

A worldwide
company
specializing in
the design and
manufacture of
**value added
assembly
solutions**



Clip Fastening Solutions

LISI Automotive,
innovating since 1777



Our Global Footprint



KEY FIGURES ABOUT LISI AUTOMOTIVE IN 2018

581 M€
sales revenue

22
sites

45 M€
invested

4 000
collaborators



OPTIMIZATION

to ease assembly system

- Simplify your assemblies
- Fastener prepositioning to **save assembly time**
- Reduce effort for operator
- Reduce fastener diversity



INDUSTRIAL PERFORMANCE

- The reliability of our products is a priority:
- laboratories and internal research centers
 - mastery of manufacturing processes (**vertical integration** and technological expertise)
 - continuous development of new technologies



INNOVATION

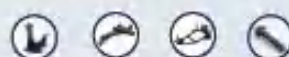
as a factor of growth

To support changes in the automotive industry, a collaborative innovation approach is in place, in addition to the traditional R & D programs of the company. Lots of innovations are developed at the request of a customer, but other innovations can also be initiated by the employees of LISI Automotive.

LIGHT WEIGHTING

our solutions

- Metal plastic substitution and integration
- High performance metals to reduce weight
- Assembly redesign to **eliminate components**
- Fastener solutions for **multi-material and light weight vehicle design**



Your Global Engineering Solutions Provider.



LISI Automotive and Termax LLC partnered in 2017 to create worldwide fastening solutions. Globally employing over 4000 individuals in Manufacturing, Engineering & Sales, in 25 facilities across 10 countries.

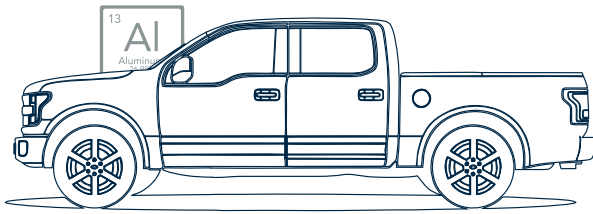
Our team will work with you through all phases of your project; from initiation of ideas with engineering and design, to tooling and manufacturing completed through requirement planning, shipping and logistics. We truly are your one-stop solution for all fastener needs.

Providing our world class team with the tools necessary, we encourage you to browse our catalogue to view only a small percentage of the fastener types and abilities that we can offer to you. Please contact your Account Manager today – we are eager to provide you with the best engineering solutions possible.

Engineered Solutions

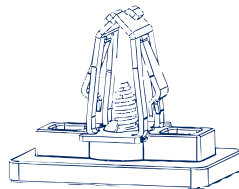
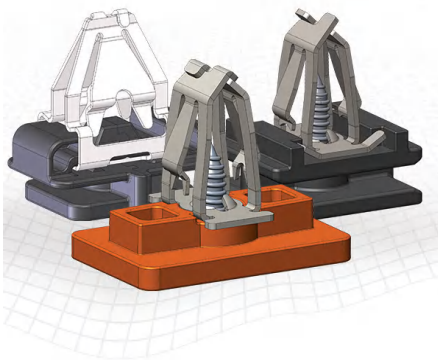
Magnet Plate Attachment

As more and more vehicles have started to use aluminum in the body, Termax has had to develop an alternate way for magnets to be attached. In order to allow for the use of a magnet on aluminum Termax has created a snap in steel plate to be used as a magnetic surface.



Screwless High Retention Clips

Traditionally high retention clips in the vehicle will have a visible screw or screw cap cover. To many, the visible screw and screw cap covers are unsightly. In response to this Termax developed a high retention clip that provides the high extraction without unwanted visible dissatisfiers. This was done by creating high retention clip that would be snapped into a doghouse like a plastic birds beak, and serviced out of the same feature.



Lock Rod Bezel

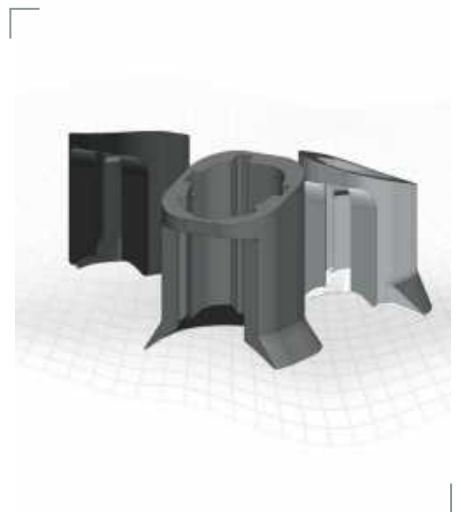
This is a plastic sleeve that snaps into the underside of the beltline of the door onto the actual "Class A" lock rod bezel. This sleeve Termax created addressed several issues the "Class A" bezel had on its own:

Improved Retention

The "Class A" bezel by itself is plastic snaps or fins attaching to a plastic substrate. At times the lock rod would function up and down and pop the "Class A" bezel out of the door. The "Class B" bezel Termax created prevents this from occurring.

Improved Lead In

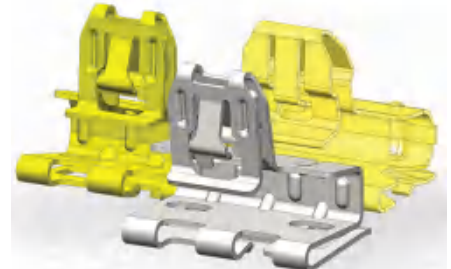
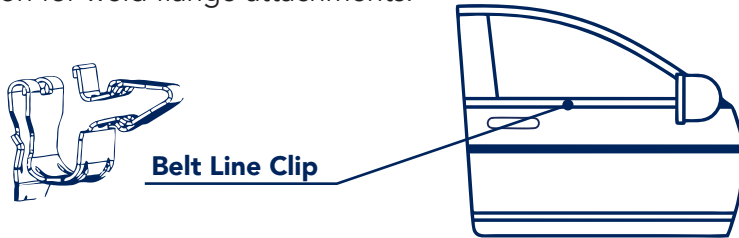
The "Class A" bezel by itself has almost no lead in for the OEM operator to fish the lock rod through the door trim during installation. The "Class B" bezel Termax created provides ample lead in for the operators.



Custom Innovations!

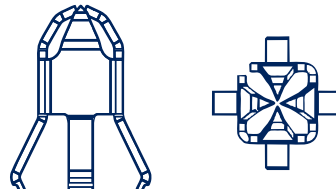
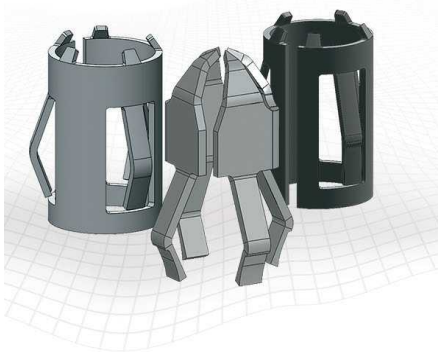
Belt Line Clips

Weld flanges are typically located at the edges of trim parts where key fit and finish measurements are found. The weld flanges are not typically friendly to attachments, but beltline clips have become the exception. By switching the slot from the s/m body to the trim part Termax has created an extremely robust clip solution for weld flange attachments.



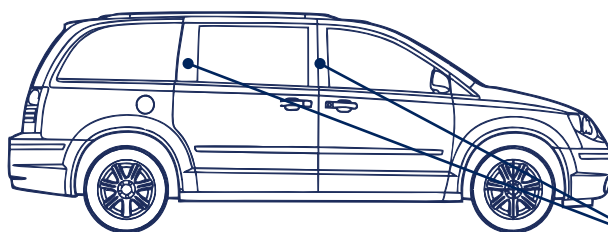
Locator Cap Clips

It is general design practice to have a locator on all trim pieces. Unfortunately some customers have found that they do not have the package space to include a locator post and a clip tower. In order to solve this problem Termax developed a clip that combines the locator post with the clip!



Metal Doghouse Assembly

In applications, such as an exterior B/C Pillar, there is not enough package space to mold a doghouse into the part. In order to eliminate the need for a molded doghouse, Termax developed a low profile clip assembly that includes a metal doghouse and a plastic clip. This avoids the need for a molded doghouse and instead uses two very small molded ribs.



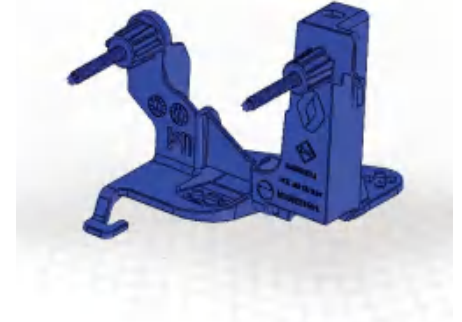
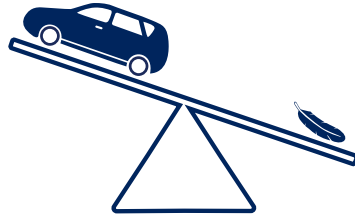
Metal Doghouse Assembly



Engineered Solutions

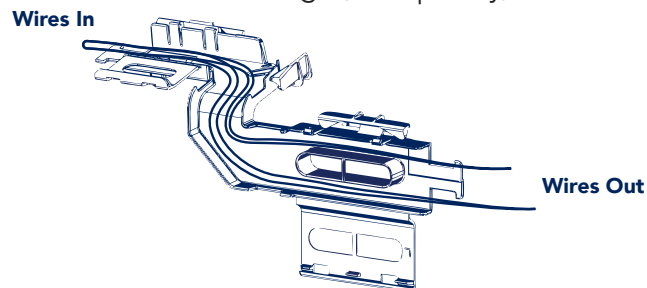
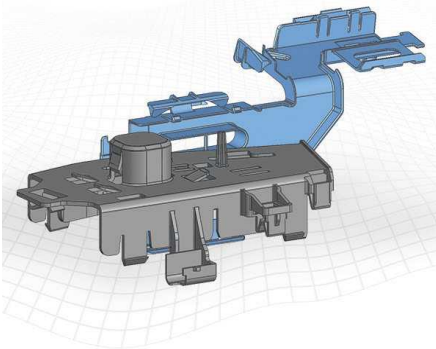
Lightweight Solutions

LISI's expertise in both metal and plastic technologies is being used at the forefront of light weighting technologies. By taking a current metal component and redesigning it with a structural plastic construction (using a specific blend of glass fiber and plastic), LISI is able to reduce component weights significantly. In some designs it is possible to eliminate complexity by redesigning the fastening strategy.



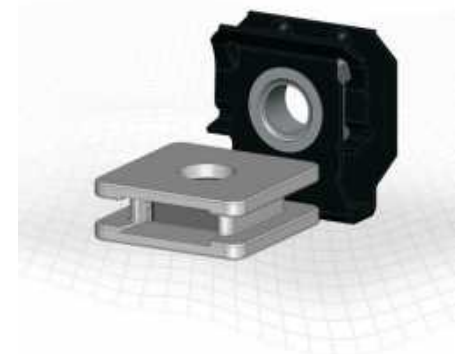
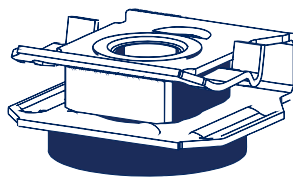
Wire Harness Brackets

Specific wire channel brackets are developed to reduce complexity in the current wire attachment scheme. LISI will combine multiple clips, brackets, and attachments all into one molded bracket. This reduces weight, complexity, and assembly time.



Spoiler Insert Nuts

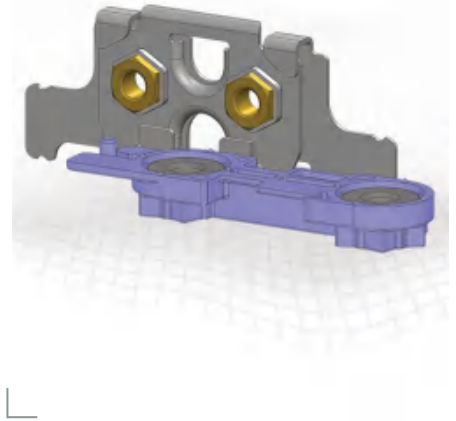
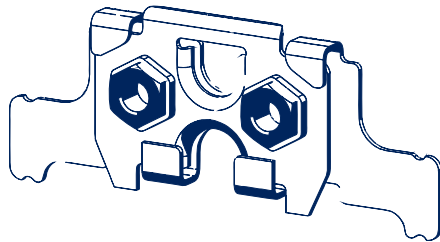
One challenge with designing a spoiler is the ability to account for the thermal expansion this part experiences. LISI has developed a variety of sliding insert nuts. These nuts are inserted into a doghouse feature to allow them to compensate for thermal expansion and at the same time ensure a secure threaded attachment to the vehicle. These insert nuts also serve as a compression limiter to eliminate damage to the spoiler. Insert nuts are available in a variety of options including plastic, metal, sealing, and non-sealing.



Custom Innovations!

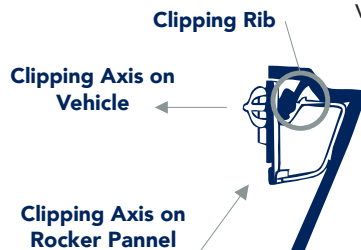
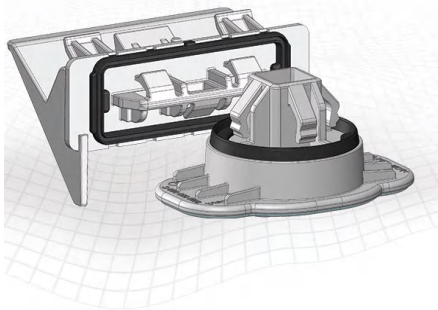
Door Striker Attachment

Door strikers are typically attached to a welded or crimped nut. In order to save assembly time and money, LISI developed a clip in nut for the striker bracket. These door striker attachments are an assembly of a plastic bracket and the nut. An even better advantage of these attachments is they allow for 2 directions of float for gap adjustments.



Rocker Panel Clips

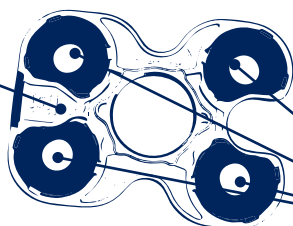
Unique rocker panel clips are needed in applications where a molded doghouse is undesirable or is not packageable. Some molded doghouses can lead to visible shrink marks on the rocker panel. LISI has developed these unique clips that attach to a rib on the panel which eliminates the need for a doghouse. Additionally these rocker panel clips are able to obtain a much higher extraction value, reaching between 180 – 225 LBS.



Axle Spacers

Typical axel spacers are completely metal components and are very heavy. In order to promote weight savings in the vehicle LISI developed axel spacers that are a hybrid of plastic and metal. The metal inserts within the plastic carrier can also be swapped out for different thickness, this allows one tool to be used across many platforms which reduces complexity.

Plastic Carrier



Metal Inserts



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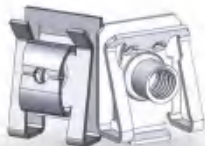
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Revision
01.12.20

U-Based

PART FAMILY

About

Termax's U-Based Fasteners will provide you with a robust engineering solution for all your fastening needs. Clips are available in a variety of "set-up heights", sizes and configurations. Termax U-Based Fasteners offer low insertion and a wide range of controlled extraction forces.

Wide Selection

Clips offered:

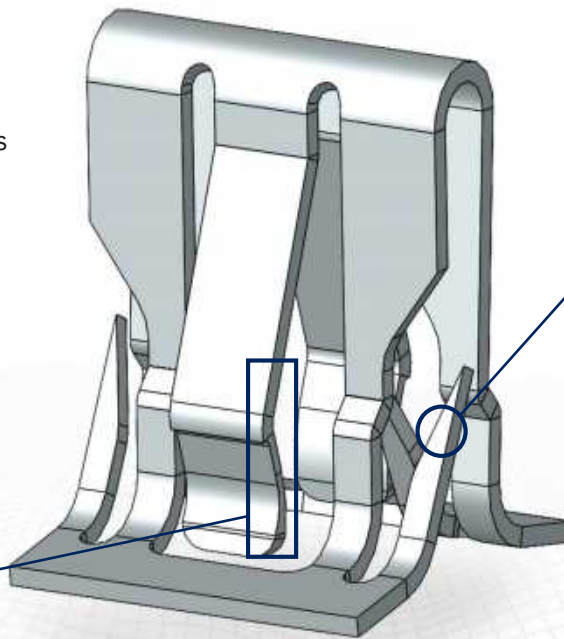
- in different heights and widths
- in different set-up heights
- for attaching to plastics or metals
- for various hole sizes
- in a variety of finishes and colors
- with different controlled extraction forces

Aggressive Barbs

Termax U-Based Fasteners are designed with aggressive barbs. These barbs have excellent retention to a wide variety of materials.

"Coining"

Termax's unique "coining" process is applied to the wings of the clip providing lower insertion efforts and additional control efforts.

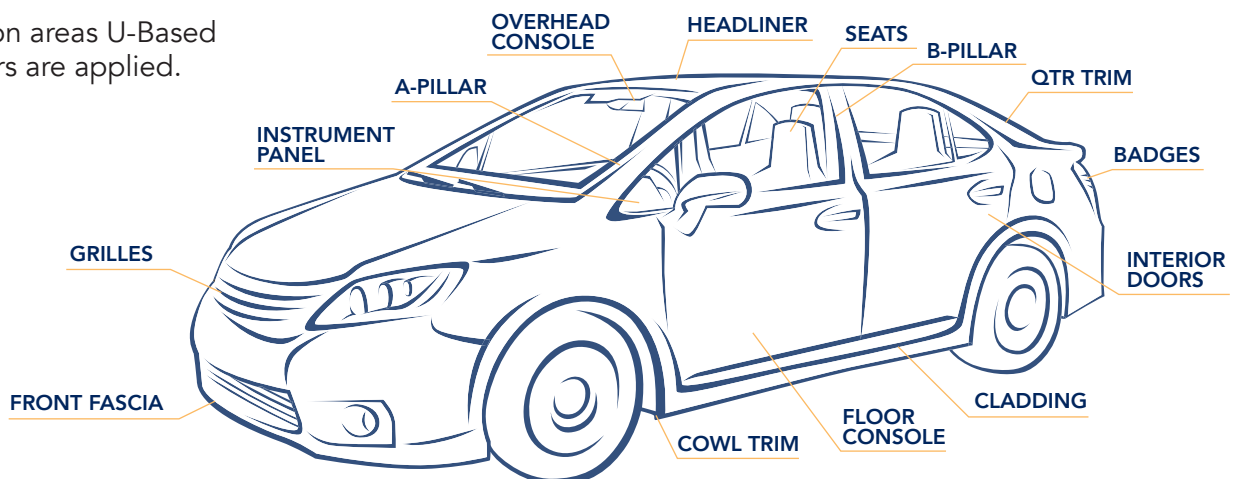


Interchangeability

Termax's ability to control extraction efforts (via coining), gives you options without changing your tools. Instead, Termax can offer you essentially the same clip with a modified coin that increases or decreases the extraction efforts.

