



Screw Clips

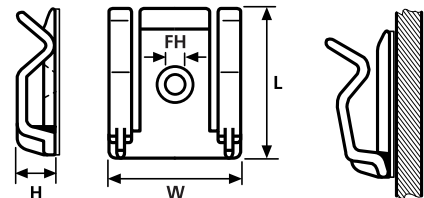
- TY8H1 with flat design
- ASI-Clipss

Features and Benefits

This Fixing element is designed to hold cables, tubes or conduits without the need of a cable tie. Simply screwed or stuck (TY8H1S) onto the panel the side gripping fingers exert a firm hold but allow for easy cable removal when required.



Fixing clip TY8H1(S) - screw fix or self adhesive.



Fixing clip TY8H1(S)

Application

Ideal for holding ribbon cables in computer equipment, gaming machines or domestic appliances.

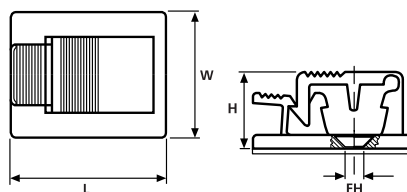
These clips are ideal for use in applications which are difficult to access, or for areas where self adhesive is the only possible fixing method (for example 'holes' would be unacceptable). The ASI clip was specifically designed for safe and secure installation of ASI bus lines.

Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2 (excluding adhesive)



Technical Table									
Article-No.	Type	Length (L)	Width (W)	Height (H)	Fixing Hole Ø (FH)	Bundle Ø max.	Material	Colour	Adhesive
151-22819	TY8H1	26.0	23.0	6.5	3.2	3.0	PA66	Natural (NA)	–
151-12819	TY8H1S	26.0	23.0	6.5	3.2	3.0	PA66	Natural (NA)	Acrylate

All dimensions in mm. Subject to technical changes.



ASI-Clip Self Adhesive Clip

For more information on the types of adhesive please turn to page 162.

Material Data	
Material	Polyamide 6.6 High Impact Modified (PA66HIR)
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB (excluding adhesive)



Technical Table								
Article-No.	Type	Length (L)	Width (W)	Height (H)	Fixing Hole Ø (FH)	Material	Colour	Adhesive
150-11294	ASI-Clip	25.0	20.0	11.7	3.3	PA66HIR	Natural (NA)	Acrylate

All dimensions in mm. Subject to technical changes.



Self Adhesive Clips

- RA-Series with round design
- RB-Series with flat design

Features and Benefits

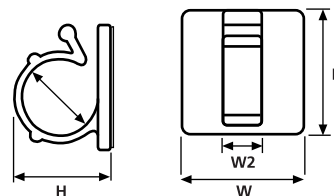
Wires, cables or hoses can be quickly and easily installed using these one piece fixing clips.

Application

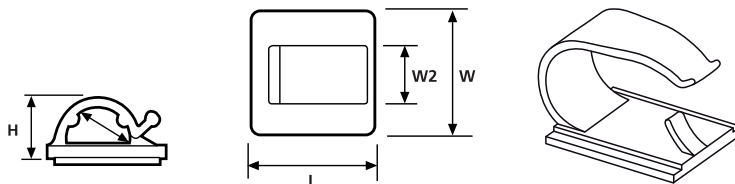
These clips are ideal for use in applications which are difficult to access, or for areas where a self adhesive is the only possible fixing method (for example where fixing 'holes' would be unacceptable).



One piece fixing clips Type RA - quick and easy installation.



RA3-18 Self Adhesive Clip



RB5-14 Self Adhesive Clip

For more information on the types of adhesive please turn to page 162.

Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2 (excluding adhesive)



Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Technical Table

Article-No.	Type	Length (L)	Width (W)	Width (W2)	Height (H)	Bundle Ø max.	Material	Colour	Adhesive
151-13018	RA3	13.0	13.0	5.0	5.0	3.0	PA66	Natural (NA)	Synthetic rubber
151-13019	RA6	19.0	19.0	5.0	9.0	6.0	PA66	Natural (NA)	Synthetic rubber
151-13020	RA9	19.0	19.0	7.5	12.5	9.0	PA66	Natural (NA)	Synthetic rubber
151-13021	RA13	25.0	25.0	10.0	16.5	13.0	PA66	Natural (NA)	Synthetic rubber
151-13119	RA18	28.5	28.5	10.0	23.0	18.0	PA66	Natural (NA)	Synthetic rubber
151-14059	RB5	19.0	19.0	9.7	6.0	5.0	PA66	Natural (NA)	Synthetic rubber
151-14000	RB5	19.0	19.0	9.7	6.0	5.0	PA66	Black (BK)	Synthetic rubber
151-13606	RB8	25.0	25.0	12.7	11.5	8.0	PA66	Natural (NA)	Synthetic rubber
151-13601	RB8	25.0	25.0	12.7	11.5	8.0	PA66	Black (BK)	Synthetic rubber
151-00505	RB14	33.2	27.4	23.0	16.0	14.0	PA66	Natural (NA)	Synthetic rubber
151-00502	RB14	33.2	27.4	23.0	16.0	14.0	PA66	Black (BK)	Synthetic rubber
151-00831	RB20	33.0	27.0	18.0	25.0	20.0	PA66HIRHS	Black (BK)	Synthetic rubber

All dimensions in mm. Subject to technical changes.



Self Adhesive Clips

- SAC with flexible flat design
- 130100 for Flat Ribbon Cables

Features and Benefits

The metal 'tongue' of the SAC-series can be bent to suit any shape or configuration of wires or cables. Cost effective with easy application on smooth, clean surfaces.

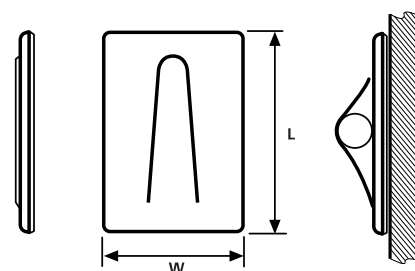
The self adhesive clip 130100 with integrated clamp can be used for holding flat cables.

Application

These clips are ideal for use in applications which are difficult to access, or for areas where self adhesive is the only possible fixing method (for example 'holes' would be unacceptable). Typically applications include domestic appliances and trailers.



Malleable tongue allows for a variety of sizes per clip.



SAC-Series Self Adhesive Clip

Material Data		
Material	Electroplated mild steel (ST)	
Adhesive	Acrylate with base of polyethylene foam	
Operating Temperature	-40 °C to +70 °C	

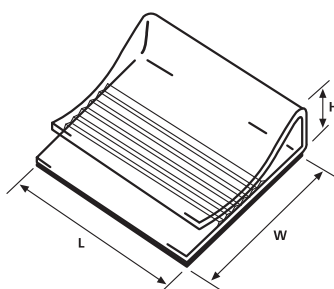


Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Material	Colour	Adhesive
151-00033	SAC0	20.0	15.0	3.0	ST	White (WH)	Acrylate
151-00100	SAC1	30.0	20.0	4.0	ST	White (WH)	Acrylate
151-00200	SAC2	35.0	25.0	8.0	ST	White (WH)	Acrylate
151-00300	SAC3	43.0	31.0	12.0	ST	White (WH)	Acrylate
151-00400	SAC4	51.0	38.0	16.0	ST	White (WH)	Acrylate

All dimensions in mm. Subject to technical changes.

