



INDUSTRY CATALOG

Discover LISI AUTOMOTIVE products designed for all types of applications.

lisi AUTOMOTIVE

www.lisi-automotive.com



LISI is a global industrial group, specialised in manufacturing customer value-added assembly solutions and components for the **aerospace**, **automotive** and **medical** sectors.

TURNOVER BY ACTIVITY



LISI GROUP 2019 KEY FIGURES

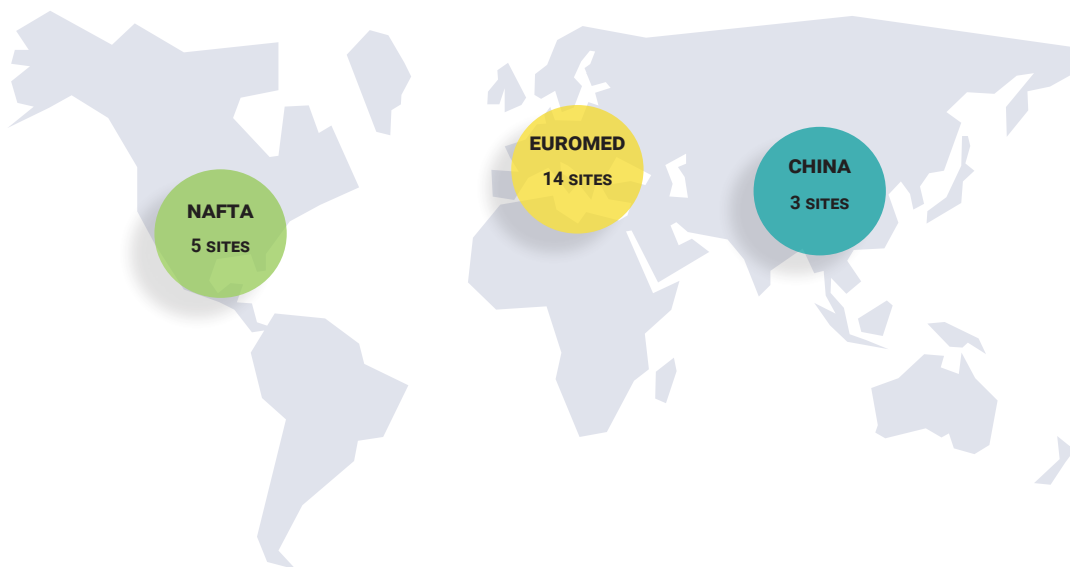
1 730 M€
sales revenue

45
industrial sites

11 171
collaborators

7 %
of sales for invest

MAIN CLIENTS BY ACTIVITY



NAFTA

LAKE ZURICH
LIVONIA
MONTERREY
QUERETARO
WINDSOR

EUROMED

CEJC
DASLE
DELLE
LA FERTÉ-
FRESNEL
GRANDVILLARS
HEIDELBERG
KIERSPE
LURE
MADRID
MÉLISEY
MELLRICHSTADT
PUISEUX
TANGER
VÖHRENBACH

CHINA

BEIJING
SHANGHAI
SUZHOU

LISI AUTOMOTIVE 2019 KEY FIGURES

588 M€
sales revenue

22
sites

37 M€
invested

3 600
collaborators

PERFORMANCE

AS AN INDUSTRIAL ENTERPRISE

The reliability of our products is a priority:

- **Laboratories** and **in-house** 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 project** has been launched in addition to the traditional R & D programs of the company.

Many innovations are developed at the request of a customer, but other innovations can also be initiated by the employees of LISI Automotive, and by exchanging with our suppliers, our research partners, our customers, etc.



INNOVATION LAB

OPTIMIZATION

TO EASE ASSEMBLY SYSTEMS

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



LIGHTWEIGHTING

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**



OUR BRANDS

KNOW-HOW YOU CAN TRUST

The combination of these skills has increased the expertise of LISI AUTOMOTIVE to respond to your needs more effectively.



CONTACT US

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FASTENERS FOR TUBES, WIRE-RODS, CABLES, AND HARNESSSES

Fasteners for cables, wire-rods, tubes or harnesses on panels, profiles, or other cables.

Clips for tubes, wires or harnesses

These parts fasten tubes or cables on a support (Panel, profile...)

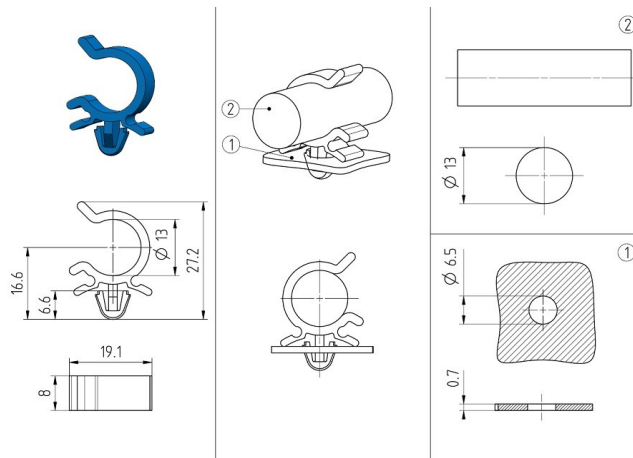
Part number	Material	Coating *	Colour	Packaging	Type **	Number of tubes	Minimum tube or cable diameter	Maximum tube or cable diameter	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter / Stud diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	Metal thickness (e)	Shape
01232	Plastic		Natural	2400	•	1	13	13	0.7	0.7	6.5		19.1	8	27.2		
C36214QJ	Steel	•	Black	2000	••	1	12	12	1.8	2.2			17.5	14		0.6	2
C8641MX	Steel	••	Silver	2000	••	1	7	8	1	2.5			13.6	15	18.4	0.4	
D380A	Plastic		Black	1300	•	2	5.25	5.25	0.8	2.5	12.2	6.2	23	22	27		
D707B	Plastic		Black	900	•	2	4.7	5.25	5.3	6.2	12.2	6.2	36.5	22	32		
EAP0001	Metal / Plastic		Black / Silver	500	••	1	10	25	0.7	3			50	14	57.5	0.4	
EAP0002	Metal / Plastic		Black / Silver	1600	••	1	3	13	1.5	2.5			24	10	28.5	0.4	
EPL0025	Plastic		Black	800	•	1	3	15	0.6	1.5	12.2	6.2	27	24	28.5		
EPL0026	Plastic		Natural	2400	•	1	3	9	0.7	2.5	6.5		18	21.5			
EPL0138	Plastic		Black	1000	•	2	4.8	8	2	2.5	12.2	6.2	38.6	23	23.5		
EPL0142	Plastic		Black	1600	•	3	4.8	5.25	2.5	4.5	8.2		30	18.8	30		
MP5377A	Metal / Plastic		Black	1100	••	1	3	13	0.5	3			25.5	14	23.2	0.4	
MP8462A	Metal / Plastic		Black	800	••	1	15	22	1.5	1.5			28	14			
P8231B	Plastic		Black	1000	•••	1	5.2	8	1.5	4	6.5		18	18	29.5		
PRD04704	Plastic		Black	2000	•	1	13	15	0.6	2.5	6.5		20		34		
PRD04709	Plastic		Natural	4000	••••	1	3	3.5	0.3	1.5	10.2		18		15.5		
PRD04719	Plastic		Black	2000	••	1	3	10	0.67	1.5	6.2		18.7	10	25		
PRD04725	Plastic		Black	3000	•	1	2.5	4	0.3	1.5	10	5	16.5	14			
PRD04808	Plastic		Black	1200	•	1	11	20	0.7	3	12.2	6.2	49	24	52		
PRD04902	Plastic		Black	1000	•	1	22	24	2.5	7	12.2	6.2	63	26	52		
PRD05013	Plastic		Yellow	1000	•	1	8	8	0.7	1	16.2	5.2	28.5	10	23.2		
PRD05232	Plastic		Black	800	•	3	8	10	0.7	4	10.2		48.2	12	31.5		
SC07363ZYD	Stainless steel		Silver	2000	••	2	2.3	2.3	3	3.2			9.1	10	6.6	0.3	
SC07647AZZD	Stainless steel		Silver	2000	••	2	2.3	2.3	2.5	4.1			9.2	10	7.7	0.3	
ZUS7721	Metal / Plastic		Black	1000	••	2	2	16	1.75	3.25			44.6	13	24.5		

* COATING : • Phosphate + sealer, •• Zinc flake

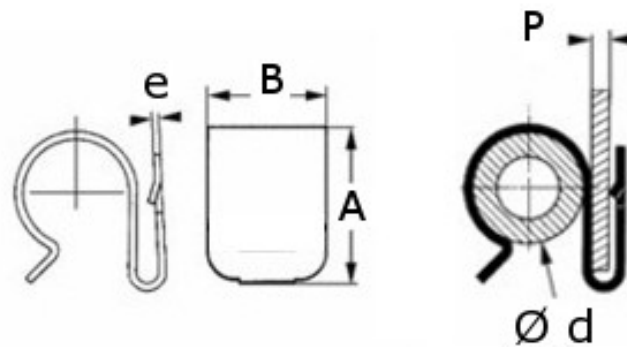
** TYPE : • To clip in a hole, •• To snap on an edge, ••• With integrated rivet, •••• Quarter turn



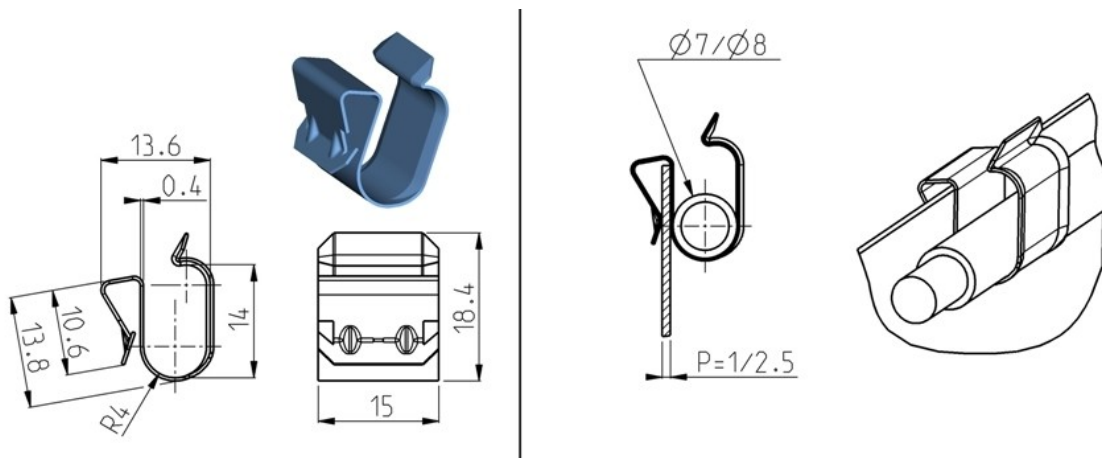
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DRAWING FOR PART NUMBER(S) : C36214QJ

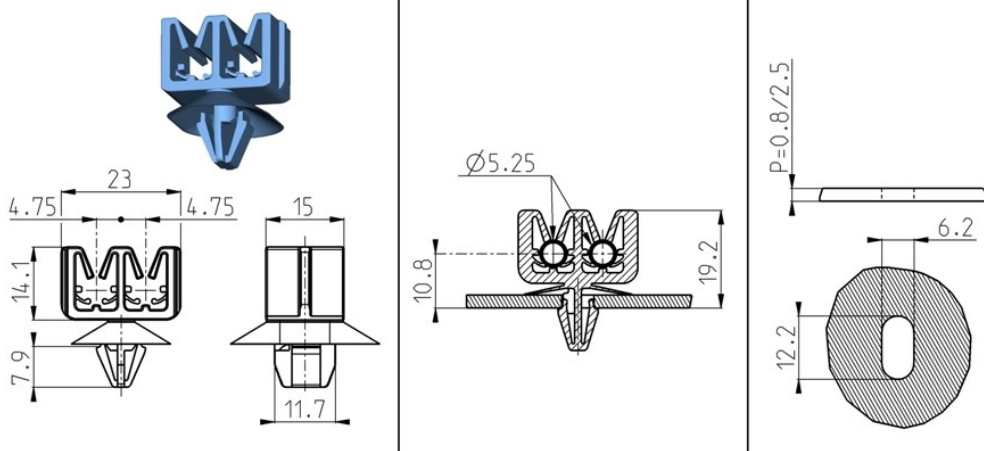


DRAWING FOR PART NUMBER(S) : C8641MX

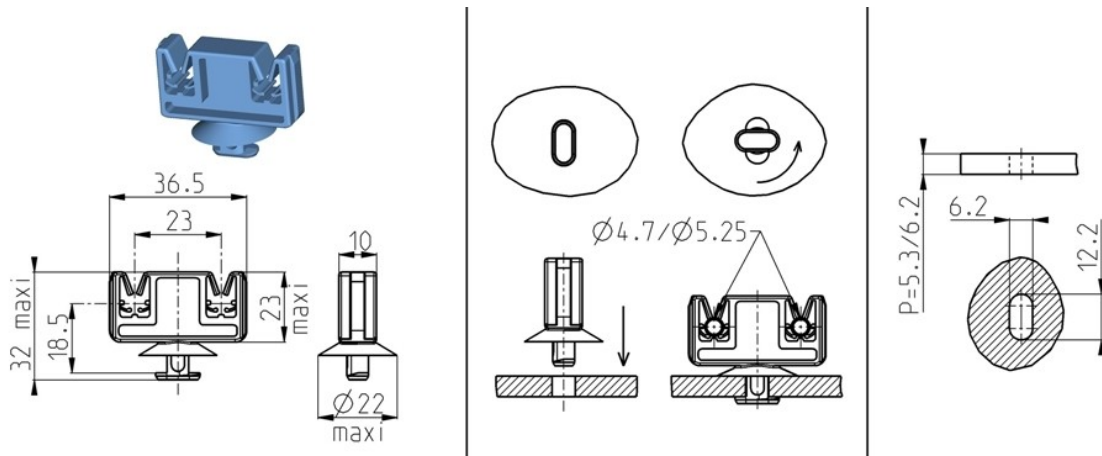




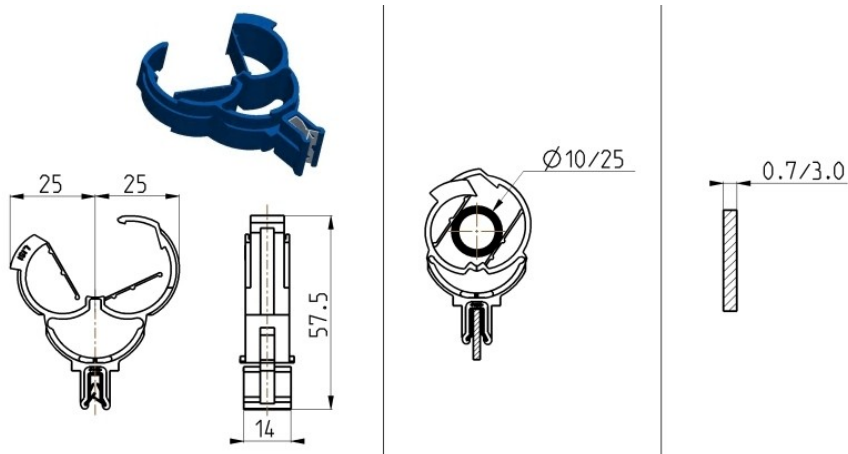
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DRAWING FOR PART NUMBER(S) : D707B

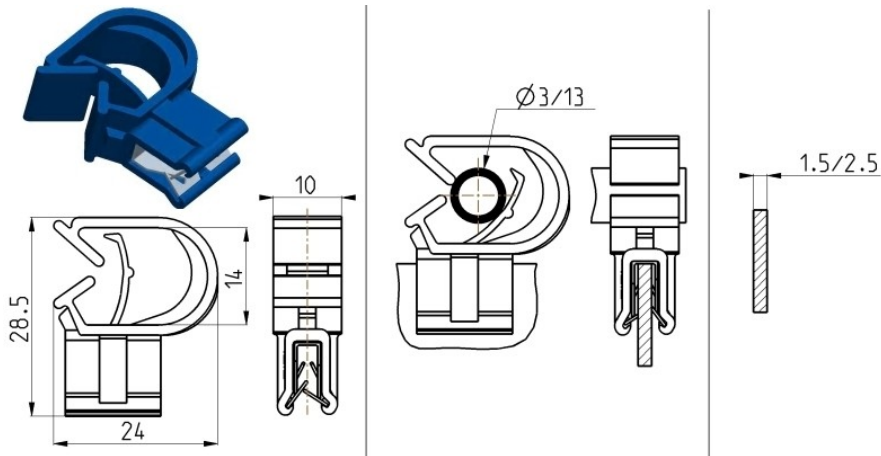


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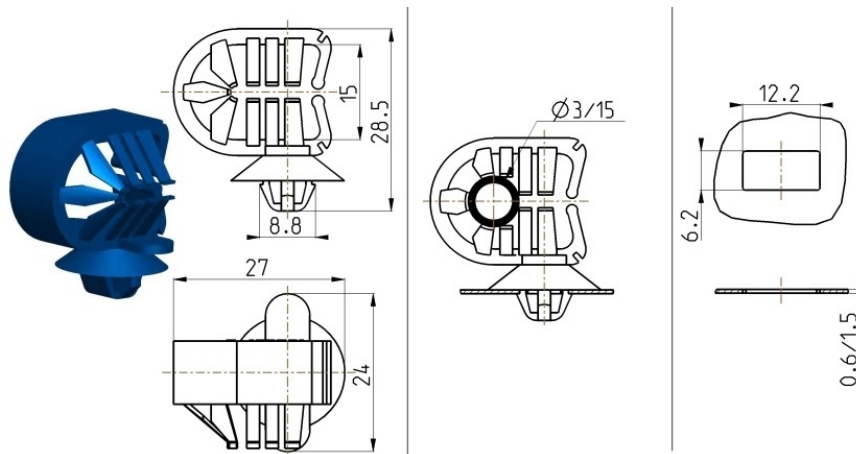




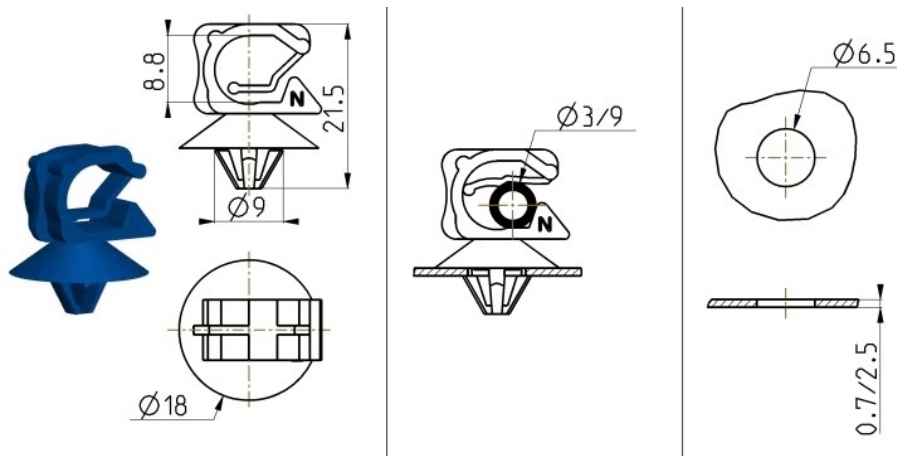
DRAWING FOR PART NUMBER(S) : EAP0002



DRAWING FOR PART NUMBER(S) : EPL0025

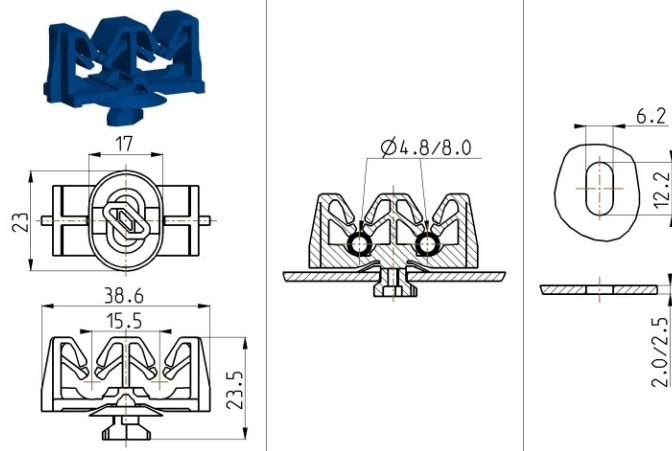


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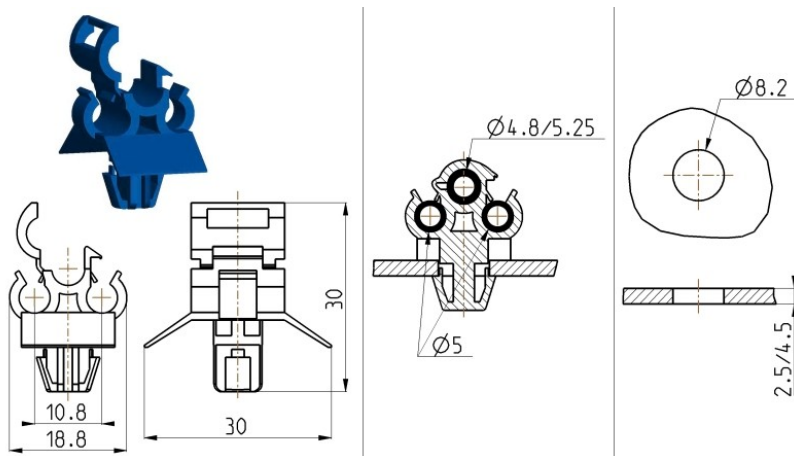




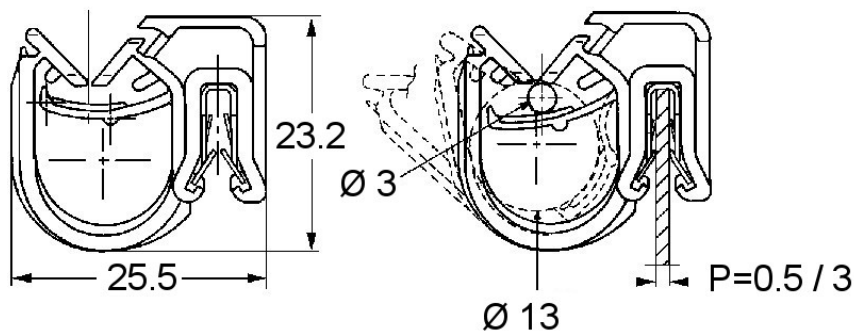
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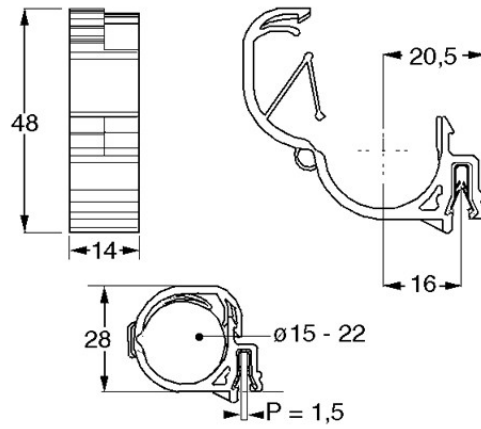


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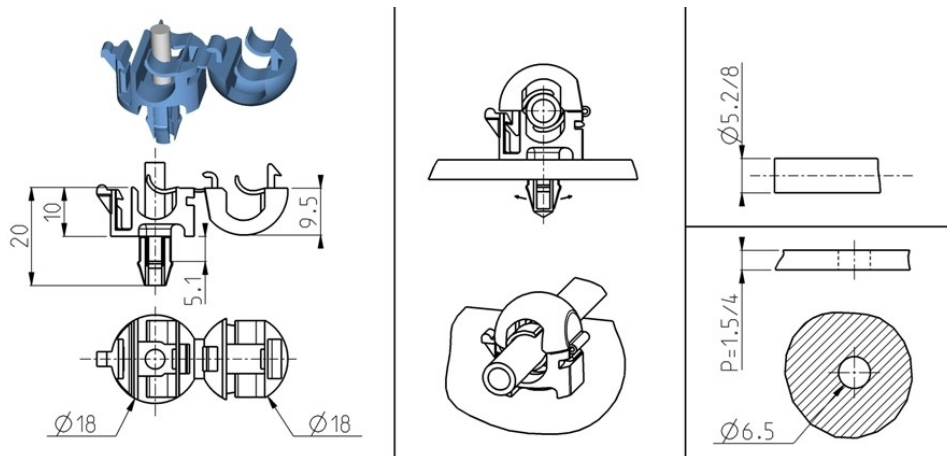