Application

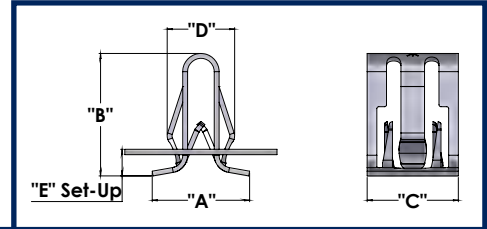
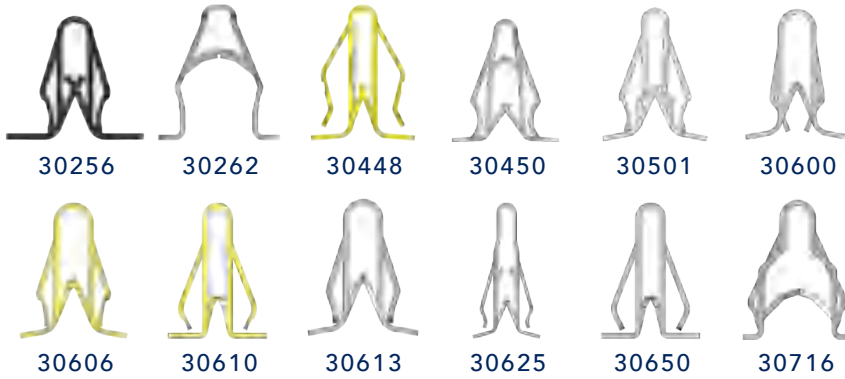
Common areas U-Based fasteners are applied.



U-Based

PART LIST & DIMS

U-Based | 0 - 1.5 Panel Thickness



0 - 1.5 Panel Thickness

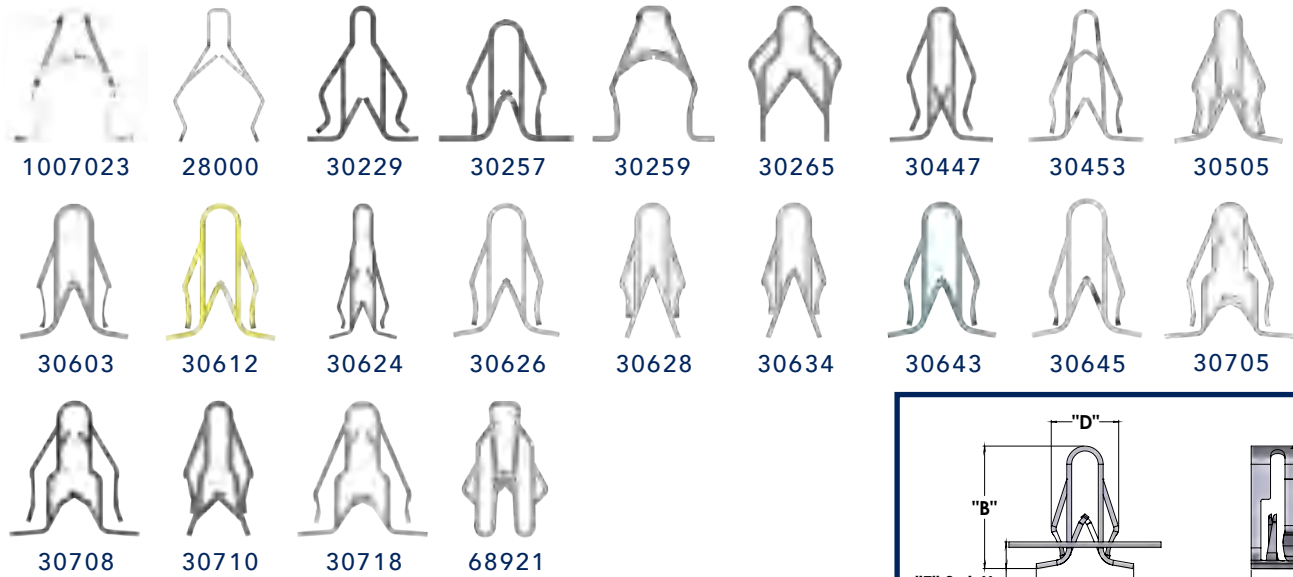
Part Number	Slot Width	Panel Material	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
30256	6.00	Steel	0.71 - 1.50	18.00	25.00	12.50	11.30	12.00	7.40	3.15
30262	6.00	Steel	0.70 - 1.50	17.00	40.00	10.80	12.10	7.50	7.90	8.10
30448	7.00	Plastic/Steel	0.70 - 1.50	18.00	30.00	12.00	15.80	12.00	9.80	5.90
30450	6.00	Plastic/Steel	0.70 - 1.50	13.00	20.00	14.00	16.60	12.00	9.20	3.50
30501	6.00	Steel	0.70 - 1.50	10.00	30.00	12.80	16.40	12.00	8.90	4.10
30600	6.00	Steel	0.70 - 1.50	10.00	25.00	12.80	16.10	12.00	8.90	3.80
30606	6.00	Steel	0.70 - 1.50	10.00	25.00	12.80	16.10	12.00	8.90	3.80
30610	6.00	Steel	0.60 - 0.80	18.00	30.00	11.60	15.80	12.00	9.20	1.40
30613	6.00	Steel	0.70 - 1.50	10.00	10.00	13.10	16.10	12.00	8.90	3.50
30625	6.00	Steel	0.70 - 1.50	10.00	20.00	12.60	25.30	12.00	10.00	4.00
30650	6.00	Plastic/Steel	0.70 - 1.20	10.00	10.00	11.60	15.80	12.00	9.20	2.40
30716	8.25	Plastic/Steel	0.70 - 1.50	10.00	25.00	11.00	14.00	10.00	10.00	2.30

*Pictures are not to scale

U-Based

PART LIST & DIMS

U-Based | 1.5 And Greater Panel Thickness



Greater Than 1.5

Part Number	Slot Width	Panel Material	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
1007023	6.00	Plastic	2.00 - 3.00	17.00	30.00	10.80	12.10	7.40	7.90	8.10
28000	8.40	Plastic	2.35 - 2.65	6.60	11.00	9.20	15.20	7.00	10.30	11.90
30229	6.00	Steel	0.70 - 2.50	25.00	20.00	13.00	16.00	12.00	10.40	3.50
30257	6.00	Plastic	1.50 - 3.00	18.00	25.00	12.50	11.30	12.00	7.50	3.60
30259	6.00	Plastic	2.00 - 3.00	12.00	30.00	10.80	12.10	7.50	7.90	8.10
30265	6.50	Plastic	1.50 - 3.50	12.00	20.00	5.90	11.70	10.00	8.00	5.50
30447	6.00	Plastic	0.70 - 3.50	10.00	30.00	12.00	15.80	12.00	8.40	6.10
30453	6.00	Plastic/Steel	0.70 - 2.50	13.00	20.00	14.00	16.60	12.00	9.20	3.50
30505	6.00	Plastic	2.00 - 3.50	10.00	25.00	13.10	16.30	12.00	8.90	5.30
30603	6.00	Plastic	1.50 - 3.00	10.00	20.00	12.80	16.10	12.00	8.90	4.50
30624	6.00	Plastic	2.50 - 2.80	10.00	15.00	12.60	25.30	12.00	9.70	4.80
30628	6.00	Steel	0.70 - 3.00	10.00	25.00	7.50	18.20	12.00	8.90	5.70
30643	6.00	Plastic	2.50 - 3.00	10.00	20.00	12.80	16.10	12.00	8.90	5.30
30645	6.00	Steel	0.70 - 2.30	10.00	20.00	12.80	16.10	12.00	8.90	3.90
30612	6.00	Plastic/Steel	1.50 - 3.00	10.00	20.00	12.80	16.10	12.00	8.90	4.90
30626	6.00	Plastic/Steel	1.50 - 3.00	10.00	7.00	12.80	16.10	12.00	8.90	4.50
30634	6.00	Plastic/Steel	0.70 - 3.00	10.00	25.00	7.50	18.20	12.00	8.70	6.30
30705	9.00	Steel	0.70 - 3.50	10.00	25.00	19.00	18.90	15.90	12.00	4.90
30708	9.00	Plastic/Steel	0.70 - 3.50	10.00	25.00	19.00	18.90	15.90	12.00	7.10
30710	6.00	Plastic/Steel	1.50 - 3.50	15.00	25.00	7.90	16.50	11.00	8.60	6.20
30718	11.00	Steel	0.70 - 3.50	10.00	N/A	19.00	18.90	15.90	13.80	4.10
68921	6.00	Plastic	2.50 - 3.00	10.00	24.00		12.80	9.00	8.40	8.90

*Pictures are not to scale

U-Based

PART LIST & DIMS

U-Based | One-Sided



26004



26008



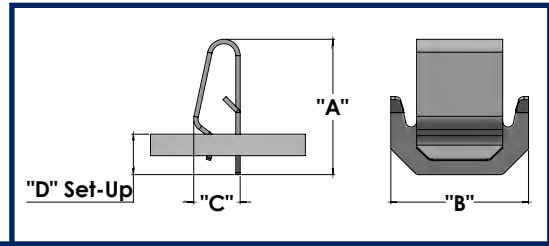
68910



68915



68920



One-Sided

Part Number	Slot Width	Panel Material	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D" Set-Up
26004						10.80	15.00	9.50	
26008						9.00	15.00	9.50	
68910		Plastic		15.00	25.00	16.00	16.00	7.70	4.70
68915		Plastic	2.50	10.00	20.00	22.70	20.00	11.10	4.30
68920	5.50	Plastic	2.00	10.00	20.00	12.20	10.00	5.50	6.20

Omega



26000



26006



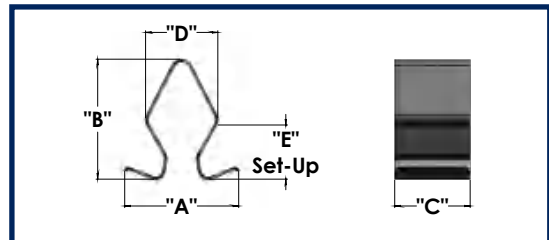
26012



26015



26019



Omega

Part Number	Slot Width	"A"	"B"	"C"	"D"	"E" Set-Up
26000	4.80 x 15.00	10.00	14.50	9.00	8.50	6.60
26006	8.00 x 18.00	20.00	13.60	6.50	11.50	2.60
26012	4.80 x 15.00	10.00	22.30	9.00	8.50	6.50
26015	4.80 x 15.00	10.00	16.50	9.00	8.50	6.60
26019		10.00	11.50	9.00	6.10	

*Pictures are not to scale

U-Based

PART LIST & DIMS

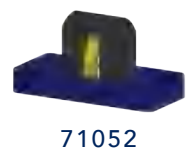
U-Based | Sealing | Water



Sealing Water

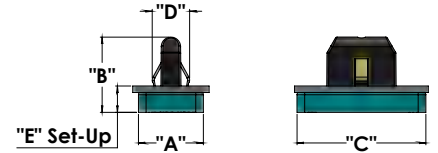
Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71028	6.00	0.70 - 1.70	10.00	20.00	17.00	19.70	33.70	9.80	5.20
71034	6.00	0.70 - 1.70	15.00	25.00	17.70	19.70	38.90	9.80	5.20
71051	6.00	0.70 - 1.70	15.00	30.00	17.70	19.70	38.90	8.20	5.20
71053	6.00	0.70 - 1.50	10.00	20.00	13.00	20.80	43.80	8.70	4.30
71055	6.00	0.70 - 1.70	15.00	25.00	17.00	19.70	33.70	9.80	5.20
71059	6.00	1.80 - 2.20	10.00	20.00	17.00	19.70	33.70	9.50	5.20
71085	6.00	0.70 - 1.70	15.00	25.00	17.70	19.70	38.90	9.80	5.20
71089	6.00	0.90 - 2.20	10.00	25.00	14.00	21.50	36.70	8.80	3.70
71090	6.00	0.70 - 1.70	15.00	25.00	17.70	19.70	38.90	7.70	5.20
71091	6.00	0.90 - 2.20	10.00	25.00	14.00	24.00	36.70	8.80	6.30

U-Based | Sealing | Water | Other Slot Sizes



Other Slot Sizes

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71052	7.00	0.70 - 1.70	18.00	45.00	17.70	19.70	38.90	9.80	5.20



*Pictures are not to scale

U-Based

PART LIST & DIMS

U-Based | Sealing | Dyna



Sealing Dyna

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71056	6.00	0.70 - 1.50	15.00	20.00	15.00	16.10	35.00	8.90	2.70
71062	6.00	1.50 - 3.00	10.00	20.00	15.00	16.10	35.00	8.90	2.20
71063	6.00	1.50 - 3.00	10.00	20.00	15.00	16.10	35.00	8.90	2.50
71064	6.00	0.70 - 1.50	10.00	20.00	13.00	16.10	24.00	8.90	2.70
71065	6.00	0.70 - 1.50	18.00	25.00	15.00	12.10	35.00	7.40	2.40
71074	6.00	0.70 - 1.50	10.00	25.00	10.50	19.00	29.40	8.80	3.20
71094	6.00	0.70 - 1.10	14.00	25.00	12.00	19.40	34.00	8.70	6.80
71099	6.00	0.70 - 1.00	15.00	25.00	15.00	16.90	38.00	9.50	3.40
71104	6.00	0.70 - 1.50	14.00	20.00	16.00	16.10	38.00	8.90	2.50
71114	6.00	0.70 - 1.50	15.00	20.00	15.00	16.10	52.00	8.90	2.70
71138	6.00	0.65-1.00	12.00	30.00	10.50	19.10	40.00	8.30	5.00

*Pictures are not to scale

U-Based

PART LIST & DIMS

U-Based | Sealing | Dyna | Other Slot Sizes



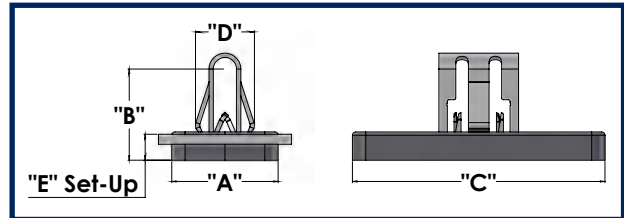
71057



71084



71111



Other Slot Sizes

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71057	9.00	0.70 - 1.50	10.00	25.00	20.00	18.90	42.00	12.00	5.30
71084	9.00	0.70 - 2.00	10.00	25.00	20.00	18.90	42.00	12.50	5.50
71111	11.00	1.40 - 1.60	10.00	N/A	25.00	18.90	40.00	13.80	2.50

High-Retention

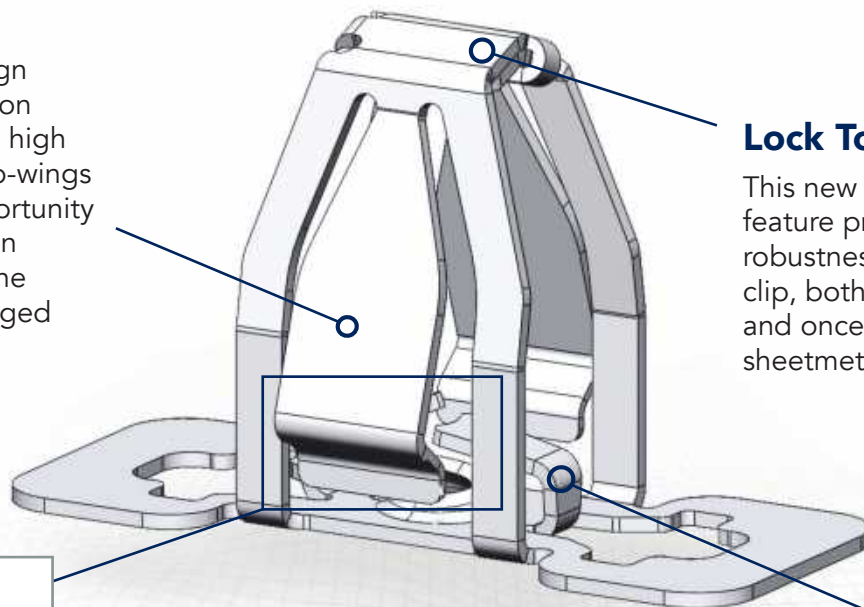
PART FAMILY

About

Termax's High-Retention Clips will provide you with a robust engineering solution for your high retention needs. Clips are available in a variety of "set-up heights" and "foot-prints".

Two Wings

The two-winged design provides lower insertion efforts while retaining high extraction values. Two-wings also reduces the opportunity for a partial installation that is inherent with the conventional four-winged design.



Lock Top

This new and innovative feature provides the ultimate robustness to the body of the clip, both during installation and once installed into sheetmetal.

Prevailing Torque Tabs

Eliminates the concern of the screw backing out over time.

"Coining"

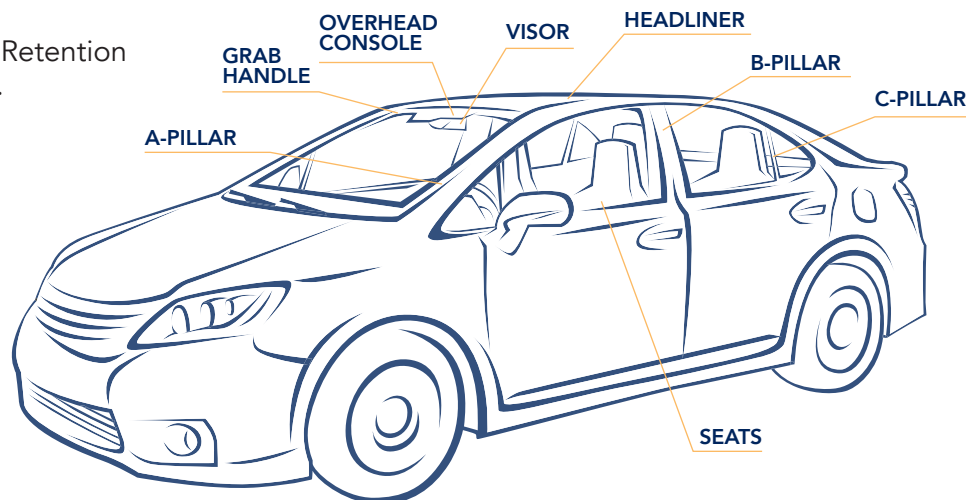
Termax's unique "coining" process is applied to the wings of the clip providing lower insertion efforts and additional control efforts.

Serviceability

Removal of the fastener from the slot can be accomplished by "pinching" the opposing tabs together.

Application

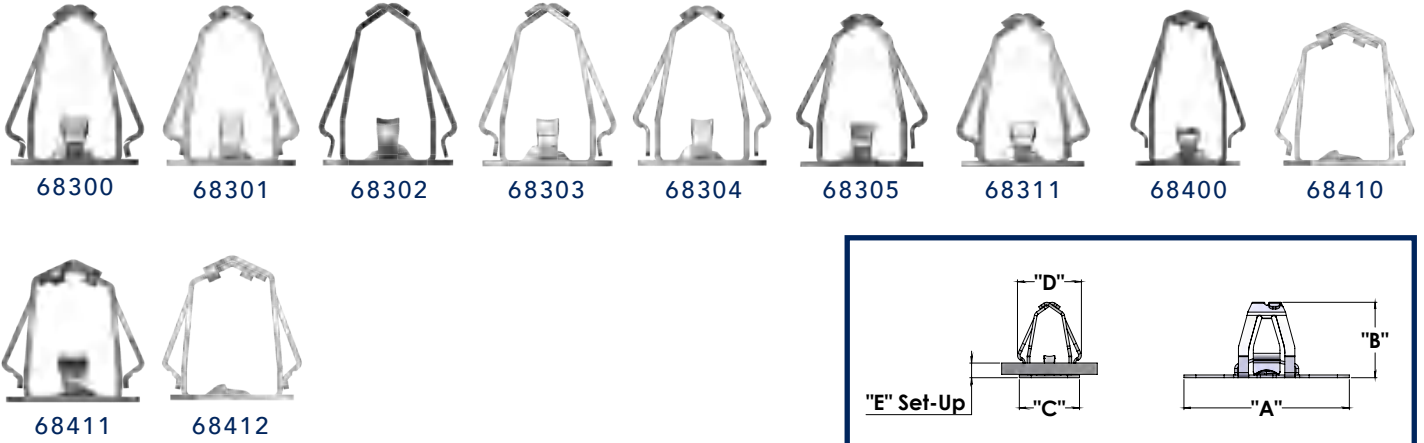
Common areas High-Retention fasteners are applied.



