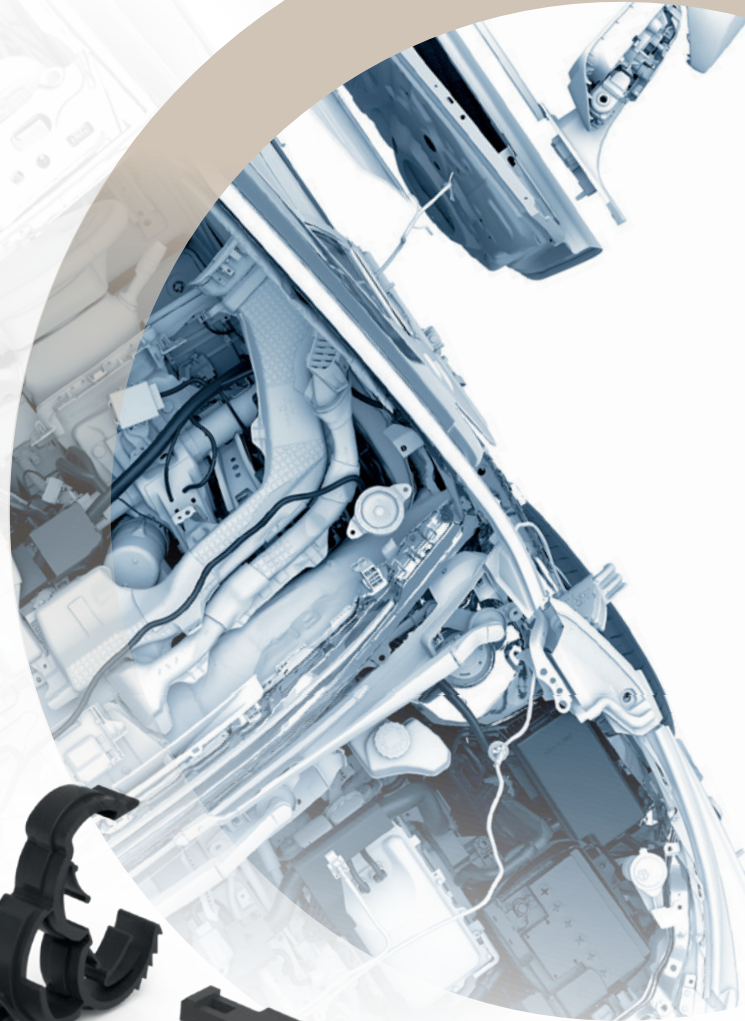


AUTOMOTIVE NORTH AMERICA

PREFERRED PRODUCTS CATALOG





Dear Partner,

I am happy to share with you our new ARaymond Catalog North America!

While our catalog may be new, our trusted knowhow, engineered products and commitment to you, our customers, has not changed. Our focus is on design, optimized manufacturing, and delivery of high quality clips and fixations to compliment your assembly architectures.

*With our century and a half of experience and renowned technological expertise to draw on, ARaymond is a global leader in assembly and fastening solutions for the automotive industry. We are working to create value for our customers around the globe, which we consider one of our highest priorities. **Our 5th generation owned family business is focused on the future** and helping shape the North America fastening automotive market. Innovation is in our company's DNA and we deploy this mindset to the products we offer, manufacturing processes, customer services and our leadership teams.*

As we innovate, ARaymond creates optimized products in our 26 locations using the specific advantages of metal, plastic or the combination of each to bring value-add while reducing assembly costs and increasing productivity. Our products are fastening millions of vehicles around the world. Applications include interior and exterior trim, IP, powertrain, electrical distribution, thermal management, fluid handling, electric and autonomous driving vehicles.

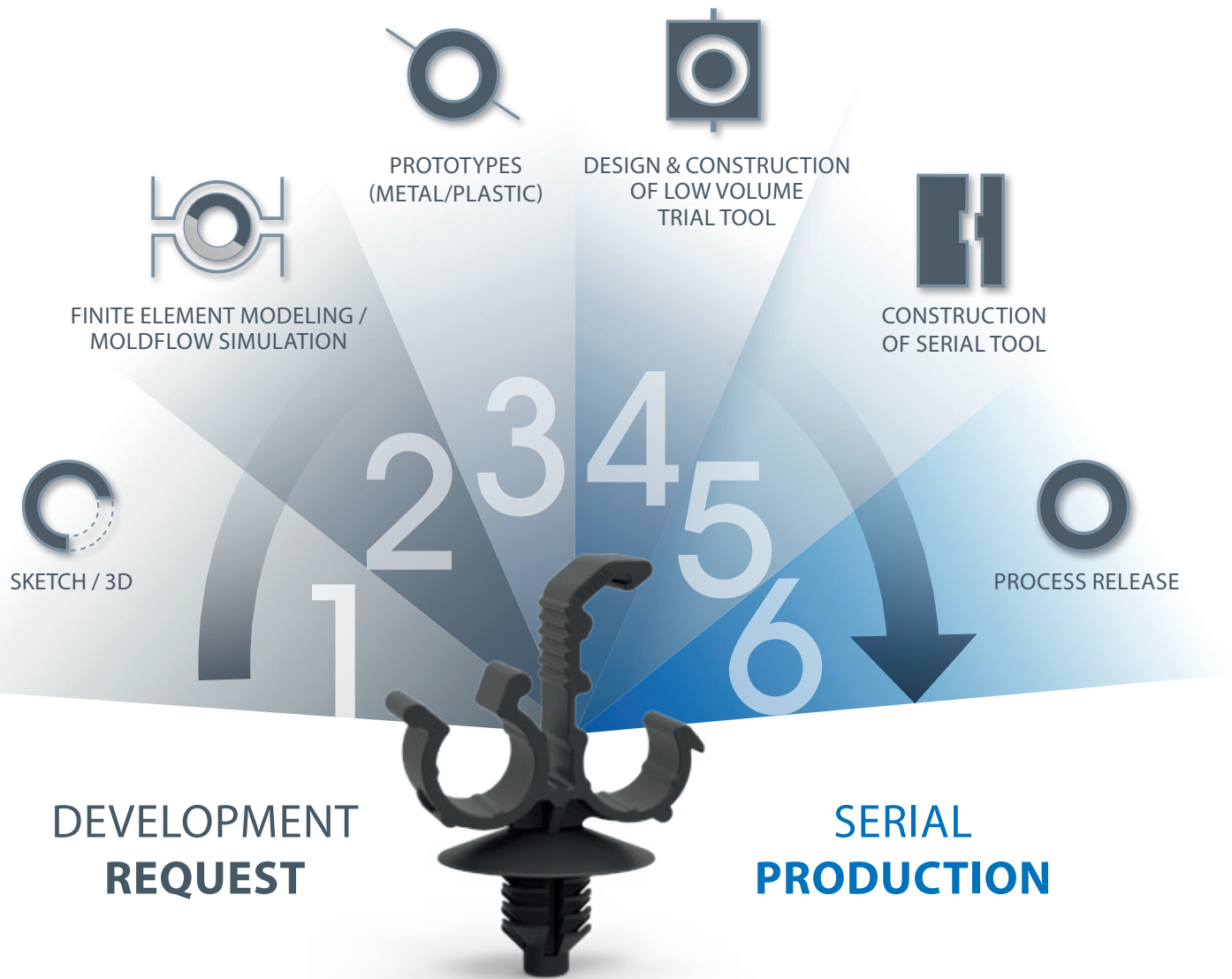
Thank you to all of our customers worldwide who have trusted in ARaymond for more than 150 years for their fastening and assembly solutions. From all of us on the ARaymond North American team, I am pleased to share our new and refreshed product catalog. We are dedicated to working with you in a collaborative manor to solve and develop the next solution for you!

Ryan AYMEN

Director of sales

ARaymond North America

ARAYMOND - EXPERT IN THE COMPLETE PRODUCT DEVELOPMENT PROCESS



At ARaymond we capitalize on a complete spectrum of capabilities in the product development life cycle to design innovative assembly solutions.

By understanding your needs and taking into account your manufacturing processes and methods, our experts are able to design personalized assembly solutions for your specific needs. We offer automation and assembly-line analysis, as well as process development as part of our comprehensive strategic approach for improving customer productivity.

In the product development process, digital simulation has been fully integrated for non-linear and dynamic mechanics, rheology, and thermal and fluid transfer treatment.

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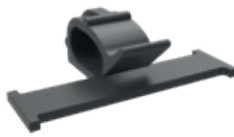
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 PANEL EDGE	 STUD	 WIRE TO WIRE	 SPECIFIC
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 PANEL EDGE	 STUD	 WIRE TO WIRE	 SPECIFIC
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			 PAGE 63
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CONTACT US See p. 144

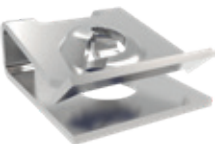


NOT APPLICABLE

SELECTION GUIDE 2/2

PANEL FASTENERS	 ROUND HOLE	 OVAL & OBLONG HOLE
PANEL CLIPS U-clips, S-clips		
PANEL PINS push-pins	 PAGE 72	
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 PANEL EDGE	 STUD	 WIRE TO WIRE	 SPECIFIC
 PAGE 66	N/A	N/A	
N/A		N/A	
N/A	N/A	N/A	
 PAGE 78		N/A	 PAGE 84

 PANEL EDGE	 STUD	 WIRE TO WIRE	 SPECIFIC
N/A	 PAGE 88	N/A	 PAGE 92
 PAGE 104	N/A	N/A	

 PANEL EDGE	 STUD	 WIRE TO WIRE	 SPECIFIC
 PAGE 121	N/A	N/A	
N/A	N/A	N/A	



CONTACT US See p. 144



NOT APPLICABLE

METAL AND PLASTIC EXPERTISE

METAL TRANSFORMATION

At ARaymond we manage all major metal transformation processes—cutting, bending and stamping. We work with spring steel, stainless steel, brass and copper in thicknesses of 0.2 to 6.35 mm, and can provide single or multi-layer surface treatments (Zn, Zn-Ni, Zn-Fe, etc.). We have in-house capabilities to handle the entire process from design to production, surface treatment and quality control and we have the capacity to produce up to 140 million pieces per year for a specific reference.



PLASTIC INJECTION

The ARaymond facilities are equipped with late model, standard and bi-injection molding machines with the capability to run less than 10 second cycle times and manage 128-cavity molds. Our bi-injection and overmolding processes are compatible with over 300 thermoplastic materials (polyamide, polyethylene, polyvinyl acetates, polypropylenes and more).

For applications calling for tracking, RFID (Radio Frequency Identification) tags can be incorporated directly into the product.

Bi-injected cable strap

Excellent sealing performance to protect against water ingress for round and oval holes.



ASSEMBLY

ARaymond's plants worldwide handle all modes of assembly: manual, semi-automated and cycle-time optimized fully automated assembly. Our many years of experience have made us experts in designing and building semi and fully automatic assembly machines and devices.





Airbag clip

High retention performance side curtain airbag fastening and retention for safety of all passengers. Easy pre-assembly into the airbag module with flexible and adaptive legs for a simple manual assembly into the car body.



Overmolded tape-on clip with integrated metal starwasher

For mounting on plastic or plain metal studs. Repeatable high assembly quality preventing squeaks and rattles.



Multi-material bracket with ultrasonic welded plastic interface and crimped nut

An assembly that combines the best of each material: strength for the metal bracket, and design freedom for the plastic receiver. The final assembly is managed with a tool designed by ARaymond to improve assembly ergonomics.



LIGHTWEIGHT ASSEMBLY AND SOLUTIONS FOR LIGHTWEIGHT COMPONENTS

ARaymond's engineers collaborate with our customers to reduce complexity, integrate and combine features, or use alternative materials to reduce mass throughout the vehicle. We have developed innovative designs and assembly solutions for lightweight applications in order to reduce weight while delivering the required level of performance.

OPTIMIZED DESIGN

With thin sheet metal and integrated features



50% lighter

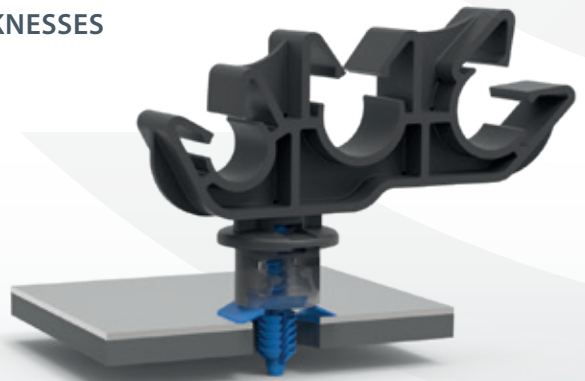


ADAPTS TO A RANGE OF PANEL THICKNESSES

For composite interfaces



For any lightweight interface



SOLUTIONS

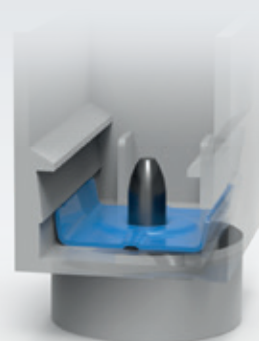
**REDUCED
INTERFACE COMPLEXITY**
for casted aluminum parts



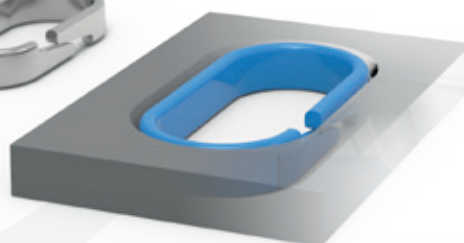
CORROSION PREVENTION
for aluminum parts



LOAD DISTRIBUTION
to prevent damage to
lightweight parts



ANTI-CREEP
for plastic and composite parts



ALTERNATIVE MATERIALS
from metal to plastic





CABLE & TUBE FASTENERS

CABLE & TUBE FASTENERS



Cable straps - Round holep.14-15



Cable straps - Oblong hole..... p.16



Cable straps - Panel edgep.17



Cable straps - Onto threaded studp.18



Cable straps - Adapters - Panel edge - Metal clipping on.....p.19



Cable straps - Single molded - Wire to wirep.20



Single molded swivel clips.....p.21

TAPE-ON CLIPS

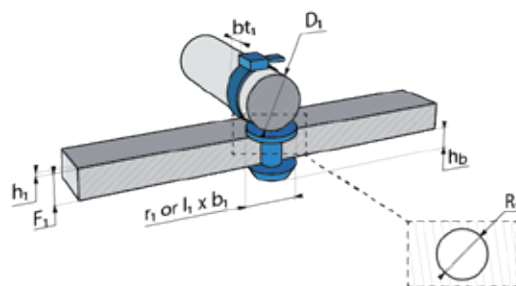
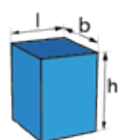
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		Tube holders - Round hole - Multiple housings	p.34-35
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		Tube holders - Onto stud.....	p.40-41
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		Corrugated tube holders - Swivel spacers	p.56

Cable straps

Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Tube or Cable Diameter (D1)	Additional Features
215405		6	11-100	1.5-25	Blind hole
164460		6.1-6.9	0.7-4	1-40	-
164448		6.1-6.9	0.7-4	1-40	-
230346		6.2-6.5	1.25-2	1-15	Bi-injection Waterproof
224699		6.2-6.8	0.6-1.25	1-15	Bi-injection Waterproof
175200		6.2-7.2	0.6-3	1-40	-
019667		6.4-6.6	0.6-2.5	1.5-43	-
200161		6.4-6.6	0.8-8	1.5-43	-

Cable straps

Round hole



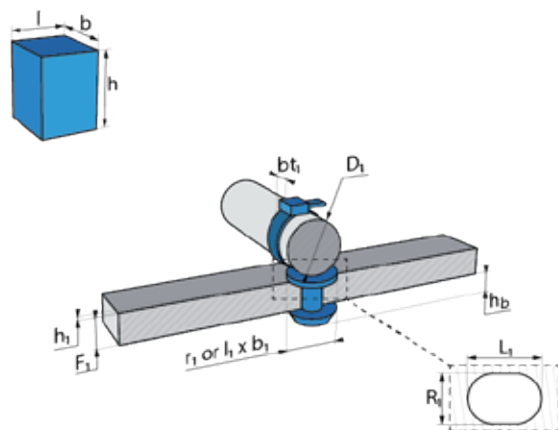
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Tube or Cable Diameter (D1)	Additional Features
213254		7.6-8.4	2-9.5	1-40	-
235765		7.8-8.2	0.6-1.9	1-15	Bi-injection Waterproof
235770		7.8-8.2	1.9-3.2	1-15	Bi-injection Waterproof

**Contact us
for more dimensions
and variants!** See p. 144

Cable straps

Oblong hole



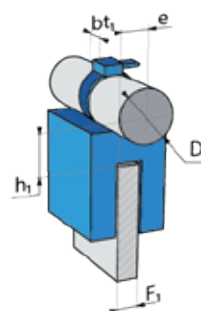
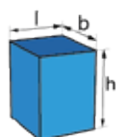
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)	Tube or Cable Diameter (D1)	Additional Features
200600		6.1-6.3	12.1-12.3	0.6-3	1-40	-
219956		6.2	12.2	0.6-3	0.5-25	-
214659		6.2	12.2	0.7-3	1.5-25	-
224721		6.5	12.1-12.9	0.6-1.25	1-45	Bi-injection Waterproof
230347		6.5	12.1-12.9	1.25-2	1-45	Bi-injection Waterproof
235767		6.8-7.2	11.8-12.2	0.6-1.9	1-45	Bi-injection Waterproof
235769		6.8-7.2	11.8-12.2	1.9-3.2	1-45	Bi-injection Waterproof

**Contact us
for more dimensions
and variants!** See p. 144

Cable straps

Panel edge



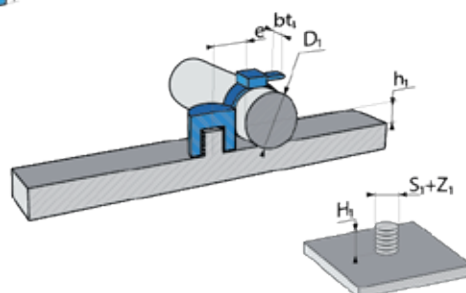
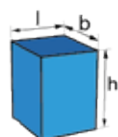
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Tube or Cable Diameter (D1)
082651		1.5-3.5	1.5-43
082652		1.5-3.5	1.5-43
082653		1.5-3.5	1.5-43
210049		1.5-3.5	1.5-45