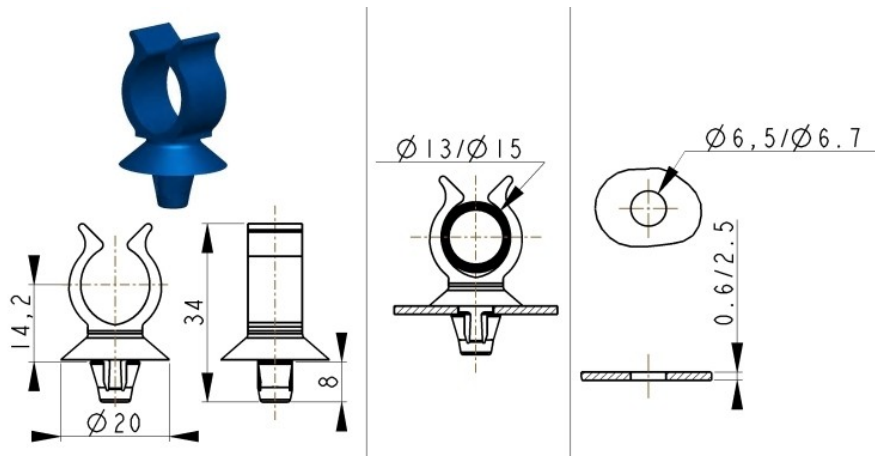
DRAWING FOR PART NUMBER(S) : MP8462A



DRAWING FOR PART NUMBER(S) : P8231B

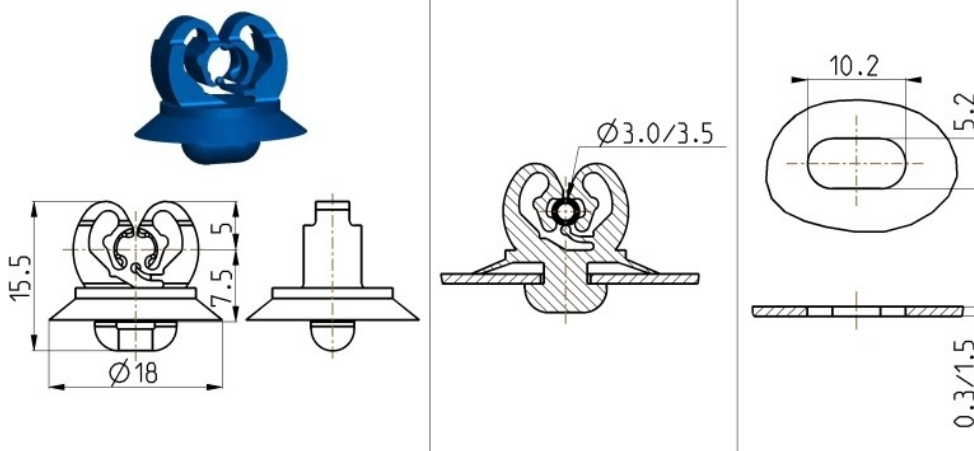


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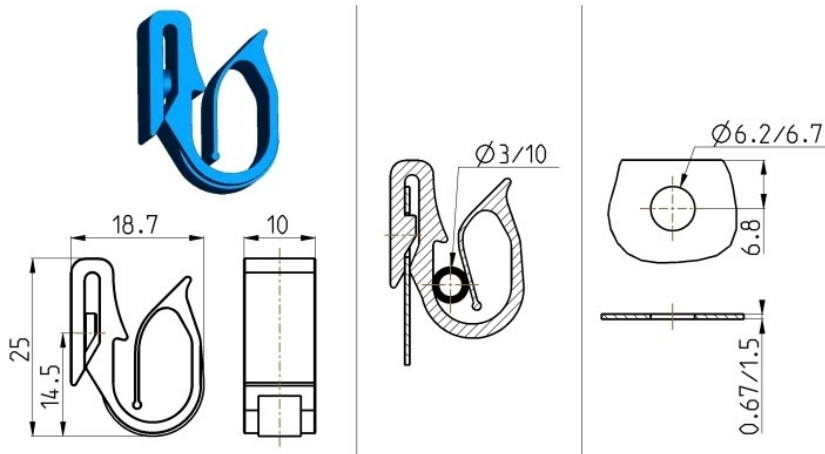




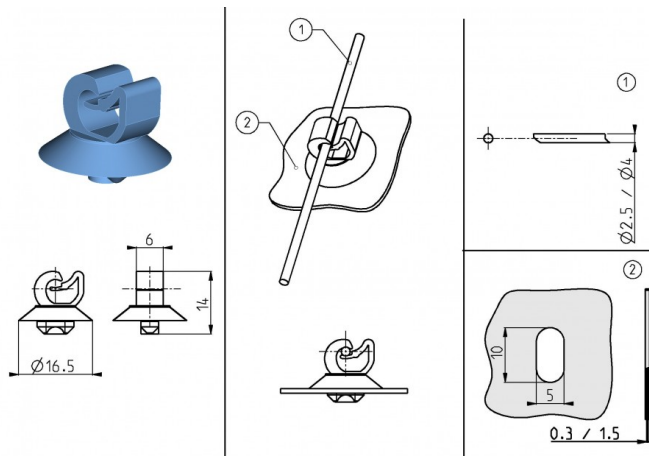
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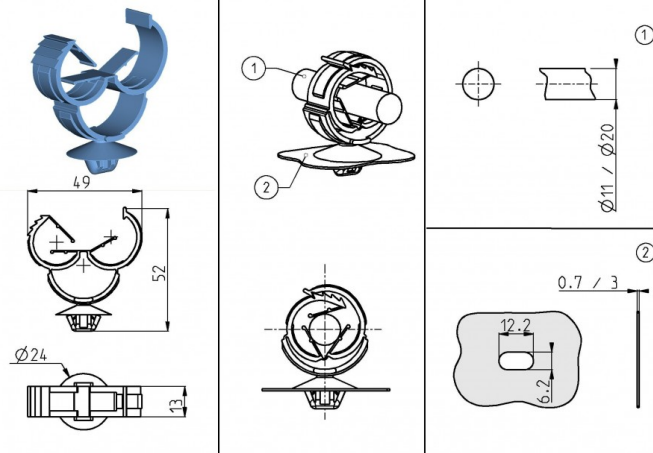


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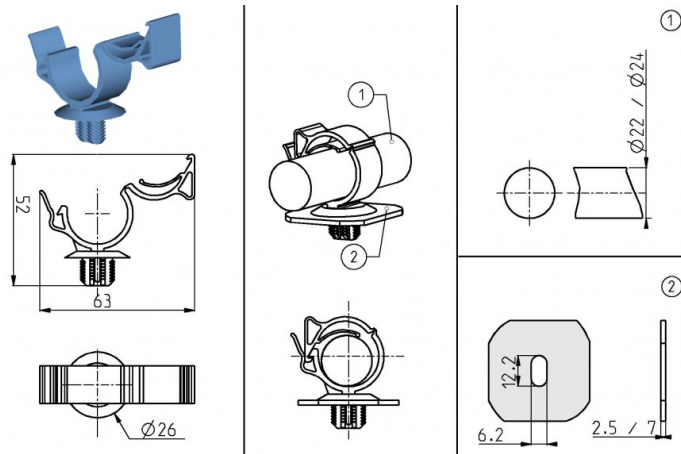




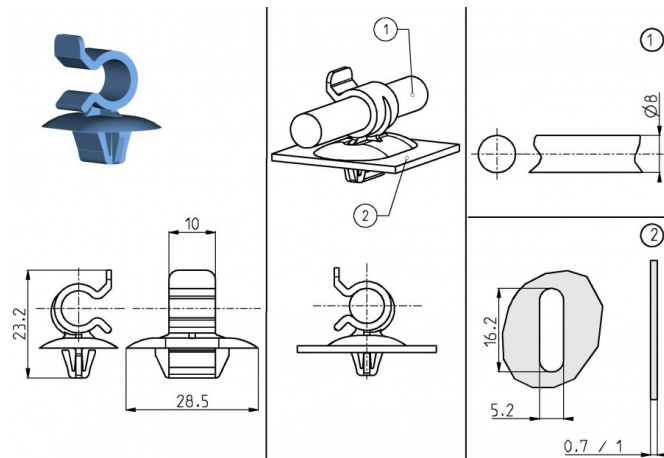
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DRAWING FOR PART NUMBER(S) : PRD04902

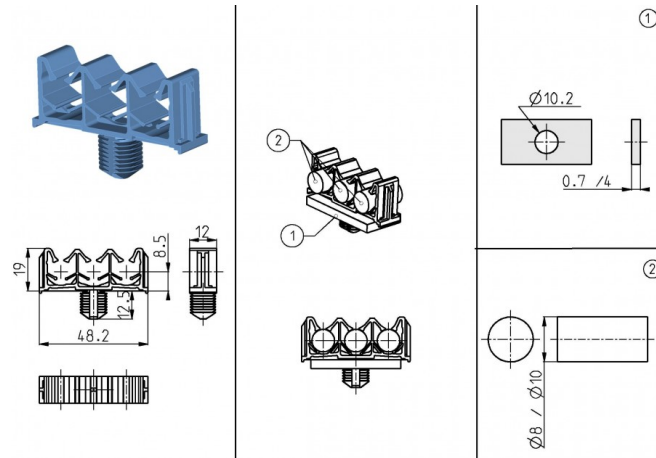


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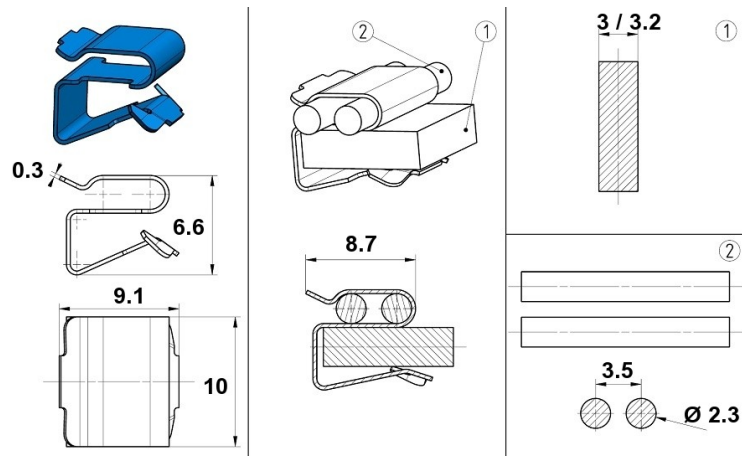




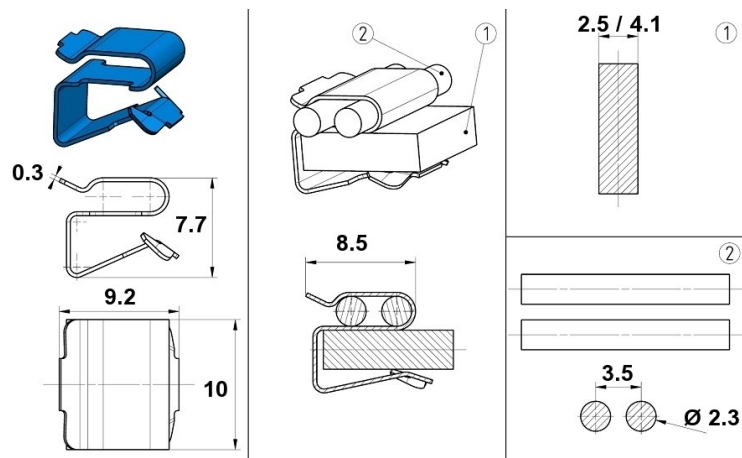
DRAWING FOR PART NUMBER(S) : PRD05232



DRAWING FOR PART NUMBER(S) : SCO7363ZYD

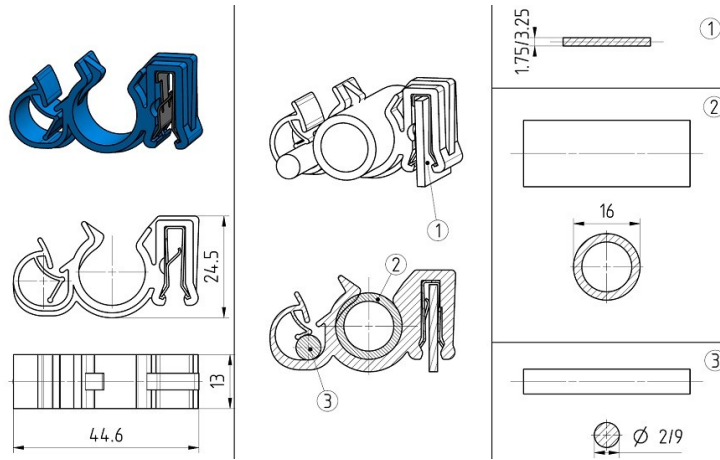


DRAWING FOR PART NUMBER(S) : SCO7647AZZD





DRAWING FOR PART NUMBER(S) : ZUS7721





FASTENERS FOR TUBES, WIRE-RODS, CABLES, AND HARNESSSES

Fasteners for cables, wire-rods, tubes or harnesses on panels, profiles, or other cables.

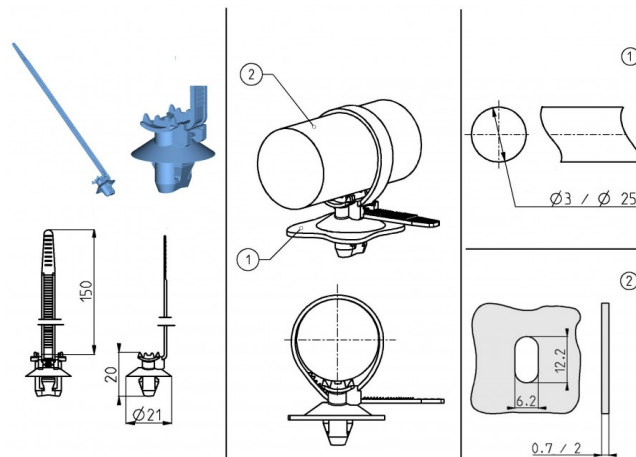
Clips with strap for tubes, wires or harnesses

These parts include or use a strap to fasten tubes or wires

Part number	Material	Colour	Packaging	Type *	Number of tubes	Minimum tube or cable diameter	Maximum tube or cable diameter	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter / Stud diameter (M)	Hole width (N)	Part length or diameter (A)	Part height (H)
PRD04848	Plastic	Black	1200	•	1	3	25	0.7	2	12.2	6.2	21	170

* TYPE : • To clip in a hole

DRAWING FOR PART NUMBER(S) : PRD04848





Visit web site "lisicatalog.lisi-automotive.com" for details on products of above families.
Packaging, availability and delivery time on request.

FASTENERS FOR TUBES, WIRE-RODS, CABLES, AND HARNESSSES

Fasteners for cables, wire-rods, tubes or harnesses on panels, profiles, or other cables.



Rigid spacers for tubes, wires or harnesses

These parts join together several tubes or wires or keep them separated



Swivelling spacers for tubes, wires or harnesses

These parts comprise of two swivelling components, and fasten together several tubes or wires or keep them separated



Wire and tubes channels

These parts guide and fasten tubes, wires and harnesses in specific configurations.



Clips for wire-rods

These parts are specially designed for straight or bent wire-rods, and are clipped in a hole in the support



Accessories and miscellaneous

Accessories and various products to fasten tubes, wire-rods, wires and harnesses



FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.

Fastening systems with clips to be riveted or screwed and studs

These parts comprise of a clip screwed or riveted on a fixed support and a stud screwed on a part which is removable. When assembled, the parts are hidden and allows blind assembly / disassembly

Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Part length or diameter (A)	Part width (B)	Part height (H)	d1	d	B1	H1	H2	Metal thickness (e)	Extraction force (daN)	Shape
C4402452/R10292HG	Steel	•	Black / Silver	1000/1000	•	1.5	5	51	18	14.3	5.2	M 6		10	25	0.4	1	b
C4402452/R6775	Steel	•	Black / Silver	1000/1500	•	4	7.5	51	18	14.3	5.2	M 5		7	27.4	0.4	1	b
C4402552/R10292HG	Steel	•	Black / Silver	1000/1000	•	1.5	5	51	18	14.4	5.2	M 6		10	25	0.5	3	b
C4402552/R6775	Steel	•	Black / Silver	1000/1500	•	4	7.5	51	18	14.4	5.2	M 5		7	27.4	0.5	3	b
C4402652/R10292HG	Steel	•	Black / Silver	1000/1000	•	1.5	5	51	18	14.5	5.2	M 6		10	25	0.6	5	b
C4402652/R6775	Steel	•	Black / Silver	1000/1500	•	4	7.5	51	18	14.5	5.2	M 5		7	27.4	0.6	5	b
C4402752/R10292HG	Steel	•	Black / Silver	1000/1000	•	1.5	5	51	18	14.6	5.2	M 6		10	25	0.7	8	b
C4402752/R6775	Steel	•	Black / Silver	1000/1500	•	4	7.5	51	18	14.6	5.2	M 5		7	27.4	0.7	8	b
C4410/R6299	Steel	•	Black / Silver	5000/4000	•	2.2	3	26	12	7.6		M 5	7.5	10	12.7	0.3	3	b
C4410/R6333	Steel	•	Black / Silver	5000/4000	•	1.5	2.1	26	12	7.6		M 5	7.5	10	12	0.3	3	b
C4410/R6374	Steel	•	Black / Silver	5000/3000	•	7.2	8.2	26	12	7.6		M 5	7.5	10	18	0.3	3	b
C4410/R6486	Steel	•	Black / Silver	5000/4000	•	3.1	4.1	26	12	7.6		M 5	7.5	10	14	0.3	3	b
C4410/R6707	Steel	•	Black / Silver	5000/8000	••	2.2	3	26	12	7.6		M 3	7.5	4.5	12.7	0.3	3	c
C4410/R6883	Steel	•	Black / Silver	5000/5000	•	0.9	1.4	26	12	7.6		M 4	7.5	10	11.4	0.3	3	b
C4410/R7105	Steel	•	Black / Silver	5000/5000	•	2.5	3.8	26	12	7.6		4.2	7.5	8	13.4	0.3	3	b
C4410/R7253	Steel	•	Black / Silver	5000/4000	•	4.2	5.2	26	12	7.6		M 4	7.5	7	15	0.3	3	b
C4411/R6299	Steel	•	Black / Silver	5000/4000	•	2.2	3	26	12	7.7		M 5	7	10	12.7	0.4	6	b

* COATING : • Phosphate + sealer / Zinc

** TYPE : • With hole + threaded stud, •• With hole + internally threaded stud



Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Part length or diameter (A)	Part width (B)	Part height (H)	d1	d	B1	H1	H2	Metal thickness (e)	Extraction force (daN)	Shape
C4411/R6333	Steel	•	Black / Silver	5000/4 000	•	1.5	2.1	26	12	7.7		M 5	7	10	12	0.4	6	b
C4411/R6374	Steel	•	Black / Silver	5000/3 000	•	7.2	8.2	26	12	7.7		M 5	7	10	18	0.4	6	b
C4411/R6486	Steel	•	Black / Silver	5000/4 000	•	3.1	4.1	26	12	7.7		M 5	7	10	14	0.4	6	b
C4411/R6707	Steel	•	Black / Silver	5000/8 000	••	2.2	3	26	12	7.7		M 3	7	4.5	12.7	0.4	6	c
C4411/R6883	Steel	•	Black / Silver	5000/5 000	•	0.9	1.4	26	12	7.7		M 4	7	10	11.4	0.4	6	b
C4411/R7105	Steel	•	Black / Silver	5000/5 000	•	2.5	3.8	26	12	7.7		4.2	7	8	13.4	0.4	6	b
C4411/R7253	Steel	•	Black / Silver	5000/4 000	•	4.2	5.2	26	12	7.7		M 4	7	7	15	0.4	6	b
C4412/R6299	Steel	•	Black / Silver	5000/4 000	•	2.2	3	26	12	7.8		M 5	7	10	12.7	0.5	9	b
C4412/R6333	Steel	•	Black / Silver	5000/4 000	•	1.5	2.1	26	12	7.8		M 5	7	10	12	0.5	9	b
C4412/R6374	Steel	•	Black / Silver	5000/3 000	•	7.2	8.2	26	12	7.8		M 5	7	10	18	0.5	9	b
C4412/R6486	Steel	•	Black / Silver	5000/4 000	•	3.1	4.1	26	12	7.8		M 5	7	10	14	0.5	9	b
C4412/R6707	Steel	•	Black / Silver	5000/8 000	••	2.2	3	26	12	7.8		M 3	7	4.5	12.7	0.5	9	c
C4412/R6883	Steel	•	Black / Silver	5000/5 000	•	0.9	1.4	26	12	7.8		M 4	7	10	11.4	0.5	9	b
C4412/R7105	Steel	•	Black / Silver	5000/5 000	•	2.5	3.8	26	12	7.8		4.2	7	8	13.4	0.5	9	b
C4412/R7253	Steel	•	Black / Silver	5000/4 000	•	4.2	5.2	26	12	7.8		M 4	7	7	15	0.5	9	b
C4413/R6299	Steel	•	Black / Silver	5000/4 000	•	2.2	3	26	12	7.9		M 5	7	10	12.7	0.6	12	b
C4413/R6333	Steel	•	Black / Silver	5000/4 000	•	1.5	2.1	26	12	7.9		M 5	7	10	12	0.6	12	b
C4413/R6374	Steel	•	Black / Silver	5000/3 000	•	7.2	8.2	26	12	7.9		M 5	7	10	18	0.6	12	b
C4413/R6486	Steel	•	Black / Silver	5000/4 000	•	3.1	4.1	26	12	7.9		M 5	7	10	14	0.6	12	b
C4413/R6707	Steel	•	Black / Silver	5000/8 000	••	2.2	3	26	12	7.9		M 3	7	4.5	12.7	0.6	12	c
C4413/R6883	Steel	•	Black / Silver	5000/5 000	•	0.9	1.4	26	12	7.9		M 4	7	10	11.4	0.6	12	b
C4413/R7105	Steel	•	Black / Silver	5000/5 000	•	2.5	3.8	26	12	7.9		4.2	7	8	13.4	0.6	12	b

* COATING : • Phosphate + sealer / Zinc

** TYPE : • With hole + threaded stud, •• With hole + internally threaded stud



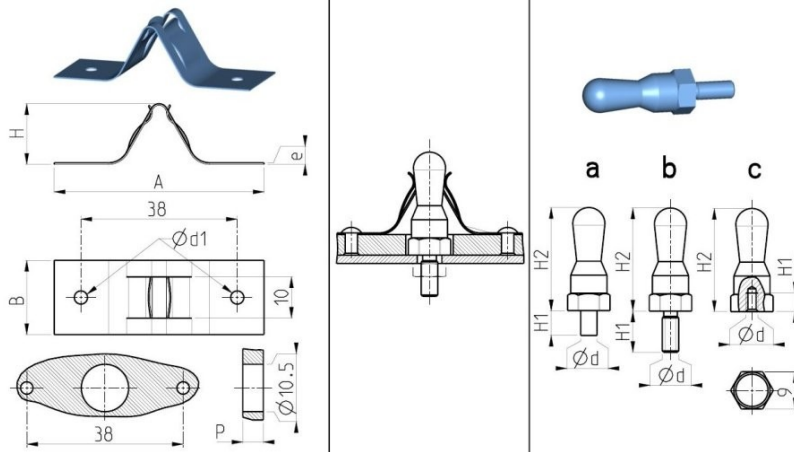
Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Part length or diameter (A)	Part width (B)	Part height (H)	d1	d	B1	H1	H2	Metal thickness (e)	Extraction force (daN)	Shape
C4413/R7253	Steel	•	Black / Silver	5000/4 000	•	4.2	5.2	26	12	7.9		M 4	7	7	15	0.6	12	b
C4414/R6299	Steel	•	Black / Silver	5000/4 000	•	2.2	3	26	12	8		M 5	7	10	12.7	0.7	16	b
C4414/R6333	Steel	•	Black / Silver	5000/4 000	•	1.5	2.1	26	12	8		M 5	7	10	12	0.7	16	b
C4414/R6374	Steel	•	Black / Silver	5000/3 000	•	7.2	8.2	26	12	8		M 5	7	10	18	0.7	16	b
C4414/R6486	Steel	•	Black / Silver	5000/4 000	•	3.1	4.1	26	12	8		M 5	7	10	14	0.7	16	b
C4414/R6707	Steel	•	Black / Silver	5000/8 000	••	2.2	3	26	12	8		M 3	7	4.5	12.7	0.7	16	c
C4414/R6883	Steel	•	Black / Silver	5000/5 000	•	0.9	1.4	26	12	8		M 4	7	10	11.4	0.7	16	b
C4414/R7105	Steel	•	Black / Silver	5000/5 000	•	2.5	3.8	26	12	8		4.2	7	8	13.4	0.7	16	b
C4414/R7253	Steel	•	Black / Silver	5000/4 000	•	4.2	5.2	26	12	8		M 4	7	7	15	0.7	16	b
C4415/R6299	Steel	•	Black / Silver	5000/4 000	•	2.2	3	26	12	8.1		M 5	7	10	12.7	0.8	20	b
C4415/R6333	Steel	•	Black / Silver	5000/4 000	•	1.5	2.1	26	12	8.1		M 5	7	10	12	0.8	20	b
C4415/R6374	Steel	•	Black / Silver	5000/3 000	•	7.2	8.2	26	12	8.1		M 5	7	10	18	0.8	20	b
C4415/R6486	Steel	•	Black / Silver	5000/4 000	•	3.1	4.1	26	12	8.1		M 5	7	10	14	0.8	20	b
C4415/R6707	Steel	•	Black / Silver	5000/8 000	••	2.2	3	26	12	8.1		M 3	7	4.5	12.7	0.8	20	c
C4415/R6883	Steel	•	Black / Silver	5000/5 000	•	0.9	1.4	26	12	8.1		M 4	7	10	11.4	0.8	20	b
C4415/R7105	Steel	•	Black / Silver	5000/5 000	•	2.5	3.8	26	12	8.1		4.2	7	8	13.4	0.8	20	b
C4415/R7253	Steel	•	Black / Silver	5000/4 000	•	4.2	5.2	26	12	8.1		M 4	7	7	15	0.8	20	b