High-Retention

PART LIST & DIMS

High-Retention | Long Base



Long Base

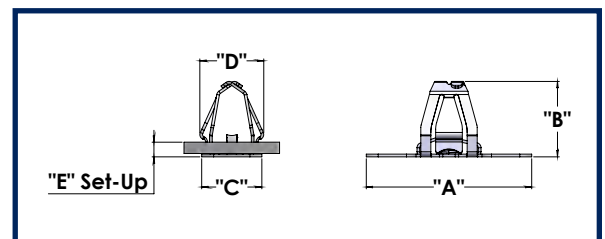
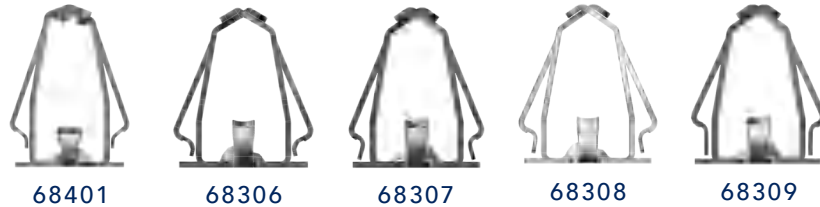
Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up	Description
68300	12.20	0.70 - 1.50	18.00	300.00	44.00	20.10	16.00	17.40	2.40	Long Base
68301	12.20	0.80 - 1.50	18.00	300.00	44.00	20.10	16.00	17.40	2.50	Long Base
68302	12.20	0.70 - 2.00	10.00	300.00	44.00	20.10	16.00	17.00	2.80	Long Base
68303	12.20	0.80 - 2.30	12.00	300.00	44.00	20.10	16.00	17.00	3.10	Long Base
68304	12.20	0.70 - 3.00	18.00	300.00	44.00	20.10	16.00	17.00	3.90	Long Base
68305	12.20	1.30 - 1.60	18.00	300.00	44.00	20.10	16.00	17.20	4.50	Long Base
68311	12.20	0.70 - 1.90	10.00	300.00	44.00	20.10	16.00	17.20	2.60	Long Base
68400	12.20	1.50 - 3.50	10.00	250.00	39.00	23.80	16.00	17.60	4.40	Long Base
68410	12.20	0.80 - 1.80	12.00	250.00	36.00	17.00	14.50	16.60	2.60	Long Base
68411	12.20	0.80 - 1.80	15.00	250.00	44.00	17.20	16.00	18.20	2.70	Long Base
68412	12.20	1.20 - 1.80	12.00	250.00	36.00	17.00	14.50	16.40	2.90	Long Base

*Pictures are not to scale

High-Retention

PART LIST & DIMS

High-Retention | Short Base



Short Base

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up	Description
68401	12.20	1.50 - 3.50	10.00	250.00	24.00	23.80	16.00	17.60	4.40	Short Base
68306	12.20	0.70 - 1.80	10.00	300.00	26.00	20.10	16.00	17.40	2.50	Short Base
68307	12.20	0.70 - 2.00	10.00	300.00	26.00	20.10	16.00	17.00	2.80	Short Base
68308	12.20	1.10 - 2.30	12.00	300.00	26.00	20.10	16.00	17.50	3.10	Short Base
68309	12.20	1.10 - 3.00	18.00	300.00	26.00	20.10	16.00	17.00	3.90	Short Base
68310	12.20	2.30 - 3.40	18.00	300.00	26.00	20.10	16.00	17.20	4.60	Short Base

*Pictures are not to scale

High-Retention

PART LIST & DIMS

High-Retention | Other Slot Sizes



68123



68128



68133



68141



68402



68404



68408



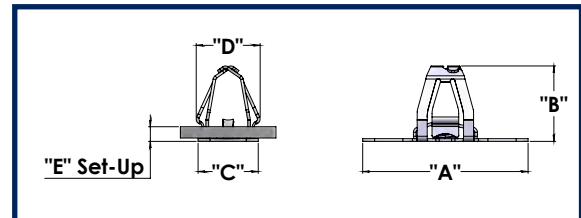
68417



68418



68419



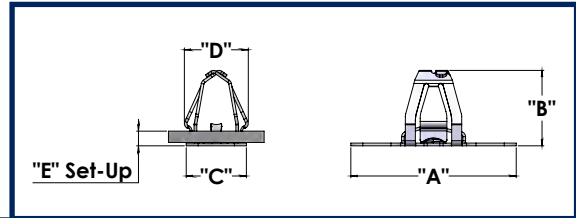
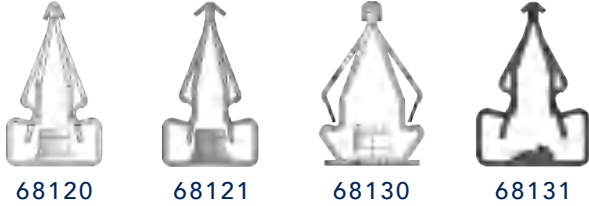
Other Slot Sizes

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up	Description
68123	9.00	0.70 - 2.60	10.00	250.00	16.00	18.10	9.30	12.70	3.50	Short Base
68128	9.00	0.70 - 3.00	18.00	250.00	16.00	18.10	9.30	12.70	4.00	Short Base
68133	9.00	0.70 - 4.00	18.00	200.00	16.00	18.10	9.30	12.00	4.80	Short Base
68141	9.20	0.70 - 1.50	18.00	250.00	16.00	18.10	15.00	12.70	3.70	Short Base
68402	13.00	1.50 - 1.60	12.00	250.00	16.00	17.80	18.10	17.90	3.10	Short Base
68404	13.00	1.25 - 1.35	12.00	250.00	16.00	17.80	18.00	17.90	2.70	Short Base
68408	12.00	0.70 - 1.60	14.00	250.00	22.00	17.00	14.50	16.10	2.50	Short Base
68417	12.80	1.00 - 1.20	12.00	250.00	43.00	20.00	17.00	17.50	1.90	Long Base
68418	12.80	0.70 - 0.90	12.00	200.00	43.00	20.00	17.00	17.50	1.60	Long Base
68419	12.80	1.00 - 1.20	12.00	250.00	23.90	20.00	17.00	17.50	1.90	Short Base

High-Retention

PART LIST & DIMS

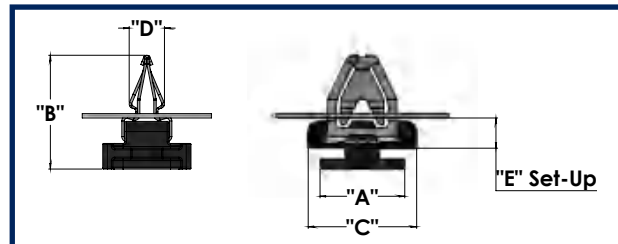
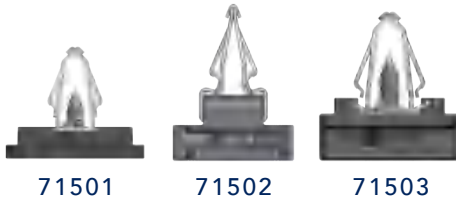
High-Retention | Box Base



Box Base

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up	Description
68120	6.00	0.70 - 1.30	10.00	300.00	20.30	25.50	14.80	10.40	7.60	Box Base
68121	6.00	1.40 - 1.80	10.00	300.00	20.30	25.50	14.80	9.60	7.60	Box Base
68131	6.00	1.30 - 1.40	17.00	300.00	20.30	21.40	14.80	9.00	7.60	Box Base
68130	10.00	1.70 - 1.80	10.00	300.00	20.50	22.80	14.60	14.00	5.70	Box Base

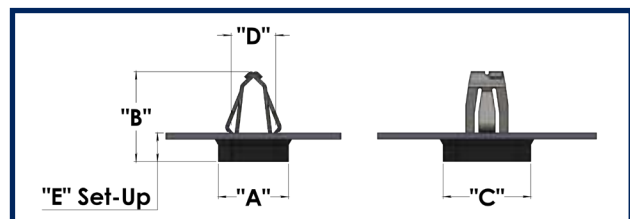
High-Retention | Screwless



Screwless

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71501	9.00	0.70 - 1.40	18.00	200.00	30.00	24.10	20.00	12.00	4.80
71502	6.00	0.70 - 1.30	15.00	200.00	20.00	33.60	32.00	10.40	9.50
71503	9.10	0.70 - 1.50	18.00	250.00	25.00	26.50	19.00	12.70	5.30

High-Retention | Sealing



HR Sealing

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71086	6.00	0.70 - 1.00	10.00	300.00	32.00	27.50	35.00	20.30	9.60
71121	9.10	1.10 - 1.40	18.00	250.00	16.00	20.40	20.00	12.70	5.60

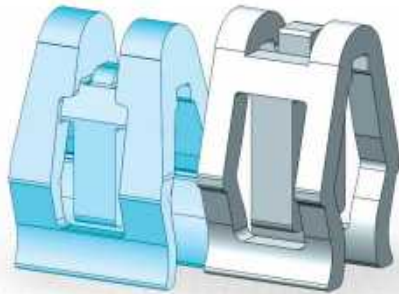
*Pictures are not to scale

Plastic

PART FAMILY

About

Termax's Plastic Fasteners offer reliable, dependable and proven solutions. A wide variety of styles are available; from small Arrowhead clips to large Arrowhead clips, from small compact Birds Beak clips to larger Birds Beak clips. Termax Plastic Fasteners attach to your part in a variety of ways providing a variety of engineering solutions.



Arrowheads Robust

Termax Arrowhead Fasteners are ergonomically friendly, forgiving and very durable.

Attachment Method:
Clip Rib (with window)

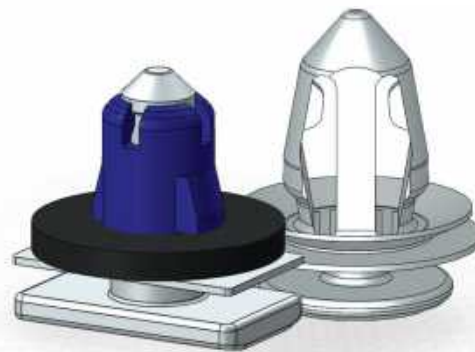
Birds Beak Energy Absorption

Termax offers Birds Beak Fasteners with tips that absorb and distribute more energy prior to breakage.

Conventional

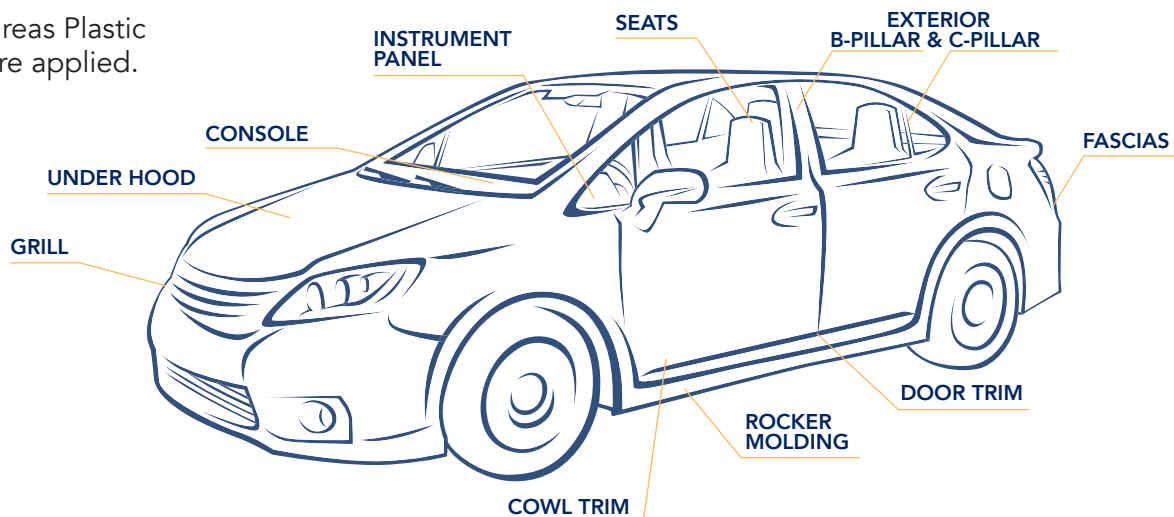
Termax offers Birds Beak Fasteners with conventional tips as well as the "Energy Absorbing" tips.

*Sealing options are available.



Application

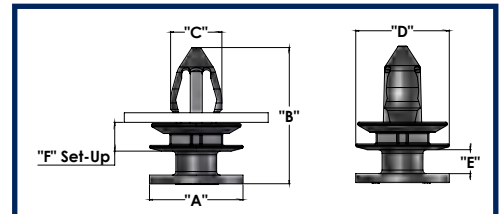
Common areas Plastic fasteners are applied.



Plastic

PART LIST & DIMS

Plastic | Birds Beak | Non-Sealing



Non-Sealing

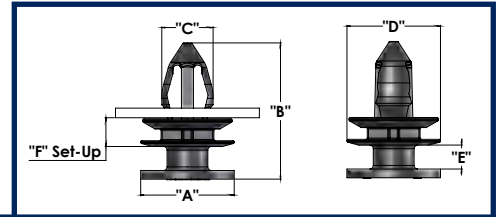
Part Number	Hole Diameter	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E"	"F" Set-Up
50303	9.00	1.60 - 2.00	12.00	40.00	19.50	28.40	10.70	18.60	5.00	6.00
50306	9.00	0.60 - 1.00	12.00	40.00	19.50	27.00	10.60	18.60	2.90	6.70
50315	9.00	1.60 - 2.00	12.00	40.00	19.40	29.10	10.80	18.40	5.00	6.80
50316	8.50	0.70 - 1.30	10.00	20.00	13.00	22.00	9.90	18.00	2.70	3.50
50317	8.50	1.20 - 1.80	10.00	20.00	16.50	23.60	10.00	18.00	3.80	3.30
50320	10.00	1.20	12.00	40.00	15.00	23.10	11.20	19.50	2.60	3.10
50321	9.50	2.30 - 3.80	15.00	30.00	15.00	25.80	11.60	19.50	2.60	3.10
50323	9.00	1.60 - 2.00	12.00	30.00	19.50	28.40	10.80	18.60	5.00	5.80
50324	9.00	0.60 - 1.00	12.00	30.00	19.50	26.20	10.80	18.60	2.90	6.00
50326	9.00	0.60 - 1.00	12.00	30.00	19.50	26.20	10.70	18.60	2.90	5.70
50329	7.00	0.70 - 1.00	10.00	N/A	9.0 x 12.0	17.60	10.00	17.00	1.70	2.10
50339	7.00	0.70 - 1.00	10.00	N/A	9.0 x 12.0	17.60	10.00	17.00	1.70	2.10
50341	7.40	0.70 - 0.90	8.00	50.00	13.00	18.50	9.00	17.00	2.50	
50342	7.40	1.00-2.00	8.00	50.00	15.00	19.10	9.20	17.00	2.75	
50349	6.00	0.70 - 1.00	13.00	50.00	9.50	13.80	7.50	9.50	2.20	1.50
F015	8.80	0.70 - 0.90	12.00	30.00	16.00	21.40	10.70	14.00	3.60	1.80
F413	8.00	0.70 - 1.20	9.00	37.00	13.20	18.00	9.30	17.00		2.10
P30285	8.00	0.70 - 0.90	14.00	72.00	13.20	18.00	9.30	17.00		2.10
PRM02788	8.00	2.60 - 3.50	18.00	27.00	13.20	19.00	7.80	17.00	2.30	1.90
PRM02923	8.00	0.70 - 1.20	13.00	35.00	13.20	19.80	9.30	17.00	2.30	

*Pictures are not to scale

Plastic

PART LIST & DIMS

Plastic | Birds Beak | Non-Sealing



Non-Sealing

Part Number	Hole Diameter	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E"	"F" Set-Up
PRM03226	8.00	0.70 - 1.20	12.00	57.00	13.20	18.10	9.30	17.00		2.10
PRM03290	8.00	0.70 - 1.20	13.00	45.00	13.20	19.80	9.30	17.00	2.30	
PRM03375	8.00	2.60 - 3.50	18.00	26.00	13.20	19.00	9.30	17.00	2.30	
PRM03612	8.20	0.80 - 1.50	13.00	43.00	13.20	18.40	9.30	17.00	2.30	1.70

Plastic | Birds Beak | Sealing

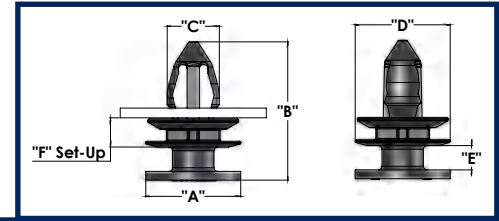


*Pictures are not to scale

Plastic

PART LIST & DIMS

Plastic | Birds Beak | Sealing



Birds Beak Sealing

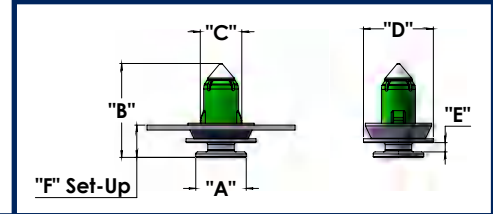
Part Number	Hole Diameter	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E"	"F" Set-Up
71200	9.10	0.60 - 1.00	12.00	40.00	19.50	27.00	10.60	20.00	2.90	7.00
71201	9.00	1.20 - 2.00	12.00	40.00	19.50	28.40	10.70	20.00	5.00	6.00
71202	9.00	0.60 - 1.00	12.00	40.00	19.50	26.20	11.00	20.00	2.90	6.00
71203	9.00	1.60 - 2.00	12.00	40.00	19.40	29.10	10.80	20.00	4.90	7.10
71206	9.00	0.60 - 1.00	12.00	30.00	19.50	26.20	10.80	20.00	2.90	6.00
71209	9.00	1.60 - 2.00	12.00	40.00	19.50	28.40	10.80	20.00	5.00	6.00
71210	9.00	0.60 - 1.00	12.00	30.00	19.50	26.20	10.80	20.00	2.90	6.00
71214	8.20	0.80 - 1.00	11.00	60.00	13.00	18.00	8.80	20.00	4.10	3.10
71216	9.00	0.70 - 1.30	10.00	75.00	12.0 x 20.0	16.30	10.50	19.30	2.75	2.60
71218	7.40	1.00-2.00	8.00	50.00	15.00	19.10	9.20	17.00	2.75	
71219	7.40	0.70 - 0.90	8.00	50.00	13.00	18.50	9.00	17.00	2.50	
71224	7.50 - 8.00	0.70 - 1.10	12.00	60.00	10.00	14.30	9.50	19.25	1.75	2.23
71225	7.50 - 8.00	0.70 - 1.30	12.00	60.00	12.00	15.30	9.50	19.25	2.75	2.55
F182	8.00	0.70 - 1.20	18.00	45.00	13.20	19.80	9.30	13.20	2.30	
F251 E	8.30	0.80		50.00	13.20	15.00	9.30	17.00		2.10
F412 A	8.00	0.70	9.00	37.00	13.20	18.00	9.30	17.00		2.10
PRM02730	7.70	0.90 - 1.20	10.00	22.00	13.20	19.80	8.60	17.00	2.30	2.80
PRM02831	5.20	0.55 - 0.75	6.00	27.00	6.5X14	11.50	6.70		1.30	1.90
PRM03151	8.00	1.30 - 1.80	9.00	37.00	13.20	18.00	9.30	17.00		2.10
PRM03321	8.00	0.70 - 1.20	9.00	37.00	13.20	14.00	9.30	17.00		2.10
PRM03547	8.00	1.20 - 1.50	18.00	43.00	13.20	18.00	7.80	17.00	2.10	
PRM03579	7.70	0.90 - 1.20	18.00	38.00	13.20	19.80	8.60	17.0	2.30	
PRM03582	8.00	0.70 - 1.20	9.00	37.00	13.20	17.30	9.30	17.00	3.40	2.10
PRM03584	8.00	1.30 - 1.80	9.00	37.00	13.20	17.30	9.30	17.00	4.00	2.10
PRM03658	8.00	1.00 - 1.80	13.00	43.00	13.20	14.00	9.30	17.00	2.10	
PRM03672	8.20	1.50 - 2.00	13.00	22.00	13.20	18.80	9.20	17.00	2.70	
PRM03723	8.00	0.73 - 0.90	22.00	60.00	13.20	20.00	9.30	13.20	2.30	
PRM03796	5.20	0.55 - 0.76	6.00	27.00	6.5X15	11.50	6.70		1.30	1.90
PRM03797	5.20	0.55 - 0.77	6.00	27.00	6.5X16	11.50	6.70		1.30	1.90
PRM03868	5.20	0.55 - 0.78	6.00	27.00	6.5X17	11.50	6.70		1.30	1.90
ZUS30287	8.00	0.70 - 0.90	20.00	67.00	13.20	18.00	9.30	17.00	2.10	