**Contact us
for more dimensions
and variants!** See p. 144

Cable straps

Onto threaded stud



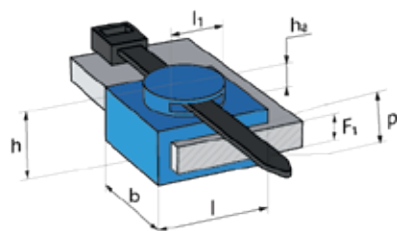
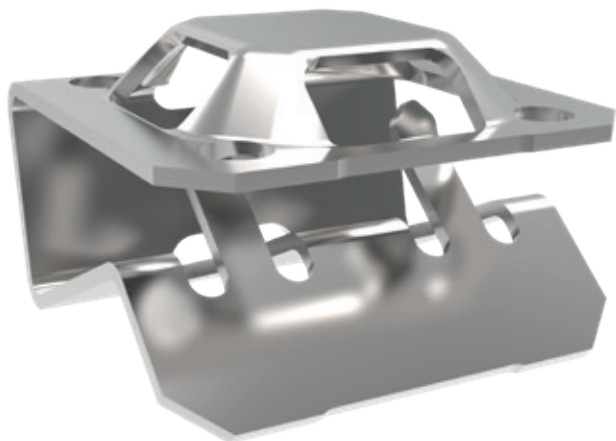
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Stud Diameter (Z1)	Additional Features
164459		1-40	M6	-
202587		2-40	M8	-
018062		2.5-41	M5	-
222339		8-50	T5	Pivoting between components Serviceable
221145		8-50	T5	Pivoting between components Serviceable

**Contact us
for more dimensions
and variants!** See p. 144

Cable straps - Adapters

Panel edge - Metal clipping on



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Height Above Support (ha)	Length (l1)
208738		1.5-4	2.6	5
220737		3-6	2.7	5
020848		8.9-9.1	3.1	5



Ref. 224250



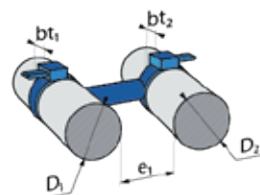
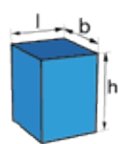
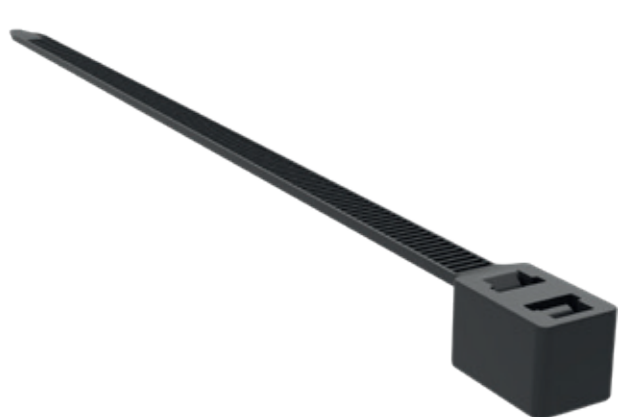
APPLICATION INFORMATION

- Compatible for edge mounting
- To be used in conjunction with cable strap, tape-on feature

**Contact us
for more dimensions
and variants!** See p. 144

Cable straps - Single molded

Wire to wire



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

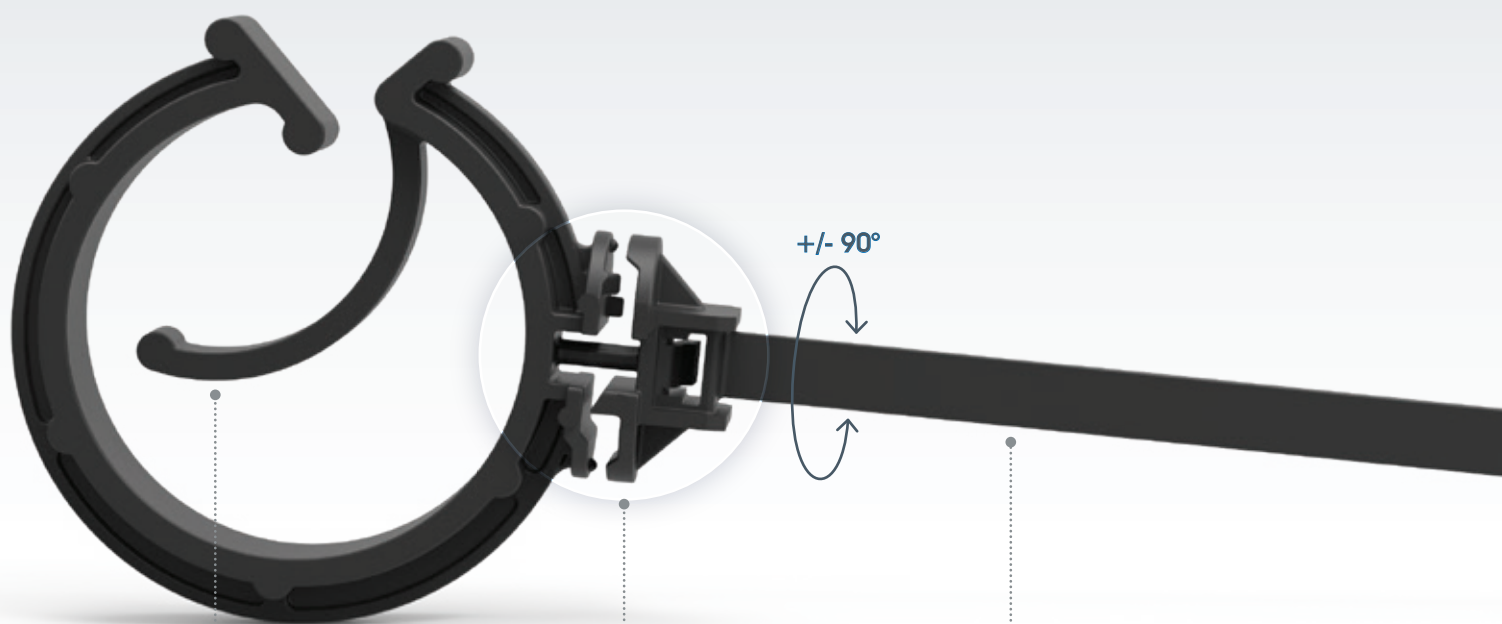
Ref.	Design	Tube or Cable Diameter (D2)	Tube or Cable Diameter (D1)	Additional Features
208596		3-36.5	2-38	Double cable strap
247295		4-50	4-50	Double cable strap One piece rotating
235654		4-6	1-40	One piece rotating
235918		6-10	1-40	One piece rotating
235920		10-17	1-40	One piece rotating
235922		17-27	1-40	One piece rotating
235923		27-40	1-40	One piece rotating

Contact us
for more dimensions
and variants! See p. 144

SINGLE MOLDED SWIVEL CLIPS

OPTIMIZED SOLUTION FOR WIRE HARNESS

Robust, one piece design managing a large range of wire harness to pipe / hose fixing.
This new, innovative solution also has a swivel and a locking function at 90° for easy assembly.



Flexible finger to host a wide diameter range:
Ref. 235923: Ø 27-40 mm
Ref. 235922: Ø 17-27 mm
Ref. 235920: Ø 10-17 mm
Ref. 235918: Ø 6-10 mm
Ref. 235654: Ø 4-6 mm

Swivel and locking 90° in either direction

Cable strap suitable for diameters 1-40 mm



Double Cable Strap
Ref. 247295 - Ø from 1 to 50 mm

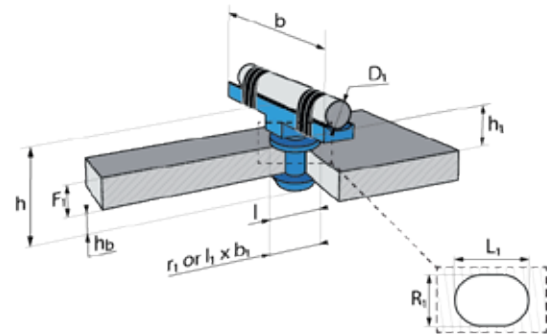




TAPE-ON CLIPS

Tape-on clips

Round & oblong holes



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)
164465		6.1-6.5	-	0.7-4
201662		6.2	12.2	0.6-3
209423		6.3-6.7	-	0.7-4
211640		6.4-6.6	-	0.6-2
016718		6.5-6.7	-	6.5 min.
212459		7.5-8.5	-	0.8-6

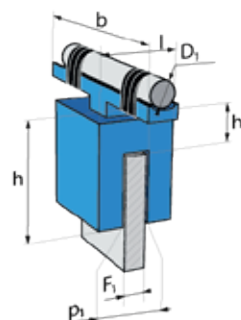
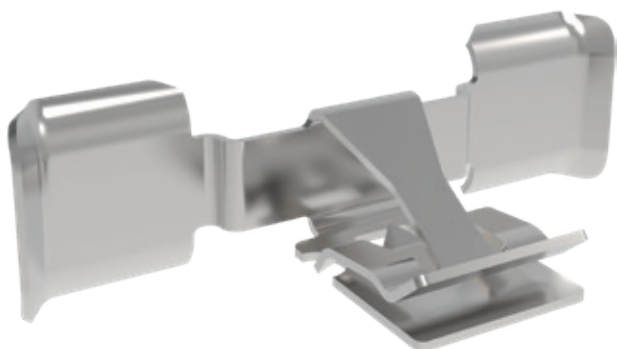
APPLICATION INFORMATION

- Good control of wire harness over tape feature length

**Contact us
for more dimensions
and variants!** See p. 144

Tape-on clips

Panel edge



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)
135240		0.7-2
018372		0.7-2
108192		1-2

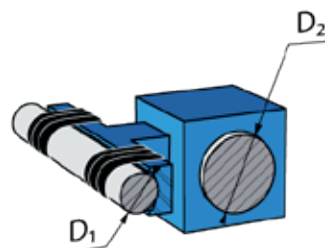
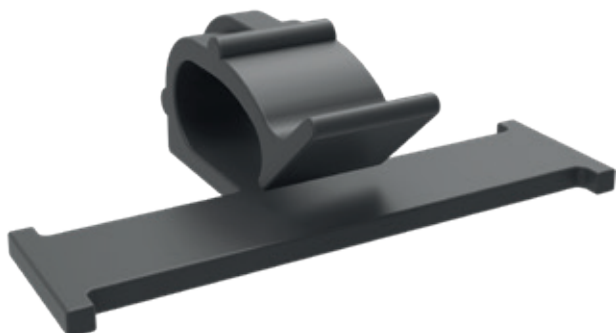
APPLICATION INFORMATION

- Good control of wire harness over tape feature length
- Plastic and metal parts

**Contact us
for more dimensions
and variants!** See p. 144

Tape-on clips with housing

Wire to wire



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D2)
164179		3-4
211322		6 x 12.2
211715		24

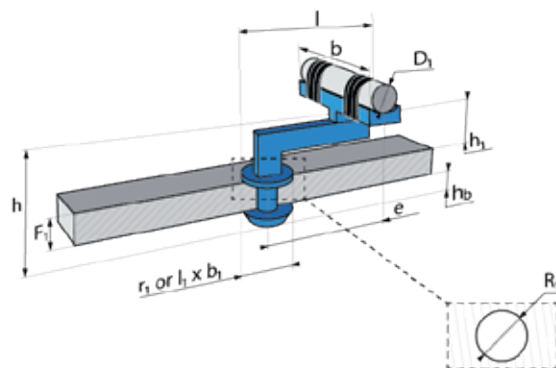
APPLICATION INFORMATION

- Allowing for additional wire or tube support

**Contact us
for more dimensions
and variants!** See p. 144

Tape-on clips with offset

Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Length (L)	Center to Center Distance (e)
164452		6.1-6.5	0.7-4	43	32
164453		6.1-6.5	0.7-4	43	32
201340		6.5	0.8-4	26.5	15
214007		11.8-12.2	7.5-8.5	47.2	32

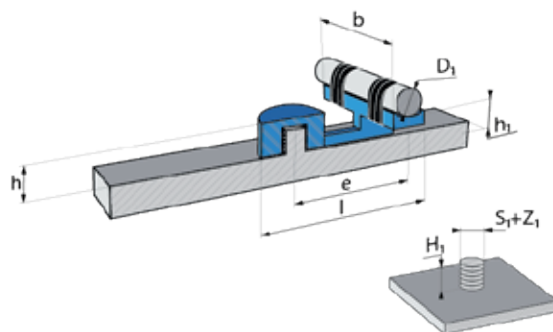
APPLICATION INFORMATION

- To allow off centered wire support
- Oblong options available

**Contact us
for more dimensions
and variants!** See p. 144

Tape-on clips with offset

Onto stud - Threaded



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Center to Center Distance (e)	Stud Height (H1)	Stud Diameter (Z1)
164440		14	-	M6
211321		15	15 min.	M5
211320		19.8	15 min.	M5
211319		26	-	M8
201338		36.5	-	T6
164473		41	-	M6

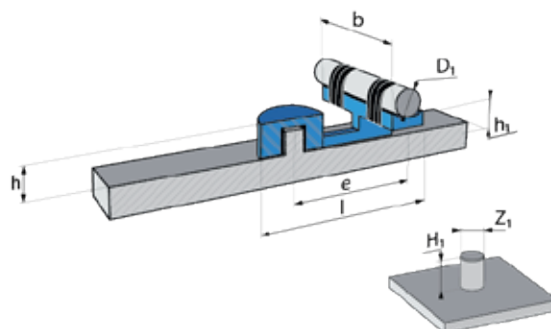
APPLICATION INFORMATION

- To allow off centered wire support

**Contact us
for more dimensions
and variants!** See p. 144

Tape-on clips with offset

Onto stud - Smooth



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Center to Center Distance (e)	Stud Diameter (Z1)	Stud Height (H1)
233291		13	6.2	11.4
240711		13	8.07	10

APPLICATION INFORMATION

- To allow off centered wire support

**Contact us
for more dimensions
and variants!** See p. 144

Specific tape-on clips

Easy approach for securing cables



*For more information,
please contact us.
We have a solution for you.*

ARaymond's extensive range of tape-on clips offers an easy approach for securing cables, wires or hoses. They are available with or without offsets and wire housings to adapt to hole, stud, edge, and virtually all other packaging and mounting situations.

These tape-on clips are easy to install without the need for a tool.

Tape-on clips are designed to hold cables or pipes in place with a tape binding.



Ref. 213020



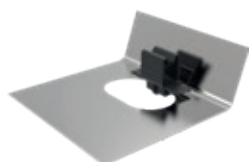
Ref. 211323



Ref. 164274



Ref. 175187



Ref. 082047



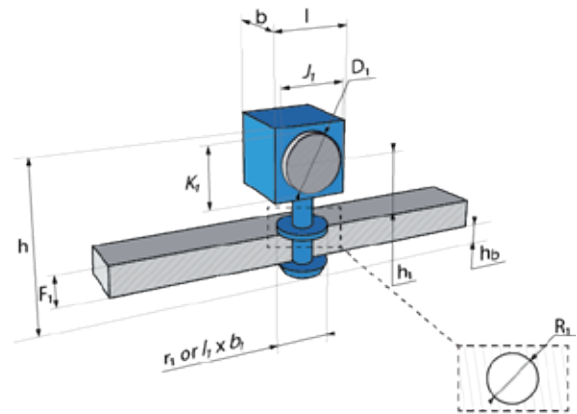
Ref. 201581



TUBE HOLDERS

Tube holders

Round hole - Single housing



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
175001		5	8	0.8-1.5	-
163682		5-6.85	7-7.3	2.5-6.5	-
164745		5.19-5.28	6.1-6.6	1.25-1.85	-
161701		6	5.75-6.25	0.5-1.2	-
055286		6-12	6.35-6.7	0.5-3	Self-closing
175064		7.5-8	6.3	0.8-2	Heat stabilized
019554		8-11	7-7.4	1-13	-
213875		10-14	6.5-6.7	2.5-3.5	-

Tube holders

Round hole - Single housing



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
175043		11-13	6.5	1-1.5	Heat stabilized
055473		11-18	6.35-6.7	0.5-3	Self-closing
017578		11.5-13	6.5-6.7	1-6	Manual simple lock
221320		12.45-12.95	5.8-6.2	2.3-2.7	Bi-injection Manual simple lock
205626		13-15	8.08-8.3	1.4-2.7	Manual simple lock
201700		13-15	8.1-8.3	1-1.5	Manual simple lock
236090		14.55-14.85	6.2-6.8	0.7-4	Heat stabilized
226077		14.55-14.85	8.7-9.2	1.55-1.85	-
017856		15-16.5	6.5-6.7	1-6	-
106122		15.8-18.5	8.1-8.3	0.7-2.5	Manual simple lock
018776		16	6.5-6.7	1.5-6	-

Tube holders

Round hole - Single housing



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
017737		16-18.5	6.5-6.7	1-6	Manual simple lock
210937		19-23	6.5-6.7	0.8-2.5	Manual adjustable lock
055172		20-25.4	6.5	1.5-4	-
233857		23	6.5-6.7	0.8-6	Manual adjustable lock

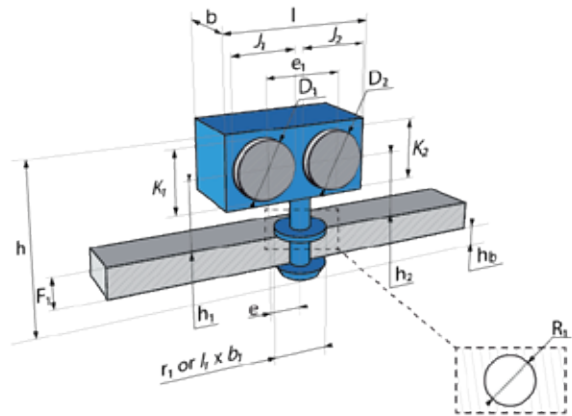
APPLICATION INFORMATION

- To fix one tube/pipe to a panel
- Heat stabilized, bi-injection and other options available
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Tube holders