For more information on the types of adhesive please turn to page 162.



130100 Self Adhesive Clip

Material Data		
Material	Polyvinylchloride (PVC)	
Operating Temperature	-25 °C to +65 °C	



Technical Table

Article-No.	Type	Length (L)	Width (W)	Height (H)	Material	Colour	Adhesive
154-01119	130100	25.0	25.0	9.1	PVC	White (WH)	Acrylate

All dimensions in mm. Subject to technical changes.



Flat Ribbon Cables Self Adhesive / Screw Fixing

• FKH-Series

Features and Benefits

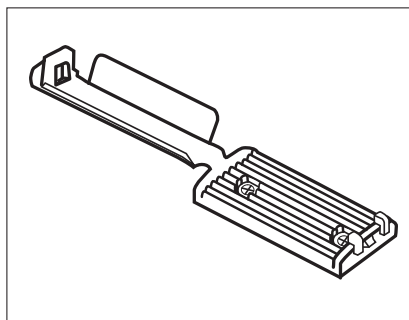
Flat Ribbon cables can be quickly and easily installed using these one piece fixing clips. They offer the benefits of being easily releasable and re-usable for additional or replacement of cables.

Application

These clips are ideal for use in applications which are difficult to access, or for areas where a self adhesive is the only possible fixing method (for example 'holes' would be unacceptable). The FKH clips are designed to retain flat ribbon cables - ideal for use in computer equipment, gaming machines and domestic appliances. Available in self-adhesive mount or screw mount.



Based on extremely soft wings any flat cable is gently fastened.



Fixation can be realised with M3 screws or acrylic adhesive backing.



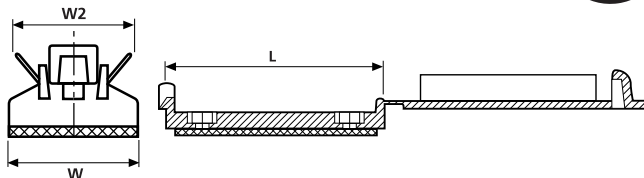
The flat ribbon cables are available in 4 different sizes.

Acrylate	
Adhesive	Acrylate
Adhesive Operating Temperature	to +105 °C

Material Data	
Material	Polyamide 6.6 High Impact Modified (PA66HIR)
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB (excluding adhesive)



For more information on the types of adhesive please turn to page 162.



Technical Table								
Article-No.	Type	Length (L)	Width (W)	Width (W2)	Fixing Hole Ø (FH)	Adhesive	Material	Colour
151-15250	FKH25A	31.0	25.0	22.0	3.1	Acrylate	PA66HIR	Black (BK)
151-15300	FKH30A	35.0	25.0	22.0	3.1	Acrylate	PA66HIR	Black (BK)
151-15500	FKH50A	56.5	25.0	22.0	3.1	Acrylate	PA66HIR	Black (BK)
151-15800	FKH80A	86.0	25.0	22.0	3.1	Acrylate	PA66HIR	Black (BK)
151-16250	FKH25	31.0	25.0	22.0	3.1	—	PA66HIR	Black (BK)
151-16300	FKH30	35.0	25.0	22.0	3.1	—	PA66HIR	Black (BK)
151-16500	FKH50	56.5	25.0	22.0	3.1	—	PA66HIR	Black (BK)
151-16800	FKH80	86.0	25.0	22.0	3.1	—	PA66HIR	Black (BK)

All dimensions in mm. Subject to technical changes.



Wire Push In Clips

• WPC

Features and Benefits

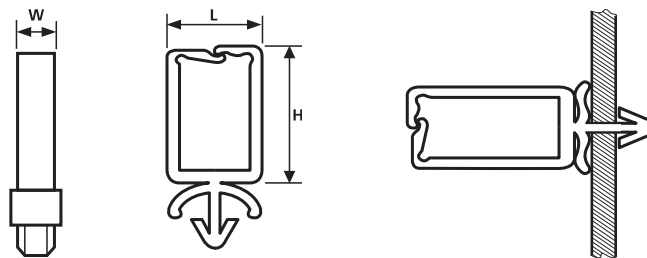
The shape of the clips ensures that they can accept either single or multiple cables, whilst the design of the cable entry allows cables to be simply pushed into place. The self-locking feature ensures that once inside the clip the wires cannot be removed accidentally. The arrowhead fixing design ensures simple and secure installation and only needs access to the panel from one side.

Application

With the increased complexity of electronic and electrical installations the use of the WPC clips enable cables to be installed using the minimum amount of space, a typical application would be in the frames/rails of control cabinets.



WPC - Wire Push In Clip.



WPC5-20 Wire Push In Clip

Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Height (H)	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Material	Colour
151-75059	WPC5	15.0	5.25	12.7	4.7	0.8	4.0	PA66	Natural (NA)
151-75109	WPC10	15.0	5.25	17.7	4.7	0.8	4.0	PA66	Natural (NA)
151-75159	WPC15	15.0	5.25	22.7	4.7	0.8	4.0	PA66	Natural (NA)
151-75209	WPC20	15.0	5.25	27.7	4.7	0.8	4.0	PA66	Natural (NA)

All dimensions in mm. Subject to technical changes.



Screw Mount

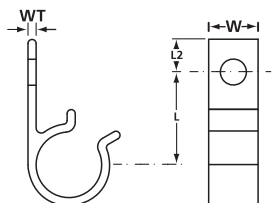
• D-Clip Series

Features and Benefits

Screwed D-clips are available in 3 sizes and guarantee time and cost saving by simply pressing the cable into the holder. The flexible grip means that later removal or replacement of cables and pipes is possible. 3 different bore diameters for fixing the holder are available



The clip is held in place by a screw and the bundled cable or pipe is guided securely.



D-Clip

Material Data	
Material	Polyacetal (POM)
Operating Temperature	-40 °C to +90 °C Continuous, (+110 °C for 500 h)
Flammability	UL94 HB



Technical Table

Article-No.	Type	Length (L)	Length (L2)	Width (W)	Wall (WT)	Fixing Hole Ø (FH)	Bundle Ø max.	Material	Colour
211-70000	4D10	17.0	8.0	15.0	2.0	4.0	10.0	POM	Black (BK)
211-70001	4D15	25.0	10.0	15.0	2.0	4.0	15.0	POM	Black (BK)
211-70002	4D20	28.0	10.0	15.0	2.5	4.0	20.0	POM	Black (BK)
211-70100	6D10	17.0	8.0	15.0	2.0	6.0	10.0	POM	Black (BK)
211-70103	6D15	25.0	10.0	15.0	2.0	6.0	15.0	POM	Black (BK)
211-70104	6D20	28.0	10.0	15.0	2.5	6.0	20.0	POM	Black (BK)
211-70200	8D10	17.0	8.0	15.0	2.0	8.0	10.0	POM	Black (BK)
211-70203	8D15	25.0	10.0	15.0	2.0	8.0	15.0	POM	Black (BK)
211-70204	8D20	28.0	10.0	15.0	2.5	8.0	20.0	POM	Black (BK)

All dimensions in mm. Subject to technical changes.