* COATING : • Phosphate + sealer / Zinc

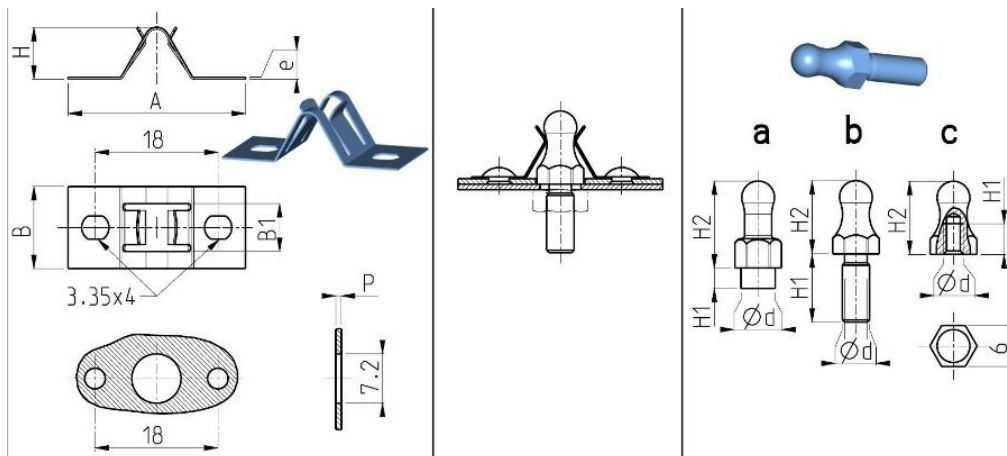
** TYPE : • With hole + threaded stud, •• With hole + internally threaded stud



DRAWING FOR PART NUMBER(S) : C4402452/R10292HG, C4402452/R6775, C4402552/R10292HG, C4402552/R6775, C4402652/R10292HG, C4402652/R6775, C4402752/R10292HG, C4402752/R6775



DRAWING FOR PART NUMBER(S) : C4410/R6299, C4410/R6333, C4410/R6374, C4410/R6486, C4410/R6707, C4410/R6883, C4410/R7105, C4410/R7253, C4411/R6299, C4411/R6333, C4411/R6374, C4411/R6486, C4411/R6707, C4411/R6883, C4411/R7105, C4411/R7253, C4412/R6299, C4412/R6333, C4412/R6374, C4412/R6486, C4412/R6707, C4412/R6883, C4412/R7105, C4412/R7253, C4413/R6299, C4413/R6333, C4413/R6374, C4413/R6486, C4413/R6707, C4413/R6883, C4413/R7105, C4413/R7253, C4414/R6299, C4414/R6333, C4414/R6374, C4414/R6486, C4414/R6707, C4414/R6883, C4414/R7105, C4414/R7253, C4415/R6299, C4415/R6333, C4415/R6374, C4415/R6486, C4415/R6707, C4415/R6883, C4415/R7105, C4415/R7253





FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.

Fastening systems with hand mounted clips and studs

These parts comprise of a clip on a fixed support and a stud screwed on a part which is removable. When assembled, the parts are hidden and allows blind assembly / disassembly

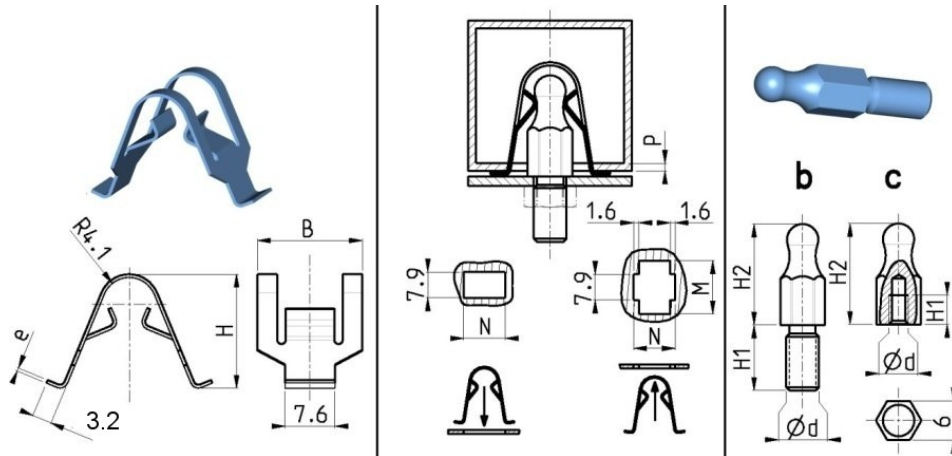
Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Hole length or diameter (M)	Hole width (N)	Hole diameter (F)	Part length or diameter (A)	Part width (B)	Part height (H)	d	H1	H2	Metal thickness (e)	Shape
C4406HG/R7105	Steel	•	Black / Silver	3500/5000	•	0.9	1.2	16.3	16			16	14.4	4.2	8	13.4	0.5	b
C4407HG/R7105	Steel	•	Black / Silver	3500/5000	•	0.9	1.2	16.3	16			16	14.6	4.2	8	13.4	0.7	b
C44341/R6883	Steel	•	Black / Silver	4000/5000	•	0.5	0.8	9	7	10.5	17	6	13.4	M 4	10	11.4	0.4	b
C44342/R6333	Steel	•	Black / Silver	8000/4000	•	0.9	1.2	9	7	10.5	17	6	13.8	M 5	10	12	0.4	b
C44343/R6299	Steel	•	Black / Silver	8000/4000	•	1.3	1.6	9	7	10.5	17	6	14.2	M 5	10	12.7	0.4	b
C44343/R6707	Steel	•	Black / Silver	8000/8000	••	1.3	1.6	9	7	10.5	17	6	14.2	M 3	4.5	12.7	0.4	c
C44344/R6299	Steel	•	Black / Silver	8000/4000	•	1.7	2	9	7	10.5	17	6	14.6	M 5	10	12.7	0.4	b
C44344/R6707	Steel	•	Black / Silver	8000/8000	••	1.7	2	9	7	10.5	17	6	14.6	M 3	4.5	12.7	0.4	c
C44347QJ/R6486	Steel	•	Black / Silver	8000/4000	•	2.9	3.2	9	7	10.5	17	6	15.8	M 5	10	14	0.4	b
PRD05286/D574A	Metal / Plastic		Black	1500/3000	•••	2.8	2.8	17	12		22	18	14.8				0.4	
PRD05287/D574A	Metal / Plastic		Black	1500/3000	•••	2.8	2.8	17	12		22	18	14.8				0.3	

* COATING : • Phosphate + sealer / Zinc

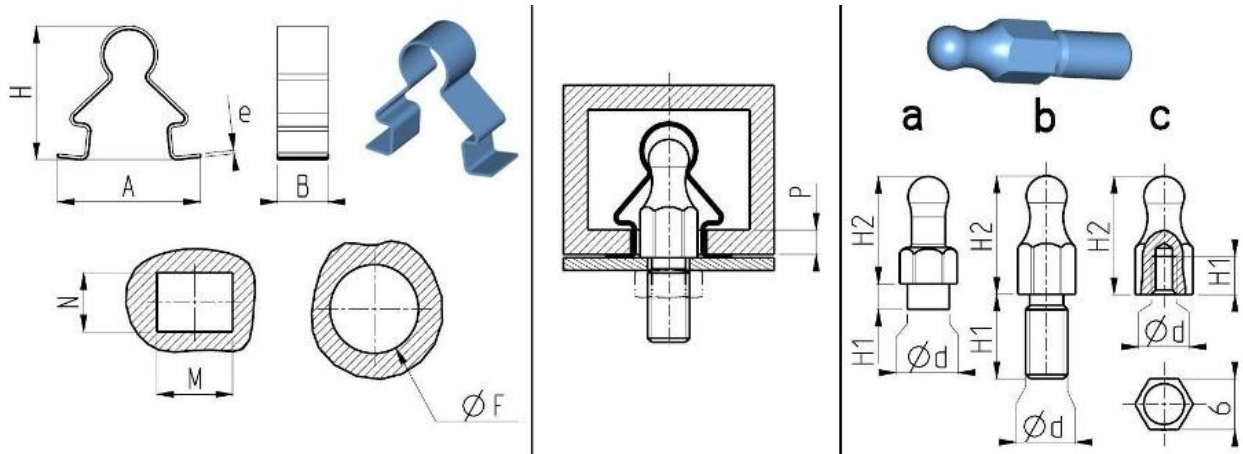
** TYPE : • To clip + threaded stud, •• To clip + internally threaded stud, ••• To clip + stud to clip



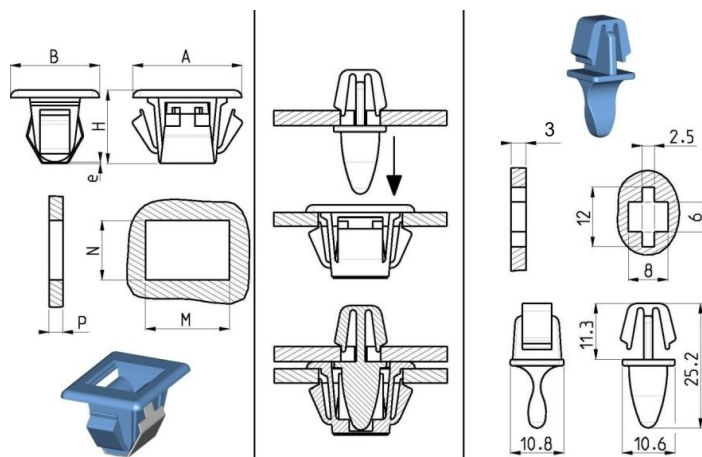
DRAWING FOR PART NUMBER(S) : C4406HG/R7105, C4407HG/R7105



DRAWING FOR PART NUMBER(S) : C44341/R6883, C44342/R6333, C44343/R6299, C44343/R6707, C44344/R6299, C44344/R6707, C44347QJ/R6486

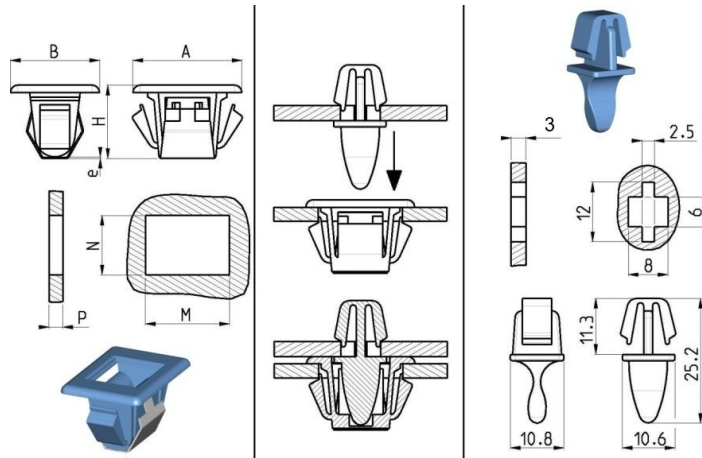


DRAWING FOR PART NUMBER(S) : PRD05286/D574A





DRAWING FOR PART NUMBER(S) : PRD05287/D574A





FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.

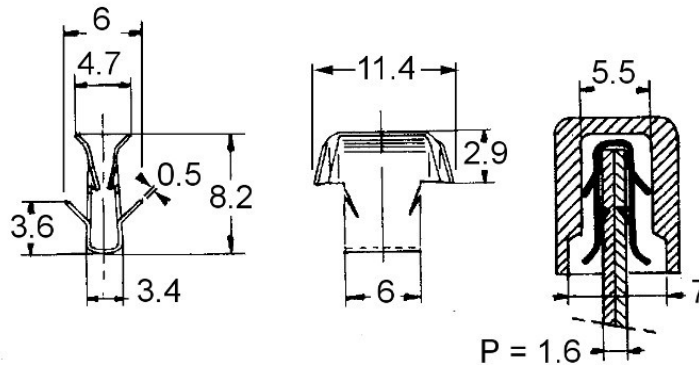
Clips for specific use

These parts are designed for a specific use (fastening of trims, sealings, door panels, mouldings...)

Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Panel 2 minimum thickness (P1)	Panel 2 maximum thickness (P1)	Hole length or diameter (M)	Hole width (N)	Hole diameter (F)	Part length or diameter (A)	Part width (B)	Part height (H)	A1	A2	B1	H1	H2	Metal thickness (e)	
C2666TR	Steel	•	Black	10000	•	1.6				5.5			8.2	11.4	6							0.5
C2856B	Steel	••	Black	5000	•	1.5	3	1.5	1.5	9.5			9	12	13							0.4
C2866EJW	Steel	•	Silver	5000	•	1.5				7			17.5	10	8							0.5
C46241	Steel	••	Black	10000	•	0.7	2						7.5	14.4	6.8							0.4
C46242	Steel	••	Black	10000	•	2.1	3						6.8	14.4	7.8							0.4
C8229AEK	Steel	•••	Silver	2000	•	2	2	1.5	1.5	14.4	6		10	8.3	17.6							0.6
F412A	Plastic		Orange	15000	••	0.7	1.2	2	2	8.5	5.1	8	17		18	13.2	5.5	2	0.9	2.1		
PRD04515	Metal / Plastic		Natural	2000	•	2.5	2.7	2	2	8.2			28	17	18.1							0.4
PRD05085	Plastic		Silver	4250	•••	2.5	3	0.7	3.5	8.2			24		20.3							
PRD053463BJV	Steel	••••	Silver	3760	•	0.7	1.5			14	7.2		13	10	18							0.6
PRM03151A	Plastic		Yellow	15000	•••	1.3	1.8	2	2	8.5	5.1	8	17		18	13.2	5.5	2	0.9	2.1		
SC07643ZBJ	Steel	••••	Silver	15000	•••	3.5	3.5			10	5.5		10	9	11.5							0.4
ZUS7501	Metal / Plastic		Silver	2000	••••	1.5	2	2	2	8			28	17	18.1							0.4
ZUS7503	Metal / Plastic			2000	••••	0.7	1.2	2	2	8			28	17	16.6							0.4

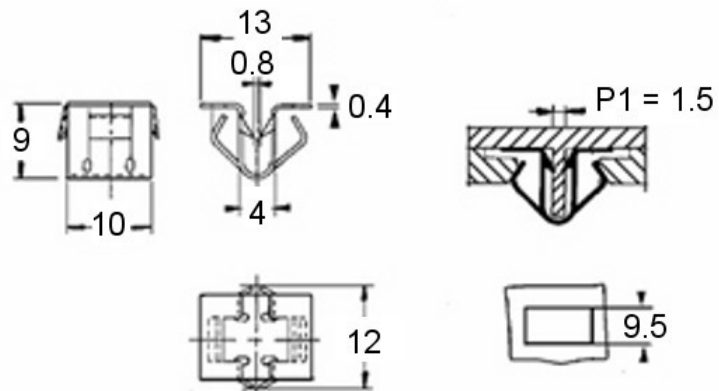
* COATING : • Zinc flake, •• Phosphate + sealer, ••• Zinc-nickel, •••• Alkaline zinc
** TYPE : • To clip and to snap-on, •• To push-on, ••• To clip in a hole, •••• To clip

DRAWING FOR PART NUMBER(S) : C2666TR

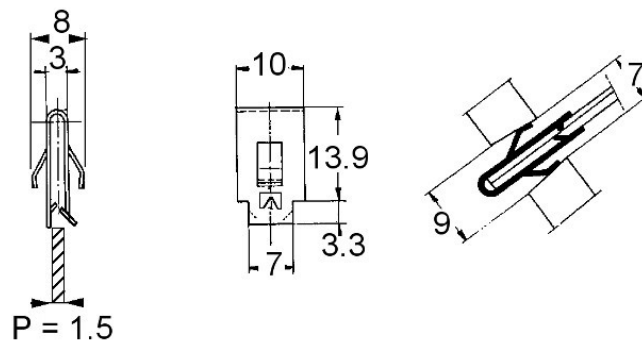




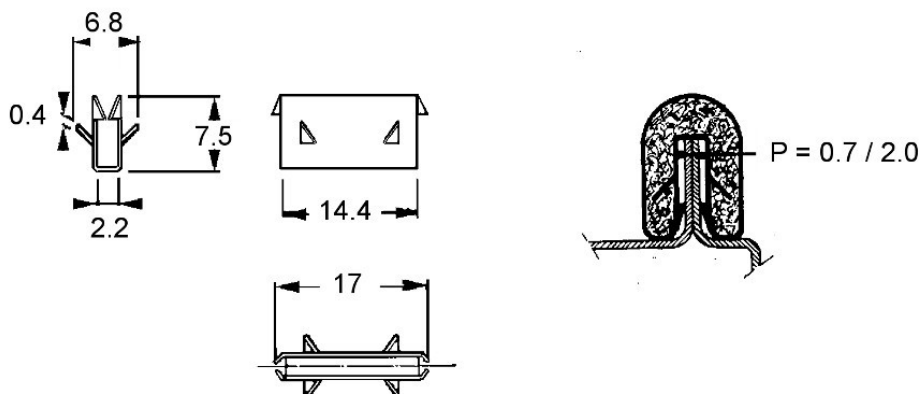
DRAWING FOR PART NUMBER(S) : C2856B



DRAWING FOR PART NUMBER(S) : C2866EJW

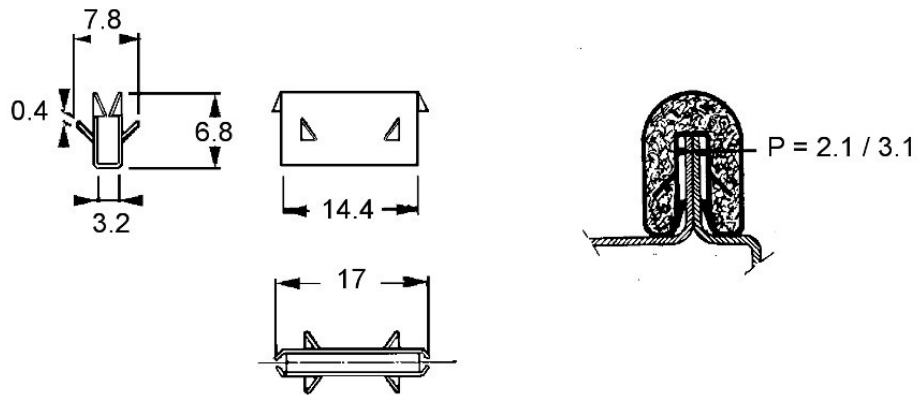


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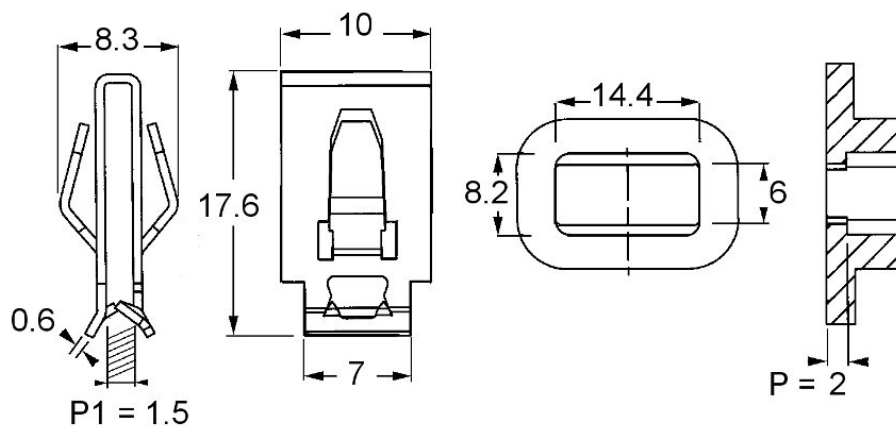




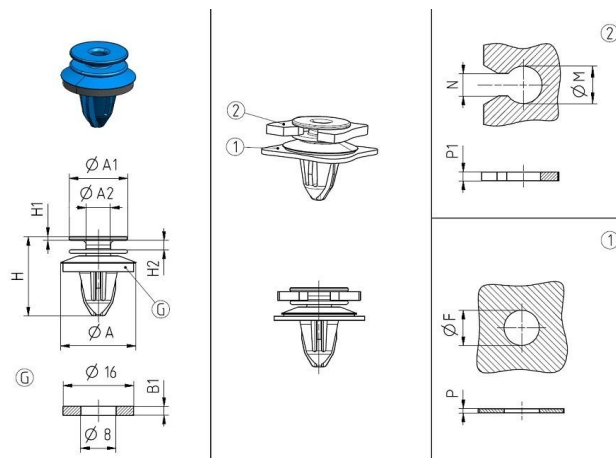
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DRAWING FOR PART NUMBER(S) : C8229AEK

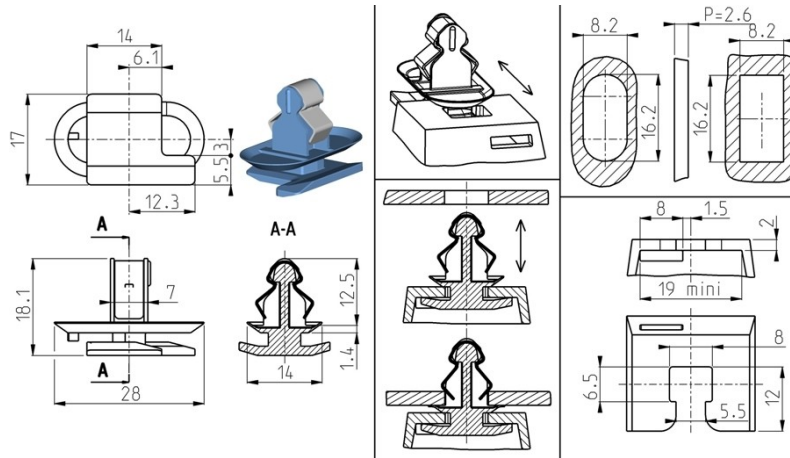


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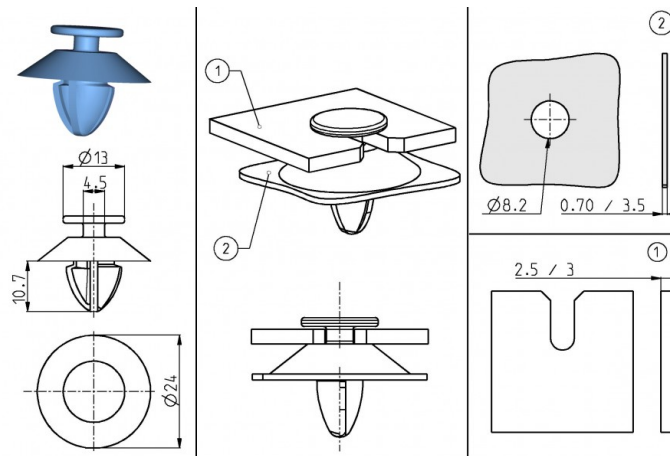