*Pictures are not to scale

Plastic

PART LIST & DIMS

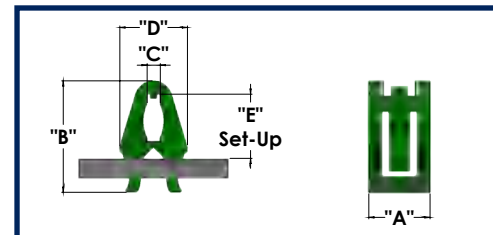
Plastic | Exo-Beak | Sealing



Exo-Beak Sealing

Part Number	Hole Diameter	Panel Thick.	Max. Insert (lbs)	Min Retent (lbs)	"A"	"B"	"C"	"D"	"E"	"F" Set-Up
71217	9.00	0.80 - 1.00	5.50	49.00	12.0 x 20.0	20.80	10.50	20.00	2.50	1.70
71800	9.10	0.70 - 2.00	10.00	40.00	16.00	26.90	10.50	22.00	3.00	
71802	9.10	2.50 - 3.00	10.00	30.00	16.00	26.90	10.50	22.00	3.00	
71804	9.10	0.70 - 1.00	10.00	45.00	13.00	24.50	10.50	17.00	2.80	7.00
71805	9.10	1.10 - 1.40	10.00	45.00	13.00	23.60	10.50	17.00	2.40	7.00
71806	9.10	1.50 - 1.80	10.00	45.00	13.00	23.60	10.50	17.00	2.40	7.00

Plastic | Arrowheads



Arrowheads

Part Number	Slot Width (+/- .25)	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
58001	6.0	1.50 - 3.00	8.00	20.00	11.00	16.40	1.70	8.60	7.2
58002	12.5	3.00 - 10.00	18.00	35.00	13.90	26.10	1.90	15.70	6.5
58003	6.0	1.50 - 3.00	8.00	12.00	11.00	16.40	1.70	8.10	7.3
58005	4.8	1.50 - 5.50	12.00	14.00	11.00	15.70	1.70	7.10	8.8
58006	8.5	1.50 - 5.00	10.00	15.00	11.00	18.50	2.20	11.90	12.0
1006014	6.0	1.00 - 4.00	6.00	18.00	7.80	14.20	1.50	8.60	8.1
1006025	6.0	1.00 - 4.00	6.00	18.00	7.80	14.20	1.50	8.60	8.1
58012	6.0	1.00 - 4.00	10.00	35.00	7.80	14.20	1.70	8.90	8.1

Magnet

PART FAMILY

About

Termax's Magnets are designed to be robust and a flexible solution when traditional fastening methods are not possible. Termax Magnets are available in various holding strengths, shapes and sizes. Magnet fasteners provide "zero" insertion efforts while providing a reliable and consistent extraction force. Magnets are the perfect solution when hidden fasteners are required.

Customized Carriers

Our experienced team can help you create the carrier that best fits your application. This includes but is not limited to Glued Carriers, Sonic Welded Carriers, Infrared Welded Carriers, Snapped In Doghouses, etc.

Variety of Holding Forces

Termax Magnet assemblies are offered in a wide range of holding forces.

Application

Common areas Magnet fasteners are applied.

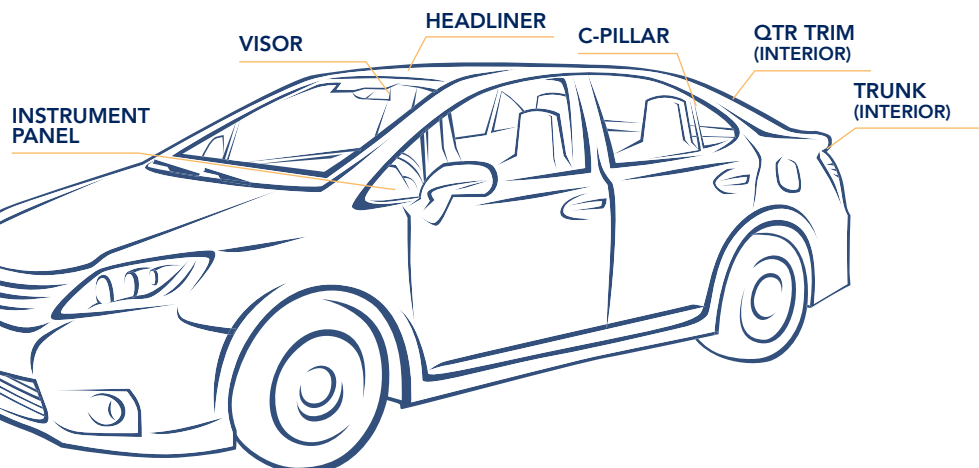


Excellent Retention

Termax Magnet assemblies are built with a unique overmold pressfit or sonic staking process. This creates high retention between the Magnet and the Carrier as well as excellent articulation (where applicable).

Variety of Shapes

Termax Magnet assemblies come in an array of shapes (including circular and bar Magnets).



Magnet

PART LIST & DIMS

Magnet | Standard



86003



97603



97632



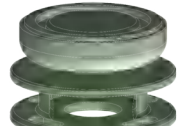
97633



97640



97645



97650



97665



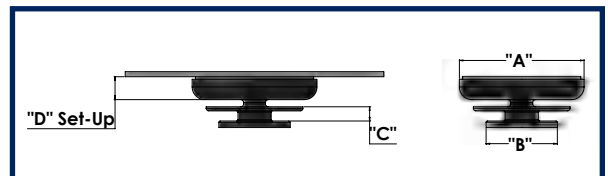
97667



97668



97673



Magnet

Part Number	Panel Thick.	Min. Retent (lbs)	"A"	"B"	"C"	"D" Set-Up
86003	3.00	23.00	26.0 x 11.0	14.50	2.00	5.40
97603	3.00	16.00	19.00	14.00	2.00	5.40
97632	3.00	23.00	26.0 x 11.0	17.0 x 12.2	2.50	4.50
97633	3.00	23.00	26.0 x 11.0	17.0 x 12.20	2.50	4.50
97640	3.00	23.00	23.20	14.00	2.00	6.70
97645	1.00	15.00	20.50	14.00	2.00	6.70
97650	1.00	15.00	19.00	23.00	N/A	14.00
97665	1.00	17.00	24.50	17.00	4.00	7.20
97667	1.00	15.00	20.50	29.30	22.00	10.80
97668	1.00	17.00	23.20	14.00	2.00	6.70
97673	1.00	11.00	22.00	13.00	2.50	

Magnet

PART LIST & DIMS

Magnet | Assemblies



Assemblies

Part Number	Panel Thick.	Min. Retent (lbs)	"A"	"B"	"C"	"D" Set-Up
97600	3.00	14.00	19.00	94.00	36.00	14.00
97601	3.00	14.00	19.00	94.00	36.00	28.00
97602	3.00	22.00	23.20	50.00	30.00	5.60
97613	3.00	23.00	23.20	44.80	N/A	22.30
97615	3.00	22.00	23.20	50.00	30.00	5.60
97630	3.00	23.00	26.0 x 11.0	67.00	16.00	6.50
97660	3.00	23.00	23.20	82.00	46.00	10.00
97661	3.00	23.00	23.20	82.00	46.00	10.00
97663	3.00	14.00	19.00	45.00	23.00	10.00
97664	3.00	23.00	23.20	45.00	23.00	10.00
97669	3.00	23.00	24.50	84.00	N/A	
97670	3.00	23.00	24.50	82.80	83.00	
97671	3.00	23.00	24.50	59.50	22.00	
97672	3.00	23.00	24.50	82.00	46.00	
97675	1.00	17.00	24.50	45.00	23.00	
97681	3.00	23.00	26.0 x 11.0	45.50	32.50	N/A

*Pictures are not to scale

Tether

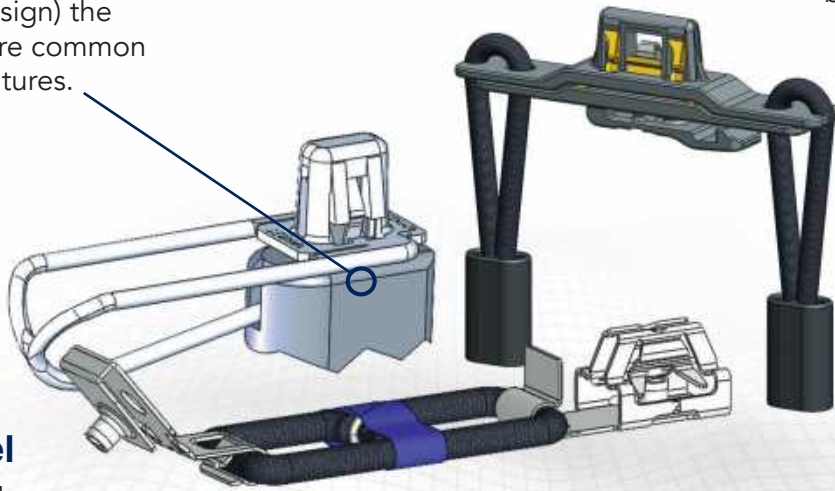
PART FAMILY

About

Termax's Tether Clips offer everything you need for vehicle components interfacing with air curtains. Our Tether Clips allow your part to move thus allowing the air curtain to deploy, without becoming a projectile. Termax Tether Clips are a proven, reliable, durable and serviceable solution. Tethers are available in a two piece or one piece design.

Moldable Features

For either style (one or two piece design) the doghouses are common moldable features.



Serviceability

Other Tethers destroy the part or its environment during service. Termax Tethers provide a solution that can be serviced without being destructive to the part or the environment.

Allows for Travel

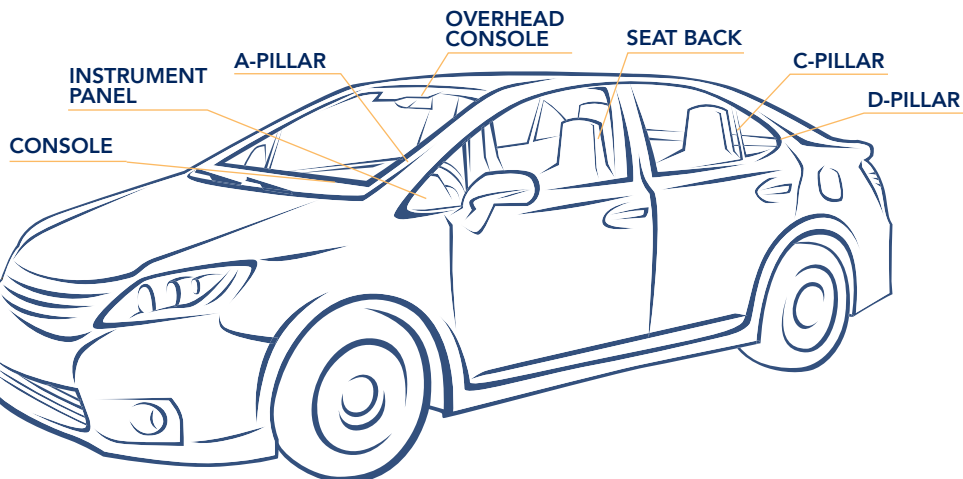
The length of the Tether allows your part to travel over 5 inches!

Energy Management

After years of research, development, and testing, Termax has determined that the secret to successful tethers is not the strength of the tether but how much energy it absorbs during deployment. All Termax tethers are designed with this in mind. Termax offers numerous tethers with varying levels of energy absorption.

Application

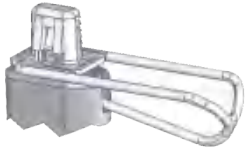
Common areas Tether fasteners are applied.



Tether

PART LIST & DIMS

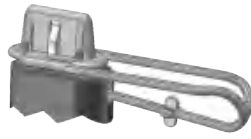
Tether | Traditional



50204 (w/30619)



50205 (w/30616)



50206 (w/30616)



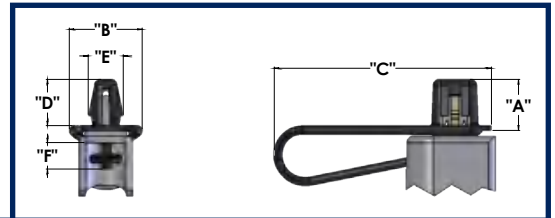
71400



71401



71402



Traditional

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	"A"	"B"	"C"	"D"	"E"	"F"
50204 (w/30619)	10.00	1.20 - 3.25	18.00	18.90	27.00	80.40	17.10	13.00	9.70
50205 (w/30616)	6.00	1.80 - 2.25	18.00	18.70	18.10	85.30	16.00	9.70	9.70
50206 (w/30616)	6.00	0.90 - 2.25	18.00	18.70	26.60	99.10	16.30	9.70	9.70
71400	6.00	0.80 - 1.50	18.00	17.20	26.60	82.00	13.70	9.40	5.40
71401	6.00	0.80 - 1.70	18.00	17.00	13.00	82.40	13.70	10.00	5.40
71402	6.00	0.80 - 1.70	18.00	17.10	14.60	109.20	13.70	9.80	5.40

*Pictures are not to scale

Tether

PART LIST & DIMS

Tether | Bungee



71403



71405



71406



71407



71410



71411



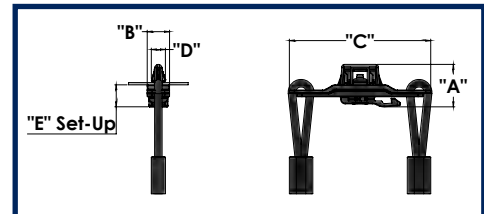
71412



71413



71414



Bungee	Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	"A"	"B"	"C"	"D"	"E" Set up
	71403	6.00	0.80 - 1.50	18.00	28.50	15.00	94.90	9.40	8.10
	71405	6.00	0.80 - 2.00	10.00	See Best Practice				
	71406	6.00	0.80 - 2.00	18.00					
	71407	6.00	0.80 - 2.00	10.00					
	71410	6.00	0.80 - 1.50	18.00					
	71411	6.00	0.80 - 1.50	18.00					
	71412	10.00	1.00 - 1.40	18.00					
	71413	6.00	0.80 - 2.00	18.00					
71414	6.00	0.80 - 2.00	18.00						

U&J Nuts

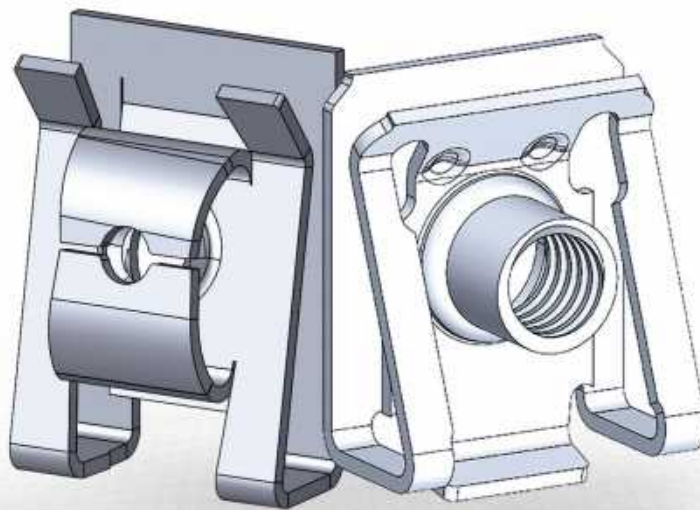
PART FAMILY

About

We are excited to offer you a wide selection of U&J Nuts. By combining the experience and product lines of LISI and Termax, U&J Nuts are available in various thread sizes, shapes, and configurations that cover a variety of applications.

Torque Flexibility

Torque features are available as single thread, twin thread, or threaded barrel depending on the torque requirement needed.

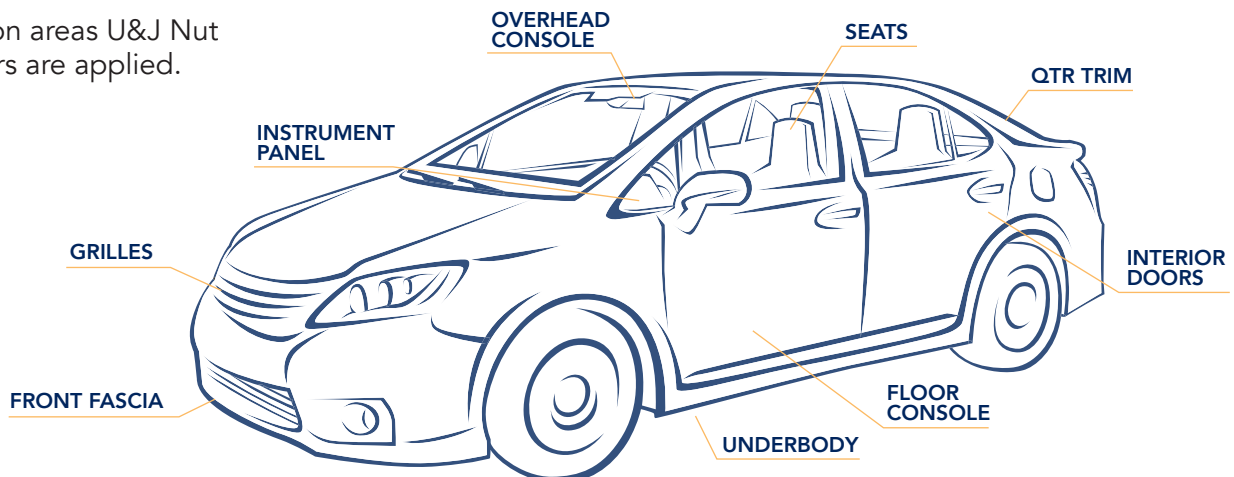


Retention Features

U&J Nuts are available with retention features to ensure proper engagement with the panel.