Fixing Elements for Tubes and Harnesses

- PC-Series with Arrowhead
- PC-Series with Firtree

Features and Benefits

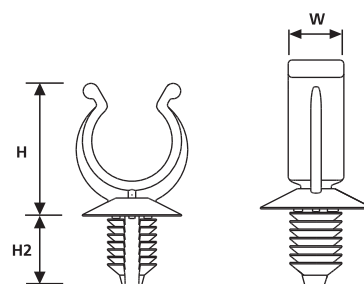
These clips can be attached to the panel prior to installing the pipe or hose, simply push the pipe into the clip for a firm and secure fixing.

Application

Originally designed for the automotive industry they are finding a wide and time saving variety of applications in all industries and where the use of a cable is not possible.



PC15FT7 for simple and secure installation of corrugated tubing.



PC Clip with Fir Tree Mount

Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Material Data

Material	Polyamide 4.6 (PA46)
Operating Temperature	-40 °C to +150 °C for 5000 h, (+195 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Width (W)	Height (H)	Height (H2)	Disc Ø	Bundle Ø max.	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Material	Colour	Drawing
151-14700	PC35LAH	8.0	10.5	5.0	–	3.5	4.7	0.8	2.0	PA66	Black (BK)	
151-14300	PC23	10.0	36.0	6.5	22.0	24.0	6.3	0.6	1.6	PA66	Black (BK)	
151-00119	PC5DP7S	–	9.5	8.1	16.0	5.0	7.0	0.8	3.0	PA66	Black (BK)	
151-14801	PC5DP7L	–	9.5	12.6	16.0	5.0	7.0	0.8	7.0	PA46	Black (BK)	
151-15101	PC14PT	10.0	20.6	7.6	22.0	14.2	6.1-6.4	2.7	3.3	PA66	Black (BK)	
151-14303	PC15FT7	12.0	27.1	11.1	21.6	15.7	6.4-6.8	1.0	6.0	PA66HIRHS	Black (BK)	

All dimensions in mm. Subject to technical changes.



Fixing Elements for Tubes and Harnesses, interconnectable

• IPC-Series

Features and Benefits

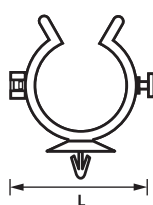
These clips can be attached to the panel prior to installing the pipe or hose, simply push the pipe into the clip for a firm and secure fixing. The parts prefixed with an 'I' can be interlocked giving a greater choice of installation options.

Application

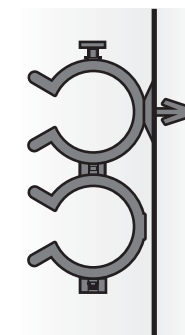
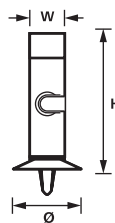
Originally designed for the automotive industry they are finding a wide and time saving variety of applications in all industries where the use of a cable tie is not suitable.



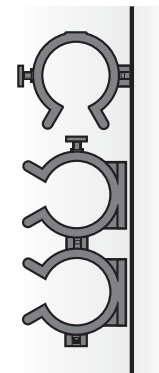
Simple and secure installation of pipes or hoses to panels.



IPC Clip



IPC P Clip connected



IPC AH Clip connected

Material Data

Material	Polyamide 6.6 High Impact Modified (PA66HIR)
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Height (H)	Width (W)	Disc Ø	Bundle Ø max.	Fixing Hole Ø (FH)	Panel Thickness max.	Material	Colour
Connectable Arrowhead			10.0	22.0	12.5	6.3	1.6	PA66HIR	Black (BK)
151-00096	IPC10AH	18.4							
151-14500	IPC15AH	23.0							
151-14601	IPC23AH	34.0	10.0	22.0	25.0	6.3	1.6	PA66	Black (BK)
Connectable			10.0	—	12.5	—	—	PA66HIR	Black (BK)
151-14400	IPC10P	15.0							

All dimensions in mm. Subject to technical changes.



Fixing Elements for Tubes and Harnesses

- **KSFT6.5OC1-3 with Arrowhead** for bundle diameter 1.0 - 3.0 mm
- **KSFT6.5OC7-9 with Arrowhead** for bundle diameter 7.0 - 9.0 mm

Features and Benefits

Fixing Elements for the easy and space saving usage in the automotive seat area. Their very low design and the rounded arrowhead meet the especially high security requirements in this vehicle sector. Due to the little available space their height between tip and plate is designed so extremely small clips can be attached to the panel prior to installing the pipe or hose, simply push the pipe into the clip for a firm and secure fixing.



The very low Arrowhead is specially designed for narrow installation spaces.



The OmegaClip KSFT6.5OC7-9 can be used repeatedly and flexibly to bundle cables, pipes or hoses.

Technical Table

Article-No.	Type	Height (H)	Attach to Ø	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Material	Colour	Drawing
151-00673	KSFT6.5OC1-3	14.4	1.0 - 3.0	6.3-6.7	2.3	2.7	PA66HIRHS	Black (BK)	
151-00674	KSFT6.5OC7-9	21.6	7.0 - 9.0	6.3-6.7	2.3	2.7	PA66HIRHS	Black (BK)	

All dimensions in mm. Subject to technical changes.

- **HC48FT6 with Firtree** for bundle diameter 4.8 mm

Features and Benefits

The HC48FT6 Fixing Element offers a simple and flexible usage for cables, pipes and tubes. Simply push the bundle into the clip, and it will hold secure in place. His design allows also to hold several cables at once. HC48FT6 can be used easily for subsequent installations or if replacements are needed.

Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Technical Table

Article-No.	Type	Height (H)	Attach to Ø	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Material	Colour	Drawing
151-00680	HC48FT6	20.8	4.3 - 5.2 mm	6.5-7.0	0.7	2.8	PA66HIRHS	Black (BK)	

All dimensions in mm. Subject to technical changes.



Fixing Elements for Tubes and Harnesses with Automatic Locking Feature

• AHC-Serie

Features and Benefits

These clips can be attached to the panel prior to installing the cables. Simply pushing the cable into place, closes the clip which activates the automatic locking feature. The parts prefixed with an 'I' can be interlocked giving a greater choice of installation options.

Meaning of extensions:

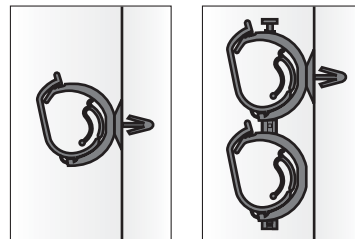
- T = flat
- AH = anchor for Ø 6.5mm
- BH = anchor for hole 6.2x12.2mm
- CH = anchor for 90° hole 6.2x12.2mm
- SS = for welded stud Ø 5 x 14 mm

Application

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry they are finding a wide variety of applications in all industries using sheet metal panels.



Automatic Harness Clips.



IAHC elements can be connected.