Round hole - Multiple housings

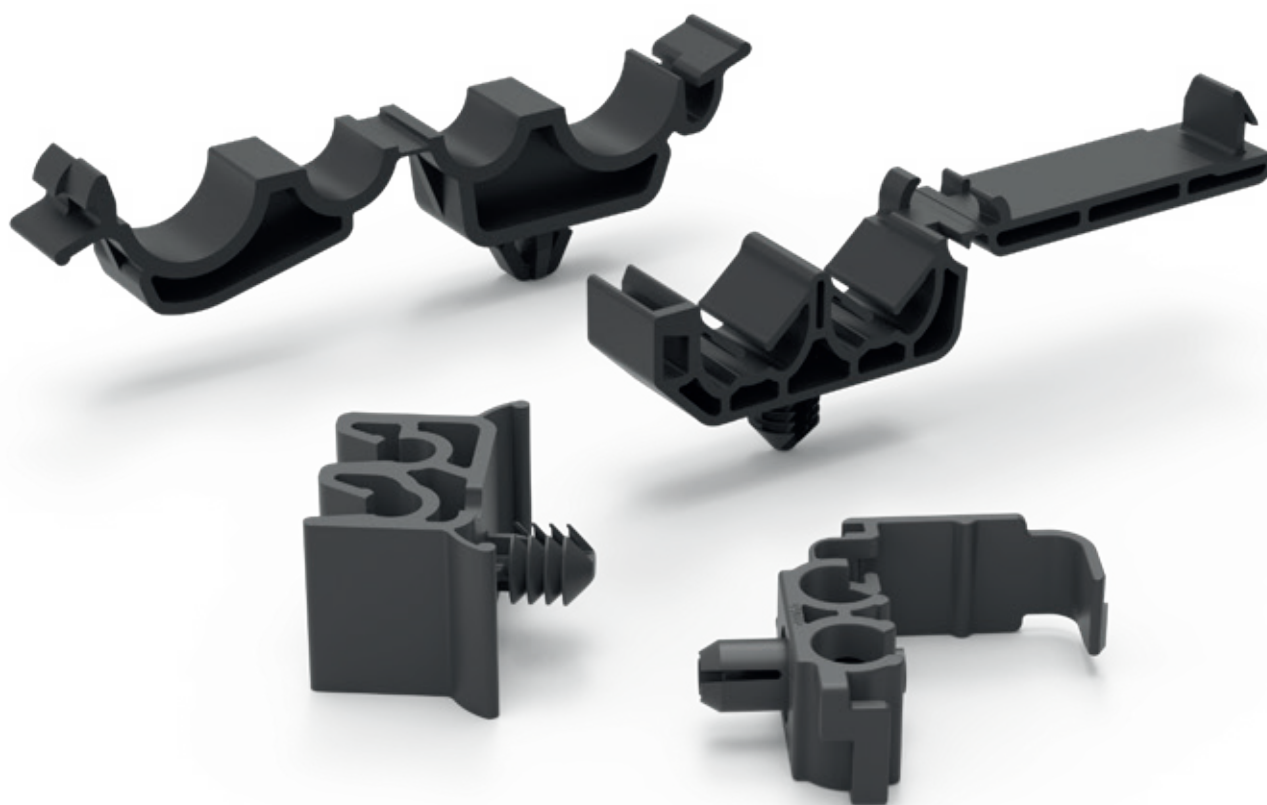


All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
016608		4-6	4-6	6.5-6.7	0.8-4	-
229022		5.19-5.28	5.19-5.28	6.1-6.6	1.25-1.85	-
226106		6.5-7.1	6.5-7.1	6.5-6.7	0.7-4	Manual simple lock
016049		7.5-7.8	7.5-7.8	6-6.2	0.7-2	-
221367		8-12.7	9.77-10.07	8.7-9.2	1.45-1.95	-
164432		9.97-12.7	9.97-12.7	8.7-9.2	2.75-3.25	Manual simple lock Conductive material Heat stabilized
239525		9.97-12.7	9.97-12.7	8.7-9.2	2.75-3.25	Manual simple lock
108519		16	10	8.08-8.3	1.5	Manual simple lock

Tube holders

Round hole - Multiple housings



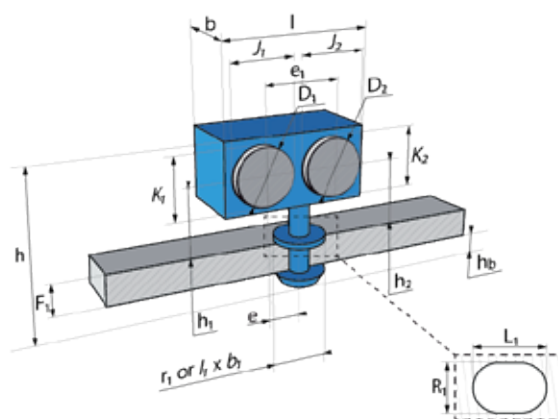
APPLICATION INFORMATION

- To fix one or more tube/pipe to a panel
- Heat stabilized, conductive materials and other options available
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Tube holders

Oblong hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)	Additional Features
206902		2-8	2	6.2	12.2	0.7-4	-
221391		6.2-6.8	4.8	7-7.4	12.2-12.6	3-3.3	-
215097		7.5-8	-	6.3-6.7	12.3-12.7	1.8-2.2	-
056172		8-10	-	6.2	12.2	2-3	-
065169		12.5-13.5	12.5-13.5	6.2	12.2	0.7-2.5	Manual simple lock
108500		13.5	-	6.2-6.4	12.2-12.4	0.7-2	Heat stabilized Manual simple lock
209780		16	-	8.1-8.3	10.6-10.8	2	Manual adjustable lock

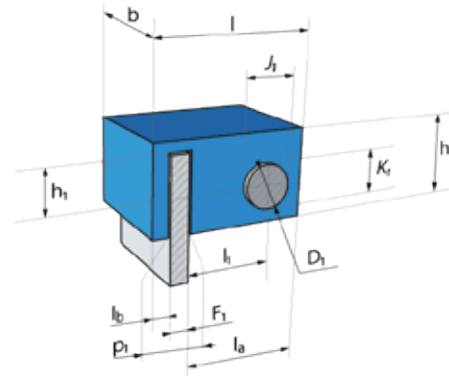
APPLICATION INFORMATION

- To fix one or more tube/pipe to a panel
- Resistant to water run-off, heat stabilized and other features available
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Tube holders

Panel edge



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

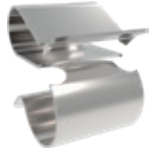
Ref.	Design	Tube or Cable Diameter (D1)	Panel Thickness (F1)
136760		2.2-2.4	0.5-1.1
200263		2.5-10	1-2
020654		2.9-3.1	0.5-2.5
015160		3-7	1.7-1.9
137603		3.05-3.3	0.79-2.18
013872		3.2-3.7	2-2.5
136893		3.84-4.09	1.52-2.26
201229		4	0.5-2

Tube holders

Panel edge



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Panel Thickness (F1)
017862		4-10	2-4
242076		5-6.3	1.5-2.5
244091		5-7	1.5-2.1
055128		6-9	7-12
017783		7-13	0.8-3
242892		7.85-8.15	0.8-1.4
222360		7.9-8.1	2-2.25
136998		8.45	1.9-2.1
230401		9.8-10.2	2.9-3.1
244281		14.15-14.4	4.34-6.35
137853		14.15-14.4	4.34-6.35

Tube holders

Panel edge



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Panel Thickness (F1)
242584		21-25	1.8-2.2

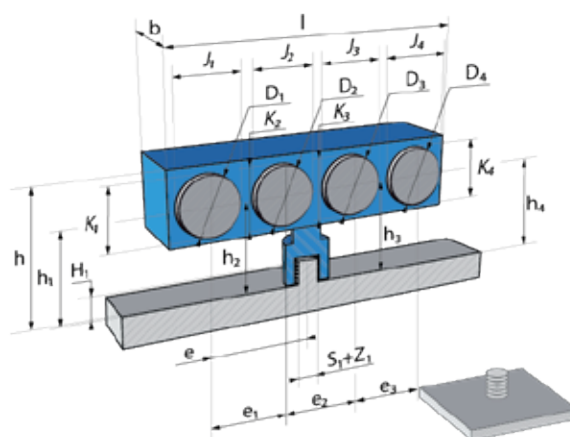
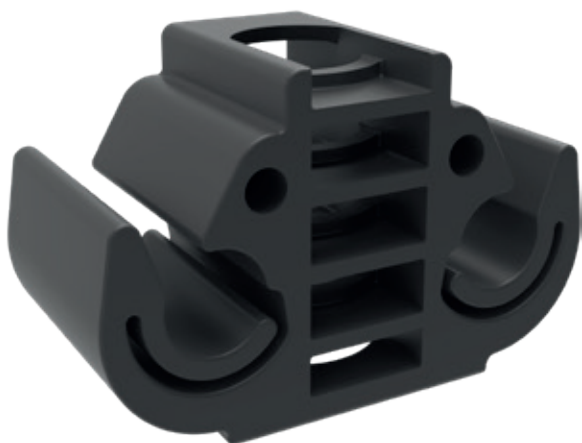
APPLICATION INFORMATION

- To fix one or more tube/pipe to a panel
- Suitable for high temperature performance requirements such as engine or exhaust application area
- Covering most common tube and pipe diameters

**Contact us
for more dimensions
and variants!** See p. 144

Tube holders

Onto stud



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Tube or Cable Diameter (D3)	Tube or Cable Diameter (D4)	Screw Specification (S1)	Additional Features
019579		4.75	4.75	-	-	M6 x 1	-
108447		4.8	-	-	-	T5 Stud	Manual simple lock
108421		4.8	4.8	-	-	T5 Stud	Bi-injection Manual simple lock
054799		4.8-8	-	-	-	M6 x 1	-
055387		4.8-8	-	-	-	T5 Stud	-
223598		5-5.2	10.2-10.4	-	-	T5 Stud	Heat stabilized
164731		5.19-5.28	-	-	-	M5 x 0.80	-
235802		5.19-5.28	-	-	-	M8 x 1.25	Nut optional Anti-creep

Tube holders

Onto stud



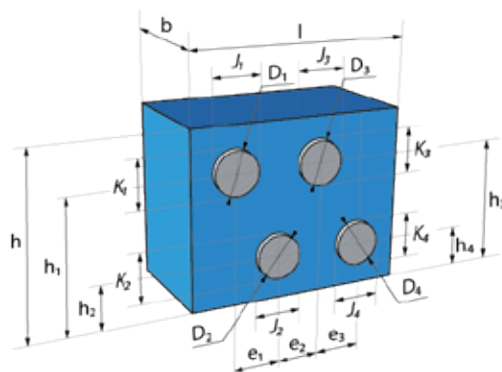
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Tube or Cable Diameter (D3)	Tube or Cable Diameter (D4)	Screw Specification (S1)	Additional Features
247531		5.19-5.28	-	-	-	M8 x 1.25	Nut required Anti-creep
164737		5.19-5.28	5.19-5.28	5.19-5.28	-	M5 x 0.80	-
055359		8	10	-	-	T5 Stud	-
204174		8-10	8-10	5	-	T5 Stud	-
108445		8-11	-	-	-	T5 Stud	Manual simple lock
206331		8-8.5	8-8.5	8-8.5	-	T5 Stud	-
242075		8.8	8.8	12.5	-	T5 Stud	Bi-injection Conductive material
222078		15.2-16	9.9-10.4	15.2-16	6.5	M6 x 1	-

APPLICATION INFORMATION

- To fix one or more tube/pipe on a stud
- Heat stabilized, bi-injection, anti-creep and other features available
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Tube or Cable Diameter (D3)	Tube or Cable Diameter (D4)
056678		4.7-5.05	4.7-5.05	4.7-5.05	4.7-5.05
164449		4.76-6.35	5.2	5.2	4.76-6.35
110015		5	5	5	5
164743		5.19-5.28	5.19-5.28	-	-
164742		5.19-5.28	5.19-5.28	5.19-5.28	5.19-5.28
012440		8	8	-	-
020849		8	12	-	-
054358		8-9	8-9	-	-

Tube holders

Spacers



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Tube or Cable Diameter (D3)	Tube or Cable Diameter (D4)
018900		12	12	-	-
018681		25	25	-	-

APPLICATION INFORMATION

- To maintain an offset between two or more tubes/pipes
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Specific tube holders

For custom solutions



*For more information,
please contact us.
We have a solution for you.*

ARaymond is an engineering company with more than 150 years of experience in providing value added solutions. We design fasteners that adapt to your specific requirements, architecture, and packaging constraints.

The unique tube holder pictured above was designed with an automatic locking feature and adapts to a M6 threaded hole.



Ref. 232027



Ref. 231227



Ref. 221308



Ref. 218085



Ref. 020083



Ref. 015330



Ref. 201053

► FOR M6 THREADED HOLE

APPLICATION INFORMATION

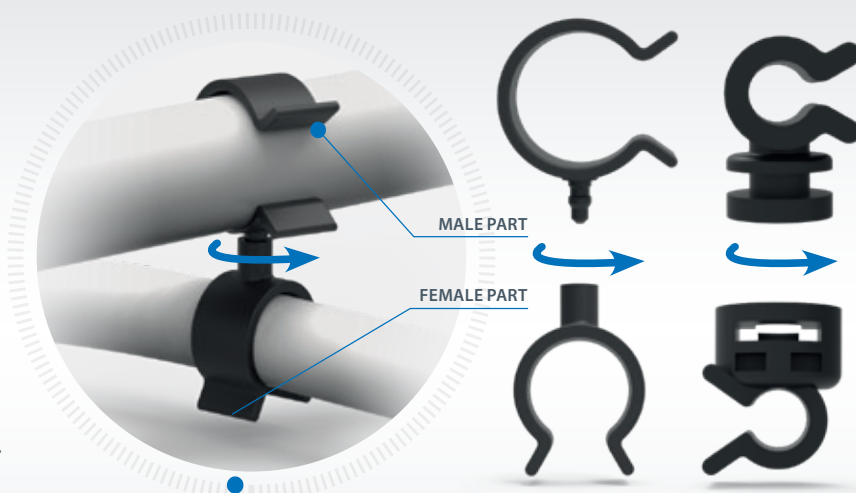
- Compatible with all common mounting strategies (hole, stud, or edge)
- To fix one or more tube/wire to a panel
- Plastic and spring steel combinations
- Available with the modular swivel assembly fastener range

MODULAR TUBE, PIPE & HARNESS CLIPS

A WIDE PRODUCT RANGE ▶ Mix and match to create your ideal solution.

Extensive range of swivel clips with more than 5.000 individual components offering an almost infinite number of **multidirectional** combinations of fastening solutions. The ARaymond™ modular harness clips are supplied pre-assembled and offer a **great variety in terms of diameters and design** configurations. The swivel function enables multidirectional cable mounting.

The ARaymond™ modular harness clips consist of female and male parts that are combined to become tailor-made fasteners.



▶ *Two standard systems to fit OEM's specifications*

FIXING SOLUTIONS

Cable straps



Tape-on clips



Corrugated hose clips

▶ LOCKING LID



Cable & tube clips

▶ ADJUSTABLE LOCKING LID



CABLE OR WIRE FIXINGS



▶ ADJUSTABLE LOCKING LID



▶ LOCKING LID



▶ VARIABLE LOCKING STRAP



▶ CLOSING WITH FLEXIBLE LID



▶ OPEN WITH FLEXIBLE FINGER

BODY IN WHITE OR PANEL FIXING



▶ STUD MOUNT M6



▶ EDGE



▶ FIRTREE ROUND



▶ ANCHOR FOOT

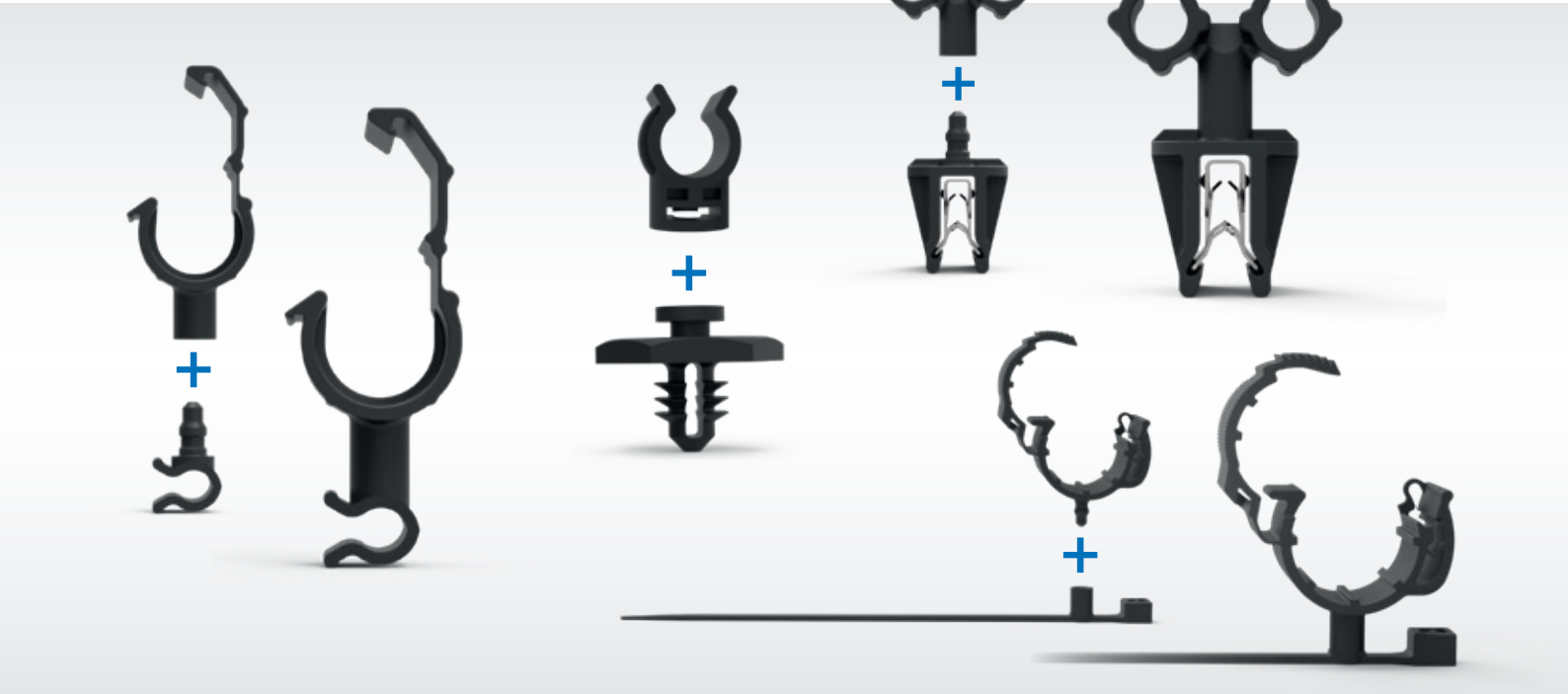


▶ THREADED HOLE



▶ OVAL & OBLONG

For more information, please contact us. We have a solution for you.



FIXING COMBINATIONS

One fixing



STRAIGHT

▶ 90° TURN

▶ 45° TURN

Multiple fixings



▶ ONE WAY

**TWO WAYS
STRAIGHT**

▶ TWO WAYS
90° TURN

▶ THREE WAYS

▶ FOUR WAYS

SINGLE OR MULTIPLE CABLE HOUSINGS

Single



Multiple



SPACERS

A large variety of different stand off dimensions available on request.