Application

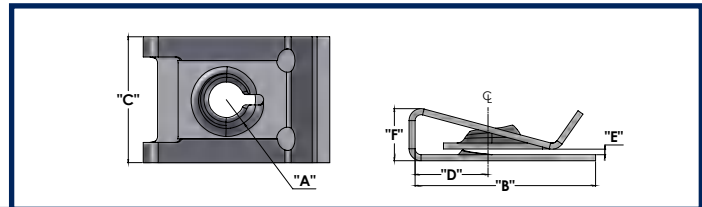
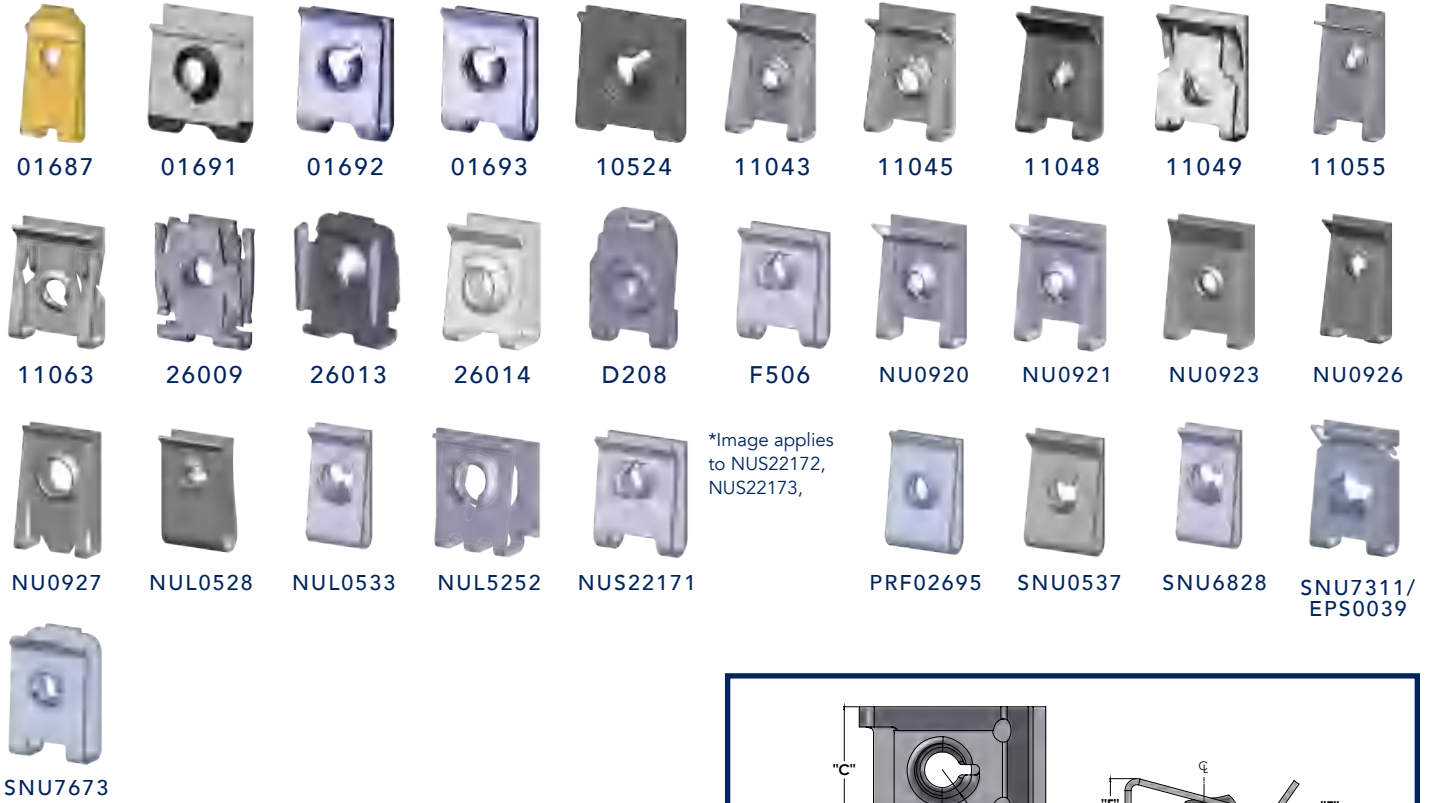
Common areas U&J Nut fasteners are applied.



U&J Nuts

PART LIST & DIMS

U&J Nuts | Single Thread



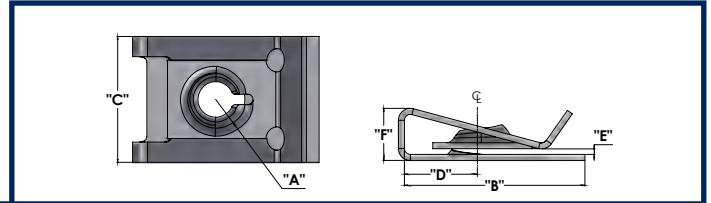
Single Thread

Part Number	Panel Thick.	"A" For Screws	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
01687		10A	23.30	11.10	14.70		2.80	N
01691	1.50 - 2.00	4.2 x 1.4	12.00	10.00	6.00	1.50		N
01692	1.50 - 2.00	M5.0 x 2.12	14.00	11.00	8.00	1.50		N
01693		M5.0 x 2.12	14.71	11.00	8.71	2.00		N
10524		8AB	11.70	11.10	6.34	0 - 0.38	1.52	N
11043		4.2 x 1.4	19.30	13.50	8.89	0.25	4.29	N
11045	0.60 - 1.10	4.8 x 1.6 (10B)	19.56	13.46	8.89	0.61	4.80	Y
11048		8-7.5	19.56	13.46	8.89	0.51	4.32	Y
11049		4.2	18.40	13.50	6.90	1.00	3.60	N
11055		8B	25.40	13.50	14.80	0.254	4.30	N
11063	1.25 - 2.00	10 AB	20.10	16.00	8.80	1.30		
26009	6.00 - 6.50	5.00	20.30	16.00	11.50	6.00	2.20	Y
26013	1.50 - 2.00	2.7 - 2.85	15.50	11.7 - 12.3	7.7 - 8.3	0.9 - 1.9	3.6 - 3.9	Y
26014	2.50 - 3.00	4.2 x 1.4	11.25	8.00	5.00	2.50	4.20	N
D208	2.50	4.2		16.00		2.80	5.00	Y

U&J Nuts

PART LIST & DIMS

U&J Nuts | Single Thread



Single Thread

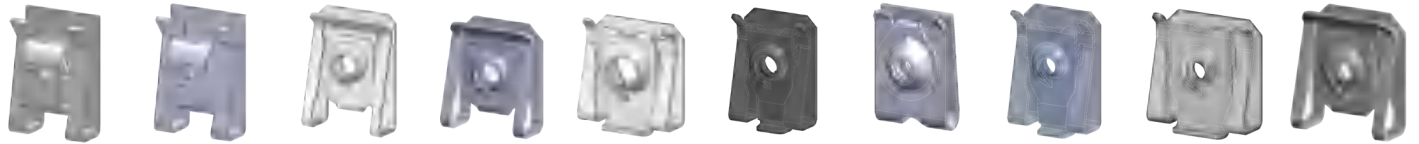
Part Number	Panel Thick.	"A" For Screws	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
F506	2.20 - 2.80	4.2	15.70	12.00	10.30	1.70	4.60	Y
NU0920	0.500 - 4.00	4.2	20.00	14.00	10.00		5.40	Y
NU0921	0.50 - 4.00	4.8	20.00	14.00	10.00	0.30	5.60	Y
NU0923	0.50 - 4.00	3.50	20.00	14.00	8.80			N
NU0926	0.50 - 4.00	4.2	25.00	14.00	14.00			N
NU0927	0.50 - 4.00	6.3	24.50	16.00	14.00			N
NUL0528	2.00 - 3.00	3.50	16.40	10.00	9.00			Y
NUL0533	0.40 - 1.90	4.8	26.00	9.00	14.00			Y
NUL5252	2.00 - 2.50	4.20	13.30	9.00	6.80		4.40	Y
NUS22171	0.60 - 1.40	4.2	16.00	12.00	8.50			Y
NUS22172	1.50 - 2.10	4.2	15.80	12.00	8.00			Y
NUS22173	2.20 - 2.80	4.2	15.60	12.00	7.50			Y
PRF02695	2.50 - 4.00	6.3	25.10	16.00	13.30	1.40	6.00	Y
SNU0537	0.90 - 2.00	4.8	19.80	12.70	10.20	0.80		Y
SNU6828	0.80	4.2	16.60	8.70	9.50	0.25	3.20	N
SNU7311/EPS0039	2.00 - 3.00	4.8	17.00	11.30	9.10	2.00	3.10	Y
SNU7673	3.00	4.2	16.50	11.10	9.00	3.00	3.70	Y

*Pictures are not to scale

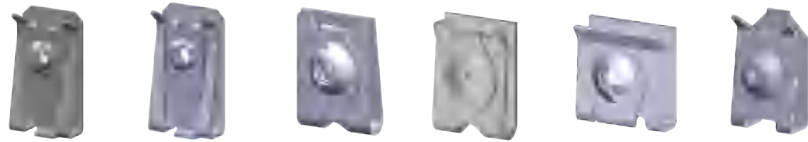
U&J Nuts

PART LIST & DIMS

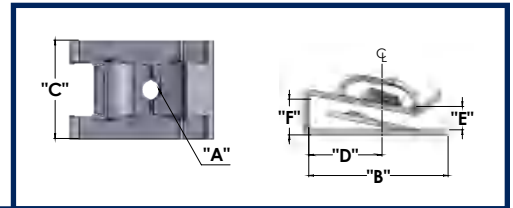
U&J Nuts | Twin Thread



30240 30260 F034 F049 F201 F371 PRF02457 PRF02487 PRF02493 PRF02494



PRF02657 PRF02918 SNK6617 SNK6658 SNK7275 SNK7707



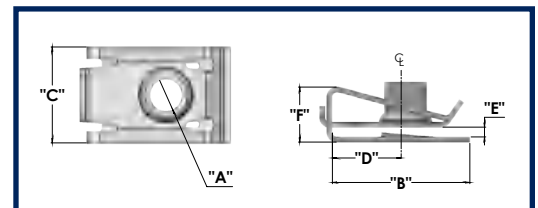
Twin Thread

Part Number	Panel Thick.	"A" For Screws	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
30240	2.00 - 2.50	4.2 x 1.41	19.50	13.77	9.60	2.05	4.80	Y
30260	2.00 - 2.50	4.2 x 1.41	19.50	13.77	9.60	2.05	4.80	Y
F034	0.50 - 4.50	4.8	20.30	15.00	10.80		5.00	Y
F049	0.50 - 4.50	4.8	17.30	15.00	8.80		5.50	Y
F201	0.80 - 4.00	6.3	17.00	17.00	8.75		5.00	Y
F371	0.80 - 4.00	K 50	20.30	15.00	10.80	0.50	5.00	Y
PRF02457	2.00		18.50	12.70	10.25	1.20	3.00	N
PRF02487	3.00 - 4.00	U5	20.30	15.00	10.80	0.50	5.00	Y
PRF02493	0.80 - 4.00	K50	20.30	15.00	10.80	0.50	5.00	Y
PRF02494	0.50 - 4.50	K50	17.30	15.00	8.80		5.50	Y
PRF02657	0.50 - 5.00	U5	27.00	15.00	16.00	2.00	5.30	Y
PRF02918	0.50 - 5.00	4.8	27.00	15.00	16.00	2.00	5.30	Y
SNK6617	0.90 - 2.00	4.8	18.60	12.70	10.20	0.50	3.00	N
SNK6658	2.60 - 3.20	4.2	18.60	12.70	10.20	1.70	3.40	N
SNK7275	3.50	4.8	16.90	16.00	8.90	3.00	3.60	Y
SNK7707	3.00 - 5.00	4.2	19.20	11.00	9.60	3.00	5.40	Y

U&J Nuts

PART LIST & DIMS

U&J Nuts | Threaded



Threaded

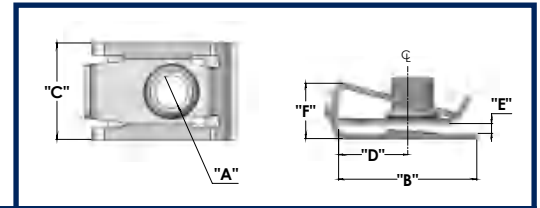
Part Number	Panel Thick.	"A" For Screws	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
D400	0.50 - 4.00	M5	20.00	14.00	11.00		8.20	Y
D857	3.50 - 7.00	M6	22.30	15.00	11.70	4.00	8.60	Y
NUT0958	0.50 - 4.00	M8	24.80	16.50	14.80		7.60	Y
NUT0962	2.80 - 3.00	M6	23.00	15.00	12.00	3.20	5.80	Y
NUT0968	9.00	M8	37.00	26.00	19.60		11.50	N
NUT0969	5.00	M8 x 125	38.60	26.00	19.50		7.50	N
NUT0978	0.50 - 4.00	M8	24.80	17.00	14.80		7.50	N
NUT0986	2.80 - 3.20	M6	22.20	15.00	12.20	2.00	5.80	Y
NUT8376	0.50 - 4.00	M6	21.30	15.00	11.70	3.50	8.60	Y
NUT8415	0.50 - 4.00	M5	20.00	14.00	11.40	3.60	8.20	Y
NUT8476	1.50 - 4.00	M6	19.30	18.00	9.50		8.60	Y
NUT8526	0.50 - 2.50	M6	20.50	16.00	8.00	0.20	8.60	N
NUT8528	0.50 - 5.00	M8	25.50	18.00	12.00	2.00	9.00	N
NUT8535	0.50 - 2.50	M5	23.30	15.00	12.00		8.20	N
NUT8536	2.50 - 5.00	M6	20.50	16.00	8.00		8.60	N
NUT8538	0.50 - 5.00	M8	29.80	18.00	16.00	2.00	9.00	N
NUT8545	2.50 - 6.00	M5	23.30	15.00	12.00	5.50	8.20	N
NUT8546	0.50 - 2.50	M6	24.50	16.00	12.00	0.20	8.60	N
NUT8556	2.50 - 5.00	M6	24.50	16.00	12.00		8.60	N
NUT8566	0.50 - 4.00	M6	21.30	15.00	12.50		8.60	N

*Pictures are not to scale

U&J Nuts

PART LIST & DIMS

U&J Nuts | Threaded



Threaded

Part Number	Panel Thick.	"A" For Screws	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
NUT8616	3.50 - 5.00	M6	21.30	15.00	12.50		8.60	Y
NUT8726	0.50 - 4.00	M6	21.30	15.00	11.70	1.60	8.60	Y
NUT8736	1.50 - 4.00	M6	23.50	23.00	13.50			Y
NUT8992	0.50 - 2.50	M6	20.50	16.00	8.00		8.60	N
PRD05212	2.00 - 4.00	M8	24.80	16.50	15.30		7.60	Y
PRD05313	0.50 - 4.00	M6	21.30	15.00	11.70		8.60	Y

Cage Nuts

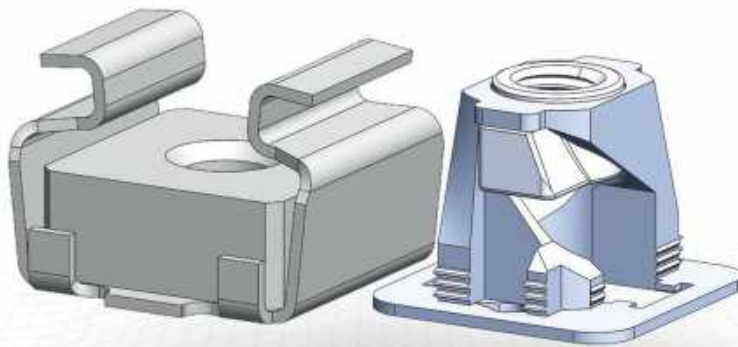
PART FAMILY

About

Cage nuts are a unique product that combine LISI's knowledge of threaded nuts with their knowledge of clipped solutions. LISI is able to offer multiple styles of cage nuts to meet any application requirement. Cage nuts are a versatile fastener offered in many shapes, thread sizes, and attachment styles.

Attachment Features

Cage nuts come in various styles of attachment. U Shaped Cage nuts can be slid onto the edge of a panel or into a slot opening. Clipped cage nuts are meant to be clipped onto a panel in a slot or hole.

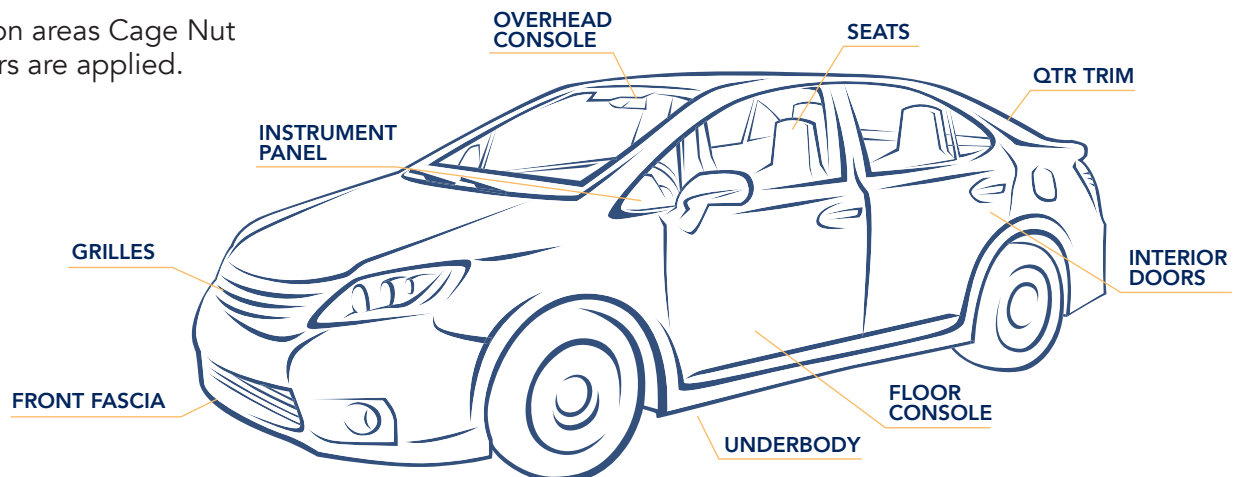


Thread Size

Cage nuts are available in many different thread styles. Sizes as small as M4 to as large as M12 can be accommodated with various cage nuts.

Application

Common areas Cage Nut fasteners are applied.