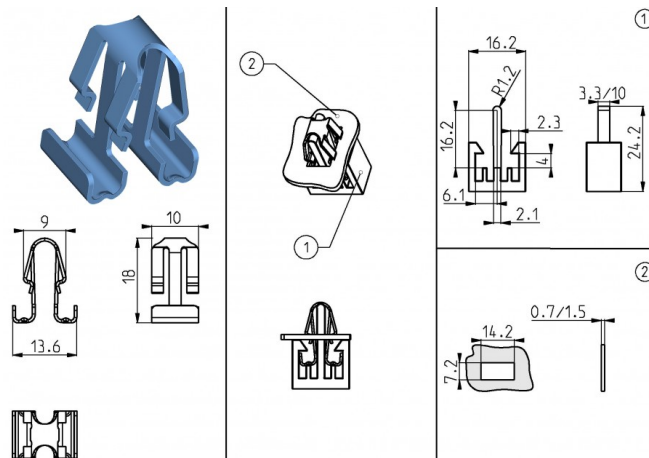
DRAWING FOR PART NUMBER(S) : PRD04515



DRAWING FOR PART NUMBER(S) : PRD05085

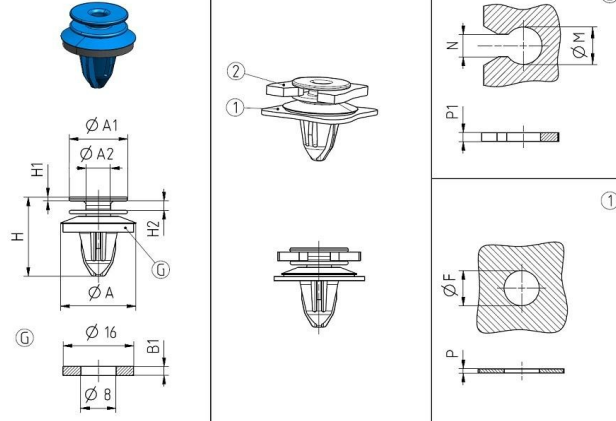


DRAWING FOR PART NUMBER(S) : PRD053463BJV

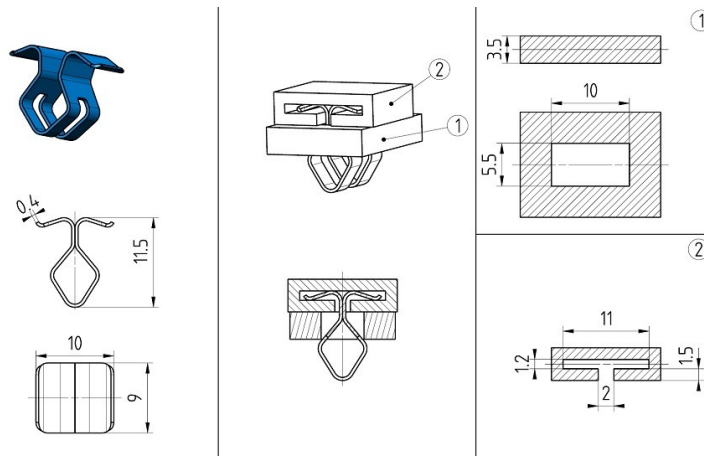




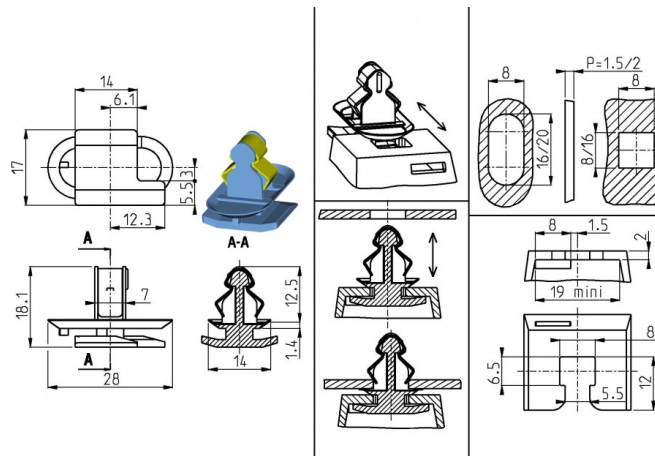
DRAWING FOR PART NUMBER(S) : PRM03151A



DRAWING FOR PART NUMBER(S) : SCO7643ZBJ

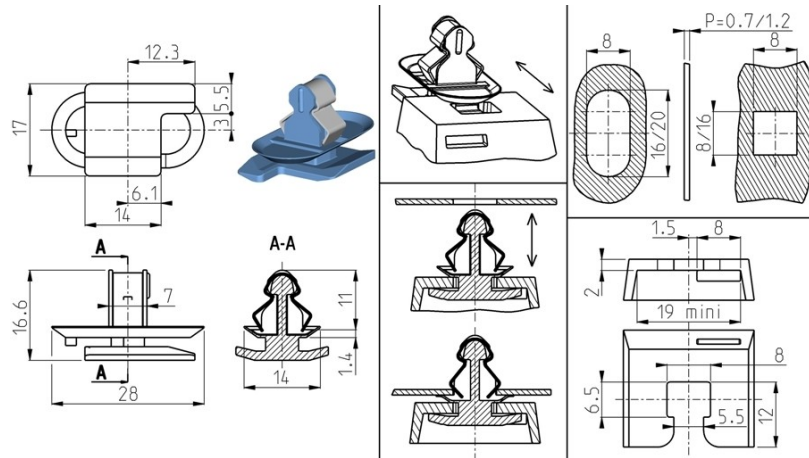


DRAWING FOR PART NUMBER(S) : ZUS7501





DRAWING FOR PART NUMBER(S) : ZUS7503





FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.

Snap-on clips with arm

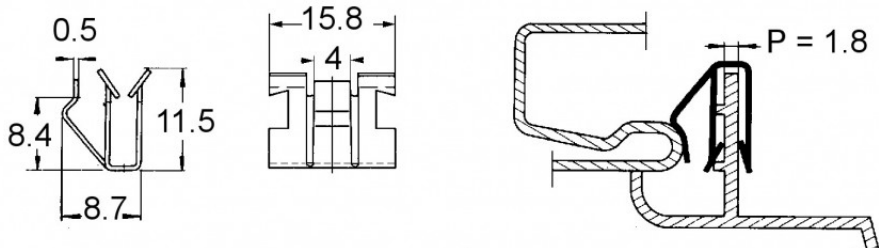
These parts have an arm to press or connect an element on or into the support

Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Part length or diameter (A)	Part width (B)	Part height (H)	Metal thickness (e)
C2633AHG	Steel	•	Silver	5000	•	1.8	1.8	11.5	15.8	9.3	0.5
C2800LR	Steel	••	Silver	2500	•	1.8	2.5	14.3	12.7	11.7	0.5
C2904EK	Steel	•••	Silver	5000	••	1.5	1.5	10.5	12	14	0.5
C3693	Steel	••••	Black	7000	•	1.8	2.5	13.9	12.7	10	0.3
C3702EK	Steel	•••	Silver	10000	•	1.6	2	9	12	8.1	0.4
C4625LD	Steel	••	Silver	6000	•	2.2	2.6	10	12	12.4	0.4
C8384MP	Steel	••	Silver	2500	•	1.8	2.5	14	12.7	9.4	0.3
C8799CEK	Steel	•••	Silver	10000	•••			14.6	12	6.8	0.4
D868AEK	Steel	•••	Silver	10000	•••			15.1	12	7.5	0.4
D929A	Steel		Silver	10000	•••			17	12	9.9	0.3
PRD05222CJ	Steel	••••	Black	10000	•	1.3	1.8	15	8.5	13.2	0.5

* COATING : • Alkaline zinc, •• Zinc flake, ••• Zinc-nickel, •••• Phosphate + sealer

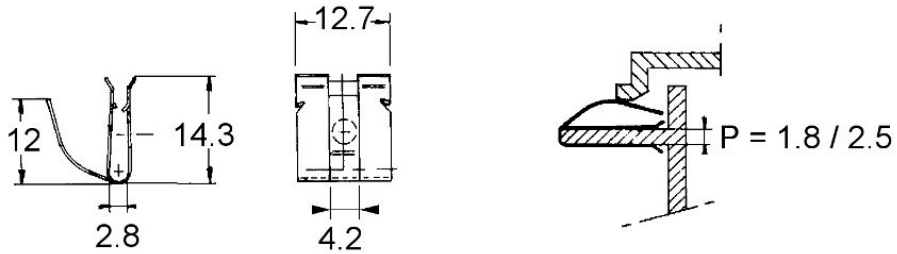
** TYPE : • To snap-on with arm, •• U shaped clip to snap-on, ••• To press-in with arm

DRAWING FOR PART NUMBER(S) : C2633AHG

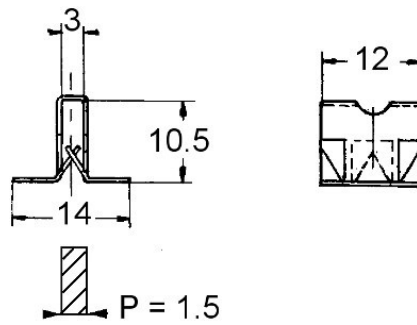




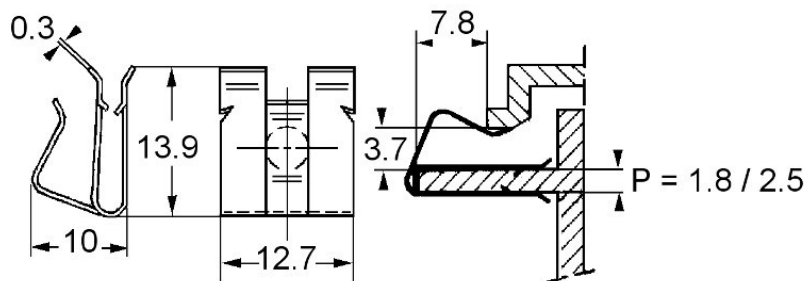
DRAWING FOR PART NUMBER(S) : C2800LR



DRAWING FOR PART NUMBER(S) : C2904EK

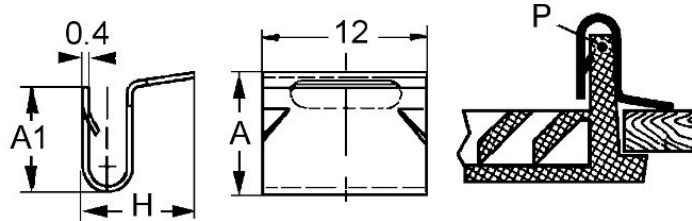


DRAWING FOR PART NUMBER(S) : C3693



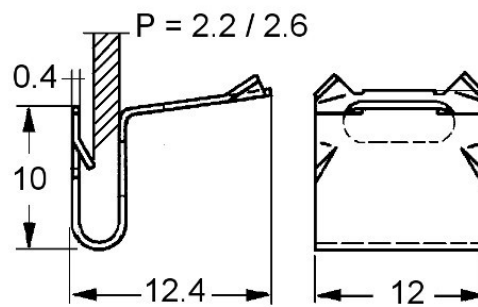


DRAWING FOR PART NUMBER(S) : C3702EK

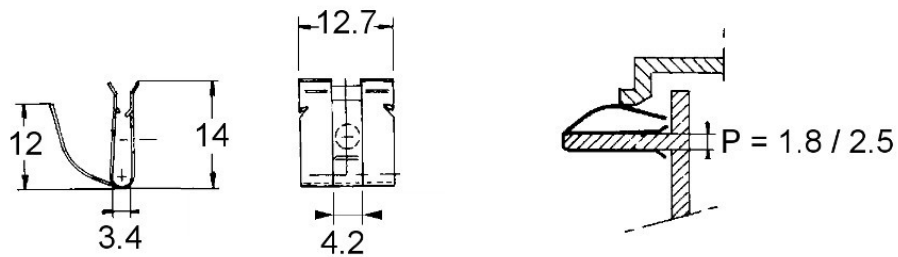


C3702 : P=1.6 / 2 : A=9 : A1=7.6 : H=8.1
 C4617 : P=2 / 2.5 : A=8.9 : A1=7.5 : H=8.4
 C8369 : P=1.2 / 1.4 : A=9 : A1=7.6 : H=8.1

DRAWING FOR PART NUMBER(S) : C4625LD

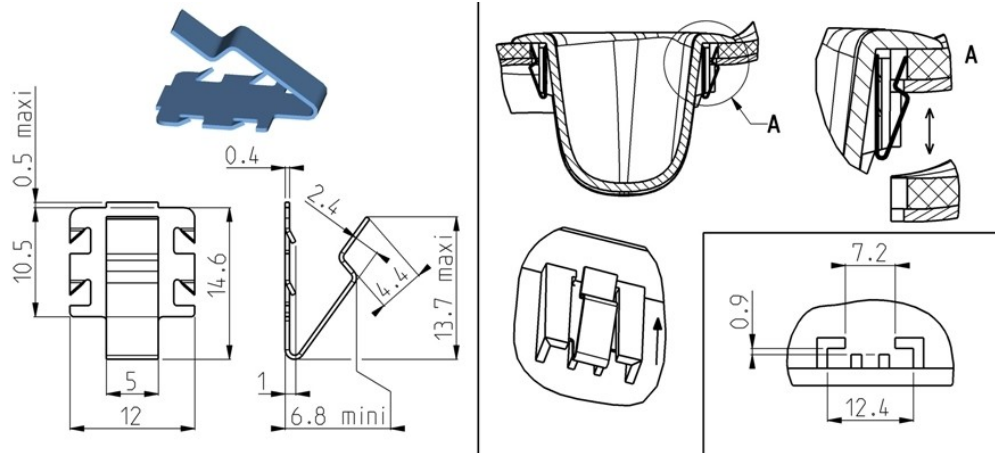


DRAWING FOR PART NUMBER(S) : C8384MP

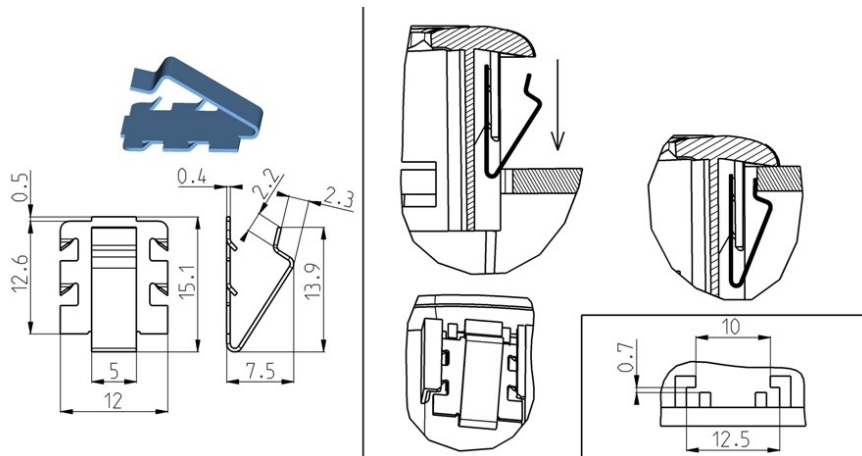




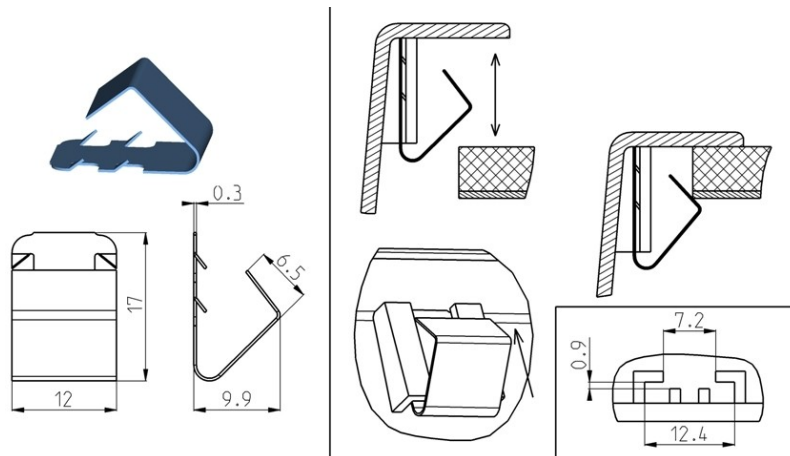
DRAWING FOR PART NUMBER(S) : C8799CEK



DRAWING FOR PART NUMBER(S) : D868AEK

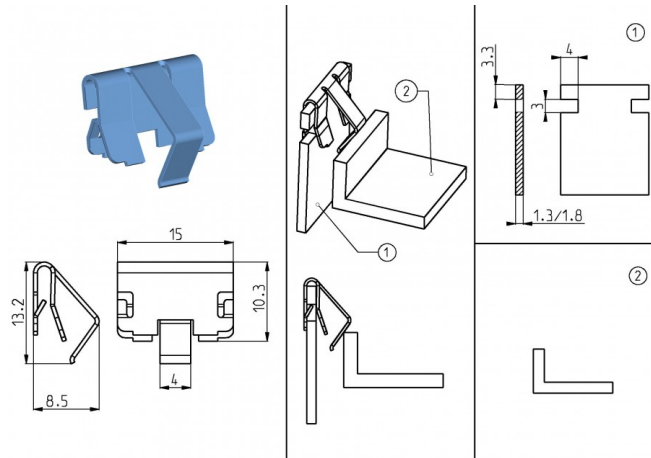


DRAWING FOR PART NUMBER(S) : D929A





DRAWING FOR PART NUMBER(S) : PRD05222CJ





FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.

U shaped snap-on clips

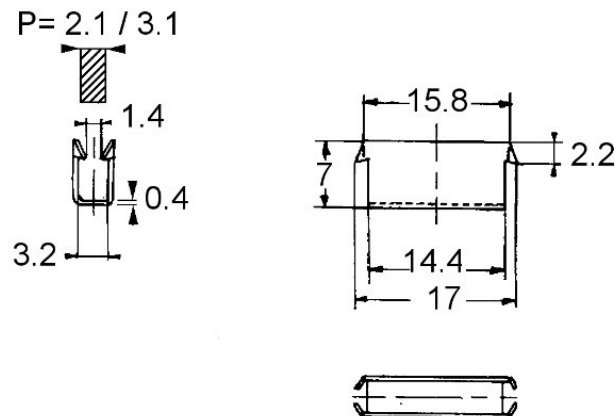
These parts are used to join two panels by snapping them together

Part number	Material	Coating *	Colour	Packaging	Type **	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Part length or diameter (A)	Part width (B)	Part height (H)	Metal thickness (e)	Shape
C2823	Steel	•	Black	10000	•	2.1	3.1	7	17	4	0.4	
C4741	Steel	•	Black	10000	•	0.8	1.8	8.5	12	2.8	0.4	f
C4792JZ	Steel	••	Silver	3000	•	5.3	6.3	11	12	8	0.5	f
C5132KO	Steel	••	Silver	8000	•	3.5	5	11	12	7.8	0.5	f
PRD04713	Plastic		Natural	1500	•	2	4	34.5	20	16.7		
SCO6963ZBJ	Steel	•••	Silver	12000	•	1.5	2.5	7	4	3.2	0.4	
SCO7041BTBJ	Steel	•••	Silver	7000	•	3	4	13	8	4.3	0.5	d

* COATING : • Phosphate + sealer, •• Zinc flake, ••• Alkaline zinc

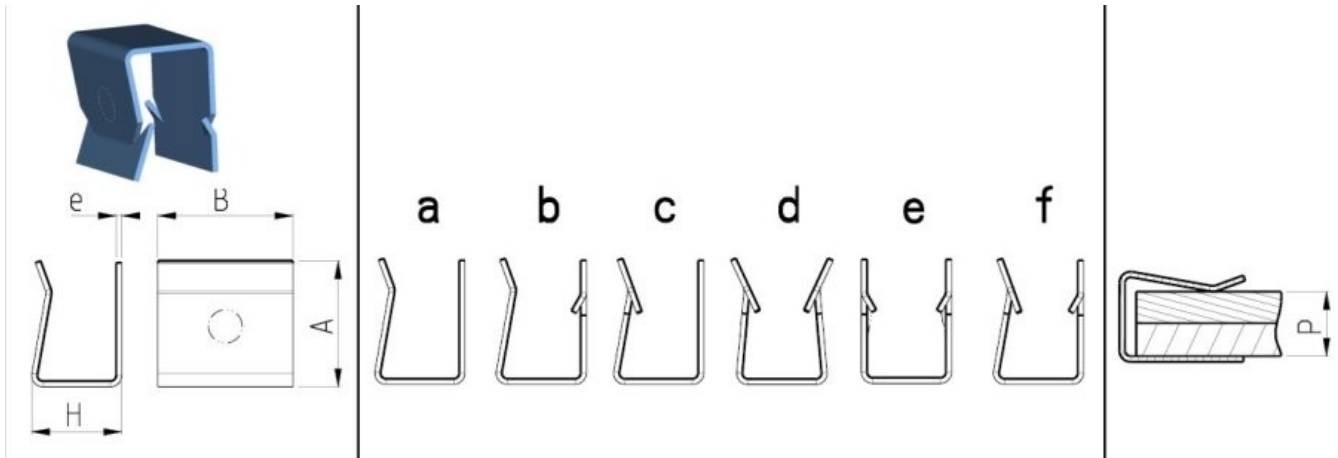
** TYPE : • U shaped clip to snap-on

DRAWING FOR PART NUMBER(S) : C2823

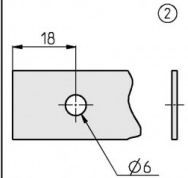
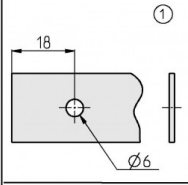
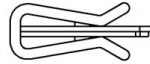
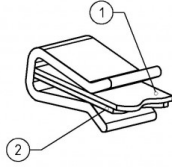
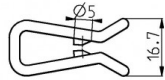
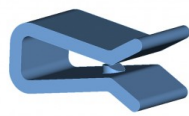




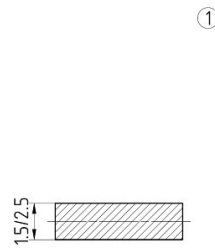
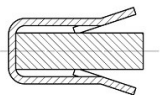
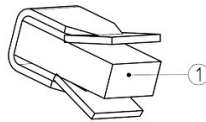
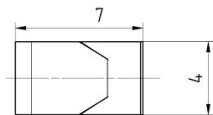
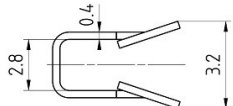
DRAWING FOR PART NUMBER(S) : C4741, C4792JZ, C5132KO



DRAWING FOR PART NUMBER(S) : PRD04713

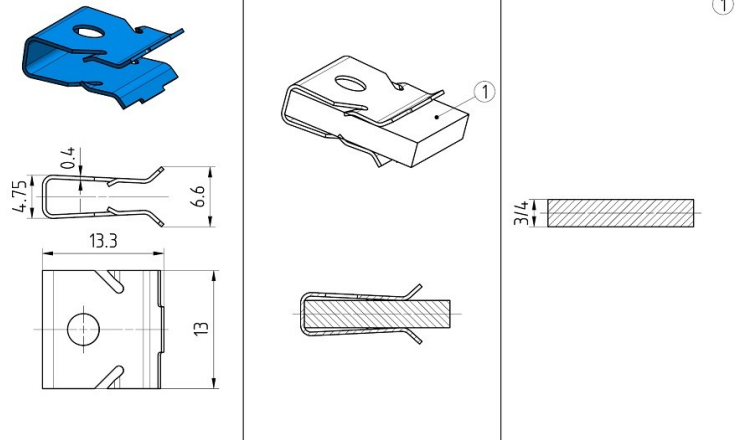


DRAWING FOR PART NUMBER(S) : SCO6963ZBJ





DRAWING FOR PART NUMBER(S) : SCO7041BTBJ





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FASTENERS FOR PANELS

To fasten two or more panels together without any nut or screw.



Fastening systems with clips to be riveted or screwed and 1/4 turn buttons

These parts comprise of a clip screwed or riveted on a fixed support and a 1/4 turn button on a part which is removable



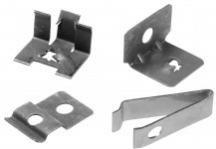
S shaped metal snap-on clips

These parts are used to join two panels with a slight overlap



Omega shaped metal clips

These parts are omega shaped (Ω). To join together 2 panels with high thicknesses or adapted shapes



Simple clips to snap on, to screw or to rivet

These parts may include a single thread engagement, a rivet hole, a U shape or a clip for direct fastening. In most cases, they can be hidden once assembled with blind assembly / disassembly



1/4 turn buttons

These parts are 1/4 turn buttons. They lock a hatch on a support



FASTENERS ON SHAFTS (1). AXIAL MOUNTING.