Material Data

Material	Polyamide 6 high impact modified (PA6HIR)
Operating Temperature	-40 °C to +105 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Technical Table

Article-No.	Type	Length (L)	Length (L2)	Width (W)	Disc Ø	Bundle Ø max.	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Material	Drawing
151-00366	AHC1AH	25.0	7.0	10.0	20.0	13.0	6.2-6.7	0.5	2.0	PA66HIRHS	
151-00367	AHC2AH	29.5	7.0	10.0	20.0	20.0	6.2-6.7	0.5	2.0	PA66HIRHS	
151-00374	AHC4AH	58.0	7.5	13.5	24.0	36.0	6.2-6.7	0.7	3.0	PA6HIR	
151-00208	AHC2BH	29.0	7.0	10.0	20.0	20.0	6.2x12.2	0.7	3.0	PA66HIRHS	
151-00370	AHC3BHR	40.0	7.0	10.0	24.0	28.0	6.2x12.2	0.7	3.0	PA66HIRHS	
151-00371	AHC3CHR	40.0	7.0	10.0	24.0	28.0	6.2x12.2	0.7	3.0	PA6HIR	
151-00206	AHC2SS	31.5	–	10.0	–	20.0	–	–	–	PA66HIRHS	
151-00373	AHC3SB	41.0	–	10.0	27.0	28.0	–	–	–	PA66HIRHS	
151-00223	IAHC1T	23.0	–	10.0	–	13.0	–	–	–	PA66HIRHS	
151-00199	IAHC2T	30.0	–	10.0	–	20.0	–	–	–	PA66HIRHS	
151-00213	IAHC3T	40.0	–	10.0	–	28.0	–	–	–	PA66HIRHS	
151-00207	IAHC4T	47.0	–	13.5	–	36.0	–	–	–	PA66HIRHS	
151-00197	IAHC3AH	40.0	7.5	13.5	24.0	28.0	6.2-6.7	0.7	2.7	PA66HIRHS	
151-00211	IAHC4AH	46.0	7.0	13.0	24.0	36.0	6.2-6.7	0.5	2.5	PA6HIRHS	
151-00205	IAHC5BH	57.0	7.0	13.5	24.0	45.0	6.2x12.2	0.7	2.7	PA66HIRHS	
151-00381	IAHC3CH	40.0	7.0	13.5	24.0	28.0	6.2x12.2	0.7	3.0	PA66HIRHS	
151-00383	IAHC4CH	47.0	7.0	13.5	24.0	36.0	6.2x12.2	0.7	3.0	PA6HIRHS	

All dimensions in mm. Subject to technical changes.



Fixing Elements for Tubes and Harnesses, for Edges

• EdgeClip-Family

Features and Benefits

This product range is suitable for the low vibration routing of cables and tubes with larger bundling diameters. The clips are fastened simply by pushing them onto an edge. Since they can be fixed in place with just one hand, they are user-friendly. Users can be reassured that the clip is firmly in place when they feel it snap into place. The EC27 can accommodate additional cable bundles during an upstream or downstream mounting process. The integrated spring is also able to secure smaller cable diameters. The EC41 allows two cable looms to run parallel on one edge. All clips are suitable for the subsequent mounting of additional cables.



EdgeClip cable and tube clips are suitable for the low-vibration routing of cables and tubes with larger bundle diameters.

Material Data

Material	Polyamide 6.6 High Impact Modified (PA66HIR)
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Technical Table

Article-No.	Type	Panel Thickness min.	Panel Thickness max.	Bundle Ø max.	Colour	Material	Drawing
151-00161	EC27	1.0	3.0	15.0 - 22.0	Black (BK)	PA66HIRHS	
151-00174	EC39	1.0	3.0	15.9	Black (BK)	PA66HIR	
151-00234	EC41	3.0	6.0	2 x 8.0	Black (BK)	PA66HIR	
151-00645	HCEC3.0TPS	1.0	3.0	5.0	Black (BK)	PA66HIRHS	
151-00610	HCEC3.0SP-C	1.0	3.0	12.0 - 15.0	Black (BK)	PA66HIRHS	

All dimensions in mm. Subject to technical changes.



Fixing Elements for Corrugated Tubing, with Fir Tree

• CTC-Serie

Features and Benefits

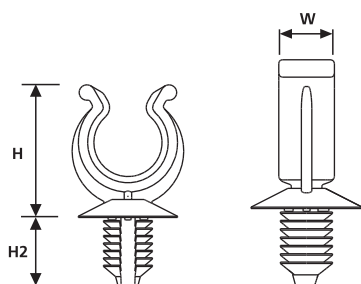
The clamps for corrugated tubing are available in various nominal diameters and have a base in the shape of a fir tree for inserting in a drilled hole. Due to the individual fins, the clamp can be inserted into blind holes with threading. The corrugated tubing is snapped into the clamp where it is securely held. The rib on the inside of the bracket fits into the profile of the tubing and prevents the tubing from slipping.

Application

CTC clamps are used for example in the automobile, harness making, electrical industry and wherever corrugated tubing has to be quickly and firmly fixed.



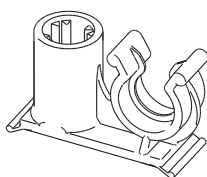
The tubing is clicked into the CTC clamp and is held firmly.



CTC10FT6LG

Material Data

Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Colour	Black (BK)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



There are many clamps with other base shapes available on request. One example would be mounts weld studs.

Technical Table

Article-No.	Type	Width (W)	Height (H)	Height (H2)	Nominal Ø	Disc Ø	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.
151-14314	CTC4.5FT6LG	8.0	16.1	11.1	4.5	16.0	6.5-7.0	0.75	6.0
151-14313	CTC7.5FT6LG	8.0	18.6	11.1	7.5	16.0	6.5-7.0	0.75	6.0
155-31602	CTC7.5FT9	8.0	19.9	12.2	7.5	23.0	8.7-9.0	3.0	5.0
151-14311	CTC10FT6	8.0	21.4	7.5	10.0	16.0	6.5-7.0	0.75	3.0
151-00018	CTC10FT6LG	8.0	21.4	11.1	10.0	16.0	6.5-7.0	0.75	6.0
155-17801	CTC10FT9	8.0	22.7	12.2	10.0	23.0	8.7-9.0	3.0	5.0
151-14312	CTC13FT6	8.0	25.2	7.5	13.0	16.0	6.5-7.0	0.75	3.0
151-00019	CTC13FT6LG	8.0	25.2	11.1	13.0	16.0	6.5-7.0	0.75	6.0
155-25201	CTC22FT9	8.0	37.7	12.2	22.0	23.0	8.7-9.0	3.0	5.0

All dimensions in mm. Subject to technical changes.



Fixing Elements for Corrugated Tubing, with Arrowhead

Features and Benefits

Clamps for corrugated tubing are available for a variety of nominal diameters. The clamp is fixed in place by means of an arrowhead foot which hooks into place at the back of the sheet and ensures a quick and easy mounting. The tube is guided accurately simply by clicking into the holder a rib on the inside of the bracket fits into the profile of the tubing to prevent slipping.

The RCCD model has been designed for use in oval holes measuring 6,2 x 12,2 mm. The OCTCSFT6,5 clamp has been designed for fastening corrugated tubes with nominal diameters between 55 and 80 mm. The CTC-L profile clamp is also fastened to a metal edge.