▶ MALE / FEMALE END



▶ MALE / FEMALE END
+ ANGLED SPACER



▶ MALE / MALE ENDS



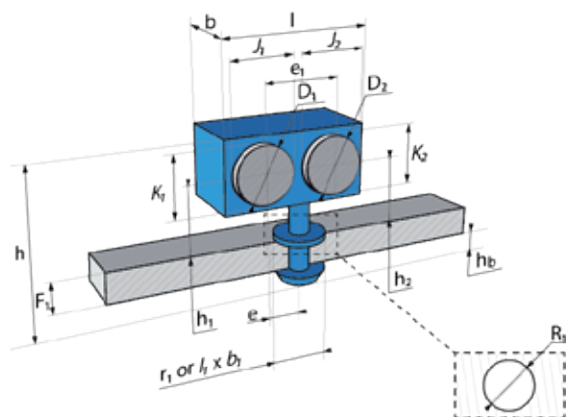
► FEMALE / FEMALE ENDS

SPECIFIC



Swivel tube holders

Common combinations



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Hole Diameter (R1)	Panel Thickness (F1)
213231		6-10	6-6.5	6.5	0.8-6
081466		6-6.5	-	6.5-6.7	0.8-6
081963		7.8-8.5	-	6.5-6.7	0.8-6
082566		9.5-10.5	-	6.3-6.7	0.8-6
168920		15-16	-	7.6-8.4	2-9.5
236432		16-24	18-20	6.3-6.7	0.8-6
228110		17	-	6.5-6.7	0.8-6
223811		20-24.5	-	7.6-8.4	2-9.5

Swivel tube holders

Common combinations



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Hole Diameter (R1)	Panel Thickness (F1)
213761		22-24	-	6.5-6.7	0.8-6

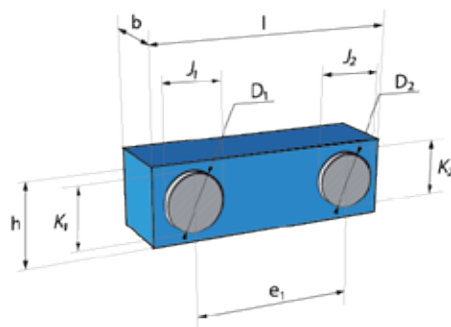
APPLICATION INFORMATION

- Multidirectional mounting of pipes/tubes
- Possibility to assemble several clips for multiple routing and parallel cables
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Swivel tube holders

Spacers - Common combinations



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Center to Center Distance (e1)	Additional Features
245234		4.3-5.2	4.3-5.2	14.5	-
081751		4.3-5.2	6-6.5	16	-
168791		4.3-5.2	8-9	16	-
081626		4.3-5.2	11-13	18.5	-
081083		6-6.5	6-6.5	16.5	-
080445		6-6.5	9.5-10.5	18.25	-
168832		8-9	11-13	20	-
082501		8-9	34-36	32	-

Swivel tube holders

Spacers - Common combinations



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Center to Center Distance (e1)	Additional Features
081085		9.5-10.5	13-14	21.75	-
080499		9.5-10.5	19-24.5	24.35	-
168852		9-9.5	4.3-5.2	16	-
082513		10-12	6-6.5	20.5	-
168963		11-13	9.5-10.5	20.8	-
081119		11-13	11-13	21.5	-
221640		11-13	11.5-13	21.5	-
081760		11-13	18-20	31	-
061828		14-16	18-20	26	-
168815		15-16	11-13	23	-
225674		15-16	15-16	41	-

Swivel tube holders

Spacers - Common combinations



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Center to Center Distance (e1)	Additional Features
225976		15-16	26-28	29.9	-
081425		16-18	16-18	27	-
200230		16-22	7.8-8.5	14.1	Manual adjustable lock
168914		18-20	14.5-15.5	26.3	-
221956		18-20	5.1-5.2	23.5	Manual simple lock
168912		18-20	9.5-10.5	23.8	-
216264		22-24	22-24	42.6	Manual adjustable lock
228619		25-27	11.5-13	40	-
239454		25.1-25.9	8-9	45.8	Manual adjustable lock

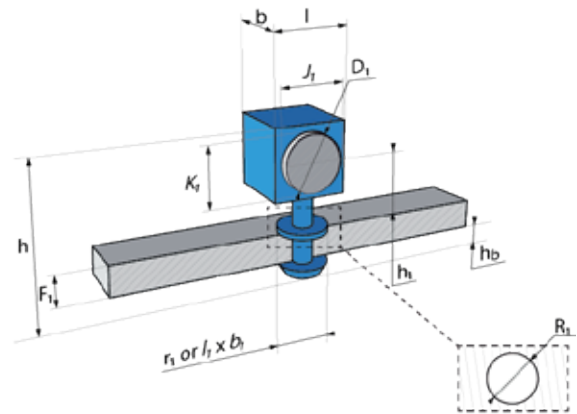
APPLICATION INFORMATION

- To maintain an offset between two or more tubes/pipes
- Allows tube/pipe pivoting between components
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Corrugated tube holders

Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
081856		4.5	6.5-6.7	0.8-6	Pivoting with respect to the mount Manual simple lock
163953		4.5	6.5-6.7	1-6	Manual simple lock
164177		6.8-7.4	6.9-7.1	0.9-2.6	Manual simple lock
019570		7-8	6.5-6.7	1.5-8	Manual adjustable lock
017713		9.9	6.5-6.7	1-6	Manual simple lock
223214		12.6-13.2	6.5-6.7	0.8-2	Pivoting with respect to the mount Manual simple lock
017714		12.9	6.5	1-6	Manual simple lock
106097		22-26.5	8.08-8.3	0.7-2.5	Manual simple lock

Corrugated tube holders

Round hole



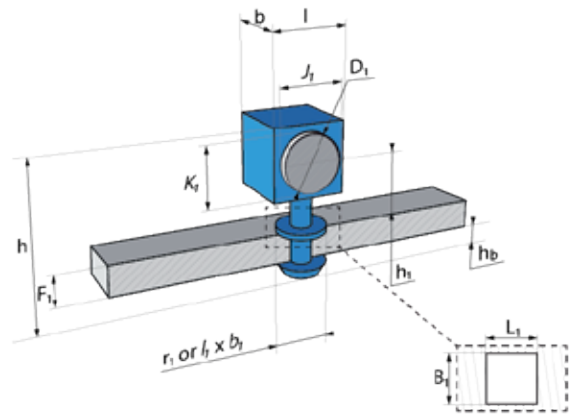
APPLICATION INFORMATION

- Design optimized for corrugated hoses
- To fix one or more tube/pipe to a panel
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Corrugated tube holders

Oblong & square holes



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
164178		12.6-13.2	6.4-6.6	14.9-15.1	0.7-1.1	Manual simple lock
200565		20-21.5	8	8	2	Manual simple lock
216050		18.5	8-8.3	8-8.3	0.7-2.5	Manual simple lock

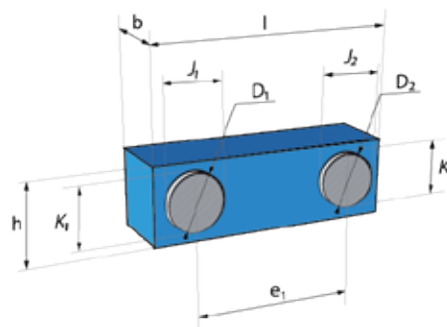
APPLICATION INFORMATION

- Design optimized for corrugated hoses
- To fix one or more tube/pipe to a panel
- Covering most common tube and pipe diameters and fixings

**Contact us
for more dimensions
and variants!** See p. 144

Corrugated tube holders

Swivel spacers



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Tube or Cable Diameter (D1)	Tube or Cable Diameter (D2)	Center to Center Distance (e1)	Additional Features
081732		4.3-5.2	7.5	17	Manual simple lock
200127		10	4.3-5.2	18.5	Manual simple lock
081902		18-20	4.5	21.55	Manual simple lock
234299		23.2 / 22	33-38	41.5	Manual adjustable lock

APPLICATION INFORMATION

- Design optimized for corrugated hoses
- To maintain an offset between two or more tubes/pipes
- Allows tube/pipe pivoting between components

**Contact us
for more dimensions
and variants!** See p. 144



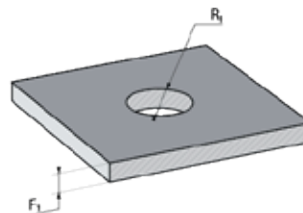
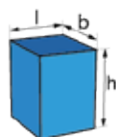
CONNECTOR HOLDERS

CONNECTOR HOLDERS

		Connector holders - Round hole p.60
		Connector holders - Oblong hole p.61
		Connector holders - Anti-rotation p.62
		Connector holders - Specific p.63

Connector holders

Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Additional Features
212271		6.1-6.9	0.8-10	EWCAP-005-23 (23 mm clip slot)
212994		6.1-6.9	0.8-20	EWCAP-005-11 (11 mm clip slot)
164516		6.3-6.7	0.8-7.5	EWCAP-005-23 (23 mm clip slot)
056151		6.5	0.5-6.5	EWCAP-005-11 (11 mm clip slot)
017530		6.5	0.8-6	EWCAP-005-11 (11 mm clip slot)

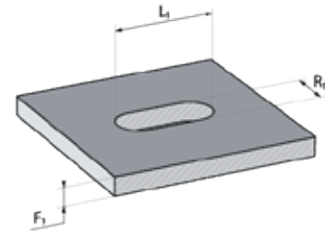
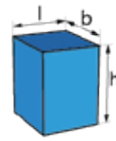
APPLICATION INFORMATION

- To securely fasten connectors to the vehicle
- Suitable for most types of automotive connectors

**Contact us
for more dimensions
and variants!** See p. 144

Connector holders

Oblong hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)	Additional Features
211318		6.1-6.3	12.1-12.3	0.6-1.5	EWCAP-005-23 (23 mm clip slot)
209310		6.1-6.3	12.1-12.3	0.6-3	EWCAP-005-11 (11 mm clip slot)
221052		6.2-6.4	12.2-12.4	2	EWCAP-005-11 (11 mm clip slot)
230577		6.5	12.1-12.9	1.25-2	Waterproof Bi-injection EWCAP-005-11 (11 mm clip slot)
228333		6.5	12.5	0.6-1.25	Waterproof Bi-injection EWCAP-005-11 (11 mm clip slot)
228334		6.5	12.5	2.25-3	Waterproof Bi-injection EWCAP-005-23 (23 mm clip slot)

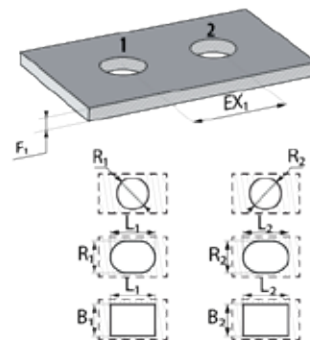
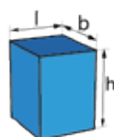
APPLICATION INFORMATION

- To securely fasten connectors to the vehicle
- Suitable for most types of automotive connectors

**Contact us
for more dimensions
and variants!** See p. 144

Connector holders

Anti-rotation



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Hole Diameter (R2)	Panel Thickness (F1)	Additional Features
164321		4.8-5.2	6.3-6.7	0.8-4	EWCAP-005-23 (23 mm clip slot)
223547		4.8-5.2	6.3-6.7	0.8-4	EWCAP-005-11 (11 mm clip slot)
214790		6.1-7.15	4.75-5.25	1-4	EWCAP-005-11 (11 mm clip slot)
210101		6.3-6.7	-	0.8-4	EWCAP-005-7 (7 mm clip slot) EWCAP-005-11 (11 mm clip slot)
164322		6.3-6.7	4.8-5.2	0.8-4	EWCAP-005-23 (23 mm clip slot)
211835		6.3-6.7	4.8-5.2	0.8-4	EWCAP-005-23 (23 mm clip slot)
212482		6.3-6.7	5.3-5.7	0.8-4	EWCAP-005-07 (7 mm clip slot)

APPLICATION INFORMATION

- To securely fasten connectors to the vehicle
- Suitable for most types of automotive connectors

**Contact us
for more dimensions
and variants!** See p. 144

Specific connector holders



Allowing secure fastening of connectors to the vehicle

*For more information,
please contact us.
We have a solution for you.*

ARaymond's broad range of connector holders ensure a secure fastening to the vehicle, and are suitable for most types of automotive connectors.



Ref. 018689



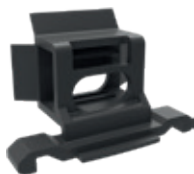
Ref. 210510



Ref. 210458



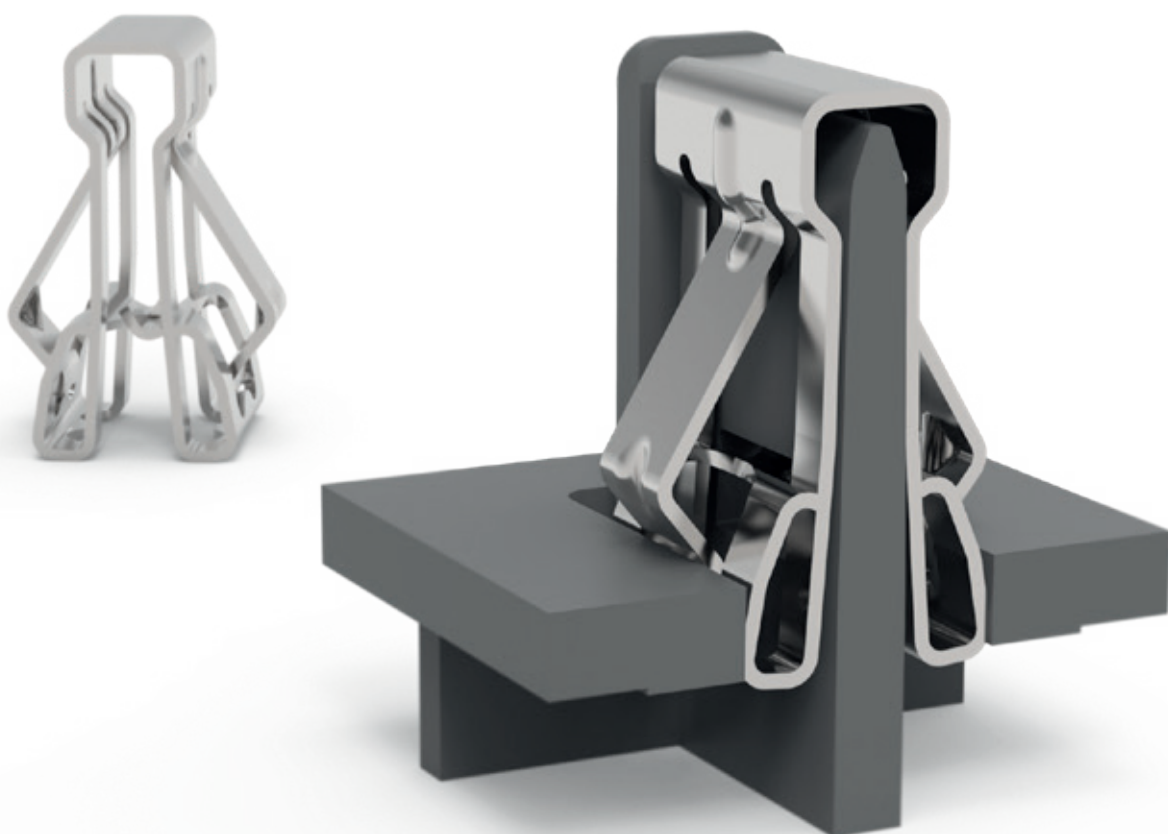
Ref. 214222



Ref. 020895



Ref. 061899

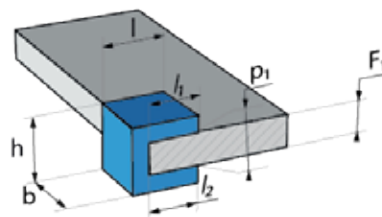


PANEL FASTENERS

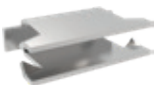
PANEL FASTENERS	
	Panel clips - U-clips.....p.66-68
	Panel clips - S-clips - Two panel edgesp.69-70
	Panel pins - Push-pins - Round holep.72-73
	Panel rivets - Push-rivets - Round holep.75-76
	Pre-mounted panel fasteners - Flange clipsp.78-80
	Pre-mounted panel fasteners - Flange clips - High retention.....p.81
	Pre-mounted panel fasteners - Double headed clips - Round doghousep.82-83
	Pre-mounted panel fasteners - Double headed clips - Specific.....p.84-85

Panel clips

U-clips



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Length (l)	Width (b)
011511		0.5-1	6	13
136938		0.76-2.79	16.13	17.22
015435		0.8-1.8	14.8	14
204763		0.8-2.5	15.7	20.3
136794		1.17-1.42	5.08	9.65
137536		1.3-2.5	8.6	12.75
137537		1.3-2.5	8.6	12.75
011512		1.5-1.75	6	13



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

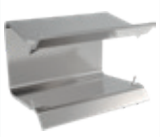
Ref.	Design	Panel Thickness (F1)	Length (l)	Width (b)
137459		1.5-2.3	8.6	12.7
137538		1.5-2.3	9.9	12.75
012718		2.75-3.25	6	13
137850		2.9	18.5	15.9
137549		2.9-4.7	10.7	12.75
136890		3.18-4.75	17.27	15.88
013126		3.5-4	13	20
137586		3.94-4.83	10.67	12.7
137577		4.3-5.2	10.9	12.75
138083		4.3-5.2	10.9	12.75
201871		4.5-6.5	12.5	15.6

Panel clips

U-clips



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Length (l)	Width (b)
136895		6.2-6.5	9.7	12.7
140862		6.3-9.5	19.4	13
229390		7.9-8.1	35	25.1
136943		16.13-18.16	9.65	7.87

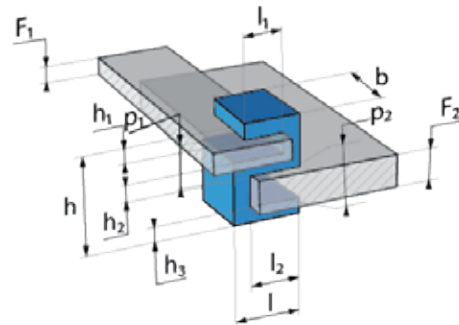
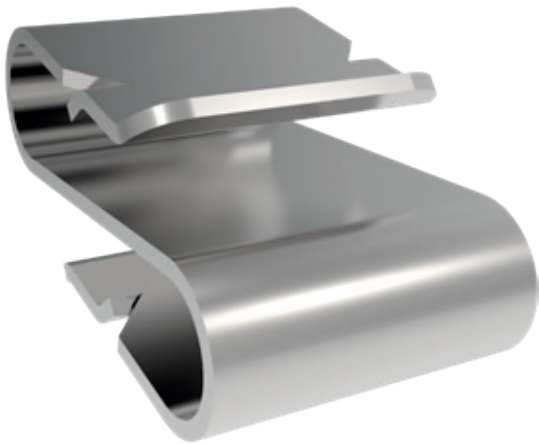
APPLICATION INFORMATION