To fasten axially, panels, buttons, badges... on a shaft.

Axial mounted push on retaining washers (For shafts)

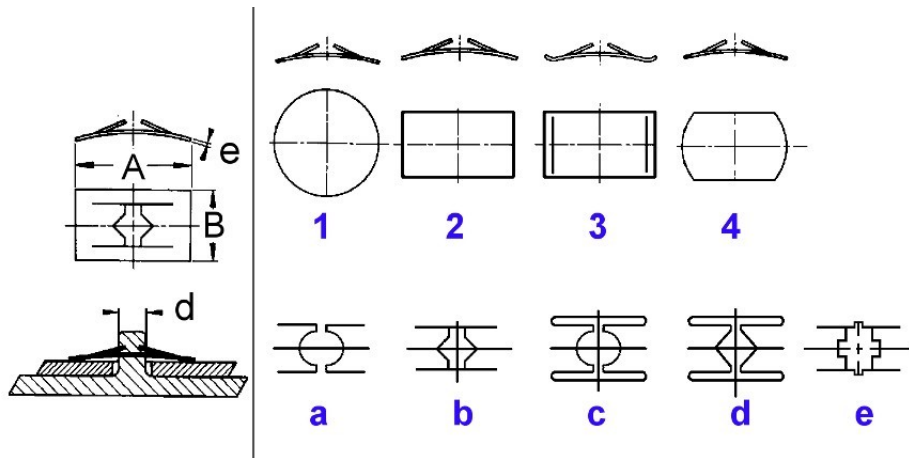
These parts are pushed on a smooth rod. ("fixe" type)

Part number	Material	Coating *	Colour	Packaging	Type	Support length or diameter (d)	Part length or diameter (A)	Part width (B)	Part height (H)	Metal thickness (e)	Shape
FP3004HG	Steel	•	Silver	20000	Axial retaining washer	4	12	8		0.4	2b
FP3012	Steel	••	Black	3000	Axial retaining washer	12	36	24		0.5	2b
FR3410JZ	Steel	•••	Silver	5000	Axial retaining washer	10	23.5			0.5	1b
FR3426JZ	Steel	•••	Silver	10000	Axial retaining washer	6	24			0.4	1b
FRL3456	Steel	••	Black	5000	Axial retaining washer	20	28.6		1.3	0.4	2
FRL3457JZ	Steel	•••	Silver	3000	Axial retaining washer	8	22		2	0.3	2
FRL3458JZ	Steel	•••	Silver	20000	Axial retaining washer	8	15		1	0.3	2
SF05966NT	Steel	•	Silver	20000	Axial retaining washer	6	15.3		1.4	0.3	3
SF06316ZZD	Stainless steel		Silver	100000	Axial retaining washer	5	10.2		0.6	0.25	2
SF07155BHD	Stainless steel	••••	Silver	150000	Axial retaining washer	4	8.7			0.3	1
SFP5003NT	Steel	•	Silver	25000	Axial retaining washer	5	15.8	9.5	1.7	0.35	2b
SFR5460ZCJ	Steel	•	Silver	10000	Axial retaining washer	12	22		1.4	0.5	1

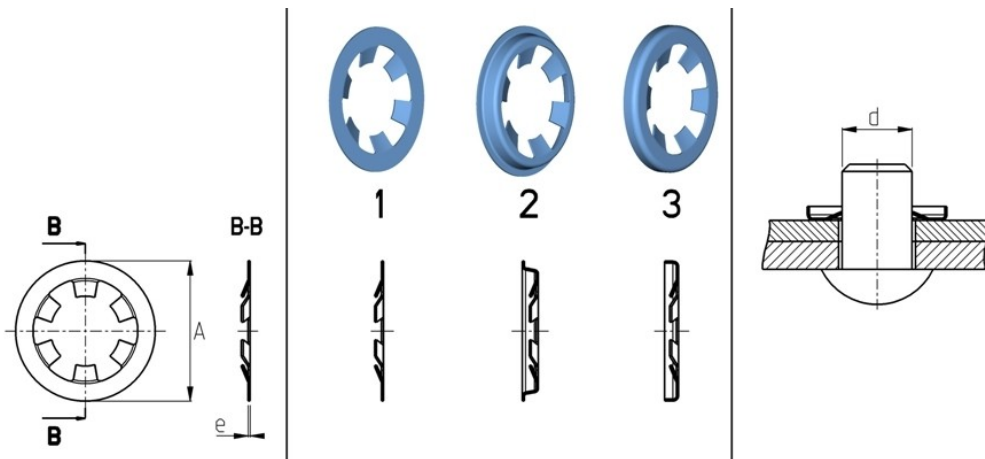
* COATING : • Alkaline zinc, •• Phosphate + sealer, ••• Zinc flake, •••• Zinc-nickel



DRAWING FOR PART NUMBER(S) : FP3004HG, FP3012, FR3410JZ, FR3426JZ, SFP5003NT



DRAWING FOR PART NUMBER(S) : FRL3456, FRL3457JZ, FRL3458JZ, SFO5966NT, SFO6316ZZD, SFO7155BHD, SFR5460ZCJ

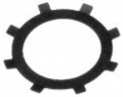




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FASTENERS ON SHAFTS (1). AXIAL MOUNTING.

To fasten axially, panels, buttons, badges... on a shaft.



Axial mounted push on retaining washers (For bores)

These parts are pushed in a bore. ("fixe" type)



Special push-on retaining washers

These parts are pushed on a smooth Axis and have an unconventional shape.



Metal / plastic tubular clips

These parts are used to clip an axis in a hole on a panel



Tubular clips ("CE" type)

These parts are used to clip an axis in a hole on a panel



Clips for buttons and levers ("CB" type)

These parts are fitted on an axis with a flat in order to fix a button, lever or other part



Clips for buttons and levers ("CA" type)

These parts are fitted on an axis with a flat in order to fix a button, lever or other part



Special button and lever clips

These parts are used to fit a plastic button on a metal axis



CLIPS AND RIVETS

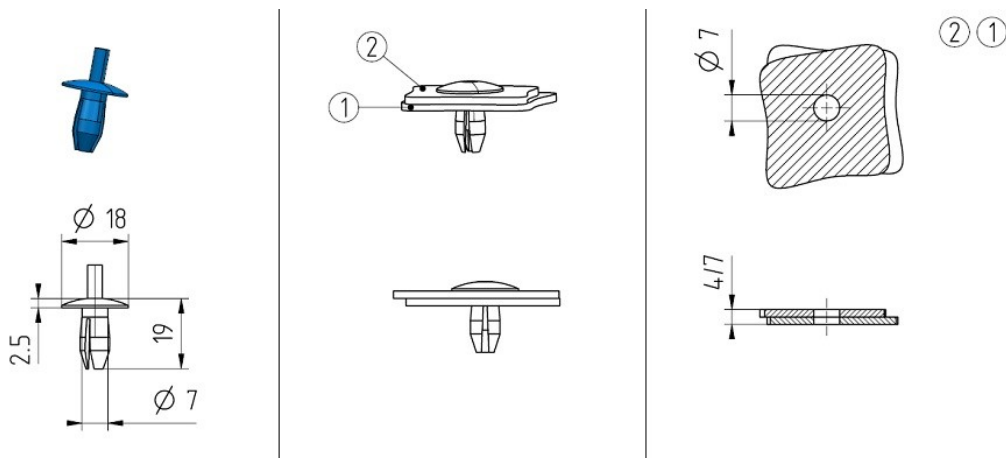
Clipped in a hole to assemble together two or more panels, by the front face.

Rivets with locking pin to push

These parts are put in place by pushing in the central pin (By hand or hammer). They can be dismantled and re-used.

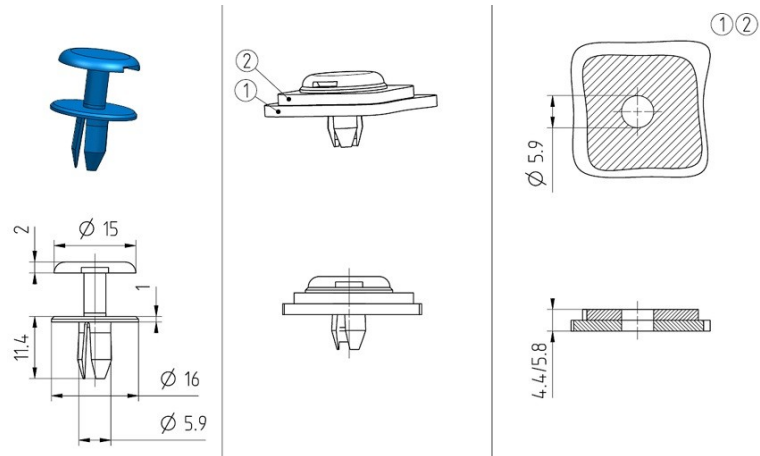
Part number	Material	Colour	Packaging	Type	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Part length or diameter (A)	Part height (H)	H1	H2
00027	Plastic	Black	5000	With locking pin to push-on	4	7	7	18	19		
02004	Plastic	Black	1500	With locking pin to push-on	4.4	5.8	5.9	16	13.4		
EPL0045	Plastic	Black	4500	With locking pin to push-on	2	7	5	10	22		
EPL0090	Plastic	Black	8000	With locking pin to push-on	1.5	5	5.7	10	17		
P0162NAT	Plastic	Natural	5000	With locking pin to push-on	1	4	8.1	12		15	4.5
P1504NOIR	Plastic	Black	10000	With locking pin to push-on	2	6	4	7.5		12.5	2.4
P1506NAT	Plastic	Natural	5000	With locking pin to push-on	2	6	6	10		15	3.2
P1514NOIR	Plastic	Black	6000	With locking pin to push-on	1	3	4	8		10	2.4
PRD04766	Plastic	Black	1700	With locking pin to push-on	3.8	6	6.5	22	28.4		

DRAWING FOR PART NUMBER(S) : 00027

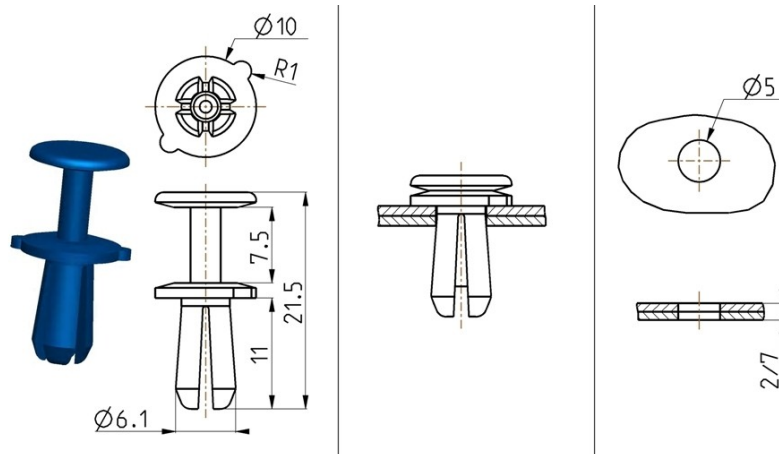




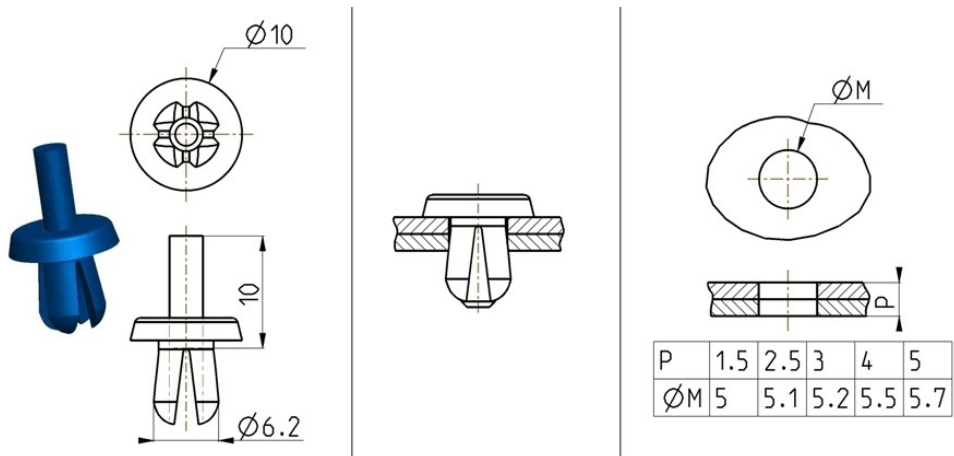
DRAWING FOR PART NUMBER(S) : 02004



DRAWING FOR PART NUMBER(S) : EPL0045

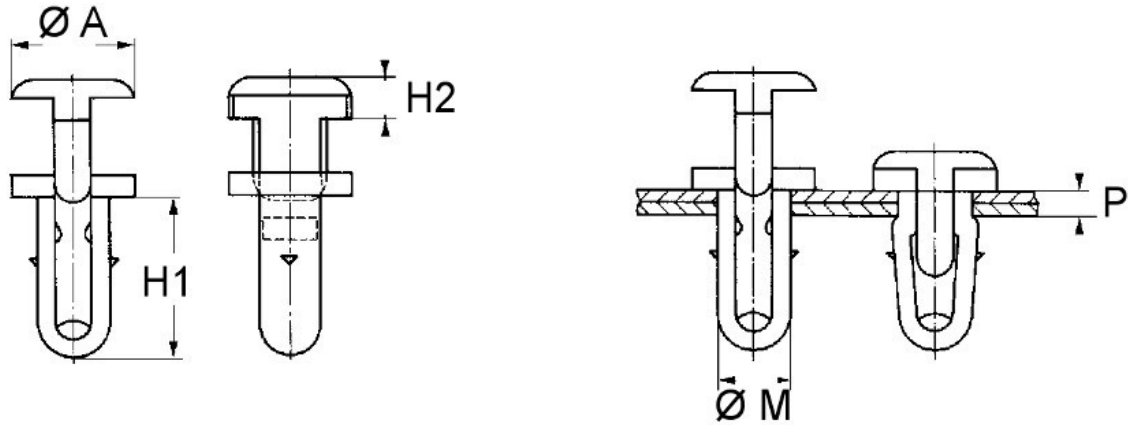


DRAWING FOR PART NUMBER(S) : EPL0090

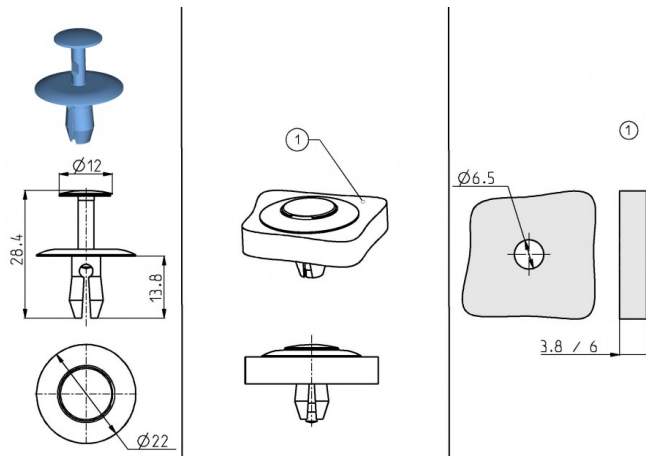




DRAWING FOR PART NUMBER(S) : P0162NAT, P1504NOIR, P1506NAT, P1514NOIR



DRAWING FOR PART NUMBER(S) : PRD04766





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CLIPS AND RIVETS

Clipped in a hole to assemble together two or more panels, by the front face.



Clips to push-on for one single thickness

These parts are simply pressed in a hole (Mostly round) in the supporting panel. Some of them can be used as plugs.



Clips to push-on for several thicknesses (For example: Fir tree type)

These parts are simply pressed in a round hole in the supporting panel. They can be used on a wide range of thicknesses



Clips with closed head ("T" Shape)

These parts are simply pressed in a round hole in the supporting panel. They can be dismantled and re-used.



Clips with open head ("V" Shape)

These parts are simply pressed in a round hole in the supporting panel. They can be dismantled and re-used.



Rivets to crimp with drive pin to pull

Rivets to crimp with drive pin to pull



PLUGS, GROMMETS, TERMINAL ROTATION-PROOF WASHERS

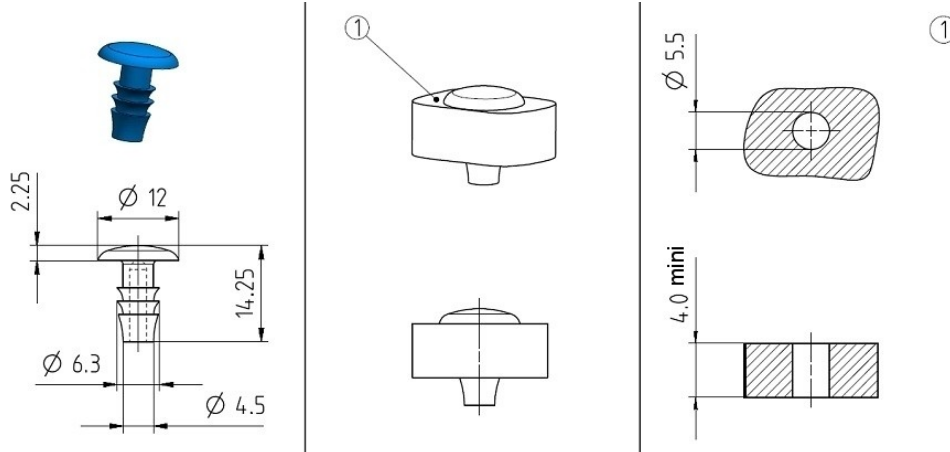
Holes closing in panels and tubes ends. Grommets, terminal rotation-proof washers.

Plugs

These parts are simply pressed on, to aesthetically close a hole in a panel. Some of them offer sealing characteristics.

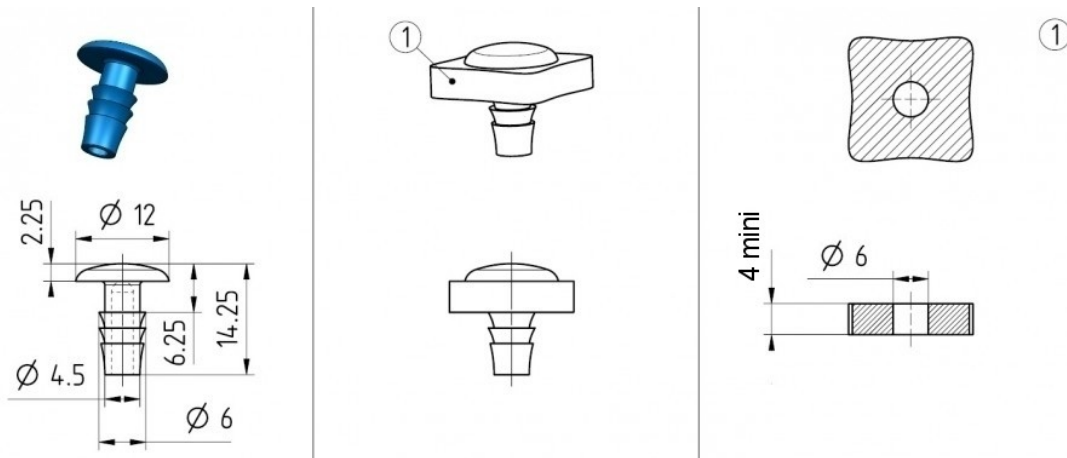
Part number	Material	Colour	Packaging	Type	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Part length or diameter (A)	Part height (H)
00034-1	Plastic	Black	4000	Plug	4		5.5	12	14.25
02073	Plastic	Black	4000	Plug	4		5.5	12	14.25
EPL0050	Plastic	Black		Plug	0.8	1.2	40	55.9	11.5
P1569	Plastic	Natural	7000	Plug	0.7	0.7	10.2	15	15.1
PRD04720	Plastic	Black	2000	Plug	0.7	3.5	25	37	11
PRD04923	Plastic	Black	600	Plug	0.7	3	20.5	29	8.9
PRD04926	Plastic	Black	400	Plug	5	6.5	40	54	12.6

DRAWING FOR PART NUMBER(S) : 00034-1

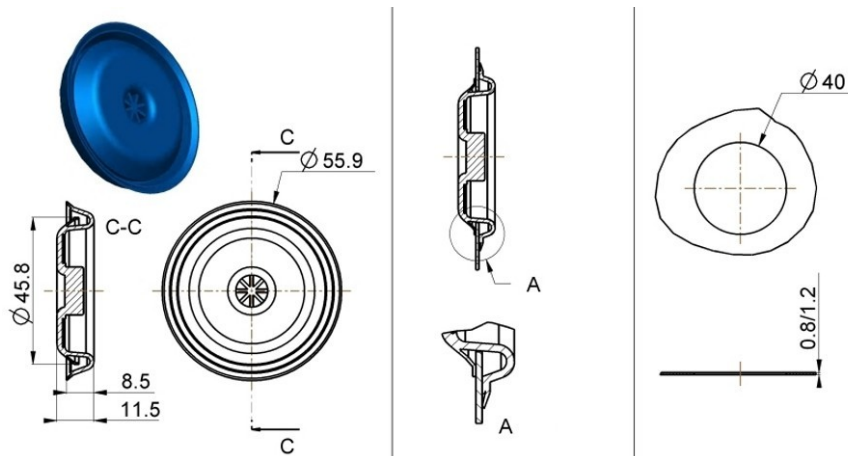




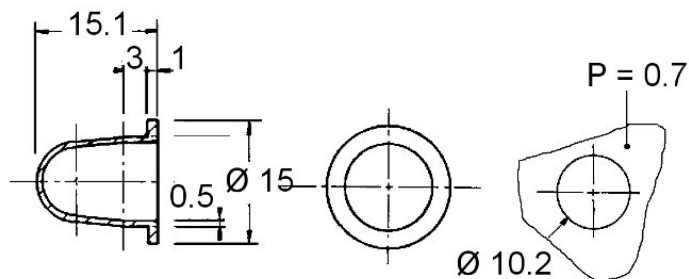
DRAWING FOR PART NUMBER(S) : 02073



DRAWING FOR PART NUMBER(S) : EPL0050

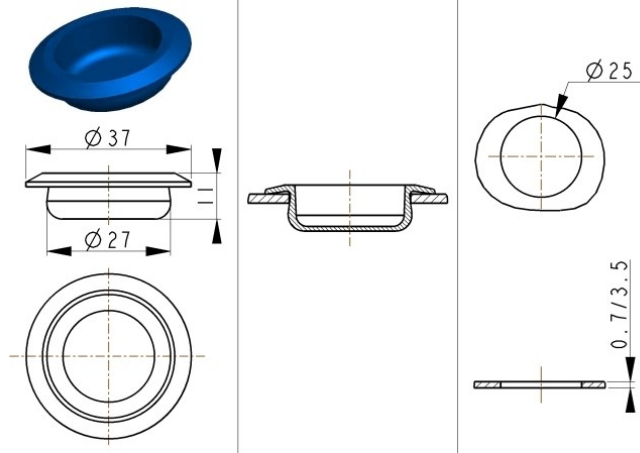


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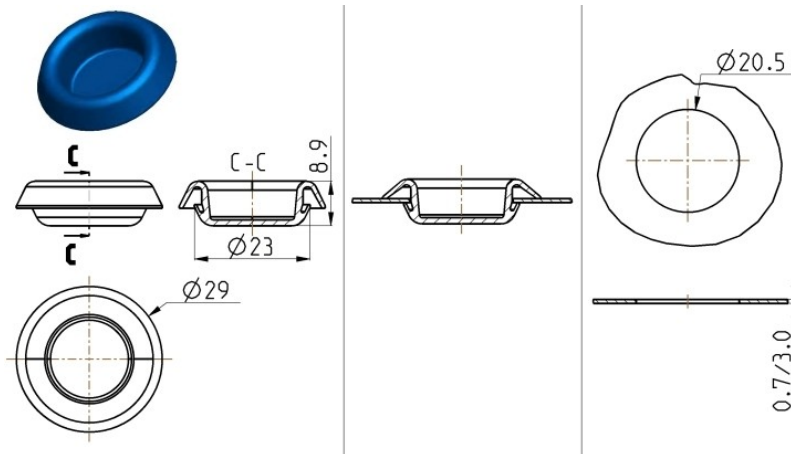




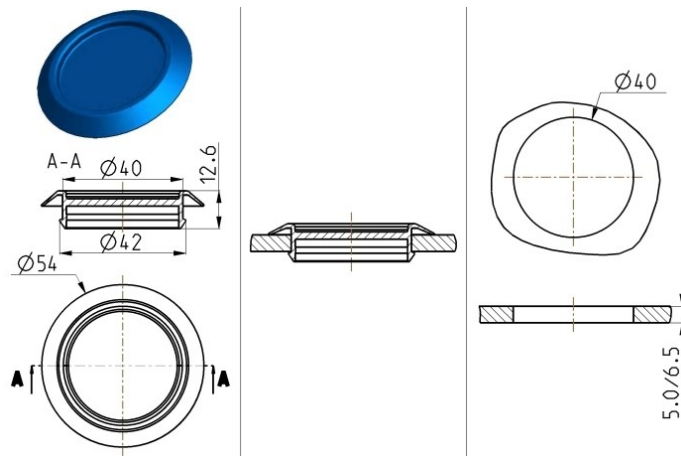
DRAWING FOR PART NUMBER(S) : PRD04720



DRAWING FOR PART NUMBER(S) : PRD04923



DRAWING FOR PART NUMBER(S) : PRD04926





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PLUGS, GROMMETS, TERMINAL ROTATION-PROOF WASHERS

Holes closing in panels and tubes ends. Grommets, terminal rotation-proof washers.



