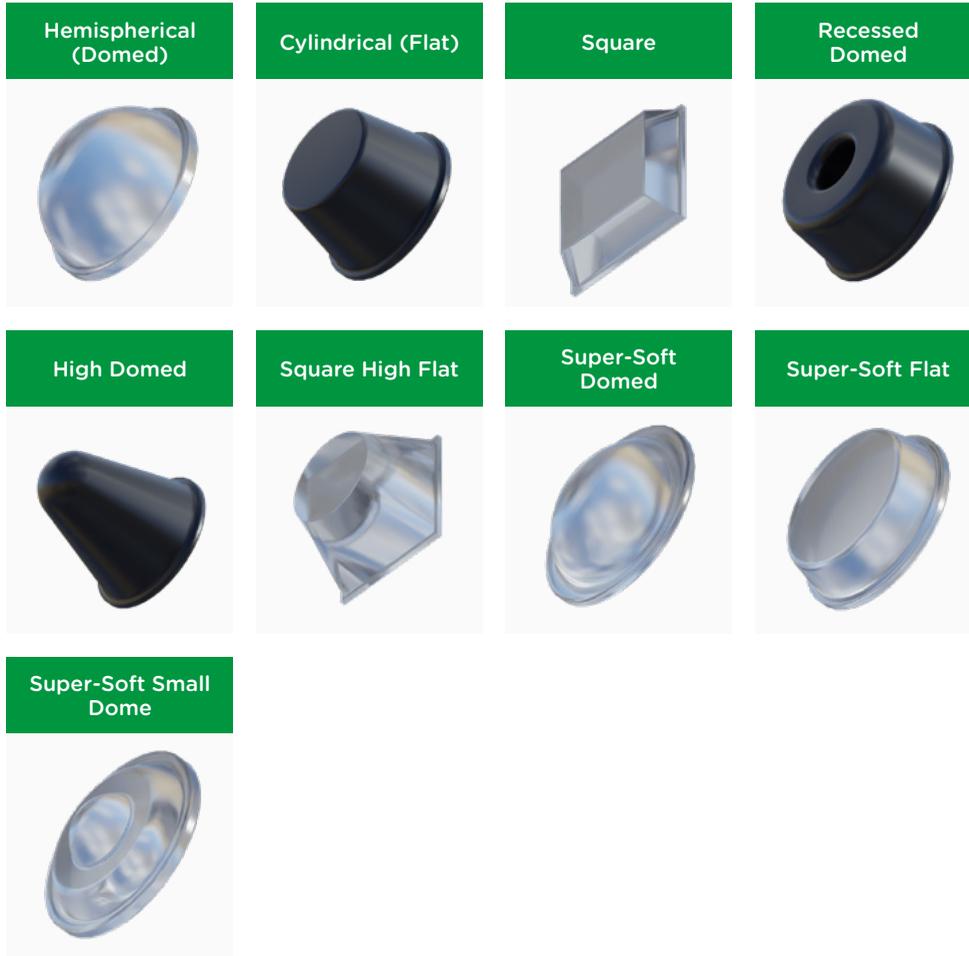
Industries

27



# Bumpers

## Range



Overview

Circuit Board Hardware

Cable Management

Rivets

Nuts, Screws & Washers

Bumpers

Masking Caps & Plugs

Key



What do they do?



Range/Type



Components



Industries

28

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# Masking Caps & Plugs

## What do they do?

Masking Caps are designed to form a cover on a male thread whilst the product that it has been installed into is being painted or coated.

Masking Plugs are designed to plug a female thread whilst the product that it has been installed into is being painted or coated.

These are generally used in the sheet metal industry and are mainly put over or into our Clinch Nuts / Studs and Weld Nuts / Studs in advance of being painted, powder coated, enamelled and baked.

They are used during the first fix manufacturing process in a wide variety of industries, mainly electronics, automotive & general industrial sectors.



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Overview



Circuit Board Hardware



Cable Management



Rivets



Nuts, Screws & Washers



Bumpers



Masking Caps & Plugs



Key



What do they do?



Range/Type



Components



Industries

29



# Masking Caps & Plugs

## Range



### Masking Caps

- Temperature rating of +315°C. Normal operating temperatures are -50°C to +230°C.
- Used as a cap over threaded studs
- Flexible enough to conform to irregular shapes
- Reusable and will not melt or harden
- Will withstand multiple passes through most coating processes
- Stretch to provide an airtight seal



### Masking Plugs

- Silicone Plugs / Stoppers are ideal for plugging holes where the diameter can vary slightly
- One size can sometimes fit several hole sizes meaning only one part needs to be stocked for several hole sizes
- Standard material for the plugs is natural silicone but parts can be made in alternative materials like neoprene
- The maximum temperature that silicone can withstand for short periods of time is +315°C. Normal operating temperatures are -50°C to +230°C

[Download the latest Fasteners for Sheet Metal brochure](#)

**DID YOU KNOW?** Masking Caps & Plugs are generally used in the sheet metal industry find them in our Fasteners for Sheet Metal brochure on the TR website.



Overview



Circuit Board  
Hardware



Cable  
Management



Rivets



Nuts, Screws  
& Washers



Bumpers



Masking Caps  
& Plugs



Key



What do they do?



Range/Type



Components



Industries

30