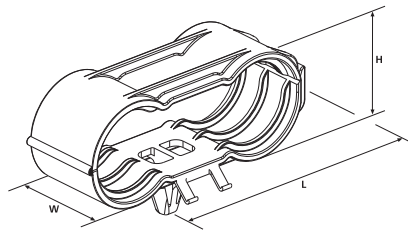
Application

These clamps are used for example in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.



Simple and secure installation of pipes or hoses to panels.

Material Data	
Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



Technical Table

Article-No.	Type	Length (L)	Width (W)	Height (H)	Fixing Hole Ø (FH)	Panel Thickness min.	Panel Thickness max.	Colour	Material	Drawing
150-92300	Retainer Corrugated Cond. D21*	31.0	22,0	30.0	6.2x12.2	0.7	2.5	Black (BK)	PA66HIRHS	
155-04000	Retainer Corrugated Cond. D24*	33.0	22.0	33.0	6.2x12.2	0.7	2.5	Black (BK)	PA66HIRHS	
151-00598	Corrugated Cond D28*	37.0	22.0	37.0	6.75x13.25	0.7	3.0	Black (BK)	PA66HIRHS	
151-00021	OCTCSFT6.5	64.0	20.0	24.5	6.3-6.6	1.0	2.5	Black (BK)	PA66HIRHS	
151-00026	CTCLPROFILE	49.7	12.0	47.0	7.8-8.2	2.3	2.7	Black (BK)	PA66HIRHS	

All dimensions in mm. Subject to technical changes.

* for Oval holes



Fixing Elements for Corrugated Tubing, for Weld Studs

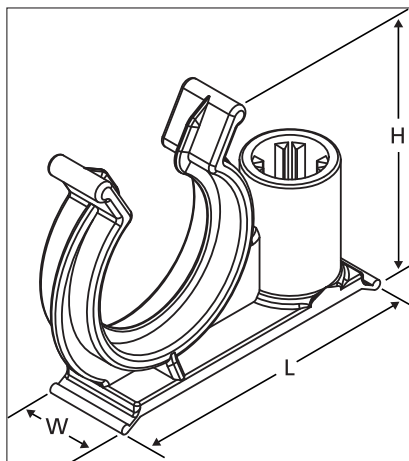
• CTC-Series

Features and Benefits

Clamps for corrugated tubing can be supplied for nominal diameters from 4.5 to 17 mm. They are fixed to M6 weld studs. The "soft-push" mechanism makes mounting quick and easy. The tube simply needs to be clicked into the bracket. A rib on the inside of the bracket fits into the profile of the tubing to prevent slipping. If necessary, the clamp can be unscrewed and removed from the weld stud.

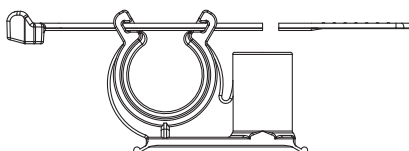
Application

These holders are used for example in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.

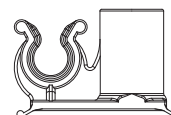


The tubing is clicked into the CTC clamp and is held firmly.

Material Data	
Material	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL94 HB



CTC17SBS6



CTC4,5SBS6

Technical Table

Article-No.	Type	Length (L)	Width (W)	Height (H)	Nominal Ø	Colour	Material	Drawing
151-00700	CTC4.5SBS6	28,6	11.0	18.7	4.5	Black (BK)	PA66HIRHS	
151-00701	CTC7.5SBS6	31,8	11.0	19.4	7.5	Black (BK)	PA66HIRHS	
151-00702	CTC10SBS6	35.3	11.0	22.2	10.0	Black (BK)	PA66HIRHS	
151-00703	CTC13SBS6	37.0	11.0	26.5	13.0	Black (BK)	PA66HIRHS	
151-00010	CTC17SBS6	44.6	11.0	33.2	17.0	Black (BK)	PA66HIRHS	

All dimensions in mm. Subject to technical changes.



Fixing Base

• LOK-Series

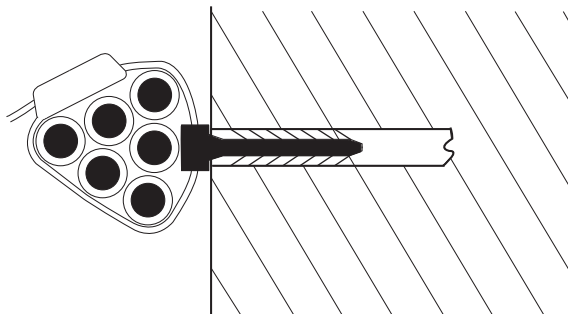
Features and Benefits

The LOK01 - LOK05 were primarily designed to be used with the RPE and PE series of cable ties but will function just as well with any cable ties up to 9mm wide.

Suitable for use in a wide range of materials including, concrete, brick, block or wood.

Installed by knocking into a 7mm or 8mm diameter hole (depending on the material).

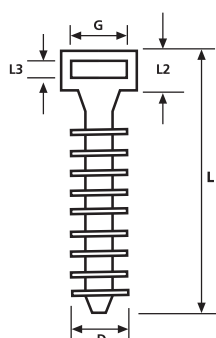
The LOK01B is designed for soft brickwork and 6 mm holes. Because of its elongated head, the bundles can be located at a distance from the brickwork with the LOK05.



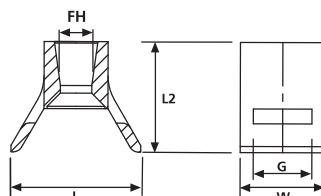
Application

The LOK mounts, in conjunction with a cable tie can be used either indoors or outdoors for a diverse range of applications from holding climbing plants, to securing cables running between buildings.

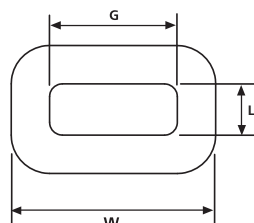
The LOK Fixing Bases can ideally be combined with the PE- / RPE- / LPH-cable ties, see pages 95 and 96.



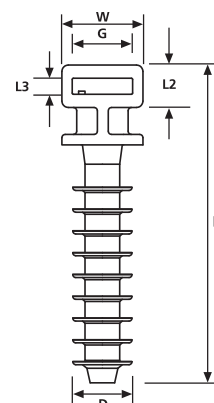
LOK01, LOK01B, LOK01S
Fixing Base



LOK02 Fixing Base



LOK04 Fixing Base



LOK05 Fixing Base

Material Data

Material	Polyamide 6 high impact modified (PA6HIR)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 HB

Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Length (L2)	Length (L3)	Width (W)	Ø D	Strap Width max. (G)	Fixing Hole Ø (FH)	Colour	Material
151-80110	LOK01	44.0	6.5	2.5	12.0	9.2	9.0	7.0-8.0	Black (BK)	PA6HIR
151-80210	LOK02	21.0	18.0	—	14.0	—	9.0	4.9-5.1	Black (BK)	PA6HIR
151-80500	LOK01B	30.0	6.5	2.5	12.0	7.2	9.0	6.0	Black (BK)	PA6HIR
151-80600	LOK01S	34.0	6.5	2.5	12.0	9.2	9.0	7.0-8.0	Black (BK)	PA6HIR
151-80700	LOK05	49.0	12.5	2.5	12.0	9.2	9.0	7.0-8.0	Black (BK)	PA6HIR
151-80400	LOK04	—	—	4.0	16.0	—	9.0	—	Black (BK)	PA66

All dimensions in mm. Subject to technical changes.