- Integrated barbs provide a tight grip and secure assembly
- Fast and easy manual mounting
- Retains parallel panels of varying thicknesses

**Contact us
for more dimensions
and variants!** See p. 144

Panel clips

S-clips - Two panel edges



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

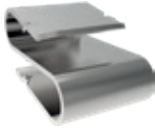
Ref.	Design	Panel Thickness (F1)	Panel Thickness (F2)	Length (l)	Width (b)	Height (h)
013698		0.5-1.5	0.8-1.5	14	12.75	7
203591		0.7-1.8	-	26.1	20	13.5
232620		0.8-1	4.2-4.6	21.9	24	20.4
219148		0.9	2.5	14.5	15	8.1
138081		1.5-2	3-3.2	14.48	9.53	8.75
237394		1.7-2.5	-	30.8	20	8
136901		1.78-2.03	1.78-2.79	13.46	9.52	8.64
222007		2.28-3.3	2.28-3.3	13.45	9.53	8.6

Panel clips

S-clips - Two panel edges



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Panel Thickness (F2)	Length (l)	Width (b)	Height (h)
136918		2.3-3.3	2.3-3.3	14.5	9.55	8.63
019543		2.4	0.7-1	12.8	15	5.9
228876		2.5-3.1	4.07-4.72	20	27.5	25
138063		2.9-3.1	1-5	42	18	30

APPLICATION INFORMATION

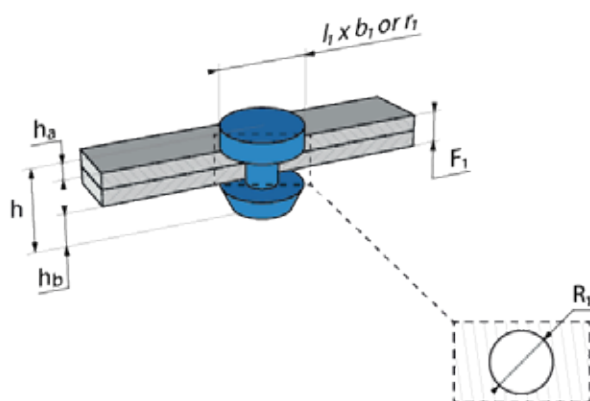
- Integrated barbs provide a tight grip and secure assembly
- Fast and easy manual mounting
- Available for parallel, perpendicular, and non-parallel panels

**Contact us
for more dimensions
and variants!** See p. 144



Panel pins

Push-pins - Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Hole Diameter (R1)	Contact Diameter (r1)
018369		0.6-2.5	6.4-6.6	12
163904		0.76-7.4	6.05	16
206987		1.25-8.4	7.8-8.1	11.5
104012		1.5-7	8-8.3	20
201012		1.6-10.3	5-5.4	16
018751		1.9-8	6.8-7.1	18
207633		2.3-8	7.6	17.20-17.28
016397		2.5-10	7.8-8.2	20

Panel pins

Push-pins - Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Panel Thickness (F1)	Hole Diameter (R1)	Contact Diameter (r1)
229266		3-6.5	7-7.4	16
013949		3-7	7-7.2	14
201698		3-16	7.1-7.3	16
162805		3-16	7.2	16
015070		3.2-4.7	6.2-6.45	12.4
163371		3.4-18	7	26.4
163740		3.4-19.4	6.22-6.48	26
015009		3.5	9.5-9.7	22
208006		7.2	7-7.2	15-15.6

APPLICATION INFORMATION

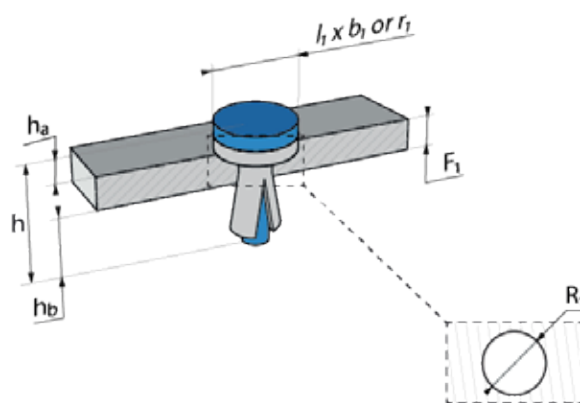
- Easy manual assembly and quick installation
- Can be grained and color matched for class A surfaces
- Retains multiple panels with aligned holes

**Contact us
for more dimensions
and variants!** See p. 144



Panel rivets

Push-rivets - Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Contact Diameter (r1)	Additional Features
018795		4.55-4.95	3-6	15	-
012696		4.95-5.55	3-8	10	-
013840		5.5-6.4	2.5-7	16	-
052607		5.9-6.4	4.5-9	10	-
012710		5.9-7.1	2-8	10	-
020644		6-6.4	2-4	11	Scrivet
210975		6.1-6.3	2-5.8	12	Scrivet
202493		6.35-6.55	3-10	-	-

Panel rivets

Push-rivets - Round hole



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Contact Diameter (r1)	Additional Features
168966		7.8-9.1	2-8	20	-
016867		7.9-8.5	4-7	17	-
013011		7.9-8.7	4-7	16	-

APPLICATION INFORMATION

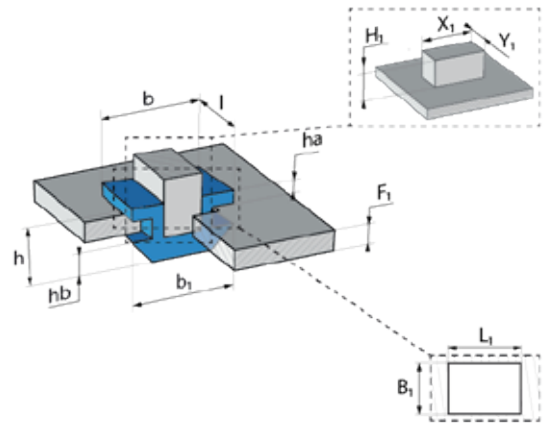
- Two piece designs for high retention and serviceability
- Can be grained and color matched for class A surfaces
- Retains multiple panels with aligned holes

**Contact us
for more dimensions
and variants!** See p. 144



Pre-mounted panel fasteners

Flange clips



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Length (L)	Width of Stud (Y1)
137957		4.65-4.85	7.85-8.05	2.4-2.6	14	-
135201		9.3-9.7	13	1.1	11.4	1.1
018184		10.2-10.4	7.8-8	2-2.2	10	4.10-4.30
135203		11	6.3-6.7	2.5	10.5	1.17-1.43
137751		12-18	6.15-6.65	2.75-3.25	24	0.9-1.1
221845		13.2	5.9-6.1	2.5	9	1.2-1.4
200825		14.3-14.7	9.8-10.2	2.8-3.2	13.4	3.10-3.30
016848		14.5 min.	8.9-9.1	2.8-3.2	12.8	2.90-3.10

Pre-mounted panel fasteners

Flange clips



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Length (l)	Width of Stud (Y1)
210190		15	7.8-8.1	2.6-2.8	8.5-8.9	1.6-1.8
209891		15	7.9-8.1	2.6-2.8	8.5-8.9	1.6-1.8
137710		16	5.4-5.6	2.3	11	0.9-1.1
137669		16	5.9-6.1	1.5-2	15	1-2
135208		16	7.9-8.1	1.8-2.2	13	2
205257		16	8-8.5	0.8	9.5	1.20-1.70
137719		16	8-8.5	2	9.45	1.4-1.8
137666		16	8-8.5	2	10	1.7-2.1
137636		16	8-8.5	2.2-2.7	10	1.7-2.1
017982		16.2-16.4	2.8-3	1.9-2.1	15.6	1.70-1.90
219932		16.2-16.4	4.4-4.6	1.9-2.1	15.6	2.8-3

Pre-mounted panel fasteners

Flange clips



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Length (l)	Width of Stud (Y1)
138002		20	5.3-5.7	0.7-1.5	30	1.1
137989		20	5.5	5.5	10.5	1.1
137706		20	5.7-6.2	2.3	11	0.9-1.1
135257		20	5.7-6.2	2.3	11	1.4-1.6
137991		21	5.75-6.25	0.71-1.5	12	1.13-1.37
135205		21	5.75-6.25	2.5-3	12	1.13-1.37
137770		25	5.1-5.3	2.5	12	1.3-1.8
136964		25	5.2-5.4	3.05-4.05	11	1.3-1.8
136994		25	5.4	1.5-2.25	10	1.25-1.75

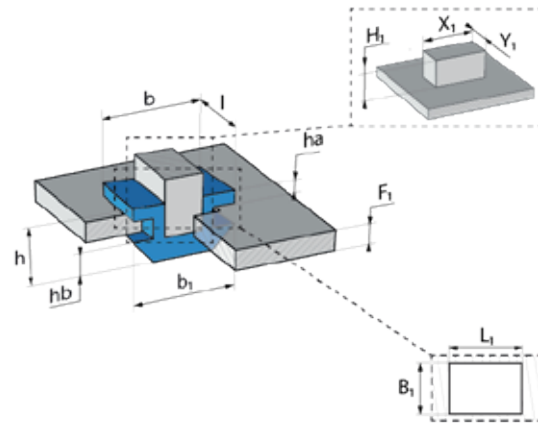
APPLICATION INFORMATION

- Easy to install and serviceable
- Compact for tight packaging environment
- Mounts to rib on B-side of the panel
- Seal options available for watertight applications

**Contact us
for more dimensions
and variants!** See p. 144

Pre-mounted panel fasteners

Flange clips - High retention



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Length (L)	Panel Thickness (F2)
137887		20	5.75-6.03	0.7-0.9	23	1.75-2
137789		25	7.85-8.35	2.9-3.3	25	1.9-2.1
222391		25.4	8.25-8.75	2.4-2.6	25	3.5

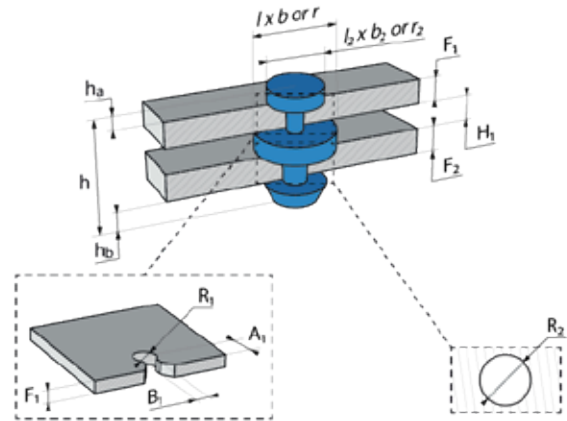
APPLICATION INFORMATION

- High retention onto rib and substrate
- Mounts to rib on B-side of the panel

**Contact us
for more dimensions
and variants!** See p. 144

Pre-mounted panel fasteners

Double headed clips - Round doghouse



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Hole Diameter (R2)	Panel Thickness (F2)	Additional Features
207585		4.1	1.5-3	6-6.5	1.9-6.5	-
208361		5 min.	2-3	8.4	0.8	Waterproof Bi-injection
200975		5.4-5.5	2.2-2.4	7.9-8.2	0.8-1.6	Resistant to water run-off
013000		5.45-5.7	2.55-2.85	8.1-8.5	0.7-1	-
205076		6.2-6.4	2.25-2.45	7.9-8.1	2.6-3	-
221464		6-10	1.7-2.3	7.5-9.5	0.8-2	Waterproof Bi-injection
082664		8-8.3	1.8-2	8-8.2	3-3.2	Resistant to water run-off
016178		9.3-9.7	1.6-2	8-8.2	0.9-1	-

Pre-mounted panel fasteners

Double headed clips - Round doghouse



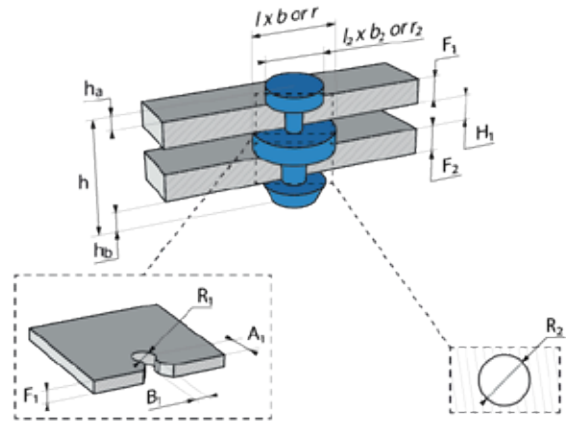
APPLICATION INFORMATION

- Mounts to doghouse on B-side of the panel

**Contact us
for more dimensions
and variants!** See p. 144

Pre-mounted panel fasteners

Double headed clips - Specific



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)	Hole Diameter (R2)	Panel Thickness (F2)	Additional Features
219209		-	2.2	-	-	Gap compensation
018886		-	-	-	0.8-1.9	-
129120		3.4-3.6	1.3-1.7	5.05-5.25	0.82-0.88	Designed for automatic assembly
161975		4.6-5	0.8-1.1	-	-	-
221361		4.8	4.4	-	-	-
162508		5.05-5.33	0.8-1.9	-	-	-
228637		6.3	0.8-1.2	5-6.3	3.2-4.5	-
205572		6.5-7.5	0.7-5	-	3	-

Pre-mounted panel fasteners

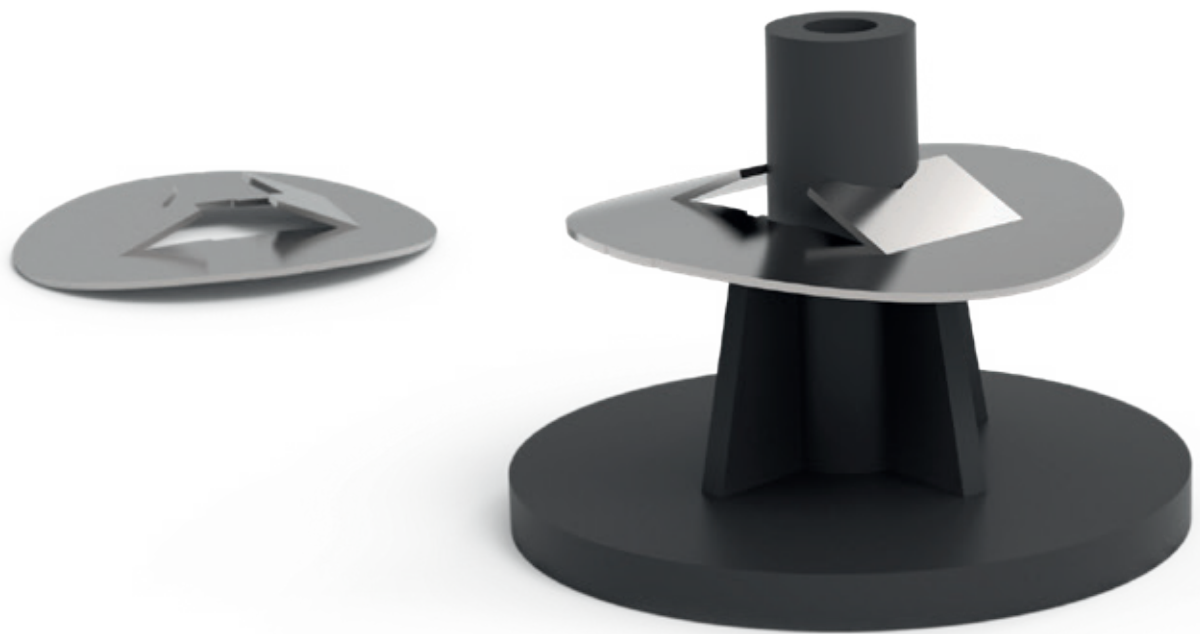
Double headed clips - Specific



APPLICATION INFORMATION

- Easy to install and serviceable
- Compact for tight packaging environment
- Mounts to doghouse on B-side of the panel

**Contact us
for more dimensions
and variants!** See p. 144



STUD RETAINERS & THREADED FASTENERS

PUSH-ON STUD RETAINERS

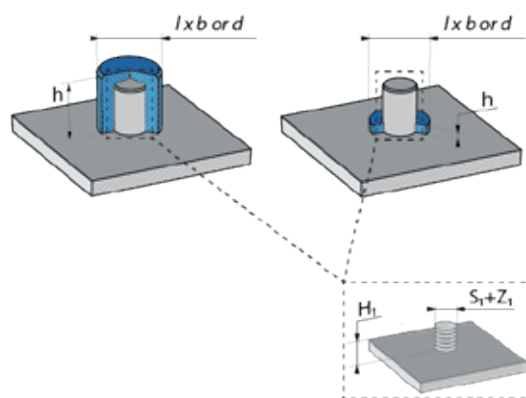
		Push-on stud retainers - Onto threaded stud.....p.88-89
		Push-on stud retainers - Onto smooth stud.....p.90-91
		Push-on stud retainers - Onto blade stud.....p.92

NUTS

		Nuts - Stamped nuts.....p.94-95
		Nuts - Box nutsp.96-98
		Nuts - Expansion nuts.....p.99-101
		Nuts - Plastic push-in nutsp.102-103
		Nuts - U-Nuts - Single impressionp.104-106
		Nuts - U-Nuts - Anti-creepp.107
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		Nuts - U-Nuts - Multi-thread - Non-prevailing torquep.110-111
		Nuts - U-Nuts - Multi-thread - Prevailing torquep.112-113

Push-on stud retainers

Onto threaded stud



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Diameter (d)
135217		M6 x 1	12.7
137626		M6 x 1	12.7
135213		M6 x 1	17
137645		M6 x 1	19
137920		M6 x 1	19
135209		M8 x 1.25	15.9
140648		M8 x 1.25	23.6-24
138697		M8 x 1.25	23.8

Push-on stud retainers

Onto threaded stud



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Diameter (d)
238883		M10 x 1.50	19.62-20.12
138646		M10 x 1.50	19.87
138647		M12 x 1.75	21.41
236766		M12 x 1.75	28.75-29.25
138650		M14 x 2	25
229992		M16 x 2	35
138655		UNC 1/4-20	12.7
138657		UNC 5/16-18	15.9
138660		UNF 1/2-20	23.83
138659		UNF 7/16-20	21.41

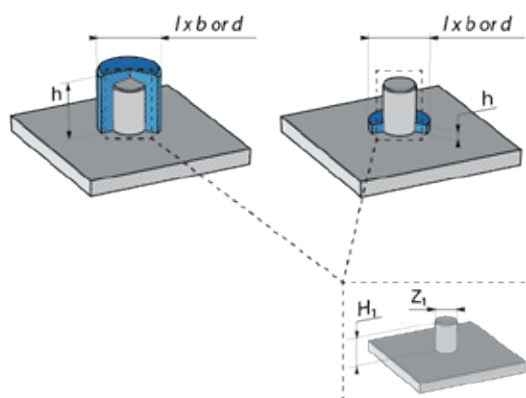
APPLICATION INFORMATION

- Hold pre-inserted bolts in place until final assembly

**Contact us
for more dimensions
and variants!** See p. 144

Push-on stud retainers

Onto smooth stud



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Stud Diameter (Z1)	Diameter (d)
013710		4	11.5
018889		4.4-4.6	22
018713		4.9-5	13.5
017034		5	11.5
013228		5	22
018961		5	30
012205		6-6.1	22
015212		6.5-6.7	20.5