Cage Nuts

PART LIST & DIMS

Cage Nuts | U Shaped



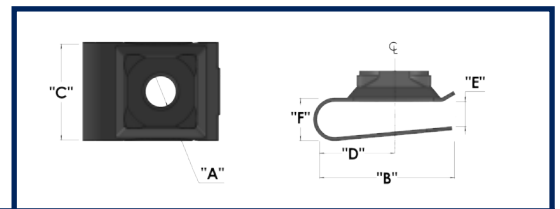
CNU4515 CNU45155 CNU4516 CNU4517 CNU4554 CNU4555 CNU4556 CJ45064 CJ45105150 CJ48161



MC5315 MC5988 PRD05377 PRD05548 PRF02416 PRF02630 PRF02645 PRF02677 PRF02804 PRF02848



SMC6421 SMC7146 SMC7403 SMC7644



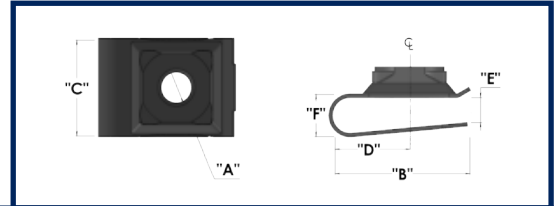
U Shaped

Part Number	Panel Thick.	"A"	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
CNU4515	1.20 - 1.60	M8	24.50	19.00	11.60			N
CNU45155	2.70 - 3.10	M8	24.50	19.00	11.60			N
CNU4517	2.00	M6	24.00	15.00	14.75	0.40 - 1.80	3.50	N
CNU4516	2.00	M4	25.00	15.00	14.50			N
CNU4554	1.50 - 2.50	M4	24.80	15.00	14.50			Y
CNU4555	1.50 - 2.50	M5	24.80	15.00	14.50			Y
CNU4556	1.50 - 2.50	M6	24.80	15.00	14.50			Y
CJ45064	2.60 - 3.10	M6	14.90	11.70	6.00			Y
CJ45105150	4.80 - 5.50	M10	39.7	21.00	23.00			Y
CJ48161	1.10 - 2.90	M6	22.50	14.90	12.70			Y
MC5315		M6	16.50	14.00	8.70	1.20	1.20	N
MC5988	0.50 - 1.50	M8	26.60	18.00	15.00			N
PRD05377	3.80	M6	19.20	18.00	11.20	4.00	4.40	Y
PRD05548	3.80	M6	19.20	18.00	11.20	4.00	4.40	Y
PRF02416	3.00	M8	21.90	15.80	13.00	2.50	3.30	N
PRF02630	0.80 - 1.50	M6	19	19	7.50	0.60	3.30	N
PRF02645	0.80 - 1.30	M6	29.80	20.80	16.80	0.80	1.70	Y
PRF02677	3.00 - 4.25	M8	28.60	20.60	16.60	2.30	4.60	N
PRF02804	1.80 - 3.30	M6	26.70	14.00	12.80	1.00	3.30	N

Cage Nuts

PART LIST & DIMS

Cage Nuts | U Shaped



U Shaped

Part Number	Panel Thick.	"A"	"B"	"C"	"D"	"E"	"F"	Retention Feature Y/N
PRF02848	1.80	M10		23.00	20.20	1.30		N
SMC6421	0.60 - 1.50	M6	17.10	14.00	8.50	1.50	1.50	N
SMC7146	1.50 - 2.40	M6	24.60	14.00	11.20			N
SMC7403	4.00 - 5.00	M8	22.40	15.80	10.00			N
SMC7644	3.50	M6	22.00	15.80	12.50	3.00	4.00	N

Cage Nuts | Clipped



C4804AA

C4804BA

C4804CA

C4804DA

C4805BA

*Image applies to C4805AA, C4805CA, C4805DA, C48060A

C4806AA

C4806BA



C4806CA

C4806DA

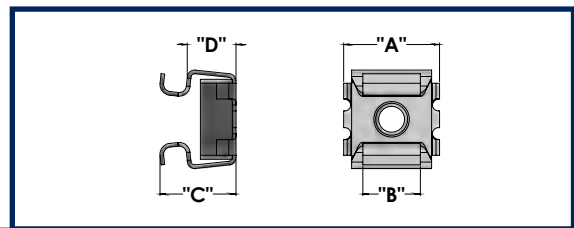
C4808BA

C4808CA

C4811AA

C4811BA

*Image applies to C4808AA, C4810AA, C4810BA, C4810CA, C48120A, C4812BA, C4812CA, C4812DA



Clipped

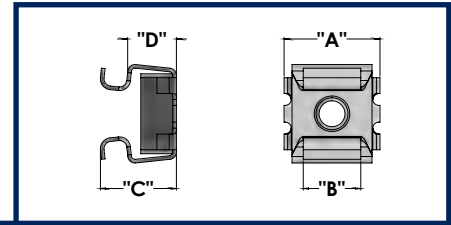
Part Number	Slot Width	Thread Size	Panel Thick.	"A"	"B"	"C"	"D"
C4804AA	8.10 - 8.50	M4	1.20 - 1.60	12.00	7.20	8.50	6.20
C4804BA	8.10 - 8.50	M4	1.70 - 2.50	12.00	7.20	9.50	6.20
C4804CA	8.10 - 8.50	M4	3.60 - 3.50	12	7.20	10.50	6.20
C4804DA	8.10 - 8.50	M4	3.60 - 4.50	12	7.20	10.50	6.20
C4805AA	8.10 - 8.50	M5	1.20 - 1.60	12.00	7.20	8.50	6.20
C4805BA	8.10 - 8.50	M5	1.70 - 2.50	12.00	7.20	9.50	6.20
C4805CA	8.10 - 8.50	M5	2.60 - 3.50	12.00	7.20	10.50	6.20

*Pictures are not to scale

Cage Nuts

PART LIST & DIMS

Cage Nuts | Clipped



Clipped

Part Number	Slot Width	Thread Size	Panel Thick.	"A"	"B"	"C"	"D"
C4805DA	8.10 - 8.50	M5	3.60 - 4.50	12.00	7.20	11.50	6.20
C48060A	8.10 - 8.50	M6	0.30 - 1.10	12.00	7.20	8.00	6.20
C4806AA	8.10 - 8.50	M6	1.20 - 1.60	12.00	7.20	8.50	6.20
C4806BA	8.10 - 8.50	M6	1.70 - 2.50	12.00	7.20	9.50	6.20
C4806CA	8.10 - 8.50	M6	2.60 - 3.50	12.30	7.20	10.50	6.20
C4806DA	8.10 - 8.50	M6	3.60 - 4.50	12.00	7.20	11.50	6.20
C4808BA	12.30	M8	2.00	20.00	12.60	15.50	10.20
C4808AA	12.10 - 12.50	M8	1.00 - 1.70	16.00	10.60	10.40	7.80
C4808CA	12.10 - 12.50	M8	3.30 - 4.70	16.00	10.60	13.40	7.80
C4810AA	12.10 - 12.50	M10	1.00 - 1.70	16.00	10.60	10.40	7.80
C4810BA	12.10 - 12.50	M10	1.80 - 3.20	16.00	10.60	11.90	7.80
C4810CA	12.10 - 12.50	M10	3.30 - 4.70	16.00	10.60	13.40	7.80
C4811AA	12.10 - 12.50	M6	1.00 - 1.70	16.00	10.60	10.40	7.80
C4811BA	12.50 - 12.50	M6	0.50	16.00	10.60	11.90	7.80
C48120A	14.00	M12	0.80 - 1.20	20.00	12.60	12.70	10.40
C4812BA	14.00	M12	1.80 - 3.20	20.00	12.60	14.70	10.40
C4812CA	14.00	M12	3.30 - 4.70	20.00	12.60	16.20	10.40
C4812DA	14.00	M12	4.80 - 6.20	20.00	12.60	17.70	10.40
C4808BA	12.30	M8	2.00	20.00	12.60	15.50	10.20
C4811BA	12.50 - 12.50	M6	0.50	16.00	10.60	11.90	7.80

Wire, Cable & Tube Clips

PART FAMILY

About

Termax Wire, Cable & Tube clips are offered in a wide variety of materials, sizes, complexity and configurations. Our experienced and innovative team have developed solutions for a wide range of applications – and developing more all the time. Whether it is an off the shelf solution or a new design, Termax is ready.

Plastic Solutions

Variety of plastic clip solutions that are able to attach to many different hole sizes and panel thicknesses.



Metal Solutions

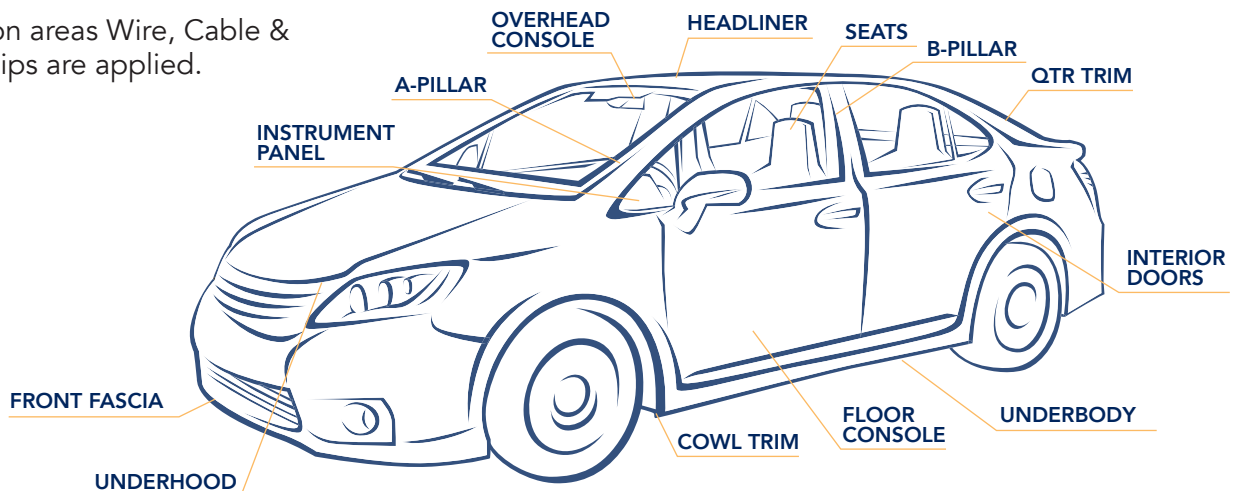
Metal clips are designed to attach to ribs or panels in multiple thicknesses.

Customizable

Metal and Plastic clips are available for wires and cables of different quantities as well as different diameters for use across the entire vehicle.

Application

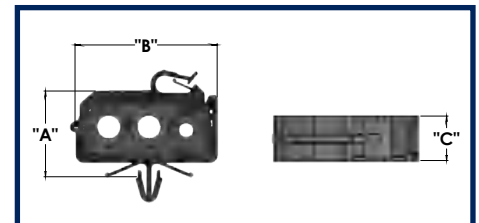
Common areas Wire, Cable & Tube Clips are applied.



Wire, Cable & Tube Clips

PART LIST & DIMS

Wire, Cable & Tube Clips | Plastic



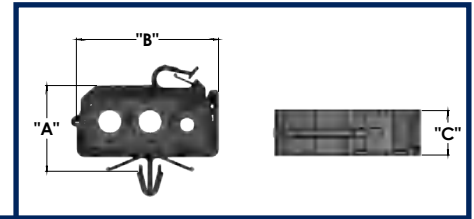
Plastic	Part Number	Panel Hole Size	Panel Thickness	# of Wires	Wire Diameter	Max. Insert to Panel (lbs)	Min. Retent. To Panel (lbs)	Max. Insert Cable (lbs)	Min. Retent. Cable (lbs)	"A"	"B"	"C"
	50802	7.50	2.50 - 3.00	1	4.00					14.50	16.50	12.00
	D246	M6 Stud	N/A	1	13.00	11.00	34.00	11.00	34.00	58.00	44.30	40.00
	D250	6.50	0.70 - 2.50	3	8, 8, 5.25	7.00	12.00	7.00	22.00	35.10	47.10	15.00
	D251	12.20 x 6.20	0.70 - 2.50	2	5.25	9.00	33.00	12.00	23.00	30.40	26.00	12.00
	D380	6.20 x 12.20	0.70 - 2.50	2	5.25	22.00	34.00	11.00	18.00	27.10	23.80	28.90
	D707	6.20 x 12.20	5.30 - 6.20	2	4.70 - 5.25		67.00	11.00	34.00	32.00	36.50	22.00
	F322	N/A	N/A	3	8.38 - 11.48			13.00	13.00	29.00	67.20	15.00
	F324	N/A	N/A	1	5.14 - 6.38			16.00	12.00	27.80	30.00	12.00
	F325	N/A	N/A	3	5.14 - 6.38			13.00	9.00	27.80	38.00	12.00
	MP5377	1.0-3.0 Rib	N/A	1	3.00 - 13.00	15.00	34.00	11.00	7.00	23.20	25.45	14.00
	P8231	6.50	1.50 - 4.00	1	5.25 - 8.00	16.00	56.00	11.00	45.00	29.50	20.96	18.00
P8454	M5 Stud	N/A	1	4.0 - 18.00					50.00	34.00	30.00	

*Pictures are not to scale

Wire, Cable & Tube Clips

PART LIST & DIMS

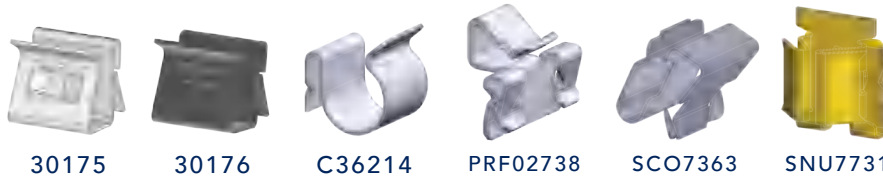
Wire, Cable & Tube Clips | Plastic



Plastic

Part Number	Panel Hole Size	Panel Thickness	# of Wires	Wire Diameter	Max. Insert to Panel (lbs)	Min. Retent. To Panel (lbs)	Max. Insert Cable (lbs)	Min. Retent. Cable (lbs)	"A"	"B"	"C"
P8682	12.20 x 6.20	0.70 - 3.00	2	8.0 - 12.0	7.00		11.00	18.00	26.00	38.70	11.50
P8683	M5 Stud	N/A	3	8.00 - 12.00			11.00	18.00	26.00	69.00	11.50
P8852	M5 Stud	N/A	2	4.75 - 5.25	10.00	45.00	7.00	23.00	22.00	37.00	12.00
PRD04719	N/A	0.67 - 1.50	1	3.0 - 10.0					22.70	18.70	10.00
PRD04783	12.20 x 6.20	0.60 - 2.00	1	5.0 - 15.0	15.00	56.00			16.70	50.00	21.00
PRD04937	12.20 x 6.20	0.70 - 2.00	2	14, 9	11.00	22.00	11.00	6.00	20.00	43.00	20.00
PRD05232	10.20	0.70 - 4.00	3	8.0 - 10.0	11.00	45.00	15.00	11.00	19.00	48.20	12.00
PRD05279	24.20 x 12.20	0.80	1	4.00	7.00	6.00	7.00	6.00			
PRM03242	N/A	N/A	2	4, 5					9.00		14.00
PRM03448	6.00	N/A	1	6.50			13.00	13.00	30.80	35.80	18.00
PRM03507	6.50	1.60 - 2.90	1	33.0 - 39.0							20.00
PRM03580			4	6, 8, 10, 21					47.20	36.60	28.20
PRM03664	N/A	N/A	1	11.40			13.00	50.00	18.00	23.50	15.00
PRM03686			3	12, 10, 5			15.00	36.00	19.50	53.00	17.50
PRM03774	N/A	N/A	3	10 - 18.2			9.00	42.00	33.00	86.30	36.00

Wire, Cable & Tube Clips | Metal



30175

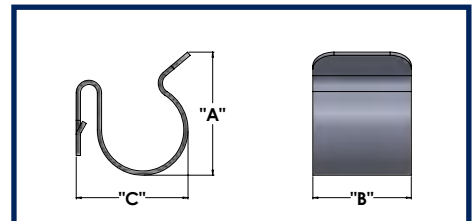
30176

C36214

PRF02738

SCO7363

SNU7731



Metal

Part Number	Panel Thickness	# of Wires	Wire Diameter	Max. Insert to Panel (lbs)	Min. Retent. To Panel (lbs)	Max. Insert Cable (lbs)	Min. Retent. Cable (lbs)	"A"	"B"	"C"
30175	0.80	1	4.80	18.00	20.00			11.20	12.00	10.00
30176	0.80	1	4.80	18.00	25.00			11.20	12.00	10.00
C36214	1.80 - 2.20	1	12.00	30.00	14.00	18.00	12.00	17.50	14.00	
PRF02738	1.60	1	2.00 - 4.00		45.00	2.00	20.00	22.40	29.90	14.30
SCO7363	3.00 - 3.20	2	2.25					9.00	10.00	7.00
SNU7731	1.50	1	15.00	11.00		1.50	2.00	Y		

*Pictures are not to scale

Plastic Nuts & Rivets

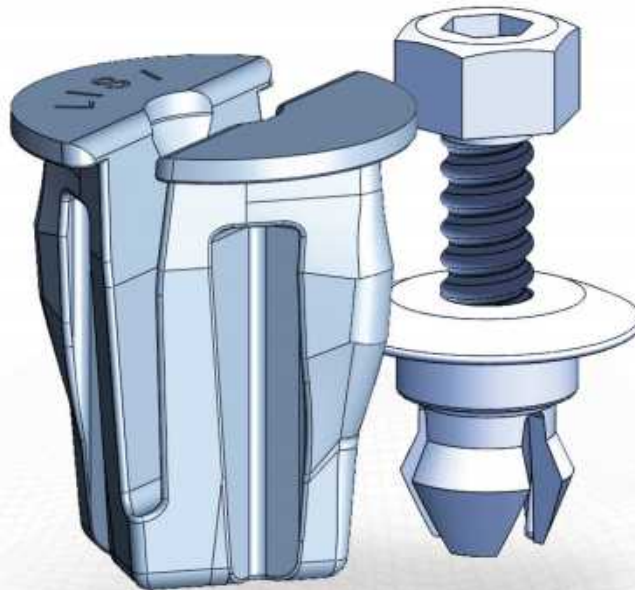
PART FAMILY

About

Termax Plastic Nuts & Rivets are available in many shapes and sizes, depending on the application. Plastic Rivets can encompass a large range of panel thicknesses and hole sizes, as well as varying retention forces. Plastic Nuts are produced in multiple materials suited for different vehicle environments. The wide selection of Plastic Nuts & Rivets allows for flexibility in use all across the vehicle.

Sealing

Plastic nuts are available in sealing and non sealing versions. Sealing nuts will be overmolded with rubber for maximum sealing capability.

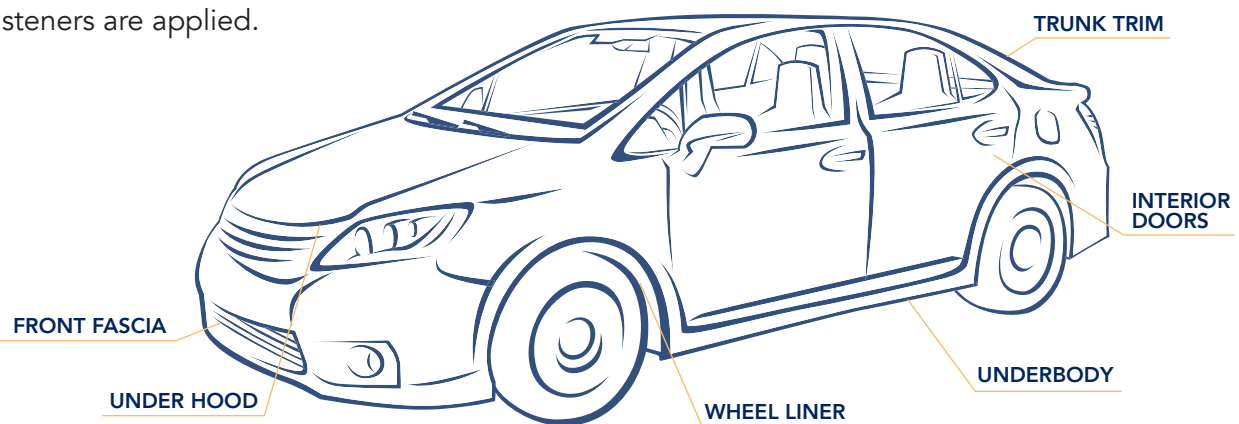


Rivet Removal Features

Rivets have features for removal and service that vary from screw out, pull out, and not removable.

Application

Common areas Plastic Nuts & Rivet fasteners are applied.