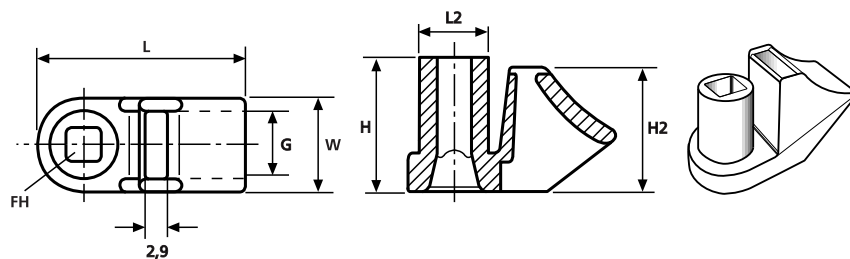
Fixing Elements for Weld Studs

Features and Benefits

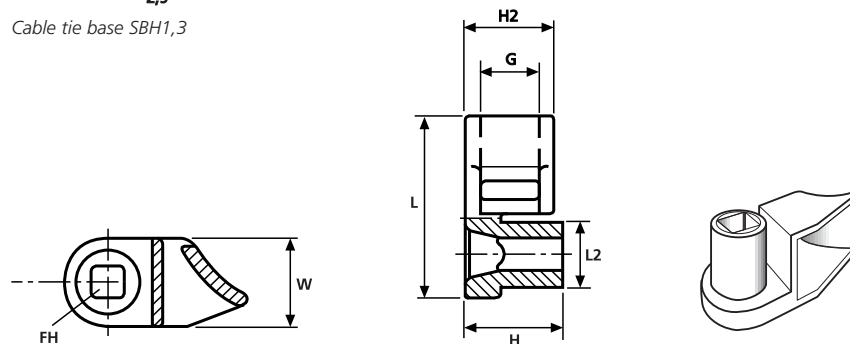
When used with a cable tie and simply hammered onto the stud the SBH type offer a simple and quick method of fixing. The SBH1 and 3 as well as the CTMS5 allow the cables to run across the panel whilst the SBH2 allows the cable to run at 90 degrees to the panel.

Application

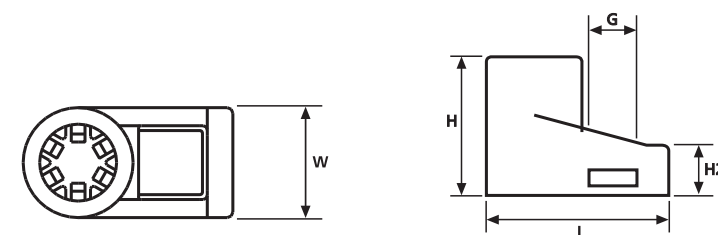
Many industries (but specifically the automotive market) are using 'weld studs' as the standard method of attaching components. Simply hammered onto the stud, these parts provide ideal fixing bases for attaching cables, pipes or hoses. The use of weld studs avoids the problems with 'holes' (ingress of moisture, corrosion etc).



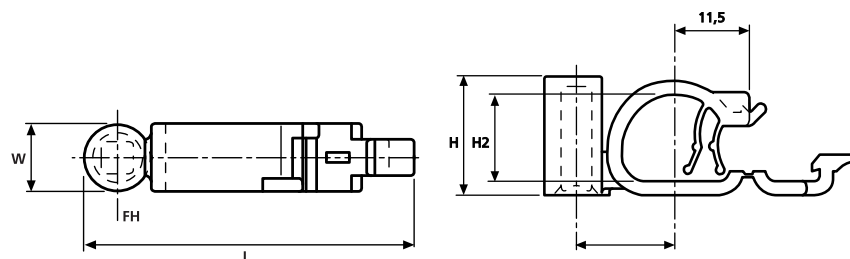
Cable tie base SBH1,3



Cable tie base SBH2



Cable tie base CTMS5



Cable tie base SBF2

Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Length (L2)	Width (W)	Height (H)	Height (H2)	Stud Ø	Bundle Ø max.	Strap Width max. (G)	Material	Colour
151-26150	SBH1	26.8	9.0	12.5	13.9	15.9	5.0	—	8.5	PA66	Black (BK)
150-18900	SBH3	26.8	9.0	12.5	18.0	15.9	5.0	—	8.5	PA66	Black (BK)
151-26250	SBH2	26.8	9.0	12.5	14.0	12.5	5.0	—	8.5	PA66	Black (BK)
151-03301	CTMS5	19.0	—	10.0	14.5	5.3	5.0	—	5.0	PA66	Black (BK)
150-47700	SBF2	47.7	—	10.0	18.2	13.5	5.0	13.5	—	PA66	Black (BK)

All dimensions in mm. Subject to technical changes.



Plastic Rivets

• TY

Features and Benefits

Moulded in one piece and simply applied by pushing the pin into the body of the rivet. Two types are available the TY3PI, TY8PI, pins are inserted by means of a rivet placement tool whilst the TY8P2 types have a 'mushroom' head which allows the pin to be simply hammered in.

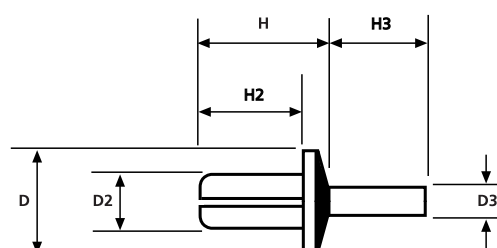
Application

These simple to use plastic rivets are ideal for improving productivity in the working environment, saving time and money over more conventional jointing methods. Ideal for joining panels, or components to panels in a wide range of industries from automotive to panel building.

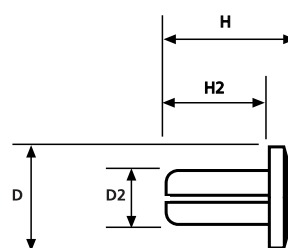


Plastic Rivets TY8P1.

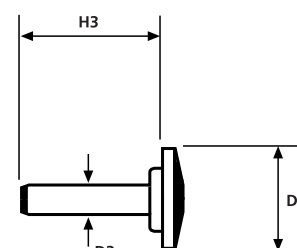
Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Plastic Rivets TY3P1/8P1



Plastic Rivets TY8P2



Technical Table

Article-No.	Type	Height (H)	Height (H2)	Height (H3)	Ø D	Ø D2	Ø D3	Ø D4	Colour	Material
241-11310	TY3P1	7.5	6.0	5.3	6.0	3.0	1.7	—	Black (BK)	PA66
241-11319	TY3P1	7.5	6.0	5.3	6.0	3.0	1.7	—	Natural (NA)	PA66
241-11810	TY8P1	10.0	8.0	7.5	8.0	4.0	2.6	—	Black (BK)	PA66
241-11819	TY8P1	10.0	8.0	7.5	8.0	4.0	2.6	—	Natural (NA)	PA66
241-11820	TY8P2*	10.0	8.0	11.5	8.0	4.0	2.6	8.0	Black (BK)	PA66
241-11829	TY8P2*	10.0	8.0	11.5	8.0	4.0	2.6	8.0	Natural (NA)	PA66

All dimensions in mm. Subject to technical changes.