Push-on stud retainers

Onto smooth stud



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Stud Diameter (Z1)	Diameter (d)
013214		7-7.1	13.5
137437		7.85-8	17.5 x 25.5
233098		7.87-8.07	20
212825		7.9-8	12.6
019496		8.1-8.3	17.5
014063		10	25
227874		14	26.9
230270		27.45	40-40.5

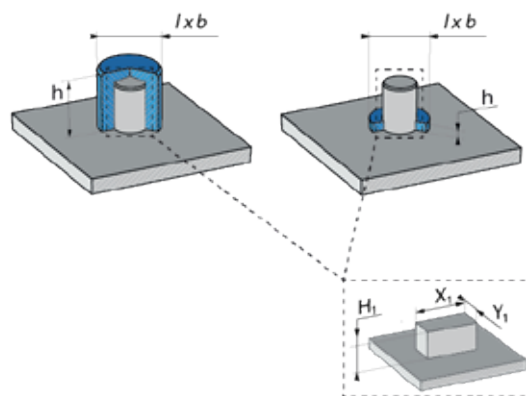
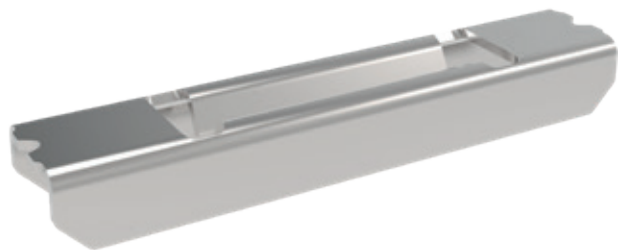
APPLICATION INFORMATION

- Pressed onto plastic or cast bosses

**Contact us
for more dimensions
and variants!** See p. 144

Push-on stud retainers

Onto blade stud



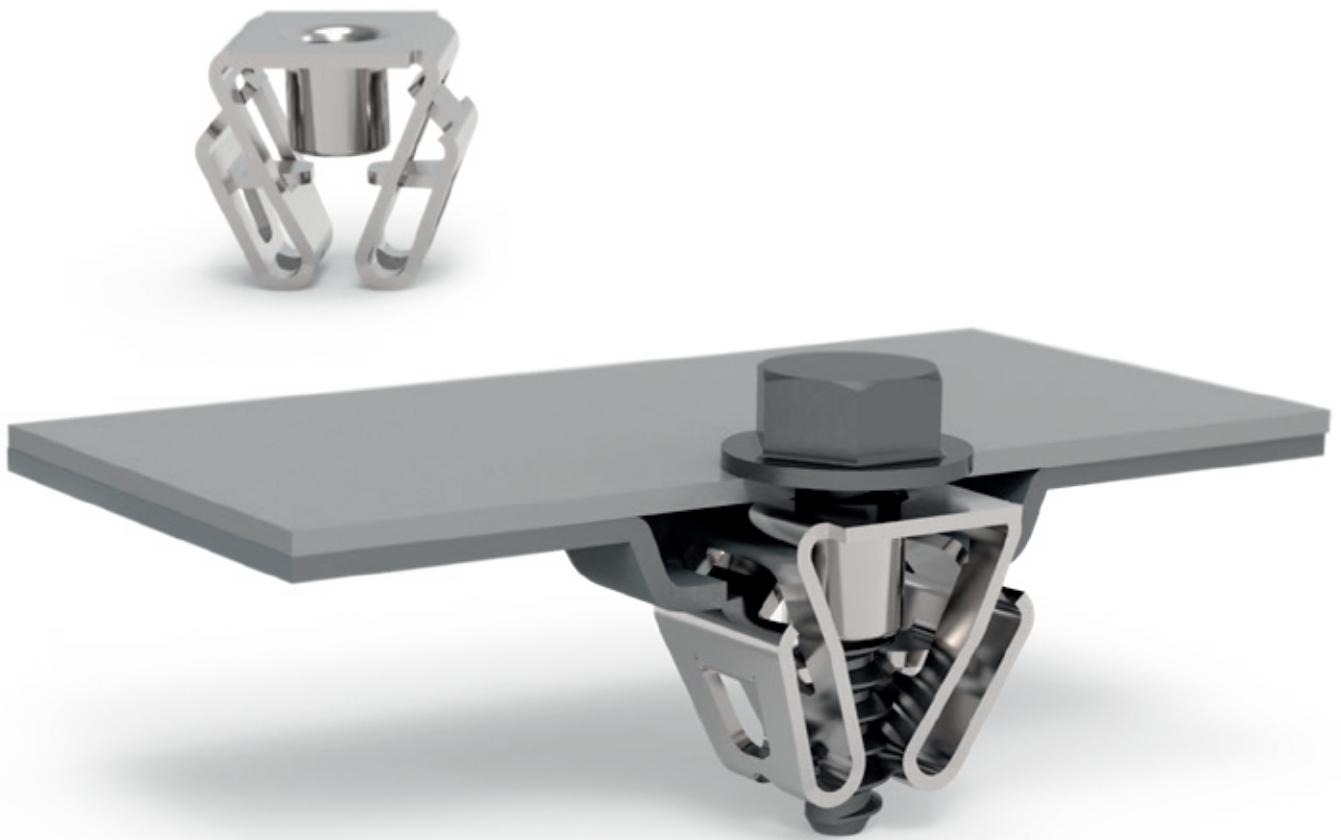
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Length (l)	Width (b)	Length of Stud (X1)	Width of Stud (Y1)
016418		6	30.5	12-15	1.5-1.9
233786		22.8	9.4	9.33-9.73	1-1.4
200980		41.05-41.15	6	21	1.2-1.4

APPLICATION INFORMATION

- Pressed onto plastic or cast bosses

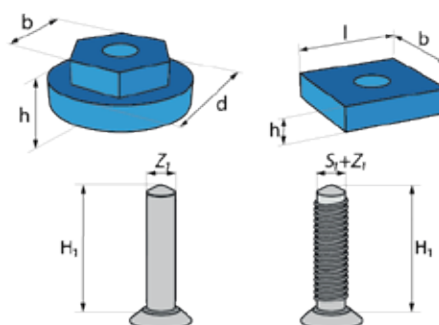
**Contact us
for more dimensions
and variants!** See p. 144



NUTS

Nuts

Stamped nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Stud Diameter (Z1)	Width (b)	Height (h)	Diameter (d)	Additional Features
138358		M4 x 0.70	4	8.77-9	8.79	14.25	Resistant to water run-off Hex flange Drawn barrel
138360		M5 x 0.80	5	10.77-11	8	17.25	Drawn barrel Hex flange
138381		M6 x 1	6	9.76-10	10.5	19	Hex flange Drawn barrel
235936		M6 x 1	6	14	4.9	-	Crimped barrel Flat rectangular
138847		SMOOTH-STUD 3.76mm	3.68-3.84	8.64	2.79	-	Self-threading Hex
138848		SMOOTH-STUD 4mm-5/32"	3.89-4.04	8.64	2.79	-	Hex Self-threading
138862		SMOOTH-STUD 5mm	4.92-5.08	10	5.03	14.82	Hex flange Serrated washer Self-threading Hex flange
052835		SMOOTH-STUD 6mm	6	11	5.75	15	Self-threading Hex flange

Nuts

Stamped nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Stud Diameter (Z1)	Width (b)	Height (h)	Diameter (d)	Additional Features
138806		SMOOTH-STUD 6.35mm-1/4"	6.22-6.38	9.32	7.06	18	Hex flange Self-threading
138797		SMOOTH-STUD 6.35mm-1/4"	6.22-6.38	11	6.74	18	Self-threading Hex flange
138851		SMOOTH-STUD 6.35mm-1/4"	6.27-6.43	12.6	3.56	-	Self-threading Hex
138853		SMOOTH-STUD 6.35mm-1/4"	6.3-6.38	12.8-13	3.15-3.65	-	Hex Self-threading
138802		SMOOTH-STUD 8mm-5/16"	7.92-8.08	13	7.85	20	Hex flange Self-threading
138829		SMOOTH-STUD 8.38mm	8.31-8.46	12.6	7.98	25.4	Hex flange Serrated washer Self-threading Hex flange
139086		ST6.3	6.3	-	4.7	19.5	Flat round
020879		T5 Stud	5	10	7	22.5	Hex flange Dished washer
240797		T5 Stud	5	10	9.5	22.5	Resistant to water run-off Hex flange

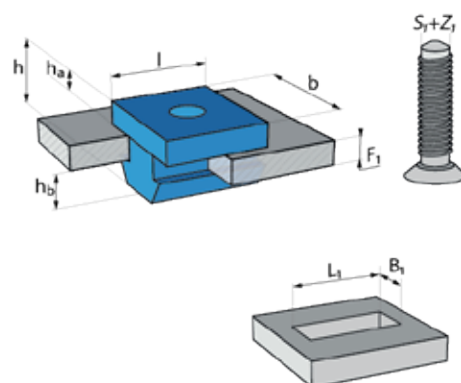
APPLICATION INFORMATION

- Threaded onto stud or boss
- Center impression will cut its own threads into a smooth boss
- Can be offered with a sealing element

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

Box nuts



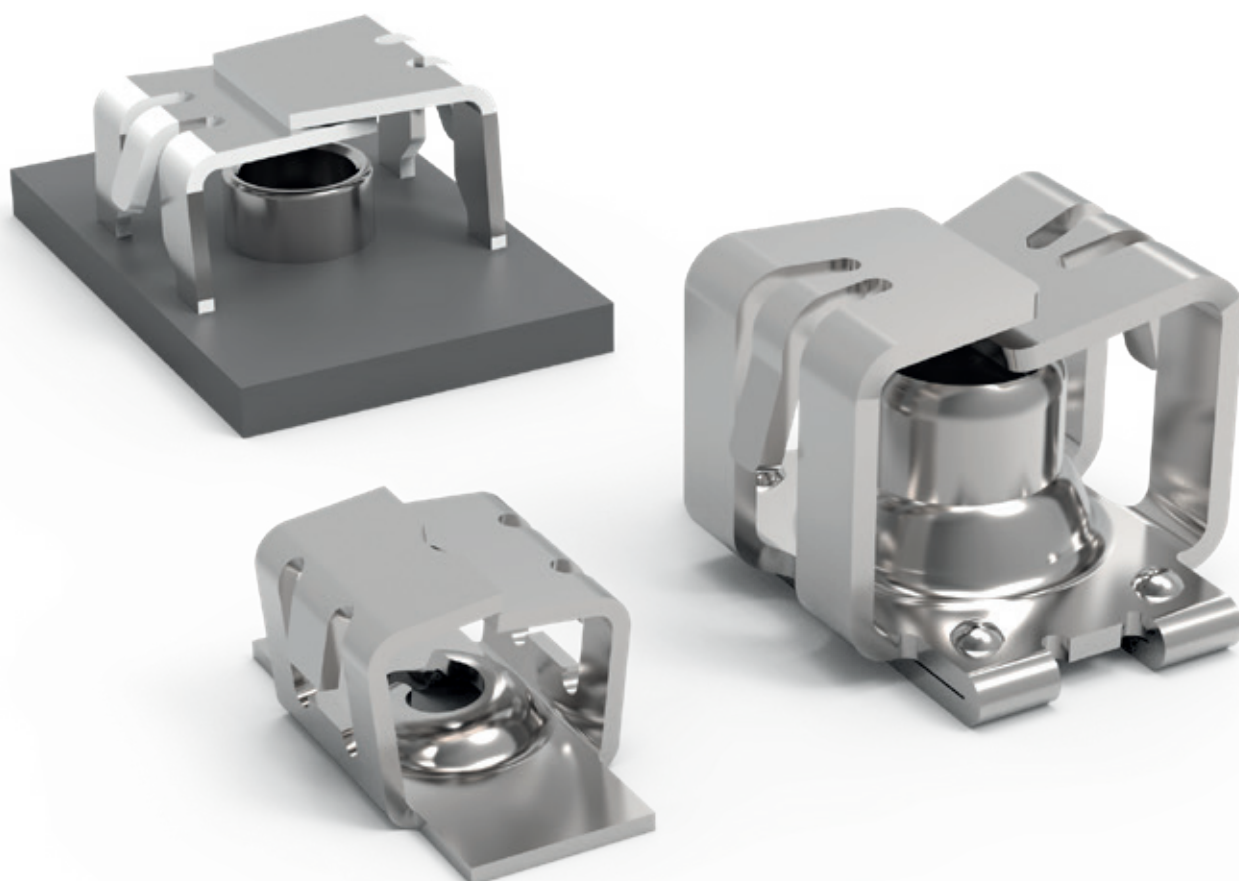
All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
138027		M6 x 1	13.7-14.2	15.8-16.3	1.5-3.5	Resistant to water run-off Drawn barrel
137997		M6 x 1	13.7-14.7	16.05	1.5-1.9	Drawn barrel
233379		M6 x 1	13.75-14.03	9.25-9.53	0.7-3.8	Drawn barrel
140702		M6 x 1	13.75-14.03	9.39	0.7-2	Resistant to water run-off Drawn barrel
135216		M6 x 1	14.75-15.25	14.75-15.25	0.65-1.8	Drawn barrel
137762		M6 x 1	14.8-14.9	14.85	0.7-1.2	Drawn barrel
238237		M6 x 1	14.9-15.1	10.9-11.1	2-3.2	Drawn barrel
137808		M6 x 1	15.2-15.4	15.3	1.2-2	Drawn barrel



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
137864		M6 x 1	19.8-20	12.65	0.7-1.5	Resistant to water run-off Drawn barrel
137833		ST4.2_8-18	8.55-8.75	8.65	0.7-2.15	Resistant to water run-off
138079		ST4.2_8-18	8.55-8.75	8.65	0.7-2.15	Resistant to water run-off
137822		ST4.2_8-18	8.55-8.75	8.65	0.7-2.15	-
138007		ST4.2_8-18	8.55-8.75	8.65	0.7-2.15	-
137726		ST4.2_8-18	8.55-8.75	8.65	1.4-2.1	-
137672		ST4.2_8-18	8.55-8.75	8.65	1-1.5	-
137615		ST4.2_8-18	8.55-8.75	8.65	2.4-2.9	-
240660		ST4.2_8-18	11-11.2	15.8-16.2	1.4-5	Drawn barrel
137940		ST4.8_10-16	11.75-12.25	12	0.66-2.1	-
138072		ST4.8_10-16	12.9-13.1	13	0.7-2.3	Resistant to water run-off Drawn barrel



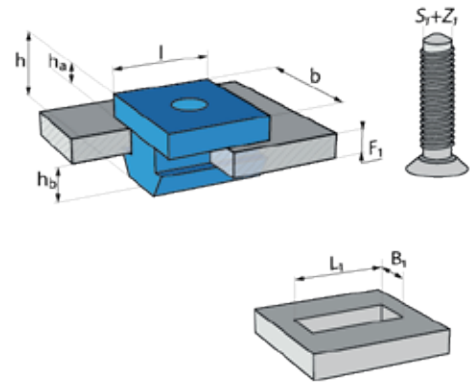
APPLICATION INFORMATION

- Options for metric and non-metric screws
- Easy manual insertion, self-retained by spring legs
- Vibration resistant assembly for center panel applications

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

Expansion nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
137358		Dual lead 4.2	8.38-8.62	7.13	0.38-4.25	-
137675		Dual lead 4.2	10-10.2	8.1	2.1-2.5	-
137968		Dual lead 4.2	10.87-11.13	11	1-1.2	-
135200		M6 x 1	14.8-15	14.8-15	2.2-3	Drawn barrel
137760		M6 x 1	14.8-15	14.9	2-2.5	Drawn barrel
138066		M6 x 1	14.9-15.1	15	2-2.5	Drawn barrel
137893		ST4.2_8-18	8-10.2	8.1	2.1-2.5	-
138021		ST4.2_8-18	11-11.2	9.1	2.3-2.8	Resistant to water run-off Drawn barrel



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
138031		ST4.2_8-18	11-11.2	9.1	2.3-2.8	Resistant to water run-off Drawn barrel Non-serviceable tab
135204		ST4.2_8-18	11-11.2	9.1	2.3-2.8	Drawn barrel
137961		ST4.2_8-18	11-11.2	9.1	2.3-2.8	Drawn barrel
138069		ST4.2_8-18	11-11.2	9.1	2.3-2.8	Drawn barrel
137752		ST4.2_8-18	11-11.2	9.1	2.3-2.8	-
138040		ST4.2_8-18	11-11.4	9-9.4	2.3-2.8	Drawn barrel
138060		ST4.2_8-18	11-11.4	9-9.4	2.3-2.8	Drawn barrel
138224		ST4.2_8-18	11.1-11.4	9-9.4	2.3-2.8	-
135207		ST4.2_8-18	11.1-11.4	9.1	2.3-2.8	-
138045		ST4.2_8-18	11.1-11.4	9.25	2.3-2.8	-
020007		ST4.2_8-18	17.4-17.6	12.1-12.3	0.8-2.12	Double dart split

Nuts

Expansion nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
135454		ST4.2_8-18	19.75-20.25	12.55-13.05	1.1-1.5	Double dart split
137803		ST4.8_10-16	10-10.2	8.1	2.1-2.5	-
137821		ST4.8_10-16	11-11.2	9.1	2.3-2.8	-
019685		ST4.8_10-16	14.8-15.2	11.8-12.2	0.7-1.5	-

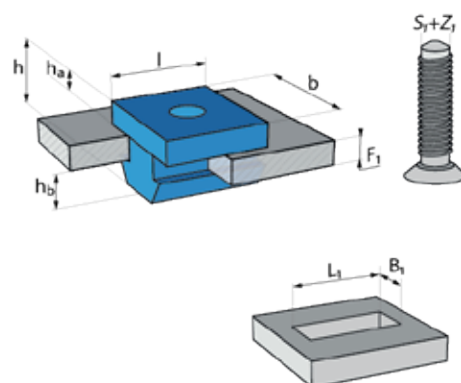
APPLICATION INFORMATION

- Options for metric and non-metric screws
- Designs for manual or automated installation
- Vibration resistant assembly for center panel applications