Terminal rotation-proof washers

These parts prevent the rotation of eyelet terminals on wires during tightening of screw or nut.



Grommets

These parts are clipped in a hole in the supporting panel. They protect the cables passing through the panel.



Caps, protectors

These parts are designed to cover the rod ends, tubes or studs. They provide safety and protection.



U NUTS

U shaped nuts. Mounted on the side of the supporting panel.

Metal nuts, with single thread, to snap on (NU/SNU type)

These parts have a thread formed in the sheet metal. They are snapped on the edge of a panel, where they are clipped over a hole.

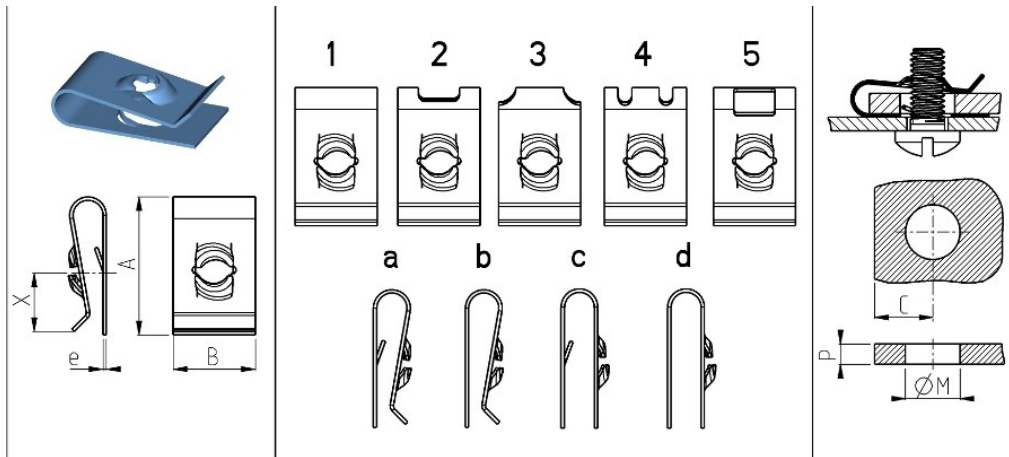
Part number	Material	Coating *	Colour	Packaging	Self tapping screw	Metric screw diameter	Nut type **	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole diameter (M)	Maximum distance hole axis / panel edge (C)	Part length or diameter (A)	Part width (B)	Distance thread axis / part end (X)	Metal thickness (e)	Shape
NU05061	Steel	•	Black	4000		M 6	•	0.8	1.9	8	11	24.7	14	12	0.5	1a
NU05081	Steel	•	Black	3000		M 8	•	0.6	2.1	9.5	12.5	27.3	16	13	0.6	1a
NU05082	Steel	•	Black	2500		M 8	•	2.2	3.1	9.5	11.5	27	16	13	0.6	1a
NU05123KO	Steel	••	Silver	3000		M 4	•	2.6	3.8	6	11	20.9	12	7.2	0.4	1a
NU0920AKO	Steel	••	Silver	2500	4.2		•	0.5	4	7	8.8	20	14	10	0.5	
NU0921HG	Steel	•••	Silver	2500	4.8		•	0.5	4	7	8.8	20	14	10	0.6	
NU0923	Steel	•	Silver	2500	3.5		•	0.5	4	6	8.8	20	14	10	0.5	
NU0926JZ	Steel	••	Silver	2400	4.2		•	0.5	4	7.2	14	25	14	9.5	0.5	
NU0927JZ	Steel	••	Silver	2000	6.3		•	0.5	4	7.2	14	24.5	16	9.5	0.8	
NUL0501	Steel	•	Black	5000		M 4	•	1	2	6	8.5	18.1	10	8	0.4	1a
NUL05212HG	Steel	•••	Silver	5000		M 5	•	1.5	2.6	7	9	20.7	12	10	0.5	2a
NUL05213APP	Steel	•	Black	5000		M 5	•	2.7	4.2	7	7.5	20.3	12	10	0.5	2a
NUL0528ARDB	Steel		Silver	2000	3.5		•	2	3	6.3	9	16.4	10	5.5	0.5	1a
NUL0533	Steel	•	Black	5000	4.8		•	0.4	1.9	6.5	14	26	9	10	0.6	1a
NUL5392AZZB	Stainless steel		Silver	2000	4.2		•	1.5	2.5	6	6.5	13.5	9.5	5.8	0.6	2a
NUS2210	Steel	•	Black	3000		M 5	•	0.5	1.8	7	6.5	14.8	12	6.8	0.5	3a
NUS22171	Steel	•	Black	5000	4.2		•	0.6	1.4	6	8.5	16	12	5.6	0.6	2a
NUS22172	Steel	•	Black	5000	4.2		•	1.5	2.1	6	8	15.8	12	5.6	0.6	2a
NUS22173	Steel	•	Black	5000	4.2		•	2.2	2.8	6	7.5	15.6	12	5.4	0.6	2a
NUS22193JZ	Steel	••	Silver	5000		M 6	•	1.9	3	8	7.5	16.4	16	6.6	0.5	2a
NUS22194EK	Steel	••••	Silver	5000		M 6	•	3.1	4.2	8	6.5	16	16	6.6	0.5	2a
SNU0537NT	Steel	•••	Silver	5000	4.8		•	0.9	2	8	7.9	19.8	12.7	9.6	0.7	1a
SNU0538NT	Steel	•••	Silver	2500	5.5		•	0.9	2.6	10	11.1	26.2	15.1	12.4	0.8	2a
SNU1219NT	Steel	•••	Silver	9000	3.5		•	0.7	1.6	6	6.7	16.4	11	7.9	0.6	2a
SNU5418NT	Steel	•••	Silver	2500	6.3		•	2.5	4	10	10	25.7	16	11.8	0.9	1a
SNU6081OE	Steel	•••	Silver	2500	5.5		•	1	3.5	6	10.8	26.2	15	12.4	0.8	2b
SNU6402PPJ	Steel	•	Black	4000	3.5		•	4	4.5	6	12.5	25.2	9.5	8.5	0.6	1a
SNU6805IH	Steel	••	Silver	7000	4.2		•	1.5	4	7.5	6.3	15.8	11	7.9	0.6	2a
SNU7311BTHJ	Steel	•••	Silver	7000	4.8		•	2	3	5.5	7	17	11.3	7.9	0.6	2b
SNU7673AZQJ	Steel	•••	Silver	6000	4.2		•	2.5	3.5	6	8.5	17.1	11.1	7.5	0.6	2A

* COATING : • Phosphate + sealer, •• Zinc flake, ••• Alkaline zinc, •••• Zinc-nickel

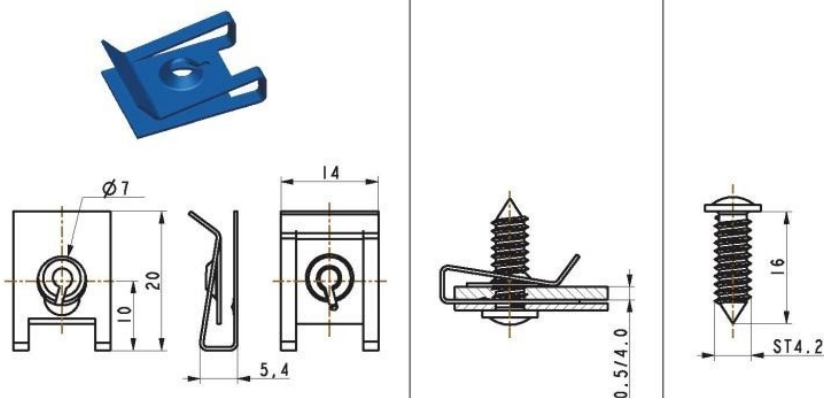
** NUT TYPE : • Single thread



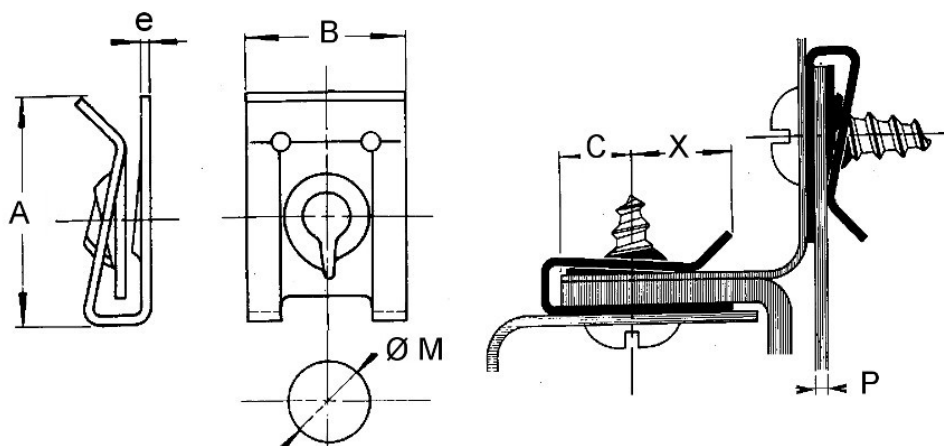
DRAWING FOR PART NUMBER(S) : NU05061, NU05081, NU05082, NU05123KO, NUL0501, NUL05212HG, NUL05213APP, NUL0528ARDB, NUL0533, NUL5392AZZB, NUS2210, NUS22171, NUS22172, NUS22173, NUS22193JZ, NUS22194EK, SNU0537NT, SNU0538NT, SNU1219NT, SNU5418NT, SNU6081OE, SNU6402PPJ, SNU6805IH, SNU7311BTHJ, SNU7673AZQJ



DRAWING FOR PART NUMBER(S) : NU0920AKO



DRAWING FOR PART NUMBER(S) : NU0921HG, NU0923, NU0926JZ, NU0927JZ





U NUTS

U shaped nuts. Mounted on the side of the supporting panel.

Antivibration metal nuts, with twin thread, to snap on (SNK type)

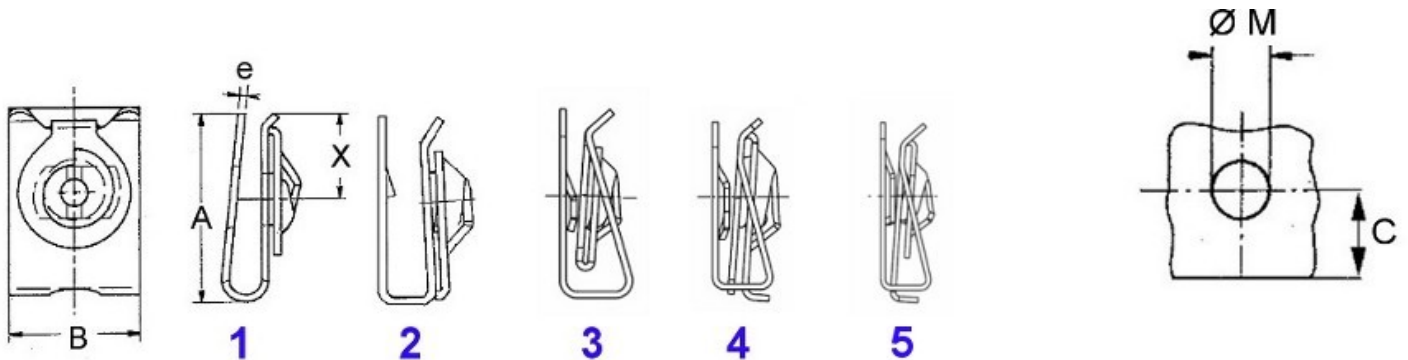
These parts have a twin-thread formed in the sheet metal. They have a high resistance to vibrations and a high mechanical resistance. They are snapped on the edge of a single thickness panel, where they are clipped over a hole.

Part number	Material	Coating *	Colour	Packaging	Self tapping screw	Screw for plastic	Nut type **	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole diameter (M)	Maximum distance hole axis / panel edge (C)	Part length or diameter (A)	Part width (B)	Distance thread axis / part end (X)	Metal thickness (e)	Shape
F034CGFJ	Steel	•	Silver	4000	4.8		•	0.5	4.5	7.2	10.5	20.3	15	8.4	0.6	3
F049BGFJ	Steel	•	Silver	4000	4.8		•	0.5	4.5	7.2	8.5	17.3	15	7.9	0.6	3
F201AIH	Steel	•	Silver	3000	6.3		•	0.8	4	9	8.5	17.3	17	7.9	0.6	4
F371BIH	Steel	••	Silver	3000		5	•	0.8	4	7.2	10.5	20.3	15		0.6	5

* COATING : • Zinc-nickel, •• Zinc flake

** NUT TYPE : • Twin thread. Self locking.

DRAWING FOR PART NUMBER(S) : F034CGFJ, F049BGFJ, F201AIH, F371BIH





U NUTS

U shaped nuts. Mounted on the side of the supporting panel.

Metal threaded chimney nuts, to snap on (NUT type)

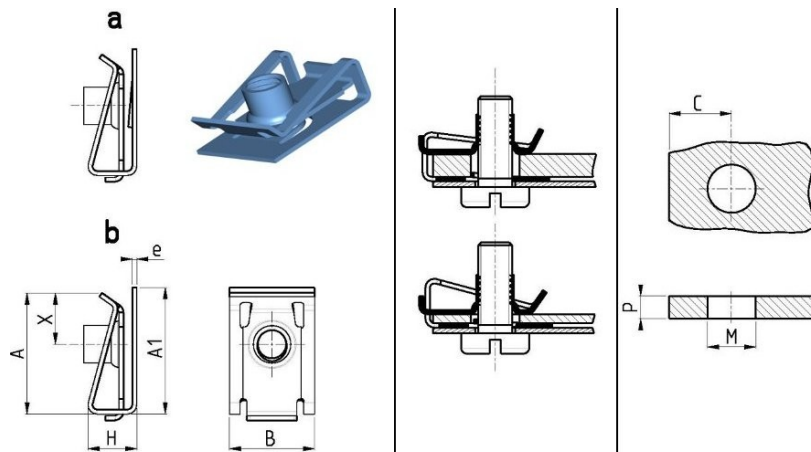
These parts have a threaded chimney formed in the sheet metal. They are snapped on the edge of a panel, where they are clipped over a hole.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole diameter (M)	Maximum distance hole axis / panel edge (C)	Part length or diameter (A)	Part width (B)	Part height (H)	Distance thread axis / part end (X)	A1	Metal thickness (e)	Shape
D400ATM	Steel	•	Silver	2000	M 5	•	0.5	4	7.5	10	20	14	8.2	9	20	0.7	a
D857AJZ	Steel	•	Silver	2000	M 6	•	3.5	7	8.2	11	22.3	15	8.6	9		0.8	a
EPS0011	Steel	•	Silver	5000	M 5	•	0.6	2.2	6.8	6.2	13.8	11.5	9			0.6	
NUT0958DNJ	Steel	••	Silver	1000	M 8	••	0.5	4	11.6	12	24.8	17	7.6	10	24.8	1	a
NUT0969EK	Steel	••	Silver	600	M 8	••	5	5	9	19.5	38.6	26	7.5	17.1	38.6	1	b
NUT0986ZZE	Stainless steel		Silver	3000	M 6	••	2.8	3.2	8.5	11	21.9	15	5.8	9.7	22.2	0.7	a
NUT5246CJZ	Steel	••	Silver	2000	M 6	••	0.5	4	8.5	11	21.3	15	8.6	8.8	22.3	0.8	a
NUT8376AJZ	Steel	•	Silver	2000	M 6	••	0.5	4	8.5	11	21.3	15	8.6	9.8	22.3	0.8	a
NUT8415AJZ	Steel	•	Silver	2000	M 5	••	0.5	4	7.5	10		14	8.2	8.6	20	0.7	a
NUT8476JZ	Steel	•	Silver	2000	M 6	••	1.5	4	8.5	8	19.3	18	8.6	9	19.3	0.8	a
NUT8528EMA	Steel	•	Silver	1000	M 8	•	0.5	5	12	12	25.5	18	9	10	25.5	1.2	b
NUT8536CMA	Steel	•	Silver	2000	M 6	•	2.5	5	9	8	20.5	16	8.6		20.5	0.8	b
NUT8538EMA	Steel	•	Silver	1000	M 8	•	0.5	5	12	16	29.8	18	9		29.8	1.2	b
NUT8616JZ	Steel	•	Silver	2000	M 6	••	3.5	5	8.5	11	21.3	15	8.6	8.8	22.3	0.8	a
NUT8726JZ	Steel	•	Silver	2000	M 6	•	0.5	4	8.5	11	21.3	15	8.6	8.8	22.3	0.8	b
NUT8736JZ	Steel	•	Silver	1500	M 6	••	1.5	4	8.5	12	23.5	23	8.6	9	23.5	0.8	a
NUT8992ANI	Steel	•••	Silver	3000	M 6	••	0.5	2.5	9	8	20.5	16	8.6	10	20.5	0.8	b

* COATING : • Zinc flake, •• Zinc-nickel, ••• Alkaline zinc

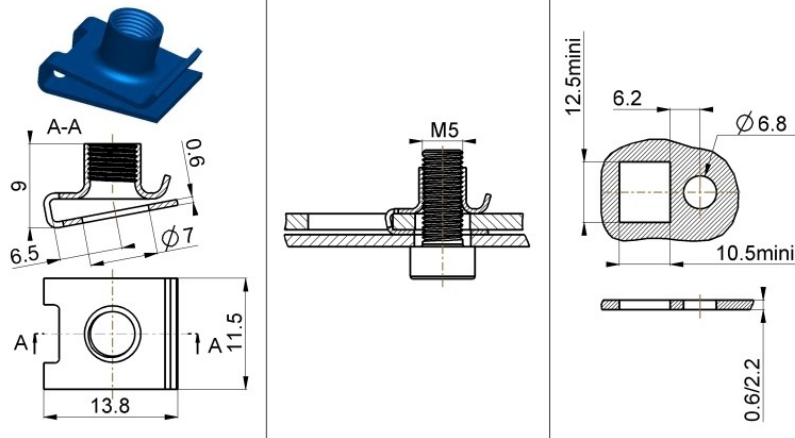
** NUT TYPE : • Threaded chimney nut. Self locking, •• Threaded chimney nut

DRAWING FOR PART NUMBER(S) : D400ATM, D857AJZ, NUT0958DNJ, NUT5246CJZ, NUT8376AJZ, NUT8415AJZ, NUT8476JZ, NUT8528EMA, NUT8536CMA, NUT8538EMA, NUT8616JZ, NUT8726JZ, NUT8992ANI

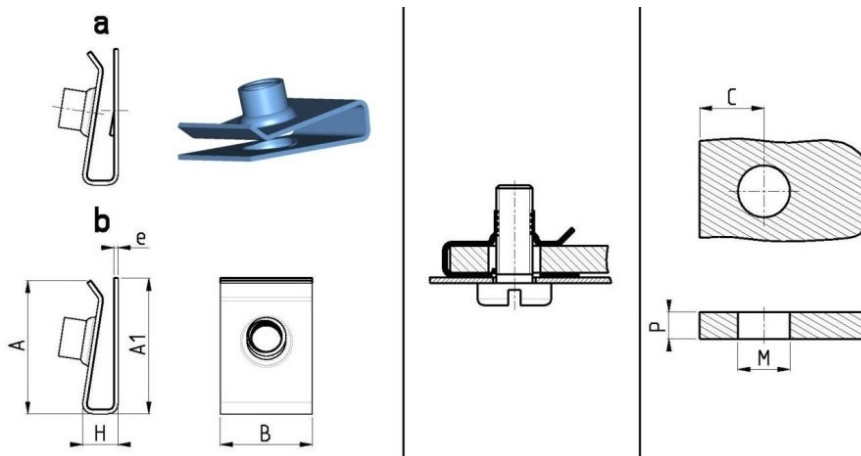




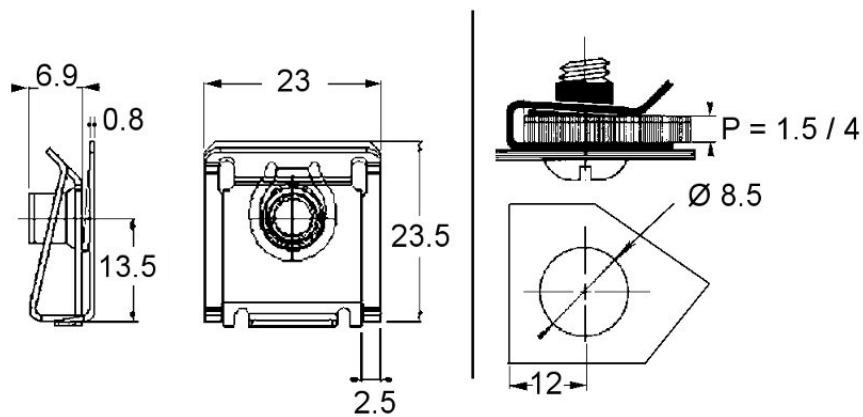
DRAWING FOR PART NUMBER(S) : EPS0011



DRAWING FOR PART NUMBER(S) : NUT0969EK, NUT0986ZZE



DRAWING FOR PART NUMBER(S) : NUT8736JZ





U NUTS

U shaped nuts. Mounted on the side of the supporting panel.