Plastic Nuts & Rivets

PART LIST

Plastic Nuts



00399



00607



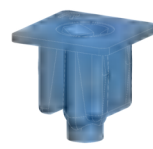
01492



01841



D872



P1527



PRD04836



PRD04907



PRD05076



PRD05256



PRM02733



PRM02837



PRM02848



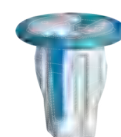
PRM03123



PRM03230



PRM03296



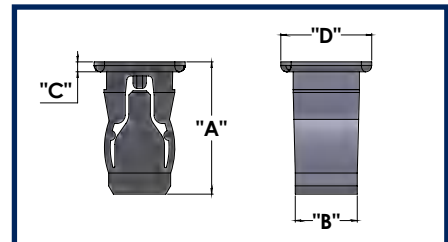
PRM03436



PRM03479



PRM03488



Plastic Nuts

Part Number	Slot Width	Panel Thick.	Thread Size	Max. Insert (lbs)	Min. Extraction (lbs)	"A"	"B"	"C"	"D"
00399	7.40	0.70 - 2.00	4.8			14.00	5.50	1.00	16.00
00607	7.00	2.10	4.2			14.00	5.50	1.00	11.00
01492	7.40 x 7.40	0.70 - 3.00	4.8			16.50	6.50	1.00	12.00
01841	7.40 x 7.40	0.70 - 2.20	M4 x 16			21.30	8.30	1.70	15.00
D872	10.0 x 16.50	0.70-1.20	M6	7.00	22.00	19.30	9.70	2.50	22.00
P1527	8.20 x 8.20	0.5-2.5				11.20	8.40	0.80	12.00
PRD04836	8.20 x 8.20	0.6-2.0	M5	22.00	112.00	16.00	8.00	1.20	11.00
PRD04907			M6			15.00	19.50	1.00	24.00
PRD05076	7.70 x 11.50	0.7-1.0		10.00	45.00	17.50		1.30	12.60
PRD05256	10.00 x 2.80	2.00	4.5	7.00	40.00	13.90		1.00	25.20
PRM02733	7.40 x 7.40	0.7-2.5	4.8			16.50	6.50	1.00	12.00
PRM02837	7.40 x 7.40	0.7-3.0	4.8			14.00	6.50	1.00	12.00
PRM02848	7.40 x 7.40	0.7-3.0	4.8			16.50	6.50	1.00	12.00
PRM03123									
PRM03230	8.20	0.7-2.5				19.60			21.00
PRM03296	7.40	0.60 - 3.00				16.90		1.00	12.20
PRM03436	9.00 x 9.00	0.8-4	M6		45.00	18.60	13.50	1.75	18.20
PRM03479	11.00 x 11.00	0.8-4.0	5.5		45.00	18.50	15.80	1.00	16.00
PRM03488	7.00	0.80 - 4.00	M5			18.50		1.00	12.20

*Pictures are not to scale

Plastic Nuts & Rivets

PART LIST

Plastic Rivets | Push On



EPL0109



F016



MP8755



P0904



P0935



P1506



P7288



P30035



P30228



PRD04766



PRD05553



PRM02836



PRM02846



PRM02847



PRM03120



PRM03286



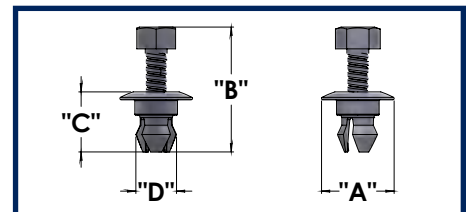
PRM03679



PRM03711



PRM03737



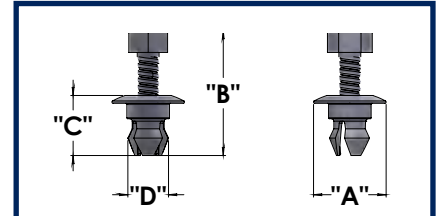
Push On

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent. (lbs)	"A"	"B"	"C"	"D"
EPL0109	6.20	4.0 - 4.50			15.00	19.00	8.00	6.50
F016	8.00	1.00 - 2.10	13.50	34.00	15.00	25.80	12.40	8.40
MP8755	8.20	1.50 - 8.00	18.00	45.00	24.30 x 15	26.00	13.30	7.70
P0904	6.00	3.00 - 6.00			15.00	19.00	8.00	6.50
P0935	6.00	4.00 - 6.00			10.00	30.50	16.20	6.00
P1506	6.00	2.00 - 6.00			10.00	27.10	15.00	6.00
P7288	6.00	2.00			15.00	19.00	8.00	6.50
P30035	8.00 - 9.20				20.00	28.20	18.20	9.20
P30228	6.40	3.60			15.00		10.00	6.50
PRD04766	6.50	3.80 - 6.00	7.00	56.00	22.00	26.80	13.80	
PRD05553	8.20	6.00 - 9.00	11.00	45.00	22.00	29.60	16.00	
PRM02836	6.40	2.50		45.00	15.00	24.50	11.00	7.90
PRM02846	16.00	2.30 - 3.30			24.00	41.00	22.60	17.50
PRM02847	7.00	2.30 - 3.30			22.00	33.00	17.00	9.00
PRM03120	7.40 x 9.00	0.80 - 3.00			25.00	21.00	9.00	8.40
PRM03286	5.40 x 9.00	0.90 - 3.50	11.00	23.00	12.50	20.00	9.00	8.00
PRM03679	8.00	2.20 - 4.50			18.00	22.50	10.00	8.00
PRM03711	5.40 x 9.00	0.80 - 3.50	11.00	45.00	12.50	20.00	9.00	8.00
PRM03737	8.00 - 8.40	2.20 - 4.50			18.00	22.50	10.00	8.00

Plastic Nuts & Rivets

PART LIST

Plastic Rivets | Blind Rivets

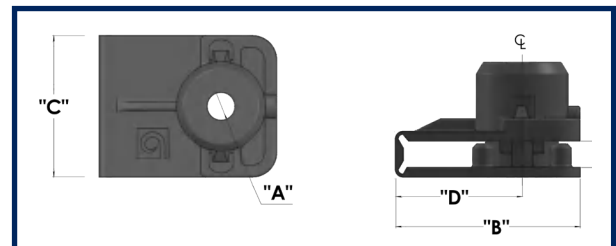


Blind Rivets	Part Number	Slot Width	Panel Thick.	"A"	"B"	"C"	"D"
	F199	6.00	5.00 - 8.50	20.00	54.60	20.00	16.00
	P7446	6.00	4.00 - 6.00	20.00	54.60	21.00	5.80
	PRF02486	6.00	5.00 - 10.00	20.00	54.60	21.50	5.80
	PRF02618	6.00	5.00 - 10.00	20.00	54.60	21.50	18.00
	PRF02619	6.00	4.00 - 6.00	20.00	54.60	21.00	16.00
	PRF02781	6.00	5.00 - 8.50	20.00	54.60	20.00	16.00

Plastic Nuts | Other



D572/
PRD04552



Other	Part Number	Panel Thick.	"A"	"B"	"C"	"D"	Retention Feature Y/N
	D572/PRD04552	3.00	4.2 - 4.8	22.00	17.50	9.70	Y

*Pictures are not to scale

Specialty

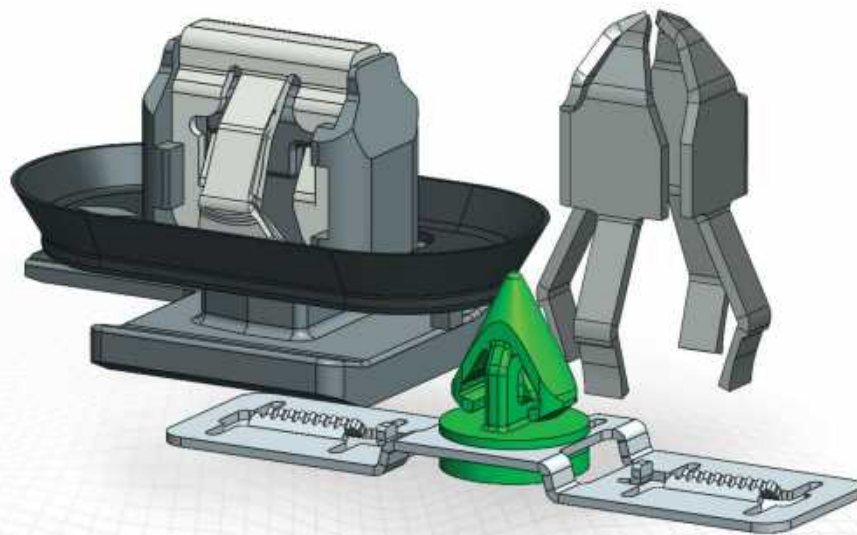
PART FAMILY

About

Termax is not limited to the specific categories highlighted in this book. We offer fastening solutions ranging from common S-clips to the more unique and customized solutions like one sided clips, barrel clips, U-clips for wide slots and rosettes. If you have a fastening need, Termax can provide your engineering solution.

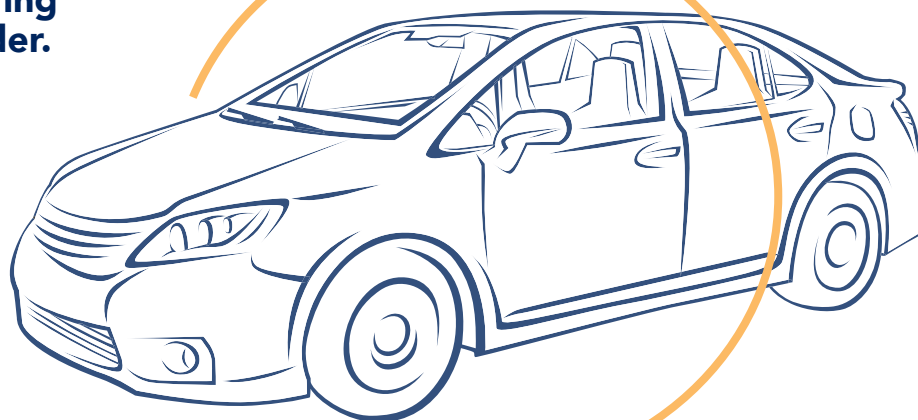
Innovative Solutions

Many of our products listed in this manual started as a custom fastener to address a specific fastening need for our customers. If you do not see what you are looking for, please do not hesitate to call. We would be happy to develop the engineering solution you are looking for!



Wherever your application may be on the vehicle, we hope to be your

Global Engineering Solutions Provider.



Specialty

PART LIST

Specialty | Mini Clip



70007

70008

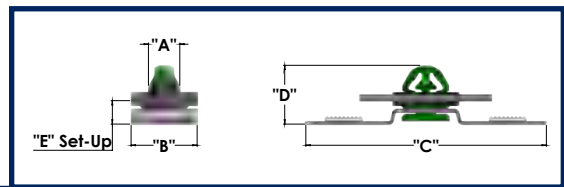
70009

70010



70011

70012



Mini Clip

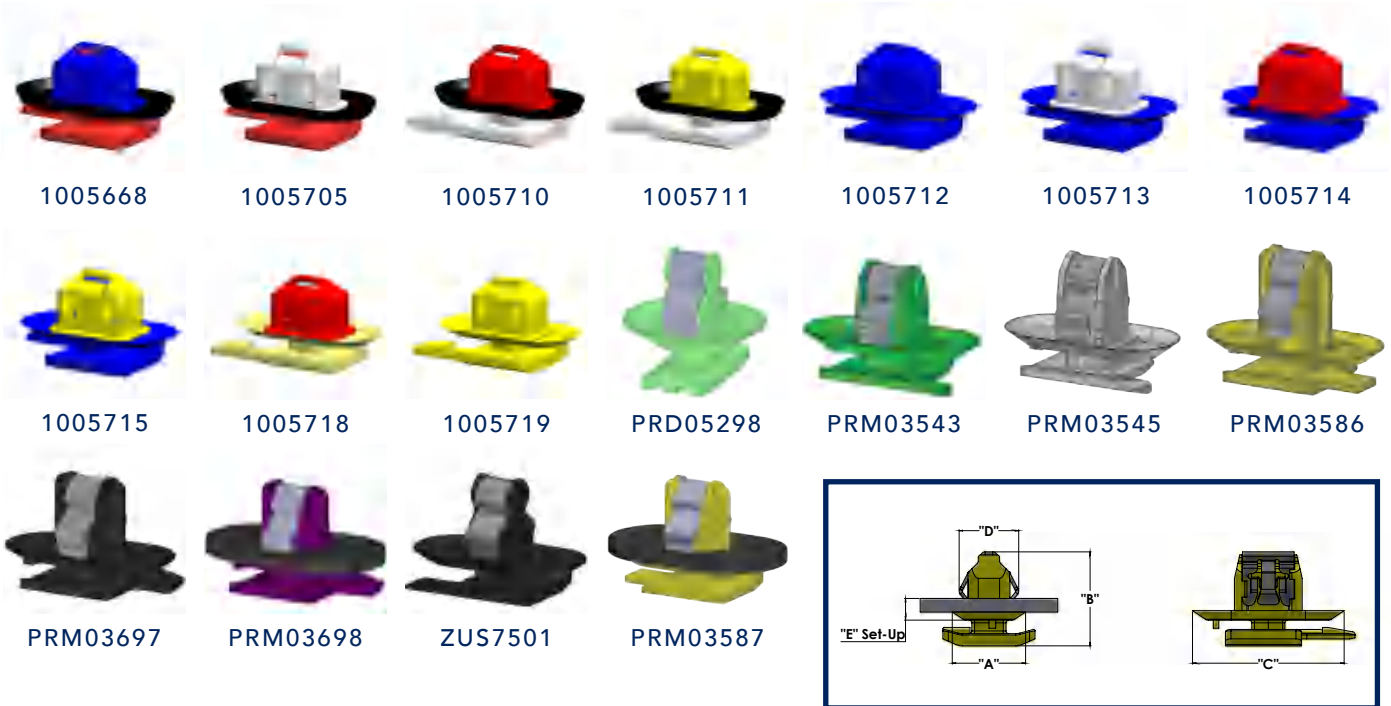
Part Number	Hole Diameter	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
70007	5.20	0.75 - 1.00	12.00	25.00	6.70	10.00	37.00	8.30	2.50
70008	5.20	0.80	12.00	25.00	6.80	10.00	37.00	13.00	3.50
70009	5.20	0.70 - 0.80	12.00	25.00	6.70	10.00	37.00	9.40	3.50
70010	7.40	0.70 - 0.80	14.00	25.00	8.80	10.00	37.00	16.50	
70011	5.50	0.75 - 1.00	18.00	25.00	7.00	10.00	36.40	8.90	4.60
70012	5.50	0.60 - 0.70	12.00	25.00	6.70	10.00	36.5	8.3	2.75

*Pictures are not to scale

Specialty

PART LIST

Specialty | Umbrella



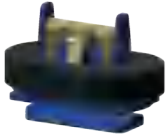
Umbrella

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
1005668	8.00	0.50 - 0.80	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005705	8.00	0.80 - 1.50	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005710	8.00	1.50 - 2.00	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005711	8.00	2.00 - 2.50	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005712	8.00	0.50 - 0.80	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005713	8.00	0.80 - 1.50	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005714	8.00	1.50 - 2.00	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005715	8.00	2.00 - 2.50	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005718	8.00	1.50 - 2.00	10.00	25.00	17.00	16.00	28.00	10.00	1.50
1005719	8.00	2.00 - 2.50	10.00	25.00	17.00	16.00	28.00	10.00	1.50
PRD05298	8.00	2.00			18.00	20.00	21.00		
PRM03543	8.00	0.50 - 1.50	13.00	25.00	14.40	17.60	28.00	7.60	3.00
PRM03545	8.00	1.50 - 2.50	13.00	25.00	14.40	18.60	28.00	7.60	2.00
PRM03586	8.00	2.50 - 3.00	14.00	27.00	14.30	19.30	28.00	7.80	1.80
PRM03697	8.00	1.50 - 2.00	14.00	27.00	14.30	18.10	28.00	7.80	1.60
PRM03698	8.00	0.80 - 1.80	14.00	27.00	14.30	18.10	28.00	7.80	2.00
ZUS7501	8.00	1.50 - 2.00	13.00	22.00	14.30	17.60	28.00	7.80	1.40
PRM03587	8.00 x 20.00	2.00 - 3.00	15.00	50.00	17.00	19.30	28.00		2.20

Specialty

PART LIST & DIMS

Specialty | Umbrella | Other Slot Sizes



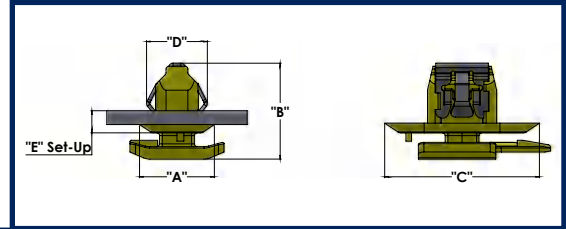
71119



PRD04515



ZUS7503



Umbrella Other

Part Number	Slot Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D"	"E" Set-Up
71119	7.00	1.00 - 2.20	12.00	30.00	15.00	19.30	30.00	9.30	4.80
PRD04515	8.20 x 16.20	2.60	11.00	45.00	14.30		28.00	10.80	
ZUS7503	7.80	0.80 - 1.20	13.00	22.00	14.30		28.00	7.60	

Specialty | Push On



25333



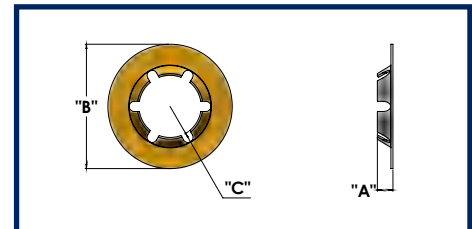
25334



25336



25338



Push On

Part Number	"A"	"B"	"C"
25333	2.30	18.50	9.30
25334	1.78	17.27	5.26
25336	1.65	17.27	5.26
25338	0.40	17.60	6.60

*Pictures are not to scale

Specialty

PART LIST & DIMS

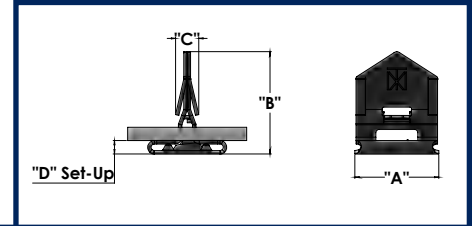
Specialty | Grabber



07903



07950



Grabber

Part Number	Slot Width	Panel Thick.	"A"	"B"	"C"	"D" Set-Up
07903	3.00	0.74 - 2.00	12.30	17.00	3.70	1.80
07950	3.00	0.74 - 2.00	12.30	15.50	3.50	2.00

Specialty | Other



30903



30904



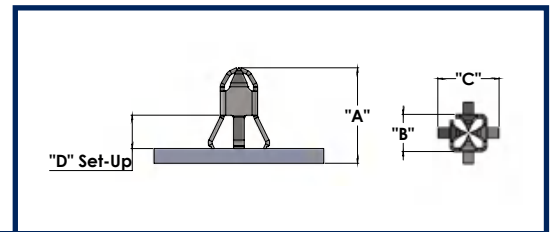
68091



68913



68914




Other

Part Number	Slot/Hole Width	Panel Thick.	Max. Insert (lbs)	Min. Retent (lbs)	"A"	"B"	"C"	"D" Set-Up
30903	7.00 - 8.00	0.60 - 2.20	10.00	20.00	13.80	5.50	9.10	5.00
30904	7.00 - 8.00	0.70 - 3.00	30.00	35.00	13.80	5.60	9.20	4.90
68091	See Best Practice							
68913	10.00		10.00	14.00	13.20	7.30		3.70
68914	10.00		15.00	20.00	13.20	7.30		3.70