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

Plastic push-in nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
229128		Hi-Lo 4.2 (SHC)	18.9-19.1	18.9-19.1	1.4-1.6	Resistant to water run-off
016793		Hi-Lo 4.8 (SHD)	11.5	7.5	2-5.5	-
053853		MT 4.50 (SJD)	7.05-7.25	7.05-7.25	0.6-3	-
056256		MT 4.50 (SJD)	14.2	7.2	0.6-3	Gap compensation Multiple impression
222561		PT5.0 (SIG)	8.2	8.2	0.7-1.2	Waterproof Bi-injection
003236		ST4.2_8-18 (SAD)	6.7	6.7	3.5	-
161710		ST4.2_8-18 (SAD)	6.85-7.15	7	0.75	-
234659		ST4.2_8-18 (SAD)	9.9-10.1	9.9-10.1	0.7-1	Resistant to water run-off

Nuts

Plastic push-in nuts



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Length of Hole (L1)	Width of Hole (B1)	Panel Thickness (F1)	Additional Features
175135		ST4.8_10-16 (SAE)	8.2	8.2	0.65-1.5	-

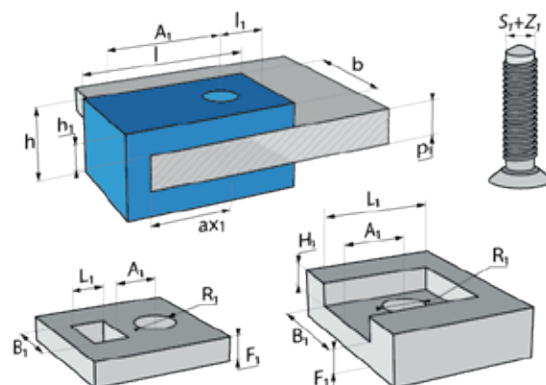
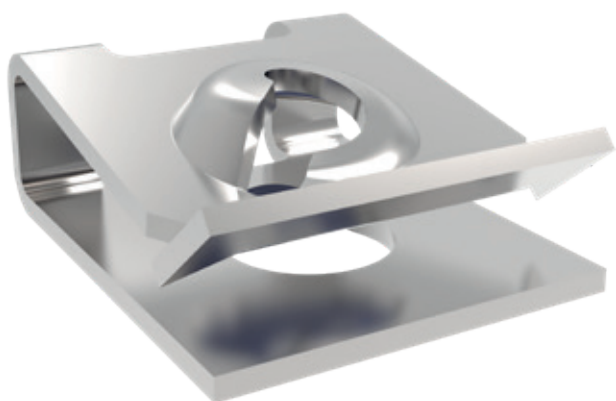
APPLICATION INFORMATION

- Suitable for soft material screw types
- The screw cuts its own thread as tightened, guaranteeing a strong fit
- Mounts into square or rectangular hole in panel

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

U-Nuts - Single impression

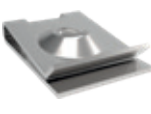
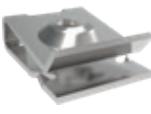
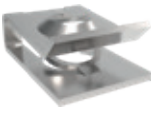
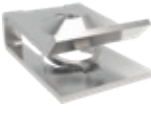
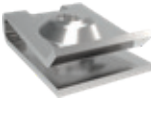


All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
137700		Dual lead 4.2	5.6 min.	2.6-3	7.2 max.	13.2	11.15
138085		M4 x 1.75	5.6	2.6-3	7.2 max.	8.1	5.9
013695		ST3.5_6-20	4.8-5.2	3.75-5.25	4.5-5	12	11
014620		ST3.5_6-20	5.8-6.2	1.6-2.2	6.95-7.35	16.5	11
019324		ST4.2_8-18	4.8-5.2	1.5-2	3.7-4.2	9.6	8
137619		ST4.2_8-18	5.6 min.	2.55-3.05	7.15 max.	13.34	11.19
016579		ST4.2_8-18	5.8-6.2	5-6	9.8-10.2	18.6	10.85
014339		ST4.2_8-18	6.4-6.6	2.5-3	5.7-6	13	11



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
019069		ST4.2_8-18	6.8-7.2	2.5-5	11.8-12.2	24	11
137777		ST4.2_8-18	7-7.2	1.8-2.3	6.35 max.	18.8	13.6
011362		ST4.2_8-18	7-7.5	0.5-1.75	7-7.5	16.5	11
137532		ST4.2_8-18	7.11	0.64-3.81	6.35 max.	19.56	13.49
017732		ST4.8_10-16	6.2-6.8	2-3.1	6.2-6.8	16.2	11
016441		ST4.8_10-16	7-7.4	2.5-3.5	7-7.3	16.7	11
232253		ST4.8_10-16	7.2	2.5-3.5	7.2	16	11
017634		ST4.8_10-16	7.2-7.5	1.7-2.3	6.7-7.2	16.5	11
137765		ST4.8_10-16	7.55-8.05	0.71-1	6.4 max.	14.3	12.7
019185		ST4.8_10-16	7.8-8.2	2.5-5	15.8-16.2	28	15
015477		ST4.8_10-16	8-8.3	11.2-11.5	6.2-6.8	17	16

Nuts

U-Nuts - Single impression



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
011427		ST6.3_14-14	8.7-9	0.7-1.5	12.5-13	24.8	16

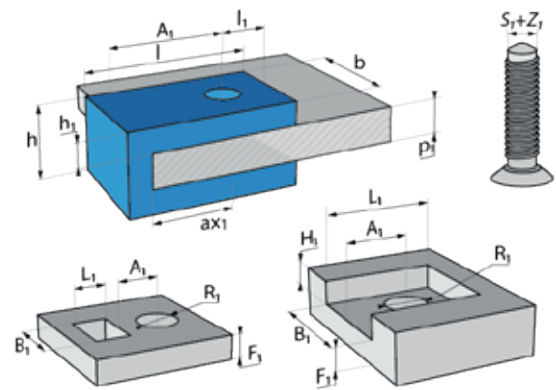
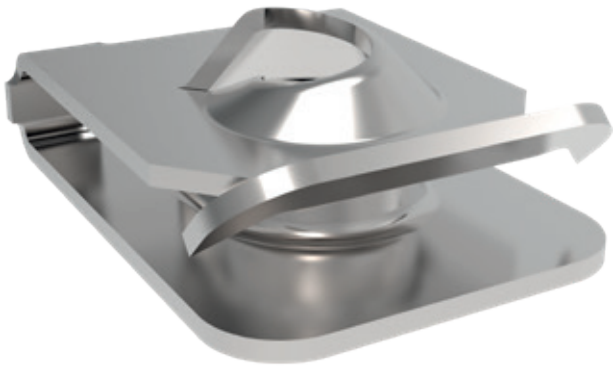
APPLICATION INFORMATION

- Can be mounted on an edge or center hole in panel
- Available with or without retaining ring to hold in position until assembly
- Single impression nuts available for many different thread size and pitch

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

U-Nuts - Anti-creep



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
206095		M6 x 1	9.5	1.7-2.3	11	21	18
211460		M6 x 1	9.5	2.2	16	25	20
205978		M6 x 1	9.5	2.5-3	16	27	20
219715		M6 x 1	10.6	3.4-3.6	17.75	21.9	22
244638		M8 x 1.25	10.80-11	2.1-2.6	15.90	31.4 min.	22 min.
233880		PT 6.0 SIH	8-8.2	2.8-3	11.9-12.1	22.2	16
020481		ST6.3_14-14	8-8.2	2.8-3	12-12.5	22.2	16

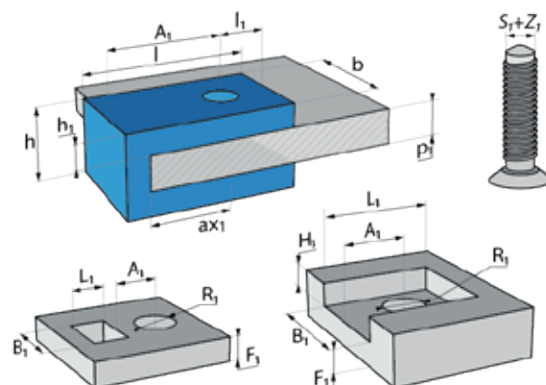
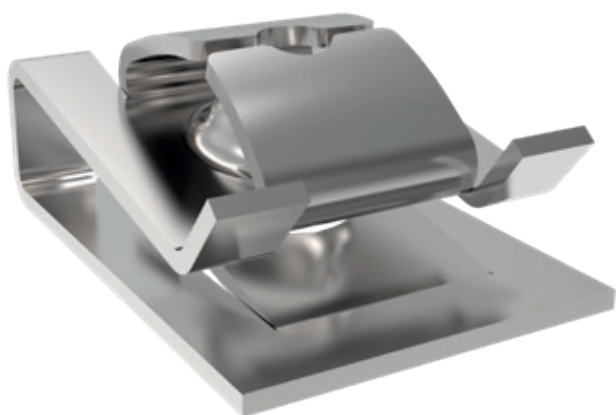
APPLICATION INFORMATION

- Can be mounted on an edge or center hole in panel
- Anti-creep features for use in plastic panels
- See page 121 for non-threaded Anti-creeping Rings

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

U-Nuts - 5-prong



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (L)	Width (b)
137736		ST4.2_8-18	6.5-7	2.4-2.9	8 max.	18.5	14
137646		ST4.2_8-18	7.55 min.	1.8-3.8	7.92 max.	19.5	13.77
137802		ST4.2_8-18	8 min.	2-3.4	7.9 max.	17.5	14
138043		ST4.2_8-18	8.3	1.8-3.5	7.9	19.5	23.8
137608		ST4.2_8-18	8.3 min.	1.8-3.8	7.9 max.	19.5	13.78
137607		ST4.2_8-18	8.33 min.	0.5-1.8	7.92 max.	19.5	13.78
137621		ST4.2_8-18	8.33 min.	1.8-3.8	14 max.	25.2	13.77
137837		ST4.8_10-16 (SAE)	6.5-7	1.2-3	8 max.	17	14

Nuts

U-Nuts - 5-prong



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
137865		ST4.8_10-16 (SAE)	6.5-7	2.2-2.8	9 max.	13.5	13.5
138048		ST4.8_10-16	7.2-7.8	0.5-2.5	7.9 max.	19.5	13.8
137671		ST4.8_10-16	7.9 min.	0.81-1.63	9.7 max.	17.1	15.05
136897		ST4.8_10-16	7.92 min.	0.81-1.63	12.7 max.	20.96	15.06

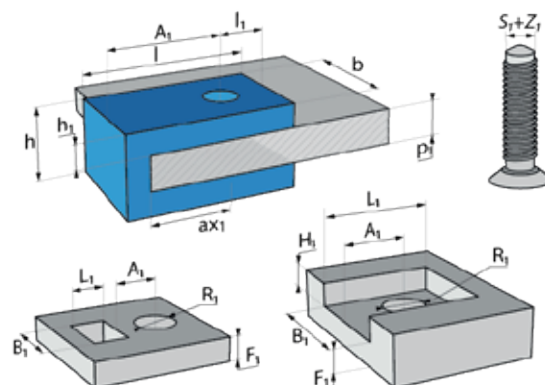
APPLICATION INFORMATION

- Can be mounted on an edge or center hole in panel
- Available with or without retaining ring to hold in position until assembly
- 5-prong features provide increased torque in joint

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

U-Nuts - Multi-thread - Non-prevailing torque

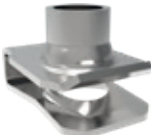


All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
138020		M5 x 0.80	8.3-8.8	0.5-4	12.5 max.	25.5	15.5
138023		M5 x 0.80	8.3-8.8	0.5-4	12.5 max.	25.5	15.5
013176		M6 x 1	6.8-7.2	0.5-4	11-11.5	24	16
017021		M6 x 1	7-7.5	3.5-7	11.5	24.9	16
138022		M6 x 1	9.9-10.4	0.5-4	12.5 max.	25.5	18.5
135206		M6 x 1	9.92-10.68	0.8-3.81	11.5-12.5	23.37	14.22
135210		M6 x 1	9.92-10.68	0.8-3.81	11.5-12.5	23.37	14.22
138322		M6 x 1	9.92-10.68	0.8-3.81	11.5-12.5	23.37	14.22



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
138330		M8 x 1.25	11.32-12.08	1.5-5.5	12.5-13.5	24.89	17.02
138345		M8 x 1.25	11.7 min.	0.5-4	13.5 max.	27.7	19.5
138331		M10 x 1.50	15.3 min.	1.5-5.5	17 max.	32.5	24
138056		ST4.2_8-18	7.55 min.	0.5-2	8.1 max.	17.3	12.5
231300		ST4.2_8-18	7.55 min.	0.5-2	8.1 max.	17.3	12.5
138280		ST4.2_8-18	7.55 min.	0.65-3.8	14 max.	22	12.5
138055		ST4.2_8-18	7.55 min.	0.65-3.8	8.1 max.	16.3	12.5
135211		ST4.2_8-18	7.55 min.	2-3	8.1 max.	16.8	12.5

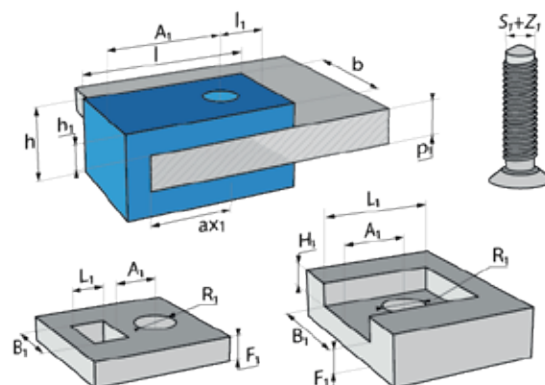
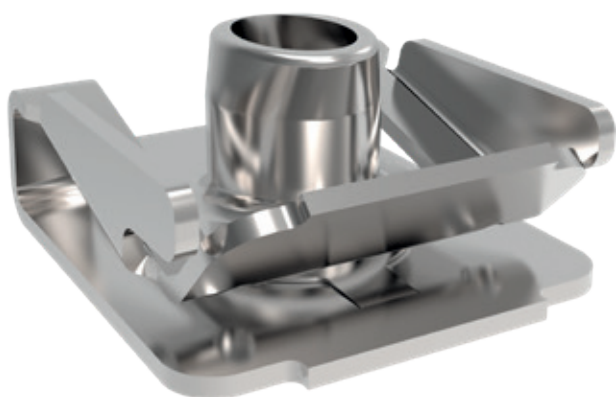
APPLICATION INFORMATION

- Available with or without retaining ring to hold in position until assembly
- Can be mounted on an edge or center hole in panel

**Contact us
for more dimensions
and variants!** See p. 144

Nuts

U-Nuts - Multi-thread - Prevailing torque

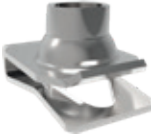
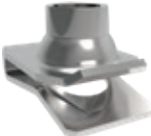
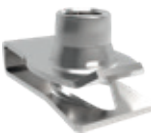


All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
138006		M6 x 1	9.9-10.4	0.5-4	12.5 max.	25.5	18.5
138288		M6 x 1	9.92 min.	3-4.3	12.5 max.	23.37	14.22
232811		M6 x 1	9.92-10.38	0.8-4	12	23.37	14.22
135202		M6 x 1	9.92-10.68	0.8-3.81	11.5-12.5	23.37	14.22
138268		M6 x 1	9.92-10.68	0.8-3.81	11.5-12.5	23.37	14.22
223485		M6 x 1	10-11.2	1.5-1.85	8	8.7	10.8
015265		M6 x 1	10.5-10.7	0.5-4	8.2-8.5	19.9	18
138272		M8 x 1.25	11.32-12.08	0.8-4	12.5-13.5	24.89	17.02



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Screw Specification (S1)	Hole Diameter (R1)	Panel Thickness (F1)	Center to Edge Distance (A1)	Length (l)	Width (b)
138289		M8 x 1.25	11.32-12.08	0.8-4	12.5-13.5	24.89	17.02
138275		M8 x 1.25	11.32-12.08	0.8-4	12.5-13.5	25	17
135220		M8 x 1.25	11.32-12.08	1.5-5.5	12.5-13.5	24.89	17.02
138273		M8 x 1.25	11.7-12.3	1.5-5.5	19.5-20.5	31.5	17
138276		M10 x 1.50	15.3 min.	1.5-5.5	17 max.	32.5	24

APPLICATION INFORMATION

- Can be mounted on an edge or center hole in panel
- Available with or without retaining ring to hold in position until assembly

**Contact us
for more dimensions
and variants!** See p. 144



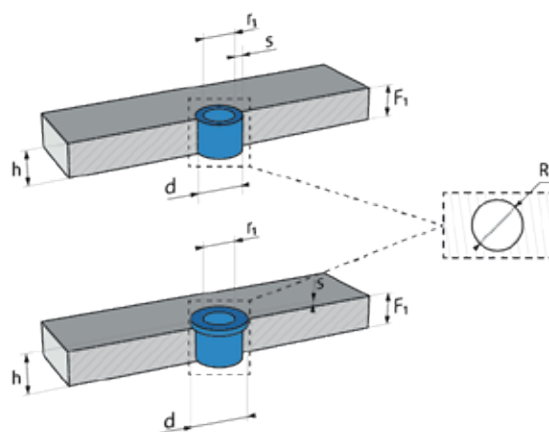
PROTECTING & FINISHING

PROTECTING AND FINISHING

		Anti-creeping rings - Round elastic.....p.116-117
		Anti-creeping rings - Round non-elasticp.118
		Anti-creeping rings - Oblong elasticp.119
		Anti-creeping rings - Oblong non-elasticp.120
		Anti-creeping rings - Slide-on.....p.121
		Plugs - Round & oblong holesp.123

Anti-creeping rings

Round elastic



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)
202527		7.2	3
204303		9.5	5.1
207073		9.8	3
227398		10.4 max.	16.5
128688		11	12
213504		12.3	6
235194		12.5	3.3
205152		15	5

Anti-creeping rings

Round elastic



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)
225767		15.9	5

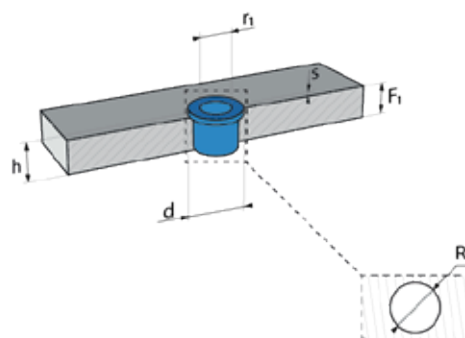
APPLICATION INFORMATION

- Provide structural support to plastic components
- Allow screw/bolt compression without the risk of torque relaxation
- Tension fit

**Contact us
for more dimensions
and variants!** See p. 144

Anti-creeping rings

Round non-elastic



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Panel Thickness (F1)
229493		7.5	3.4
151485		8.9	5.8
227266		10.7	3
055504		11.2	2.7