Metal cage nuts to snap on (CJ type)

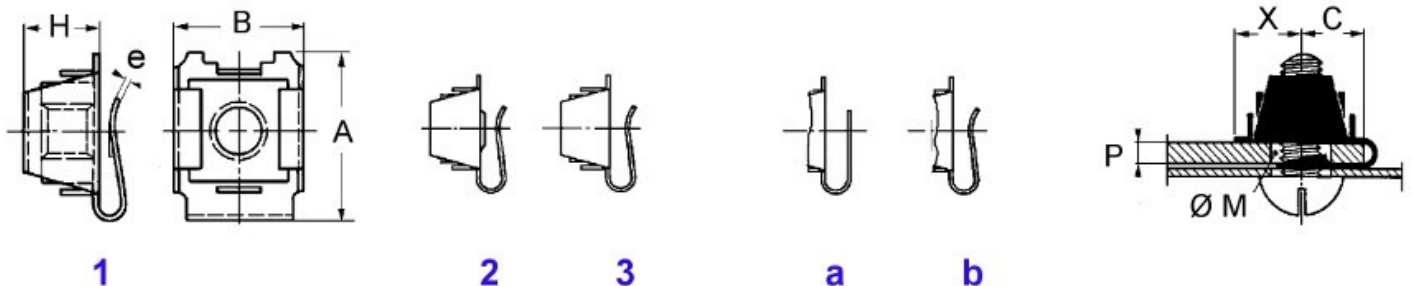
These parts include a square nut and are retained over a round hole on the edge of supporting panel.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole diameter (M)	Maximum distance hole axis / panel edge (C)	Part length or diameter (A)	Part width (B)	Part height (H)	Distance thread axis / part end (X)	Metal thickness (e)	Shape
CJ45041	Steel	•	Black	4000	M 4	•	0.5	1.1	6	7.3	15.6	11.7	6.2	7	0.6	1b
CJ45042	Steel	•	Black	4000	M 4	•	1.2	1.8	6	6.8	15.4	11.7	6.2	7	0.6	1b
CJ45043	Steel	•	Black	4000	M 4	•	1.9	2.5	6	6.4	15.3	11.7	6.2	7	0.6	1b
CJ45051	Steel	•	Black	4000	M 5	•	0.5	1.1	6	7.3	15.6	11.7	6.2	7	0.6	1b
CJ45052	Steel	•	Black	4000	M 5	•	1.2	1.8	6	6.8	15.4	11.7	6.2	7	0.6	1b
CJ45053	Steel	•	Black	4000	M 5	•	1.9	2.5	6	6.4	15.3	11.7	6.2	7	0.6	1b
CJ45061EK	Steel	••	Silver	4000	M 6	•	0.5	1.1	7	7.3	15.8	11.7	6.2	7	0.6	1b
CJ45062EK	Steel	••	Silver	4000	M 6	•	1.2	1.8	7	6.8	15.6	11.7	6.2	7	0.6	1b
CJ45063EK	Steel	••	Silver	4000	M 6	•	1.9	2.5	7	6.4	15.5	11.7	6.2	7	0.6	1b
CJ45064HG	Steel	•	Silver	4000	M 6	•	2.6	3.1	7	6	14.9	11.7	6.2	7	0.6	1b
CJ45105150HG	Steel	•••	Silver	500	M 10	•	4.8	5.5	14.3	23	39.7	21	11.2	12.2	1	2b
CJ45126	Steel	•	Black	400	M 12	•	5.6	6.3	16.4	22.4	39.5	21	11.2	12.2	1	2b
CJ48181HG	Steel	•••	Silver	1500	M 8	•	1.1	2	9	12.7	22.7	15.3	8.3	7.8	1	3b
CJ48182HG	Steel	•••	Silver	1500	M 8	•	2.1	3	9	12.3	22.6	15.3	8.3	7.8	1	3b
CJ48183HG	Steel	•••	Silver	1500	M 8	•	3.1	4	9	11.8	22.6	15.3	8.3	7.8	1	3b
CJ48184HG	Steel	•••	Silver	1500	M 8	•	4.1	5	9	11.2	22.5	15.3	8.3	7.8	1	3b

* COATING : • Phosphate + sealer, •• Zinc-nickel, ••• Alkaline zinc

** NUT TYPE : • Cage nut

DRAWING FOR PART NUMBER(S) : CJ45041, CJ45042, CJ45043, CJ45051, CJ45052, CJ45053, CJ45061EK, CJ45062EK, CJ45063EK, CJ45064HG, CJ45105150HG, CJ45126, CJ48181HG, CJ48182HG, CJ48183HG, CJ48184HG





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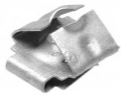
U NUTS

U shaped nuts. Mounted on the side of the supporting panel.



Metal nuts, with single thread, short lower leg, to snap on (NJ type)

These parts have a thread formed in the sheet metal and a shorter lower branch. They are snapped on the edge of a single thickness panel, where they are clipped over a hole.



Metal nuts, with single thread, with self locking, to snap on (NFJ type)

These parts have a thread formed in the sheet metal, a shorter lower branch, and a self locking system above the thread. They are snapped on the edge of a single thickness panel, where they are clipped over a hole.



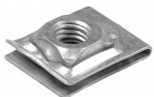
Metal nuts, with single thread, with spacer, to snap on

These parts have a thread formed in the sheet metal, and a spacer on the lower branch. They are snapped on the edge of a single thickness panel, where they are clipped over a hole.



Plastic nuts, to snap on

These parts are used with tapping screws. They are snapped on the edge of a panel.



Metal cage nuts to snap on (CNU / SMC type)

These parts include a square nut crimped on the cage. They are mainly used for electrical applications.



Special metal cage nuts to snap on (Brackets)

These parts include specific nuts. They have a large size and high mechanical characteristics.



NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Metal cage nuts, to clip with rear mounting (C 4800 / SMG type)

These parts include a square nut and are clipped in a square hole in the rear face of supporting panel. The nut floats in the cage. The cage can slide in a rectangular slot.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	B1	H1	Metal thickness (e)
C48040A	Steel	•	Silver	4000	M 4	•	Rear mounting	0.3	1.1	8.3	8.1	12.1	12	8	7.2	6.2	0.45
C4804A4	Stainless steel		Silver	1800	M 4	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4804AA	Steel	•	Silver	4000	M 4	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4804B4	Stainless steel		Silver	1800	M 4	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4804BA	Steel	•	Silver	4000	M 4	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4804C4	Stainless steel		Silver	1800	M 4	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4804CA	Steel	•	Silver	4000	M 4	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4804DA	Steel	•	Silver	4000	M 4	•	Rear mounting	3.6	4.5	8.3	8.1	12.1	12	11.5	7.2	6.2	0.45
C480504	Stainless steel		Silver	1800	M 5	•	Rear mounting	0.3	1.1	8.3	8.1	12.1	12	8	7.2	6.2	0.45
C48050A	Steel	•	Silver	4000	M 5	•	Rear mounting	0.3	1.1	8.3	8.1	12.1	12	8	7.2	6.2	0.45
C4805A4	Stainless steel		Silver	1800	M 5	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4805AA	Steel	•	Silver	4000	M 5	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4805B4	Stainless steel		Silver	1800	M 5	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4805BA	Steel	•	Silver	4000	M 5	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4805C4	Stainless steel		Silver	1800	M 5	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4805CA	Steel	•	Silver	4000	M 5	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4805DA	Steel	•	Silver	4000	M 5	•	Rear mounting	3.6	4.5	8.3	8.1	12.1	12	11.5	7.2	6.2	0.45

* COATING : • Cage: Stainless / Nut: zinc

** NUT TYPE : • Cage nut



Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	B1	H1	Metal thickness (e)
C480604	Stainless steel		Silver	1800	M 6	•	Rear mounting	0.3	1.1	8.3	8.1	12.1	12	8	7.2	6.2	0.45
C48060A	Steel	•	Silver	4000	M 6	•	Rear mounting	0.3	1.1	8.3	8.1	12.1	12	8	7.2	6.2	0.45
C4806A4	Stainless steel		Silver	1800	M 6	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4806AA	Steel	•	Silver	4000	M 6	•	Rear mounting	1.2	1.6	8.3	8.1	12.1	12	8.5	7.2	6.2	0.45
C4806B4	Stainless steel		Silver	1800	M 6	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4806BA	Steel	•	Silver	4000	M 6	•	Rear mounting	1.7	2.5	8.3	8.1	12.1	12	9.5	7.2	6.2	0.45
C4806C4	Stainless steel		Silver	1800	M 6	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4806CA	Steel	•	Silver	4000	M 6	•	Rear mounting	2.6	3.5	8.3	8.1	12.1	12	10.5	7.2	6.2	0.45
C4806DZY4	Stainless steel		Silver	1800	M 6	•	Rear mounting	3.6	4.5	8.3	8.1	12.1	12	11.5	7.2	6.2	0.45
C4806DA	Steel	•	Silver	4000	M 6	•	Rear mounting	3.6	4.5	8.3	8.1	12.1	12	11.5	7.2	6.2	0.45
C4808AA	Steel	•	Silver	2000	M 8	•	Rear mounting	1	1.7	12.3	12.1	16.6	16	10.4	10.6	7.8	0.5
C4808B4	Stainless steel		Silver	800	M 8	•	Rear mounting	1.8	3.2	12.3	12.1	16.6	16	11.9	10.6	7.8	0.5
C4808BA	Steel	•	Silver	2000	M 8	•	Rear mounting	1.8	3.2	12.3	12.1	16.6	16	11.9	10.6	7.8	0.5
C4808C4	Stainless steel		Silver	800	M 8	•	Rear mounting	3.3	4.7	12.3	12.1	16.6	16	13.4	10.6	7.8	0.5
C4808CA	Steel	•	Silver	2000	M 8	•	Rear mounting	3.3	4.7	12.3	12.1	16.6	16	13.4	10.6	7.8	0.5
C4810AA	Steel	•	Silver	2000	M 10	•	Rear mounting	1	1.7	12.3	12.1	16.6	16	10.4	10.6	7.8	0.5
C4810BA	Steel	•	Silver	2000	M 10	•	Rear mounting	1.8	3.2	12.3	12.1	16.6	16	11.9	10.6	7.8	0.5
C4810BGMA	Steel	•	Silver	1000	M 10	•	Rear mounting	1.8	3.2	14	14	20.5	20	15	12.6	10.4	0.6
C4810CA	Steel	•	Silver	2000	M 10	•	Rear mounting	3.3	4.7	12.3	12.1	16.6	16	13.4	10.6	7.8	0.5
C4810CGMA	Steel	•	Silver	500	M 10	•	Rear mounting	3.3	4.7	14	14	20.5	20	15.5	12.6	10.4	0.6
C4810DGMA	Steel	•	Silver	500	M 10	•	Rear mounting	4.8	6.2	14	14	20.5	20	18	12.6	10.4	0.6
C4811AA	Steel	•	Silver	2000	M 6	•	Rear mounting	1	1.7	12.3	12.1	16.6	16	10.4	10.6	7.8	0.5

* COATING : • Cage: Stainless / Nut: zinc

** NUT TYPE : • Cage nut



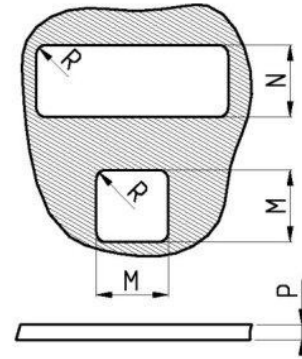
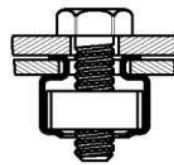
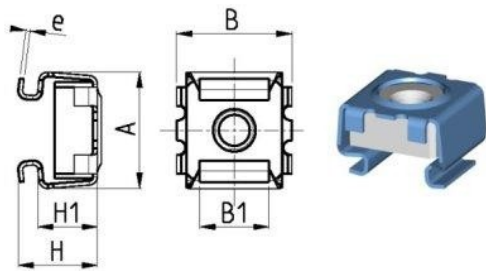
Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	B1	H1	Metal thickness (e)
C4811BA	Steel	•	Silver	2000	M 6	•	Rear mounting	1.8	3.2	12.3	12.1	16.6	16	11.9	10.6	7.8	0.5
C4811CA	Steel	•	Silver	2000	M 6	•	Rear mounting	3.3	4.7	12.3	12.1	16.6	16	13.4	10.6	7.8	0.5
C48120A	Steel	•	Silver	1000	M 12	•	Rear mounting	0.8	1.2	14	14	20.5	20	12.7	12.6	10.4	0.6
C4812BA	Steel	•	Silver	1000	M 12	•	Rear mounting	1.8	3.2	14	14	20.5	20	14.7	12.6	10.4	0.6
C4812CA	Steel	•	Silver	500	M 12	•	Rear mounting	3.3	4.7	14	14	20.5	20	16.2	12.6	10.4	0.6
C4812DA	Steel	•	Silver	1000	M 12	•	Rear mounting	4.8	6.2	14	14	20.5	20	17.7	12.6	10.4	0.6
C4844AA	Steel	•	Silver	10000	M 4	•	Rear mounting	0.3	0.9	5.3	5	9.8	9.3	5.2	4.8	3.5	0.3
C4844BA	Steel	•	Silver	10000	M 4	•	Rear mounting	1	1.6	5.3	5	9.8	9.3	5.9	4.8	3.5	0.3
C4844CA	Steel	•	Silver	10000	M 4	•	Rear mounting	1.7	2.3	5.3	5	9.8	9.3	6.6	4.8	3.5	0.3
C4844DA	Steel	•	Silver	10000	M 4	•	Rear mounting	2.4	3.1	5.3	5	9.8	9.3	7.4	4.8	3.5	0.3
C4895AA	Steel	•	Silver	2000	M 5	•	Rear mounting	0.7	1.6	9.5	9.2	13.2	13	8.8	8.5	6.5	0.45
C4895BA	Steel	•	Silver	2000	M 5	•	Rear mounting	1.7	2.7	9.5	9.2	13.2	13	10	8.5	6.5	0.45
C4896AA	Steel	•	Silver	4000	M 6	•	Rear mounting	0.7	1.6	9.5	9.2	13.2	13	8.8	8.5	6.5	0.45
C4896BA	Steel	•	Silver	2000	M 6	•	Rear mounting	1.7	2.7	9.5	9.2	13.2	13	10	8.5	6.5	0.45
CCM4565BA	Steel	•	Silver	4000	M 5	••	Rear mounting	1.5	2	8.3	8.1	12	12		7.2	6.2	0.45
CCM4566BA	Steel	•	Silver	4000	M 6	••	Rear mounting	1.5	2	8.3	8.1	12	12		7.2	6.2	0.45
CCM4568BA	Steel	•	Silver	2000	M 8	••	Rear mounting	1	2.4	12.3	12.1	16.6	16	11.7	10.6	7.8	0.5
CCM4595BA	Steel	•	Silver	2000	M 5	••	Rear mounting	0.9	1.9	9.3		13.2	13	10	8.5	6.5	0.45
CCM4596BA	Steel			2000	M 6	••	Rear mounting	0.9	1.9	9.3		13.2	13		8.5	6.5	0.45
CCM4596CA	Steel	•	Silver	2000	M 6	••	Rear mounting	1.8	2.9	9.3		13.2	13		8.5	6.5	0.45
CCM4596DA	Steel	•	Silver	2000	M 6	••	Rear mounting	2.8	3.6	9.3		13.2	13		8.5	6.5	0.45

* COATING : • Cage: Stainless / Nut: zinc

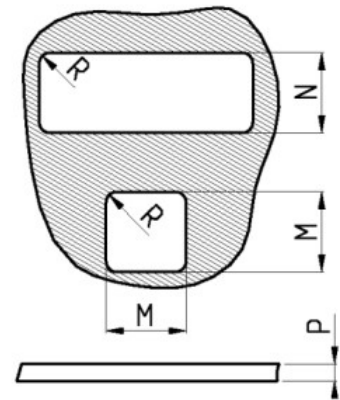
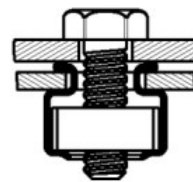
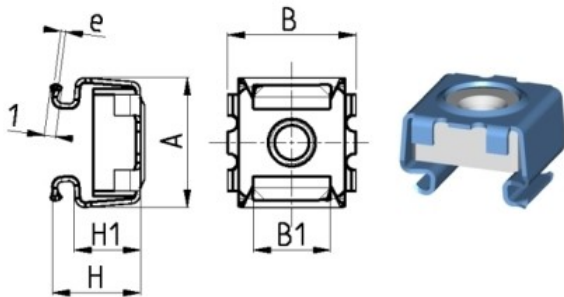
** NUT TYPE : • Cage nut, •• Earthing cage nut



DRAWING FOR PART NUMBER(S) : C48040A, C4804A4, C4804AA, C4804B4, C4804BA, C4804C4, C4804CA, C4804DA, C480504, C48050A, C4805A4, C4805AA, C4805B4, C4805BA, C4805C4, C4805CA, C4805DA, C480604, C48060A, C4806A4, C4806AA, C4806B4, C4806BA, C4806C4, C4806CA, C4806DZY4, C4806DA, C4808AA, C4808B4, C4808BA, C4808C4, C4808CA, C4810AA, C4810BA, C4810BGMA, C4810CA, C4810CGMA, C4810DGMA, C4811AA, C4811BA, C4811CA, C48120A, C4812BA, C4812CA, C4812DA, C4844AA, C4844BA, C4844CA, C4844DA, C4895AA, C4895BA, C4896AA, C4896BA



DRAWING FOR PART NUMBER(S) : CCM4565BA, CCM4566BA, CCM4568BA, CCM4595BA, CCM4596BA, CCM4596CA, CCM4596DA





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Metal cage nuts, to clip with front mounting (C 0800 / C 4830 type)

These parts include a trapezoidal or square nut and are clipped in a rectangular hole on the front face of supporting panel.

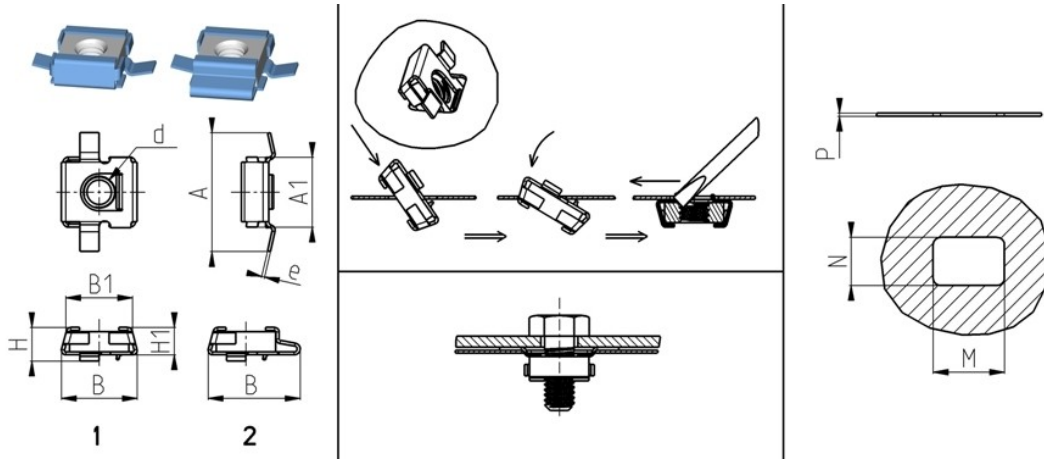
Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	A1	B1	H1	Metal thickness (e)	Shape
C48352HG	Steel	•	Silver	4000	M 5	•	Front mounting	0.8	1.1	13	8	19.3	13	7.3	12	11.2	5.4	0.5	1
C48353	Steel	••	Black	4000	M 5	•	Front mounting	1.2	1.5	13	8	19	13	7.6	12	11.2	5.4	0.5	1
C48355HG	Steel	•	Silver	4000	M 5	•	Front mounting	2	2.2	13	8.2	17.8	13	8.4	12	11.2	5.4	0.5	1
C48362	Steel	••	Black	4000	M 6	•	Front mounting	0.8	1.1	13	8	19.6	13	7.7	12	11.2	5.9	0.5	1
C48363HG	Steel	•	Silver	4000	M 6	•	Front mounting	1.2	1.5	13	8	19	13	8.1	12	11.2	5.9	0.5	1
C48364TM	Steel	•••	Silver	4000	M 6	•	Front mounting	1.6	1.9	13	8	18.4	13	8.5	12	11.2	5.9	0.5	1
C48365EK	Steel	••••	Silver	4000	M 6	•	Front mounting	2	2.2	13	8.2	17.3	13	9	12	11.2	5.9	0.5	1
C48383	Steel	••	Black	1500	M 8	•	Front mounting	1.4	1.7	18.5	11	26.8	19	10	17.5	16.5	7.4	0.7	1
C48384HG	Steel	•	Silver	1500	M 8	•	Front mounting	1.8	2.1	18.5	11	26.2	19	10.4	17.5	16.5	7.4	0.7	1
C48385EK	Steel	••••	Silver	1200	M 8	•	Front mounting	2.2	2.5	18.5	11	25.6	19	10.8	17.5	16.5	7.4	0.7	1

* COATING : • Alkaline zinc, •• Phosphate + sealer, ••• Zinc flake, •••• Zinc-nickel

** NUT TYPE : • Cage nut



DRAWING FOR PART NUMBER(S) : C48352HG, C48353, C48355HG, C48362, C48363HG, C48364TM, C48365EK, C48383, C48384HG, C48385EK





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Metal cage nuts, for heavy duty, to clip with front mounting (CL type)

These parts are clipped in 2 small size holes in the front face of supporting panel. Compared to other cage nuts, they withstand high torques and loads.

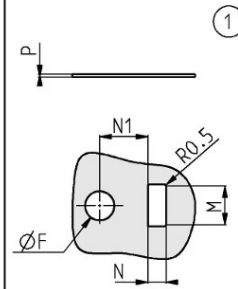
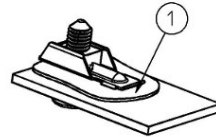
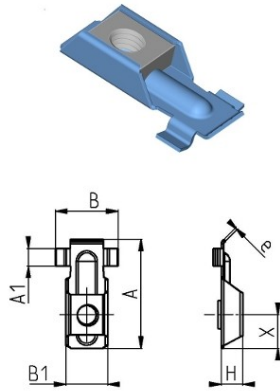
Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Round hole diameter (F)	Distance between holes (N1)	Part length or diameter (A)	Part width (B)	Part height (H)	Distance thread axis / part end (X)	A1	B1	Metal thickness (e)
CL48681NJ2	Steel	•	Silver	1500	M 8	•	Front mounting	1	1.2	15.2	10.2	10	13	37.5	21.5	7.5	11.5	6	14.4	0.8
CL48683EK2	Steel	•	Silver	1500	M 8	•	Front mounting	1.5	1.75	15.2	10.2	10	13	37.5	21.5	7.5	11.5	6	14.4	0.8
CL48685HG2	Steel	••	Silver	1500	M 8	•	Front mounting	2	2.25	15.2	10.2	10	13	37.5	21.5	7.5	11.5	6	14.4	0.8
CL48703150HG	Steel	••	Silver	1000	M 10	•	Front mounting	1.5	1.75	17.2	11.2	12	16	44	23.5	9.2	14	7	16.6	0.9
CL48705150EK	Steel	•	Silver	700	M 10	•	Front mounting	2	2.25	17.2	11.2	12	16	44	23.5	9.2	14	7	16.6	0.9
CL487210PC2	Steel	•••	Black	500	M 12	•	Front mounting	3.5	3.75	20.2	13	14.5	18.45	50	28.2	10.4	15.8	8	19.6	1
CL48725175HG	Steel	••	Silver	500	M 12	•	Front mounting	2	2.25	20.2	13	14.5	18.45	50	27	10.4	15.8	8	19.6	1

* COATING : • Zinc-nickel, •• Alkaline zinc, ••• Phosphate + sealer

** NUT TYPE : • Cage nut



DRAWING FOR PART NUMBER(S) : CL48681NJ2, CL48683EK2, CL48685HG2, CL48703150HG,
CL48705150EK, CL487210PC2, CL48725175HG





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Metal cage nuts, to tip clip

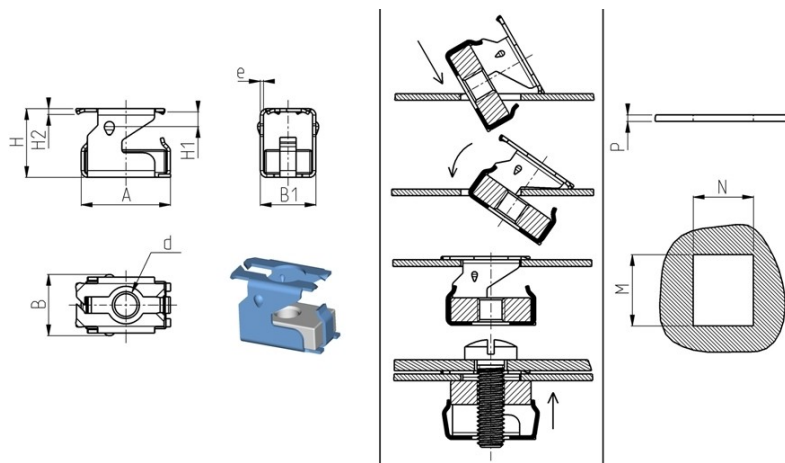
These parts are easily clipped by hand on the front face of supporting panel.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	B1	Metal thickness (e)
CNS53461AHG	Steel	•	Silver	2000	M 6	•	Front mounting	1.5	2	13	11	17.5	15.1	12.2	12.7	0.6
CNS53481AHG	Steel	•	Silver	2000	M 8	•	Front mounting	1.5	2	13	11	17.5	15.1	12.2	12.7	0.6

* COATING : • Alkaline zinc

** NUT TYPE : • Cage nut

DRAWING FOR PART NUMBER(S) : CNS53461AHG, CNS53481AHG





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Metal cage nuts, to clip with front mounting ("Helical" type)

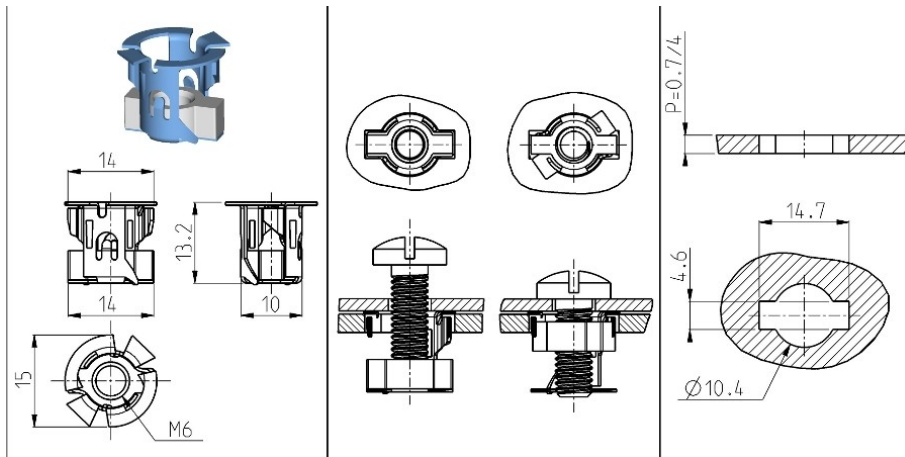
These parts are easily clipped by hand on the front face of supporting panel. They are designed to permit a premounting of the set screw-nut on the element to fasten.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	Metal thickness (e)
CNS8636GNJ	Steel	•	Silver	3000	M 6	•	Front mounting	0.7	4	14.7	10.4	14	10	13.2	0.5

* COATING : • Zinc-nickel

** NUT TYPE : • Cage nut

DRAWING FOR PART NUMBER(S) : CNS8636GNJ





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Round cage nuts, to be clipped by front mounting (CP and CV type). CV type is with steel cage and nut. CP type is with plastic cage and brass nut.