*TY8P2 consist of two unattached parts.



Aluminium P-Clips

• ALU-P-Clip with/without Chloroprene Insert

Features and Benefits

Offering a simple, yet secure fixing, this range of clips can be used as a simple pipe or cable fixing (for example within caravan construction), or with the addition of the Chloroprene insert can be used to secure parts subject to vibration (for example to retain capacitors on a PCB).

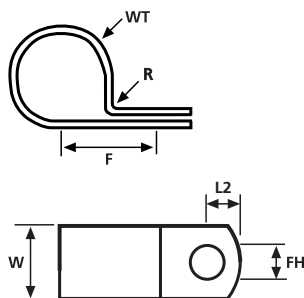
Ideal for use in high temperatures or for applications that require the strength of a metal component.

Application

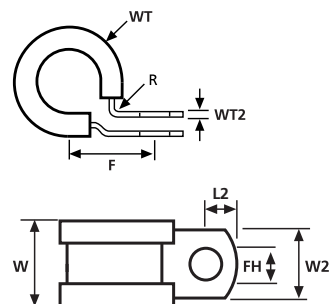
Manufactured from a high quality aluminium these P-Clips provide flexibility and yet give a permanent fixing in the most arduous environments. The addition of a Chloroprene insert provides the cable or pipe bundle with a high degree of protection against vibration, reduces noise and also offers electrical isolation.



P-Clips manufactured in polyamide, aluminium, or aluminium with a chloroprene insert.



Aluminium P Clips



Aluminium P Clips with a Chloroprene insert

Material Data	
Material	Aluminium-alloy (AL)
Colour	Natural (NA)
Operating Temperature	-40 °C to +180 °C

Material Data	
Material	Aluminium-alloy, Chloroprene (CR)
Colour	Natural (NA), Black (BK)
Operating Temperature	-20 °C to +80 °C



Aluminium P-Clips

• ALU-P-Clip with/without Chloroprene Insert

Technical Table

Article-No.	Type	Width (W)	Width (W2)	Wall (WT)	Wall (WT2)	Fixing Hole Ø (FH)	Bundle Ø max.	Fixing Hole Centres (F)	Fixing Hole Centres (F2)	Radius (R)	Material	Colour
211-10040	ALU4	12.7	–	0.8	–	5.2	6.4	11.6	5.5	1.6	AL	Natural (NA)
211-10050	ALU5	12.7	–	0.8	–	5.2	8.0	12.6	5.5	1.6	AL	Natural (NA)
211-10060	ALU6	12.7	–	0.8	–	5.2	9.5	13.4	5.5	1.6	AL	Natural (NA)
211-10070	ALU7	12.7	–	0.8	–	5.2	11.1	14.2	5.5	1.6	AL	Natural (NA)
211-10080	ALU8	12.7	–	0.8	–	5.2	12.7	15.0	5.5	1.6	AL	Natural (NA)
211-10100	ALU10	12.7	–	0.8	–	5.2	15.9	16.6	5.5	1.6	AL	Natural (NA)
211-10110	ALU11	12.7	–	1.3	–	5.2	17.5	19.1	5.5	2.8	AL	Natural (NA)
211-10120	ALU12	12.7	–	1.3	–	5.2	19.1	19.9	5.5	2.8	AL	Natural (NA)
211-10130	ALU13	12.7	–	1.3	–	5.2	20.6	20.7	5.5	2.8	AL	Natural (NA)
With chloroprene profile												
211-15040	ALU4C	16.3	12.7	3.7	0.8	5.2	3.2	11.6	5.5	1.6	AL, CR	Black (BK)
211-15050	ALU5C	16.3	12.7	3.7	0.8	5.2	4.8	12.6	5.5	1.6	AL, CR	Black (BK)
211-15060	ALU6C	16.3	12.7	3.7	0.8	5.2	6.4	13.4	5.5	1.6	AL, CR	Black (BK)
211-15070	ALU7C	16.3	12.7	3.7	0.8	5.2	8.0	14.2	5.5	1.6	AL, CR	Black (BK)
211-15080	ALU8C	16.3	12.7	3.7	0.8	5.2	9.5	15.0	5.5	1.6	AL, CR	Black (BK)
211-15090	ALU9C	16.3	12.7	3.7	0.8	5.2	11.1	15.8	5.5	1.6	AL, CR	Black (BK)
211-15100	ALU10C	16.3	12.7	3.7	0.8	5.2	12.7	16.6	5.5	1.6	AL, CR	Black (BK)
211-15110	ALU11C	16.3	12.7	4.5	1.3	5.2	14.3	19.1	5.5	2.8	AL, CR	Black (BK)
211-15120	ALU12C	16.3	12.7	4.5	1.3	5.2	15.9	19.9	5.5	2.8	AL, CR	Black (BK)
211-15130	ALU13C	16.3	12.7	4.5	1.3	5.2	17.5	20.7	5.5	2.8	AL, CR	Black (BK)
211-15140	ALU14C	16.3	12.7	4.5	1.3	5.2	19.1	21.5	5.5	2.8	AL, CR	Black (BK)
211-15150	ALU15C	16.3	12.7	4.5	1.3	5.2	20.6	22.3	5.5	2.8	AL, CR	Black (BK)
211-15160	ALU16C	16.3	12.7	4.5	1.3	5.2	22.2	23.1	5.5	2.8	AL, CR	Black (BK)
211-15170	ALU17C	16.3	12.7	4.5	1.3	5.2	23.8	23.9	5.5	2.8	AL, CR	Black (BK)
211-15180	ALU18C	16.3	12.7	4.5	1.3	5.2	25.4	24.6	5.5	2.8	AL, CR	Black (BK)
211-15190	ALU19C	16.3	12.7	4.5	1.3	5.2	27.0	25.5	5.5	2.8	AL, CR	Black (BK)
211-15200	ALU20C	16.3	12.7	4.5	1.6	5.2	28.6	27.0	5.5	3.2	AL, CR	Black (BK)
211-15220	ALU22C	16.3	12.7	4.5	1.6	5.2	31.8	28.6	5.5	3.2	AL, CR	Black (BK)
211-15230	ALU23C	16.3	12.7	4.5	1.6	5.2	33.3	29.4	5.5	3.2	AL, CR	Black (BK)
211-15240	ALU24C	16.3	12.7	4.5	1.6	5.2	34.9	30.2	5.5	3.2	AL, CR	Black (BK)
211-15250	ALU25C	16.3	12.7	4.5	1.6	5.2	36.5	30.8	5.5	3.2	AL, CR	Black (BK)
211-15260	ALU26C	16.3	12.7	4.5	1.6	5.2	38.1	31.7	5.5	3.2	AL, CR	Black (BK)
211-15280	ALU28C	16.3	12.7	4.5	1.6	5.2	41.3	33.3	5.5	3.2	AL, CR	Black (BK)
211-15290	ALU29C	16.3	12.7	4.5	1.6	5.2	42.9	34.1	5.5	3.2	AL, CR	Black (BK)
211-15300	ALU30C	16.3	12.7	4.5	1.6	5.2	44.5	34.9	5.5	3.2	AL, CR	Black (BK)
211-15340	ALU34C	16.3	12.7	4.5	1.6	5.2	50.8	38.1	5.5	3.2	AL, CR	Black (BK)

All dimensions in mm. Subject to technical changes.