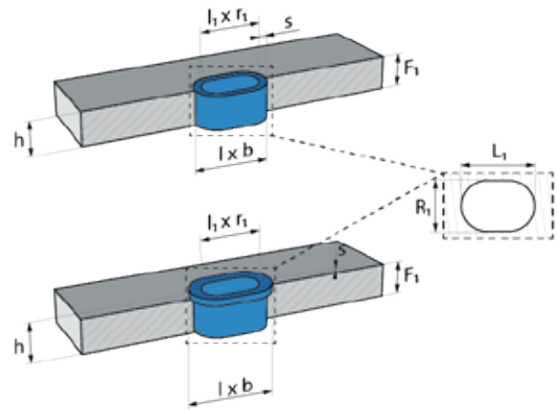
APPLICATION INFORMATION

- Provide structural support to plastic components
- Allow screw/bolt compression without the risk of torque relaxation
- Press fit

**Contact us
for more dimensions
and variants!** See p. 144

Anti-creeping rings

Oblong elastic



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)
211934		7.9-8.1	13.9-14.1	13
213933		9	14.4	7
131459		9.4	17.9	4
214885		10.1	11.6	4
128949		11.8	16.9	3
233231		16	27.4	4

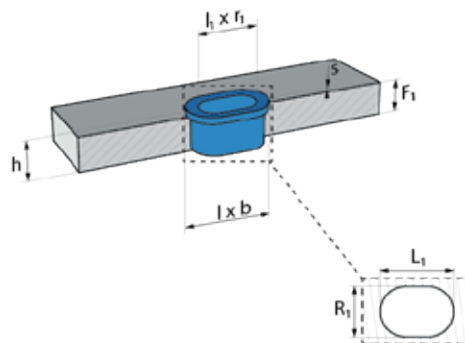
APPLICATION INFORMATION

- Provide structural support to plastic components
- Allow screw/bolt compression without the risk of torque relaxation
- Tension fit

**Contact us
for more dimensions
and variants!** See p. 144

Anti-creeping rings

Oblong non-elastic



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)
239482		7.9-8.1	10.9-11.1	2.9-3.1
133001		10.2	20	3.7
201054		10.7-10.9	13.7-13.9	6.9-7.1
229494		13	18	3.2

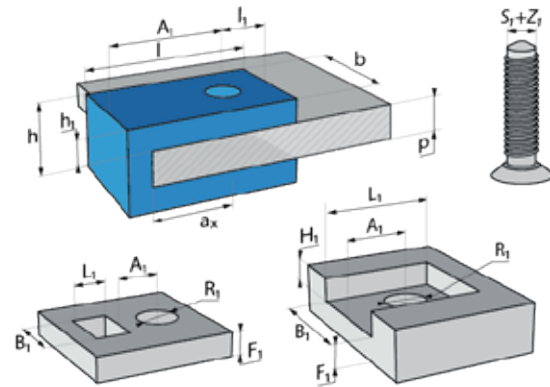
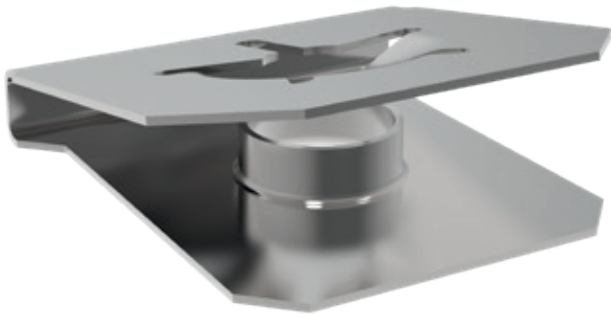
APPLICATION INFORMATION

- Provide structural support to plastic components
- Allow screw/bolt compression without the risk of torque relaxation
- Press fit

**Contact us
for more dimensions
and variants!** See p. 144

Anti-creeping rings

Slide-on



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Center to Edge Distance (ax1)	Panel Thickness (F1)
137727		9.1	13.05	2.8
137835		9.4	13.05	2.8-3.2
138065		9.4	18.35	5
137749		11.5-12.5	13	2.8-3.2

APPLICATION INFORMATION

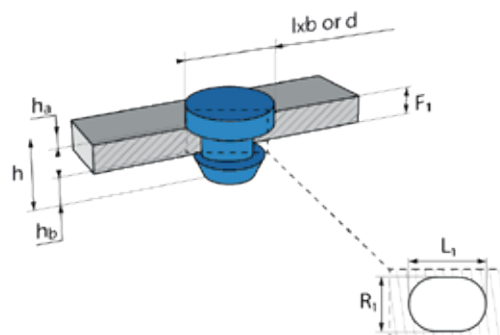
- Provide structural support to plastic components
- Allow screw/bolt compression without the risk of torque relaxation
- See page 107 for Anti-creeping U-nuts

**Contact us
for more dimensions
and variants!** See p. 144



Plugs

Round & oblong holes



All dimensions in mm unless otherwise specified. / Other dimensions and variants on request.

Ref.	Design	Hole Diameter (R1)	Length of Hole (L1)	Panel Thickness (F1)
205091		9	-	8
020817		10-10.2	16-16.2	0.8-1.2
201644		15	-	1.6-2
014373		15-15.4	-	3.2-3.5
020758		16	22	0.7
019555		24-24.6	-	0.8

APPLICATION INFORMATION

- Watertight seal
- Reduces vibration and associated noise
- Grommet variations available

**Contact us
for more dimensions
and variants!** See p. 144



VEHICLE SPECIFIC DEVELOPMENTS

Brackets.....	p.126
Cable channels	p.128
Covers and protectors	p.130
Custom development & manufacturing expertise.....	p.132
Closure bumpers.....	p.133
Washer nozzles & accessories	p.134
Quick connectors for automotive fluid lines	p. 135
Bonding solutions for automotive fasteners	p.136

Brackets

Vehicle specific developments

Multi-purpose holders and adapters designed for wires, sensors, connectors, pipes, relays, heavy-duty assemblies and more.

ARaymond brackets in metal, plastic, or combination assemblies are designed to perform in a wide variety of applications and environments. Our core competencies in stamping and bending of spring or mild steel are applied to create functional brackets for pipe or cable routing, or when strength is required. By combining our expertise and assembly system portfolio, we create custom solutions to fulfill your needs.



ROBUST

Our spring steel brackets are ideal for harsh environments and high temperature areas, for applications such as underbody, engine bay, and wheel arches.

VERSATILE

We can provide versatile, complex shapes to suit almost any packaging requirement, as well as surface treatment to suit all vehicle environments.

WEIGHT SAVING

Spring steel is a light weight, high strength and yet flexible material specifically suitable for ergonomic fastening.

Our plastic brackets are lightweight and resistant to high temperatures.

SPRING STEEL BRACKETS



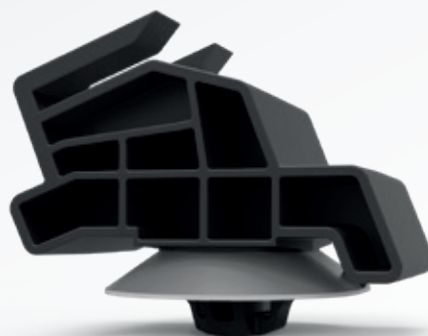
PLASTIC BRACKETS



PLASTIC & METAL BRACKET ASSEMBLIES



BI-INJECTION



Cable channels

Vehicle specific developments

Protecting or forming of the wiring harness

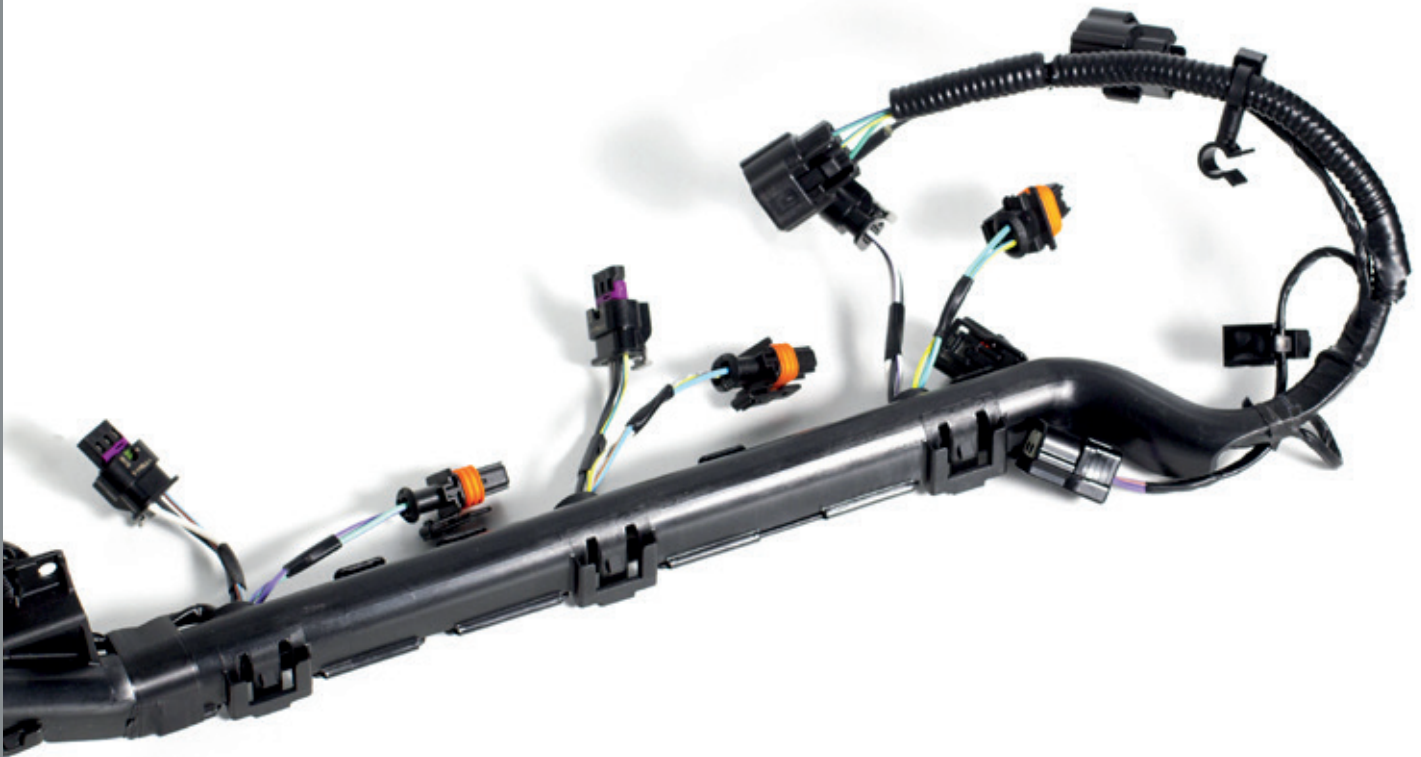
Our many years experience and design expertise allow us to develop cable channels which are optimized to fit both our wire harness customers and OEMs requirements and specifications.

ROBUST AND OPTIMIZED

The ARaymond™ cable channels are made from injection-molded plastic components with or without metal inserts and provide robust performance throughout the vehicle's lifetime. The parts allow an optimized number of fixing points while maintaining complete control of wire harness.

REPEATABILITY

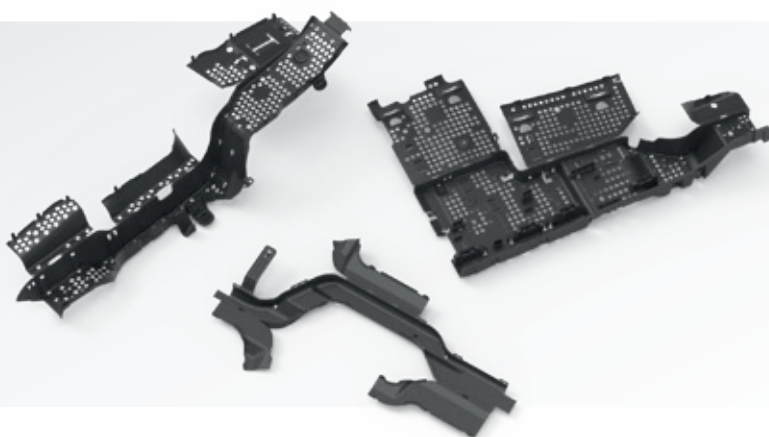
Our designs facilitate quick and easy assembly line processes. They provide **repeatable wiring harness assembly, even in complex packaging areas.**



ENGINE BAY



INTERIOR



UNDERBODY



HIGH VOLTAGE



Covers & protectors

Vehicle specific developments

These parts protect, can provide serviceability, offer strain relief, and improve aesthetics.

ASSEMBLY VERIFICATION

Our parts can be embedded with QR / bar codes or RFID tags, for in-process assembly verification and automated visual inspection.

ROBUST DESIGN

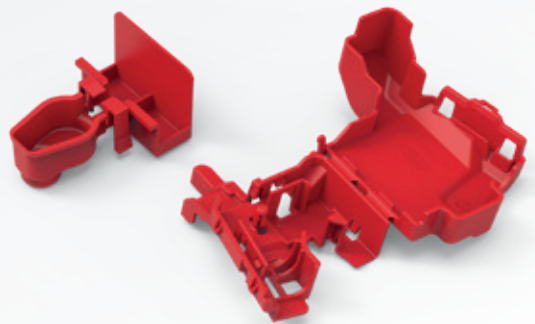
Our protectors allow for several assemblies and disassemblies without loss of performance, and prevent short circuiting.

SECURE FASTENING

Our multifunction dress covers protect harness wires, provide strain relief, and beautify the engine compartment.



BATTERY POSITIVE COVERS AND PROTECTORS



ELECTRONIC BOX PROTECTORS



DRESS / STRAIN RELIEF COVERS



Custom development & manufacturing expertise

Vehicle specific developments

DESIGN, MANUFACTURING & ASSEMBLY OF COMPLEX PARTS AND MECHANISMS

ARaymond offers vehicle specific development services to respond to assembly challenges.

We handle all stages of the development process, from product design to manufacturing of complex or detailed parts.

We also combine our expertise in clipping, connecting, and bonding to provide the best assembly solution.

TOC Bracket

Lightweight bracket to replace a complex mounting assembly for transmission oil cooler.

Window positioning clip

Easy to mount and adjust for the tolerances of window positioning before bonding.

Window channel

Designed to ensure that rubber cannot move during the repeated up and down movements of the glass.

Roof molding flap

Easy to mount, delivered as a mounted part combining the two plastic parts, and in trays to allow a fully automatic assembly.

Modular connecting rod

Fixed between the suspension arm and the height sensor, and can be assembled automatically or manually due to a flat surface and audible confirmation.

ACTUATOR AND ADJUSTER

Our experts optimize the design of individual parts to be assembled together to ensure both a good assembly and end performance.

100% control of assembly to ensure the functioning of the part.



Closure bumpers

Vehicle specific developments

A full range of solutions for closure systems

ASSEMBLY TIME REDUCTION

Our bumpers allow assembly time reduction due to a perfect fit and an easy assembly process.

PERCEIVED QUALITY

We can improve passenger comfort and vehicle aesthetics by reducing noise propagation and ensuring fit and finish adjustments.

STANDARDIZATION

Our bumpers can be used for different panel thicknesses allowing a wide flexibility of assembly.

POSITIONING BUMPERS



OVERSTROKE BUMPERS



EJECTOR BUMPER



Washer nozzles & accessories

Vehicle specific developments

Solutions for washing and cleaning

Developed to be mounted to the hood (top or bottom), cowl panel, wiper arm/blade, sheet metal, spoiler or in the CHMSL, our nozzles can handle all fluid delivery needs for the front and rear windshields or integrated to clean cameras and sensors.

OPTIMIZED DESIGN

Each nozzle is specifically developed per vehicle application to optimize the nozzle packaging within the vehicle environment and provide efficient fluid consumption.

MULTIPLE SPRAY OPTIONS

We offer many different nozzle options from fixed and adjustable spray patterns with oscillating fan, static fan, jet, or combination (oscillating and jet) patterns, with optional integrated check valves and heating elements to fulfill your cleaning and packaging requirements.



Nozzles and jumper tube assemblies

NOZZLE ACCESSORIES

A variety of ARaymond nozzle accessories are available including in-line check valves, quick connectors, unions, jumper hoses/tubes, and fasteners to support the routing, fastening, and connecting of the fluid supply line throughout the vehicle.

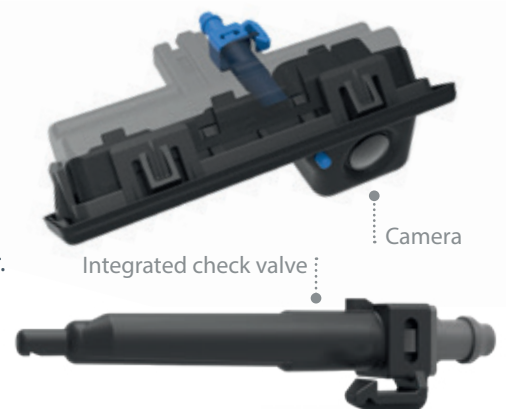


Quick connectors

Check valves

SOLUTIONS FOR CAMERA AND SENSOR CLEANING

Compact design for integration into sensor bracket or housing.
Low profile nozzle head provides a clear viewing field from camera or sensor.
Custom attachment methods for easy assembly and serviceability.



Camera

Integrated check valve

QUICK CONNECTORS

FOR AUTOMOTIVE FLUID LINES

As a **pioneer in plastic Quick Connectors**, ARaymond has developed and patented many QCs for more than 20 years. Since then, we have **constantly innovated** to meet new customer requirements and prepare for emerging automotive industry trends.



Adapt to any packaging environment with a wide range of geometries, angles and multiways



VDA for Engine and Battery Cooling



P2L® manual connection with visual confirmation

Check out our e-catalog:
<http://connecting.araymond-automotive.com>

BONDING SOLUTIONS FOR AUTOMOTIVE FASTENERS



Successful bonding is not just about the adhesive choice; we develop **a complete tailor-made solution** guaranteeing **performance and satisfaction** through the last day of production.

For a secured and reliable bonding assembly

- Improved quality
- Process reliability
- Cost control
- Innovative designs and personalized support

ASSEMBLY OF ADD-ON PARTS ON GLAZING

Bonded sensors and cameras

- Bonded pre- or post-autoclave, which allows more freedom on the assembly line.
- No curing stock.

Bonded opening glazing systems

Allows reduced glass dimensions, lighter weight and improved design.



AESTHETIC FASTENING

This ready-to-assemble and invisible solution offers a perfect A-surface while maintaining strength. Because it is compact, packaging and shipping are more efficient and cost effective.



ANCHOR POINTS ON COMPOSITE MATERIALS

- Respect the structural integrity of lightweight materials.
- Eliminate corrosion between two incompatible materials.
- Easy to mount from a variety of positions.

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