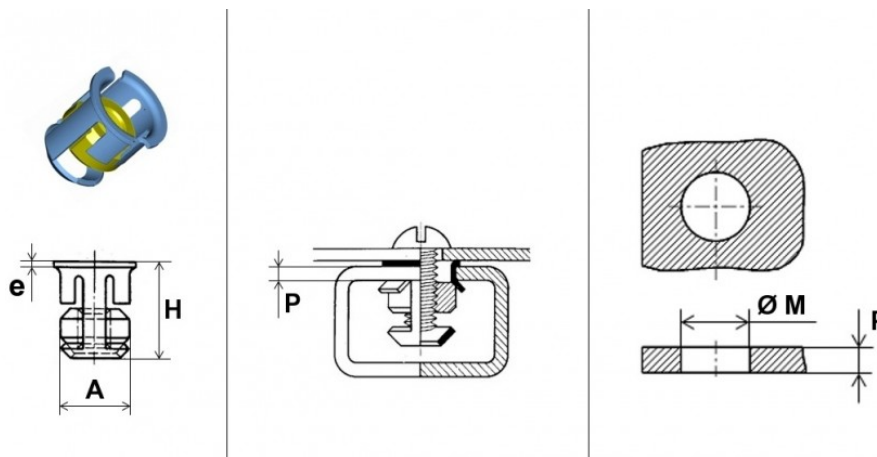
These parts are clipped in a round hole in the front face of supporting panel. Type CV parts self crimp on the panel during tightening. Type CP parts provide good electric insulation (Plastic cage) and the brass nut makes them insensible to corrosion.

Part number	Material	Coating *	Colour	Packaging	Metric screw diameter	Nut type **	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Part length or diameter (A)	Part height (H)	Metal thickness (e)
CV4822HG	Steel	•	Silver	10000	M 4	•	Front mounting	0.7	3	7.2	7	9.2	0.5
CV4824HG	Steel	•	Silver	5000	M 4	•	Front mounting	0.7	3	10.1	9.9	13	0.6
CV4825HG	Steel	•	Silver	5000	M 5	•	Front mounting	0.7	3	10.1	9.9	13	0.6
CV4826HG	Steel	•	Silver	5000	M 6	•	Front mounting	0.7	3	10.1	10	13	0.6
CV4828HG	Steel	•	Silver	2000	M 8	•	Front mounting	1	6	13.2	12.9	18.2	0.9
CV4829HG	Steel	•	Silver	5000	M 5	•	Front mounting	0.7	3	8.6	8.4	11	0.5

* COATING : • Alkaline zinc

** NUT TYPE : • Round cage nut

DRAWING FOR PART NUMBER(S) : CV4822HG, CV4824HG, CV4825HG, CV4826HG, CV4828HG, CV4829HG





NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.

Plastic nuts, to clip with front mounting, and simple plastic nuts

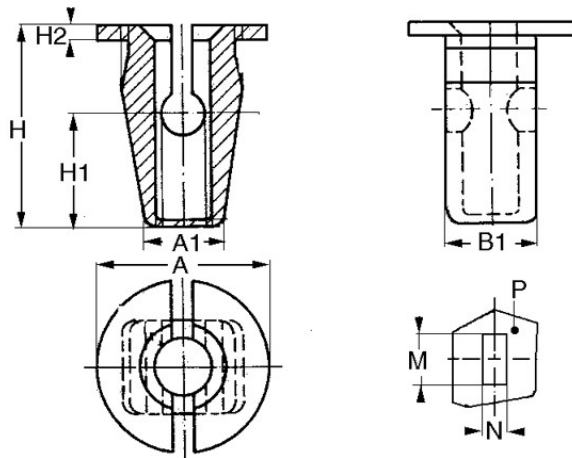
These parts are easily clipped by hand on the front face of supporting panel. They are mostly used with screws for plastic.

Part number	Material	Colour	Packaging	Self tapping screw	Screw for plastic	Metric screw diameter	Nut type *	Type of assembly	Minimum panel thickness (P)	Maximum panel thickness (P)	Hole length or diameter (M)	Hole width (N)	Part length or diameter (A)	Part width (B)	Part height (H)	A1	B1	H1	H2	Shape
01492-2	Plastic	Black	4600	4.8			•	Front mounting	0.7	3	7.4	7.4	12		16.5	5.5	6.5	10.5	1	
01841	Plastic	Silver	5000		4		•	Front mounting	0.7	2.2	7.4	7.4	15		21.3	7.4	7.4			
01890	Plastic	Silver	20000		5		•	Front mounting	0.7	2.85	7.4	7.4	15		13.7	7.4	7.4			
01983	Plastic	Natural	4000		4		•	Front mounting	2.5	4	7.4	7.4	15		22.8	7.4	7.4			
EPL0003	Plastic	Black	4000	4.8			•	Front mounting	0.7	2.9	7.4	7.4	15	15	13.7					
P0207KA	Plastic	Natural	10000	3.9			•	Front mounting	0.4	4	7.8		16	16	9			1		c2
P0855KA	Plastic	Natural	15000	3.9			•	Front mounting	0.8	4	7	7	12.7	12.7	10.8			2.5		d1
P1527NAT	Plastic	Natural	5000	4.2			•	Front mounting	0.5	2.5	8.2	8.2	12	12	12			0.8		a
PRD04836	Plastic	Natural	4000		5		•	Front mounting	0.6	2	8.2	8.2	11	11	16					
PRD04907	Plastic	Black	900			M 6	••						24	15						
PRM02848A	Plastic	Black	4600	4.8			•	Front mounting	0.7	3	7.4	7.4	12		16.5	5.5	6.5	10.1	1	

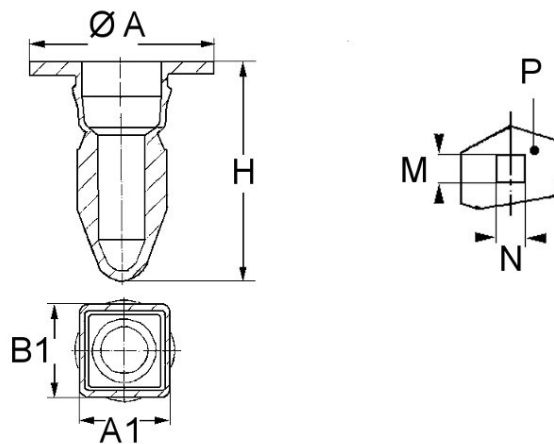
* NUT TYPE : • Not threaded, •• Butterfly type



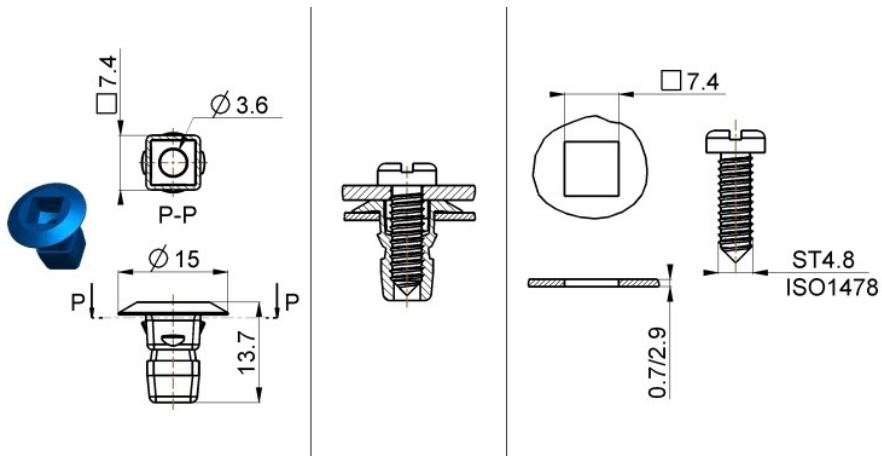
DRAWING FOR PART NUMBER(S) : 01492-2, PRM02848A



DRAWING FOR PART NUMBER(S) : 01841, 01890, 01983

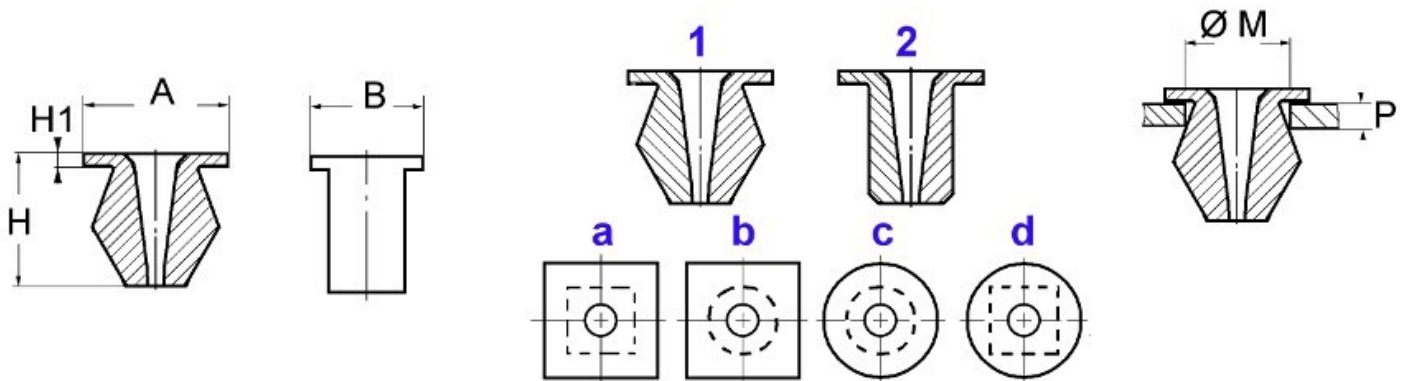


DRAWING FOR PART NUMBER(S) : EPL0003

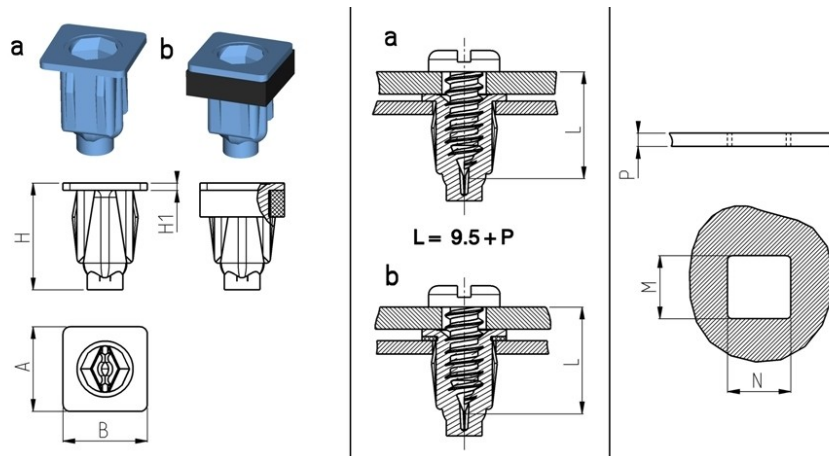




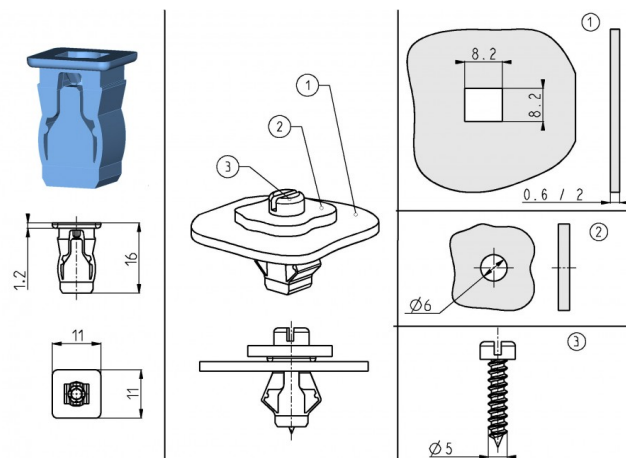
DRAWING FOR PART NUMBER(S) : P0207KA, P0855KA



DRAWING FOR PART NUMBER(S) : P1527NAT

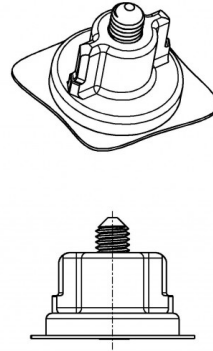
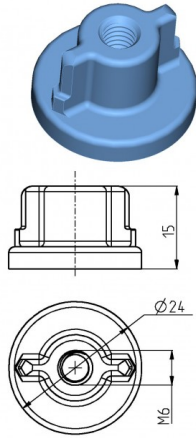


DRAWING FOR PART NUMBER(S) : PRD04836





DRAWING FOR PART NUMBER(S) : PRD04907





Visit web site "lisicatalog.lisi-automotive.com" for details on products of above families.
Packaging, availability and delivery time on request.

NUTS TO BE CLIPPED

Mainly cage nuts. They are clipped in hole in the supporting panel.



Metal cage nuts, to clip for levelling feet

These parts are clipped in the front face of supporting panel. They are mainly used to fix a levelling foot in the right position.



Special metal cage nuts to clip or to weld (Brackets)

These parts include specific nuts. They have a large size and high mechanical characteristics.



Metal nuts, with single thread, to clip with front mounting (EX / SNO type)

These parts are clipped in a round or square hole in the front face of supporting panel. They are self locking.



Metal nuts with plastic cage, to clip with front mounting (MP5000 type)

These parts are clipped by 1/4 turn on the front face of supporting panel.



Metal tubular nuts to clip with front mounting (NT type)

These parts are clipped in a blind hole.



SPECIAL PRODUCTS

Fasteners for electrical components, sinks, external trims, wheel covers, seats, brakes... Anticreep rings, fluid connectors...

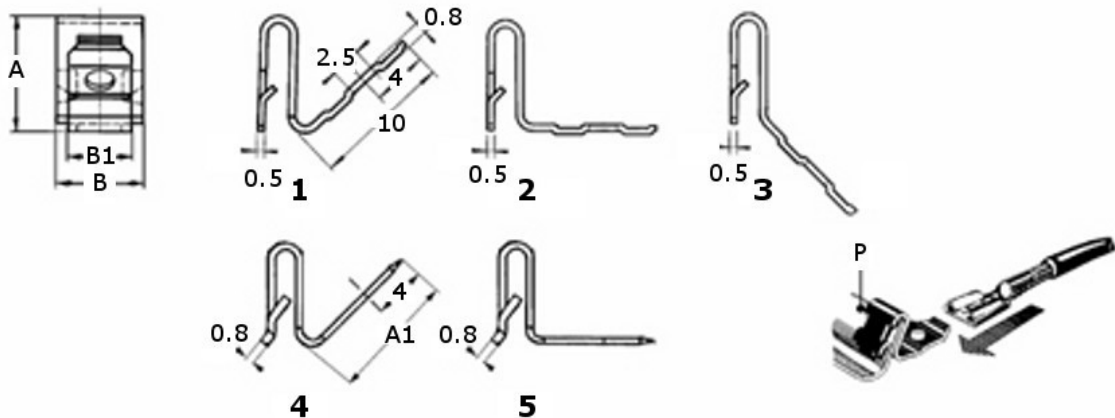
Clips for electrical components

These parts are designed for electrical continuity or to fix electronic components.

Part number	Material	Coating *	Colour	Packaging	Type	Panel 1 minimum thickness (P)	Panel 1 maximum thickness (P)	Eyelet width	Part length or diameter (A)	Part width (B)	A1	B1	Metal thickness (e)	Shape
C27251635ZB	Steel	•	Silver	10000	To snap-on for terminal clips	0.5	0.9	6.35	8.3	6.2	10	6.2	0.5	1
C27252635ZB	Steel	•	Silver	10000	To snap-on for terminal clips	1	1.4	6.35	8.15	6.2	10	6.2	0.5	1
C27253635ZB	Steel	•	Silver	10000	To snap-on for terminal clips	1.5	2	6.35	8	6.2	10	6.2	0.5	1

* COATING : • Alkaline zinc

DRAWING FOR PART NUMBER(S) : C27251635ZB, C27252635ZB, C27253635ZB





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Packaging, availability and delivery time on request.

SPECIAL PRODUCTS

Fasteners for electrical components, sinks, external trims, wheel covers, seats, brakes... Anticreep rings, fluid connectors...



Anti creep devices

These parts locally reinforce panels in relatively soft materials to allow them to withstand clamping forces.



External trim or covers clips

These parts are used for external trim (Automotive), or for covers.



Fluid hoses connections

These parts connect hoses together.



Electrical connectors

Electrical connectors housings, or fasteners for electrical connectors.



Elements for braking system

Clipped axis for brake yoke, and other parts for braking systems (Automotive).



Stops, hooks, stowing systems

These parts are end stops, hooks, or stowing systems, mainly on automobile luggage compartment.



Seat fasteners

These parts are used for seats (Automotive).



Visit web site "lisicatalog.lisi-automotive.com" for details on products of above families.
Packaging, availability and delivery time on request.



Fasteners for spare wheels and wheel covers

These parts fasten spare wheels in their housing or wheel covers on wheels (Automotive).



Balance weights

These parts dynamically balance a rotating element (Especially fan turbine).



Sink fasteners

These parts fasten the kitchen sink on supporting plate (furniture).



Clips for window sub-frames

These parts are used for window sub-frames (Building).



Clips for partitions or ceilings

These parts are used for partitions or ceilings (Building).



Household appliances buttons

Buttons, mainly for household appliances.



Non fastening products

Miscellaneous products without any fastening function.



Visit web site "lisicatalog.lisi-automotive.com" for details on products of above families.
Packaging, availability and delivery time on request.

FASTENERS ON SHAFTS (2). RADIAL OR AXIAL MOUNTING.

To fasten radially or axially, panels, buttons, badges... on a shaft.



External circlips (For shafts with groove)

These parts are slid on to a smooth shaft axially blocking the element in a groove.



External rings (For shafts without groove)

These parts are slid on to a smooth shaft axially blocking the element in a groove.



Reversed external rings (For shafts with groove)

These parts are slid on to a smooth shaft axially blocking the element in a groove.



E rings (For shafts with groove)

These parts are slid on to a smooth shaft radially blocking the element in a groove



K rings (For shafts with groove)

These parts are radially introduced in a rough cast groove, on a smooth shaft, to block axially an element



Crescent Rings (For shafts with groove)

These parts are radially slid onto a smooth shaft and blocked axially in a groove. For assemblies with reduced load



Internal circlips (For bores with groove)

These parts are axially introduced in a smooth bore and are blocked in a groove.



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Reversed internal rings (For bores with groove)

These parts are axially introduced in a smooth bore and are blocked in a groove



Specific radial retainers

These parts are slid on a smooth shaft and blocked in a groove, or are clipped on their support

FLANGE NUTS

Nuts with flanges, for distribution of load on a greater surface



Flange nuts

TWOLOK NUTS WITH WASHERS

Nuts with rotating washer (SEMS)



Twolok nuts with flat washer

SEMS nuts with flat washer



Twolok nuts with conical washer

SEMS nuts with conical washer



Twolok nuts with contact washer

SEMS nuts with contact washer



Twolok nuts with specific washer

SEMS nuts with specific washer



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FLAT NUTS / PAL NUTS

Nuts made of sheet metal, used without pre-assembling on their support



PAL nuts

These parts are used as lock nuts or as nuts in light assemblies.



Flat nuts

These parts can replace a nut and a washer. They have small dimensions and offer a good resistance to vibrations. Some are designed to be tightened by a wrench.

CRIMPING NUTS

Nuts to be crimped on a panel



Crimping nuts

WELD NUTS

Nuts to be welded on a panel



Weld nuts

HEXAGONAL NUTS

Specific low hexagonal nuts (non-Standard)



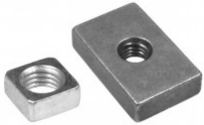
Special hexagonal nuts



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NON HEXAGONAL NUTS

Rectangular and square nuts



Non hexagonal nuts

ROUND NUTS



Specific round nuts

FLAT WASHERS

Washers used in threaded assemblies for distribution of load on a greater surface. Also used for oversized or oblong holes and for protection of assembled parts



Flat washers

Designed to be used separately (Not directly assembled on a nut or screw)



Flat assembled washers

Designed to be assembled on a nut or a screw (SEMS)

CONICAL WASHERS

Spring washers, prevent loosening of threaded assemblies due to vibration or temperature variations.



Conical washer

Designed to be used separately (Not directly assembled on a nut or screw)



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Conical assembled washers

Designed to be assembled on a nut or a screw (SEMS)



Flex washers

CONTACT WASHERS

Spring washers, prevent loosening of threaded assemblies due to vibration or temperature variations. They also ensure electrical continuity.



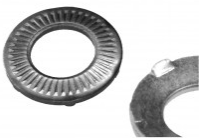
Contact washer

Designed to be used separately (Not directly assembled on a nut or screw)



Contact assembled washers

Designed to be assembled on a nut or a screw (SEMS)



Contact washers, for electrical continuity

Contact washers to be used separately, with electrical continuity barbs



Contact plate washers

Parts with same function as contact washers, but not circular



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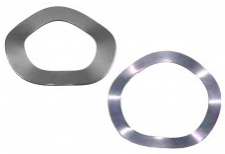
ONDUFLEX SPRING WASHERS

Spring washers, compensate axial play and misalignment in an assembly and prevent the risk of loosening.



ONDUFLEX spring blocking washers

To limit risk of loosening of threaded assemblies. Especially suitable for use with plastics, light alloys...



ONDUFLEX spring pressing washers

To compensate axial play or misalignments, by keeping tension in the assembly

SERRATED WASHERS

Serrated washers, prevent the risk of loosening of threaded assemblies, used in low to medium tensile applications



Serrated washers with external teeth AZ

Washers used in most applications



Serrated washers with internal teeth JZ

Washers aesthetically improved (invisible teeth), usable with screws or nuts of small dimension.



Serrated washers with internal curved teeth JZC

For use on oblong, or big diameter hole, on softmaterials (Plastic, light alloys...) to replace a flat washer and a blocking washer. Its curved shape gives the assembly a light elasticity.



Serrated washers with internal and external teeth DD

For positioning parts, for assemblies with reinforced electrical continuity, for use on oblong or oversized holes.



Serrated conical washers with external teeth AZV

For use with countersunk head screws



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Serrated washers with narrow internal teeth JZE

For use on soft materials (Plastics, light alloys...) or with nuts with reduced WAF (width across flats)

PLASTIC AND SPECIAL WASHERS. SPACERS

Washers and spacers for special uses



Plastic washers

Protect support during tightening of nuts or screws. In some cases, can also be used as spacers or rings.



Specific washers. Spacers

Parts for specific uses. (Claw washers, spacers, special washers...)

CAGE SCREWS

Screws with a cage, in order to be clipped in a hole of a panel



Front mounting cage screws (V0800 Type)

These cage screws are clipped in a square hole in the front face of supporting panel.



Rear mounting cage screws

These cage screws are clipped in a square hole in the rear face of supporting panel.



Special screws and cage screws

These parts have special cages, and have been developed for specific uses.



Front mounting cage bolts (smooth)

These cage bolts are clipped in a square hole in the front face of supporting panel.



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NEW PRODUCTS

Recently introduced in catalogue

New products



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