Chrysler Part Number	FCA Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
U-BASED				
06508526AA 68190894AA 53163220 (Fiat)	PS-4220 Code 30	30505	165	
68139270AA	PS-4220 Code 30	30501	120	
06510502AA	PS-4220 Code 30	30606	166	
06512489AA	PS-4220 Code 30	30259	165	
06511238AA	PS-4220 Code 30	30612	166	
60511239AA	PS-4220 Code 30	30710	165	
68138139AA	PS-4220 Code 30	30600	165	
68139270AA 53107729 (Fiat)	PS-8814 Code 30	30501	170	
68139348AA 53107721 (Fiat)	PS-80	68910	104	
68156225AA	PS-4220 Code 30 + PS 1207	30447	168	
68238684AA	PS-4220 Code 30 + PS 1207	30603	168	
68316009AA	PS-12182	30628	112	
HIGH-RETENTION				
06511226AA	PS-4220 Code 30	68402	120	
06512432AA	PS-12182	68141	112	
68139328AA 68232103AA	PS-4220 Code 30	68128	165	
68193879AA 68251903AA	PS-4220 Code 30	68136	48	
68226070AB 53317168 (Fiat)	PS-7902	68301	105	
68258971AA	PS-4220 Code 30	68404	165	
68261709AA	PS-80	68312	104	
68275597AA	PS7902	68303	105	
68308756AA	PS-12182	68309	112	
SEALING				
06510505AA 53139583 (Fiat)	PS-4220 Code 30	71064	165	

Chrysler Part Number	FCA Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
06510739AA 53160013 (Fiat)	PS-4220 Code 30	71056	165	
06510812AA 53164914 (Fiat)	PS-4220 Code 30	71111	165	
06511811AA	PS-4220 Code 30	71062	166	
68070026AA	PS-4220 Code 30	71065	165	
PLASTIC				
06510313AA (Termax alternative)	N/A	58006	N/A	
06510407AA 53127246 (Fiat) (Termax alternative)	N/A	58008	N/A	
06510883AA (Termax alternative)	N/A	58005	N/A	
06511240AA	N/A	50321	N/A	
68258706AA	N/A	58001	N/A	
68258707AA	N/A	58002	N/A	
68312554AA	N/A	21000	N/A	
68312559AA	N/A	21001	N/A	
MAGNET				
68144384AA 53122873 (Fiat)	N/A	82003	N/A	
68172553AA	N/A	97606	N/A	
U&J NUTS				
06512562AA	N/A	68314	N/A	
06512294AA	PS-11036	26014	232	
WIRE, CABLE & TUBE CLIPS				
06511241AA	PS-80	30175	104	
SPECIALTY				
06035807AA	N/A	07903	104	
06036565AA	N/A	07950	104	
06506878AA	N/A	71018	104	N/A
06506965AA	PS-80	07944	104	

Chrysler Part Number	FCA Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
06510869AA	PS-80	07951	104	



Ford to Termax

PART NUMBER CROSS REFERENCE



Ford Part Number	Termax Part Number	Photo
U-BASED		
W704021	30229	
W705289	30239	
W710338	30450	
W711045	30459 30464	
W712427	30603	
W712856	30238	
W713407	30628	
W713631	30710	
W713688	30600	
W714030	30612	
W714113	30457 30458	
W715781	30455 30456	
W715801	30448	
W715842	30505	
W715980	30501	
W716053	30253 30257	
W716909	30719	
W717204	30606	
W718226	30259	
W720747	30256	
W721229	1007023	
W721291	30447	
W790387	30265 30267	
W790411	30255	
HIGH-RETENTION		
W714458	68109	
W716191	68310	



Ford to Termax

PART NUMBER CROSS REFERENCE



Ford Part Number	Termax Part Number	Photo
W716302	68133	
W716789	68311	
W716934	68400	
W716935	68401	
W716944	68304	
W718021	68409	
W718302	68306	
W718329	68303	
W718517 CJ54-S42906-A_PIA05	68405	
W720750	68420	
W719846	68123	
W790291	71502	
W790266	68300	
W790426	68411	
W790489	68134	
SEALING		
W711542	71034	
W711997	71028	
W713866	71052	
W716980	71085	
W717351	71056	
W718277	71116	
W719009	71117	
W790416	71089	
W790459	71119	
W790486	71124	
W790488	71125	
PLASTIC		



Ford to Termax

PART NUMBER CROSS REFERENCE



Ford Part Number	Termax Part Number	Photo
W711043	50302	
W711513	71201	
W711521	71202	
W711522	50303	
W711523	50324	
W714848	71204	
W714972 (Termax alternative)	58009	
W715981	58003	
W716169 (Termax alternative)	58005	
W718904	58008	
W719650	71215	
W720844	71216	
W720179	26025	N/A
W790264	50321	
W790482	71214	
W790486	71224	
W790488	71225	
W790172	58006	
W790178	58001	
W790449	71217	
MAGNET		
8A83-7452214-A	97614	
EJ7B-7852214-AC	97625	
FL3B-1652208-F	97635	
FT4B-R52214-B	97645	
FT4B-R52214-CC	97668	
HP53-F280D58-MA	86003	



Ford to Termax

PART NUMBER CROSS REFERENCE



Ford Part Number	Termax Part Number	Photo
HP53-F52208-A	97648	
U&J NUTS		
W706735	30260	
WIRE, CABLE & TUBE CLIPS		
W713010	30175	
SPECIALTY		
W718566	68091	
W790484	71137	
5L5J-17C786-AA	25337	
FL3B-52166-A	71700	



GM to Termax

PART NUMBER CROSS REFERENCE



GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
U-BASED				
10195501	GMW 4347-N	68915	104	
11517729	GMW4345W 6096/4B (Yellow)	30229	166	
11547155	GMW3044 9K96/24 (Yellow)	30257	166	
11547287	GMW3044 9K96/24	30455 30456	166	
11546914	GMW3359	30455 30456	240	
11547375	GMW3359	68921	169	
11548035	GMW3044 6K96/48 N	30259	224	
11548909	GMW3359	30265 30267	169	
11549266	GMW3044 6K96/48 N	30459 30464	103	
11549280	GMW3044 9K96/24	30628	188	
11561722	GMW3044 9K96/24 (Yellow)	30450	166	
11561788	GMW3044 15MK360/120G	30610	183	
11561941	GMW3044 9K96/24	30611	125	
11561971	GMW3044 6K96/24 N	30241	103	
11569765	GMW3044 9K96/24 (Yellow)	30628	166	
11570311	GMW3044 9K96/24 (Yellow)	30612	166	
11570575	GMW3044 9K96/24 (Yellow)	30616	166	
11570612	GMW 3200	30254	173	
11570631	GMW3044 9K96/24 N	30625	125	
11570751	GMW3359	30612	169	
11570864	GMW3059	30628	166	
11570933	GMW3044 6K96/24 N	30219	166	
11571016	GMW3359 (Blue)	30600	214	
11571017	GMW3359 (Green)	30603 30643	190	
11571218	GMW3359 (Black)	30606	201	



GM to Termax

PART NUMBER CROSS REFERENCE



GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
11571232	GMW3044 9K96/24 N	30619	168	
11588783	GMW3044 9K96/24	30600	165	
11589187	N/A	30304	N/A	
11589329	GMW3044 9K96/24 (Yellow)	30603 30643	166	
11601790	GMW3359	30265 30267	169	
11601912	GMW3359	30613	169	
11602470	GMW3044 9K96/24 (Green)	30257	185	
11602471	GMW3044 9K96/24	30612	239	
11602510	GMW3359	30257	169	
11602758	GMW3044 9K96/24 (Red)	30600A	187	
11603083	GMW3044 9K96/24 (Silver)	30463	165	
11603241	GMW3044 9K96/24 (Blue)	30653	188	
11609421	GMW3359	30214	182	
11609760	GMW3044 6K96/48N	30229	103	
11610266	GMW3044 BL 240/120 G	30603 30643	179	
11610511	GMW3044 9K96/24 N	30265 30267	165	
11610541	GMW3359	30628	169	
11611044	GMW3359	30256	182	
11611689	GMW3044 9K96/24 (Silver)	30448 30506	165	
92139199	GMW3044 8K240/120X	30708	176	
HIGH-RETENTION				
11546824	GMW3359	68309	169	
11546948	GMW3044 9K96/24 (Silver)	71503	165	
11547467	GMW3044 6K96/48N	68130	103	
11549163	GMW3044 6K96/48N	68120	224	
11549164	GMW3044 9K96/24	68121	188	
11549274	GMW3044 9K96/24 (Silver)	68121	165	

GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
11549273	GMW3044 9K96/24 (Silver)	68139	185	
11561954	GMW3179 Code B	68100	105	
11561955	GMW3179 Code B	68101	105	
11602468	N/A	68417	165	
11602646	GMW3044 9K96/24 (Red)	68418	187	
11610729	GMW3044 6K96/48 N	68121	103	
11611045	GMW3179 Code B	68111	105	
11611094	GMW3179 Code B	68126	105	
11603416	GM11603416	68419	169	
SEALING				
11546564	GMW3044 9K 96/24	71065	165	
11546769	GMW3044 9K96/24 (Yellow)	71063	166	
11546877	GMW3044 9K96/24	71076	165	
11548819	GMW3044 9K96/24	71062	165	
11549027	GMW3044	71115	169	
11562114	GMW3044 8K240/120N	71043	241	
11589261	GMW3044 8K240/120N	71026	241	
11609445	GMW3044 8K240/120N	71034	241	
11609697	GMW3200	71044	173	
11610612	GMW3044 8K240/120N	71090	241	
11611654	GMW3359	71074	169	
PLASTIC				
11519030	(Black)	50303	N/A	
11519031	(Natural)	71202	N/A	
11519032	(Black)	71201	N/A	
11547077	(Black)	50329	N/A	
11548932	(Red)	50339	N/A	
11562585	(Natural)	50316	N/A	



GM to Termax

PART NUMBER CROSS REFERENCE



GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
11569700	(Grey)	50317	N/A	
11569810	(Natural)	71204	N/A	
11570756	(Grey)	71205	N/A	
11571006	(Natural)	58001	N/A	
11588635	(Grey)	50306	N/A	
11589089	(Grey)	71200	N/A	
11602732	(Yellow)	50342	N/A	
11602733	(Yellow)	71218	N/A	
11602734	(Grey)	50341	N/A	
11602735	(Grey)	71219	N/A	
11602230	(Natural)	71222	N/A	
11602355	(Green)	50344	N/A	
11602584	(Green) (White)	58008 58009	N/A	
11602687	(Yellow)	58012	N/A	
11603262	(White)	71806	N/A	
11603263	(Green)	71805	N/A	
11603264	(Blue)	71804	N/A	
11611307	(Blue)	50315	N/A	
11611339	(Natural)	71210	N/A	
15076791	(Natural)	50302	N/A	
94748652 (Termax Alternative)	(Green) (White)	58008 58009	N/A	
11603301	(Blue)	58003	N/A	
MAGNET				
22838999	N/A	97606	N/A	
26257885	N/A	97679	N/A	
TETHER				
11603353	(Plain)	71402	N/A	
11603356	GMW3044 9K/96/24 (Silver)	71403	165	

GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
11603357	GMW3044 9K/96/24 (Gold)	71408	166	
11549360	GMW3044 9K/96/24 (Silver)	71405	165	
11549361	GMW3044 9K/96/24 (Silver)	71406	165	
11549362	GMW3044 9K/96/24 (Silver)	71407	165	
11561942	N/A	50200	N/A	
11570576	(Plain)	50205	N/A	
11571233	(Plain)	50204	N/A	
11603359	GMW3044 9K/96/24 (Silver)	71410	165	
11603358	GMW3044 9K/96/24 (Silver)	71411	165	
11603473	GMW3044 9K/96/24 (Silver)	1007036	165	
11611258	N/A	50208	N/A	
11603354	(Plain)	71400	165	
11603355	(Plain)	71401	165	
U&J NUTS				
11508120	GM 7111M	11043	118	
26675036	GMW3044 9K/96/24	26014	166	
92139163	GMW3044 8K240/120X	71072	176	
92139215	GMW3359 Code B	71072	169	
WIRE, CABLE & TUBE CLIPS				
11546903	GMW3359	72102	169	
11546916	GM3359 (Green)	72103	190	
11547368	GMW3044 9K 96/24 (Silver)	72103	165	
11547446	GMW3359	72104	164	
11547863	GMW4205	72107	164	
11548475	GMW3044 9K 96/24	72104	166	
11549135	GMW3044 9K 96/24 (Yellow)	72104	168	



GM to Termax

PART NUMBER CROSS REFERENCE



GM Part Number	GM Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
11574625	GMW3359	72106	164	
11588861	GM6046M 18-T 366	71025	N/A	N/A
11611838	GMW3359	72101	169	
90007318	GM4345M 3D72/48	72016	N/A	
SPECIALTY				
15005473	N/A	32117	N/A	
15046306	GM4345 9D 168/96	30242	185	
11508192	GM 4435-M	25320	N/A	N/A
11547004	N/A	69001	N/A	
11547024	GMW4700 Type B	71108	212	
11547025	GMW4700 Type B	71110	212	
11547026	GMW4700 Type B	71107	212	
11547027	GMW4700 Type B	71109	212	
11547517	GMW4700	71113	212	
11562300	GMW3044 8K240/120G	30242	179	
11601836	GMW15702 (Blue)	71801	214	
11602253	GMW15702	71807	N/A	
11602467	(Natural)	005742	N/A	
11609857	GMW3044 8K144/72N	71017	N/A	
11611623	GMW3359	71100	189	
11612108	GMW3359	69002	140	
11612125	GMW3359	71103	189	
16651848	GM4435 Code B	30239	105	
22739732	N/A	50402	N/A	
92139118	GMW6173M (Silver)	71088	114	



Tesla to Termax

PART NUMBER CROSS REFERENCE










Tesla Part Number	Termax Part Number	Photo
U-BASED		
012.23020.000	30447	
1007818-00-A	30603	
1008245-00-A	30265	
1011978-00-A	30710	
1018220-00-A	30506	
1031407-00-A	30505	
1046116-00-A	26012	
1056967-00-A	30450	
1062986-00-A	26015	
1088048-00-A	30259	
1112238-00-A	30600	
1115346-00-A	30267	
1304178-00-A	30229	
1450798-00-B	30255	
HIGH-RETENTION		
1013811-00-A	68304	
1459120-00-A	68133	
SEALING		
1011685-00-A	71089	
1110167-00-A	71117	
1054381-00-A	71063	
PLASTIC		
1024242-00-A	50317	
1062645-00-A	58003	
1100849-00-A	58001	
1142766-00-A	50320	
X10012700XX	50321	



Tesla to Termax

PART NUMBER CROSS REFERENCE



Tesla Part Number	Termax Part Number	Photo
TETHER		
AG151209-A	50204	
1090272-00-B	50204	
1127466-00-B	71412	
1131795-00-C	50223	
U&J NUTS		
11087898-00-B	01693	
SPECIALTY		
1052755-00-A	69002	
1084482-00-A	68091	



VW to Termax

PART NUMBER CROSS REFERENCE



VW Part Number	VW Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
1J0.863.265	N/A	26018	N/A	
1J0.863.265	OFL-T650	26019	165	
1J0.880.288	OFL-T650	26009	199	
1K0.867.388	OFL-B111	26016	226	
1K0.867.388.A	OFL-T630	26016	197	
1K0.880.288.A	OFL-B100	26005	225	
4A0.867.276.B	OFL-T602	26000	200	
4A0.867.276.B	OFL-T647	26000	198	
4A0.867.276	OFL-T630	26012	197	
4A0.867.276.A	OFL-T602	26015	200	
5G0.867.276	OFL-T630 (Silver)	26000	197	
5G0.867.276.B	OFL-T630	26001	197	
5G0.867.289.A	OFL-T630	26022	197	
5G0.867.633	OFL-T630	26020	197	
5N0.867.190	OFL-T630	26003	197	
5P8.807.180	OFL-T602	26004	200	
5P8.807.180.A	OFL-T602	26008	200	
6N0.867.190.A	OFL-B110	26003	217	
6Q0.853.147	N/A	50800	N/A	
8P0.867.276	OFL-T602 (Silver)	26002	200	
8Z0.867.276	OFL-T300	26001	218	
N.906.988	N/A	26013	N/A	
N.906.988.01	OFL-B111	26013	226	
N.104.870	N/A	26014	N/A	
N.104.870.01	OFL-B110	26014	217	
WHT.006.970	OFL-T330 (Black)	26017	220	
N/A	OFL-C342	26010	211	
N/A	OFL-B110	26011	217	





















VW to Termax

PART NUMBER CROSS REFERENCE



VW Part Number	VW Finish/Material Specification	Termax Part Number	Termax Finish Code	Photo
N/A	OFL-T650	26006	165	
N.104.870	N/A	26024	N/A	

Rivian Part Number	Termax Part Number	Photo
SC00004326	30450	
SC00004339	71216	
SC00004362	71142	
SC00004363	71501	
SC00004364	58009	
SC00005250	71226 REV B	
SC00005256	30603	
SC00005323	30645	
SC00005410	30501	
SC00005451	30643	
SC00005803	72107	
SC00006302	50321	
SC00006390	1007101	
SC00006437	71225	
SC00006453	70012	
SC00006454	70011	
TBD	50316	
TBD	01691	

NOTES

NOTES



Engineering & Design

- Cutting Edge Engineering Design Center
- In-House Prototype Lab
- Dynamic Capabilities to Integrate Metal, Rubber & Plastic Components
- Complete CAD Compliant Systems and Fully Compliant Data Transition Management
- Quick Turnaround Times for Concepts & Engineering Support

Manufacturing

Molding & Stamping:

- 350 Molding Machine
- 34 Robots
- 25 Automated Insert Molding Cells
- 40 Multi Slides
- 85 Punch Presses
- 9 Multi-Slides
- 12 NC Four-Slides

Automation:

- 105 Automation Assembly Machines
- 25 Vision Inspection Machines
- 61 Mechanical Sorting Machines





STRONG INDUSTRIAL ROOTS & RECOGNIZED EXPERTISE

A division of the LISI Group, LISI AUTOMOTIVE is a multi-specialist supplier for :

- Safety-critical fasteners & components
- Engineered fastening solutions designed to facilitate automotive assembly operations.

Its expertise in steel and plastic materials, and mastery of multiple manufacturing technologies, means LISI AUTOMOTIVE can offer you ground-breaking solutions, specially tailored to your needs.

Recognized as a reliable, innovative and expert supplier, LISI AUTOMOTIVE contributes to the development of tomorrow's vehicles by helping to improve the safety, comfort, environmental impact and ease of assembly of the products manufactured by its clients.

From its origins in 1777, LISI GROUP and LISI AUTOMOTIVE have evolved, improved and innovated in order to serve changing market needs, and continue to pursue objectives of ongoing improvement in industrial performance, quality & safety, delivery reliability and effective R&D, in harmony with respect for the environment, people and individual customer needs.

SECURITY. QUALITY. SIMPLICITY.


With over 200 years of experience, we offer a complete range of fastening solutions for OEMs, automakers and industrial vehicles.


Our automotive quality standards meet the needs of many automotive and industrial vehicle applications, such as:

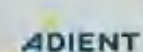
- Engine and gearbox
- Seat mechanism
- Passenger safety systems
- Hydraulic brake systems
- Body in white
- Chassis, axles, steering and suspension
- Wheels
- Interior and exterior trim


Thanks to our multi-technology expertise in fastening, we develop and/or offer the most suitable solutions for each customer's problem.


THEY TRUST US

 Award for « **Best Customer Attitude** » by Korean parts manufacturer Mando.

 Award for « **Best Supplier of 2017** » by German parts manufacturer ZF.

 Award for « **Best Performance of the year** » by US parts manufacturer Adient.

 St-Florent-sur-Cher (FR) Puenlabrads (SP) plants won the « **Factory Supplier** » award by French manufacturer PSA.

 General Motors distinguishes LISI AUTOMOTIVE factories with its **Supplier Quality Excellence** (based on 2017 KPI) : Lake Zurich (TX), Heidelberg and Mellrichstadt (CS)

There is nothing we can't attach to a vehicle!

...however, if you find something that cannot, we would like to be your engineering solution!