Fixing Clips Plated Steel and PVC Liner

• AFCS-Serie



AFCS Fixing Clip, Stainless Steel and PVC Liner.

Material Data	
Material	Galvanised Steel (GS), Polyvinylchloride (PVC)
Colour	Metal (ML), Black (BK)
Operating Temperature	-20 °C to +105 °C



Technical Table

Article-No.	Type	Fixing Hole Ø (FH)	Width (W)	Width (W2)	Bundle Ø max.	Colour
166-50600	AFCS10	5.0	16.0	12.7	11.0	Metal (ML), Black (BK)
166-50601	AFCS12	5.0	16.0	12.7	14.0	Metal (ML), Black (BK)
166-50602	AFCS16	5.0	16.0	12.7	17.0	Metal (ML), Black (BK)
166-50603	AFCS20	5.0	16.0	12.7	21.0	Metal (ML), Black (BK)
166-50604	AFCS25	5.0	16.0	12.7	25.0	Metal (ML), Black (BK)
166-50605	AFCS32	5.0	16.0	12.7	34.0	Metal (ML), Black (BK)
166-50606	AFCS40	14.2 x 17.5	29.0	25.4	44.0	Metal (ML), Black (BK)
166-50607	AFCS50	14.2 x 17.5	29.0	25.4	54.0	Metal (ML), Black (BK)
166-50608	AFCS63	14.2 x 17.5	29.0	25.4	70.0	Metal (ML), Black (BK)
166-50609	AFCS75	14.2 x 17.5	29.0	25.4	76.2	Metal (ML), Black (BK)

All dimensions in mm. Subject to technical changes.



Fixing Clips Stainless Steel

• AFCSS-Serie



AFCSS Fixing Clip, Stainless Steel.

Material Data	
Material	Stainless Steel (SS316)
Colour	Metal (ML)
Operating Temperature	-100 °C to +400 °C



Technical Table

Article-No.	Type	Fixing Hole Ø (FH)	Width (W)	Bundle Ø max.	Colour
166-50610	AFCSS10	5.0	11.0	11.0	Metal (ML)
166-50611	AFCSS12	5.0	11.0	14.0	Metal (ML)
166-50612	AFCSS16	5.0	11.0	17.0	Metal (ML)
166-50613	AFCSS20	5.0	11.0	21.0	Metal (ML)
166-50614	AFCSS25	5.0	11.0	25.0	Metal (ML)
166-50615	AFCSS32	5.0	11.0	34.0	Metal (ML)
166-50616	AFCSS40	6.9 x 8.8	12.7	44.0	Metal (ML)
166-50617	AFCSS50	6.9 x 8.8	12.7	54.0	Metal (ML)

All dimensions in mm. Subject to technical changes.





Plastic P-Clips

• HP-Series

Features and Benefits

Manufactured from Polyamide these P-Clips offer good temperature resistance as well as offering high strength. A feature of the NX clips is their versatility to accept cables of differing sizes through the use of a range of fixing holes - this feature enables users to minimise stock holding of a large range of clips.

Application

For permanent or semi-permanent cable fixings, this range of P-Clips can be used in a variety of industries. Their light weight makes them particularly suitable for use in the aerospace industry where minimising weight, but retaining a strong fixing is vitally important.

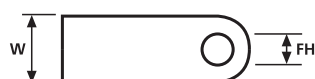
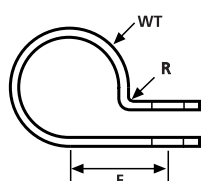


P-Clip HP.

Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Material Data	
Material	Polyamide 6.6 Heat Stabilised (PA66HS)
Operating Temperature	-40 °C to +105 °C Continuous, (+145 °C for 500 h)
Flammability	UL94 V2



P-Clip H1P-H18P



Plastic P-Clips

• HP-Series

Technical Table

Article-No.	Type	Width (W)	Wall (WT)	Fixing Hole Ø (FH)	Bundle Ø max.	Fixing Hole Centres (F)	Radius (R)	Material	Colour
211-60019	H1P	10.0	0.8	4.2	3.2	8.5	0.5	PA66	Natural (NA)
211-60000	H1P	10.0	0.8	4.2	3.2	8.5	0.5	PA66HS	Black (BK)
211-60029	H2P	10.0	1.0	4.2	5.0	9.5	1.0	PA66	Natural (NA)
211-60001	H2P	10.0	1.0	4.2	5.0	9.5	1.0	PA66HS	Black (BK)
211-60039	H3P	10.0	1.0	4.2	6.5	10.0	1.0	PA66	Natural (NA)
211-60002	H3P	10.0	1.0	4.2	6.5	10.0	1.0	PA66HS	Black (BK)
211-60049	H4P	10.0	1.2	4.2	8.0	10.0	1.0	PA66	Natural (NA)
211-60003	H4P	10.0	1.2	4.2	8.0	10.0	1.0	PA66HS	Black (BK)
211-60059	H5P	10.0	1.2	4.2	9.5	11.0	1.0	PA66	Natural (NA)
211-60004	H5P	10.0	1.2	4.2	9.5	11.0	1.0	PA66HS	Black (BK)
211-60069	H6P	10.0	1.2	4.2	11.0	13.0	1.0	PA66	Natural (NA)
211-60005	H6P	10.0	1.2	4.2	11.0	13.0	1.0	PA66HS	Black (BK)
211-60079	H7P	10.0	1.2	4.2	12.5	14.0	1.5	PA66	Natural (NA)
211-60006	H7P	10.0	1.2	4.2	12.5	14.0	1.5	PA66HS	Black (BK)
211-60089	H8P	10.0	1.5	4.2	14.0	15.0	1.5	PA66	Natural (NA)
211-60007	H8P	10.0	1.5	4.2	14.0	15.0	1.5	PA66HS	Black (BK)
211-60099	H9P	10.0	1.5	4.2	16.0	16.0	1.5	PA66	Natural (NA)
211-60008	H9P	10.0	1.5	4.2	16.0	16.0	1.5	PA66HS	Black (BK)
211-60109	H10P	10.0	1.5	4.2	17.5	17.0	1.5	PA66	Natural (NA)
211-60009	H10P	10.0	1.5	4.2	17.5	17.0	1.5	PA66HS	Black (BK)
211-60119	H11P	10.0	1.5	4.2	19.0	18.0	2.0	PA66	Natural (NA)
211-60120	H11P	10.0	1.5	4.2	19.0	18.0	2.0	PA66HS	Black (BK)
211-60129	H12P	10.0	1.5	4.2	20.5	19.0	2.0	PA66	Natural (NA)
211-60139	H13P	12.0	1.5	5.2	22.0	20.5	2.0	PA66	Natural (NA)
211-60149	H14P	12.0	1.5	5.2	24.0	21.5	2.0	PA66	Natural (NA)
211-60159	H15P	12.0	1.5	5.2	25.5	23.0	2.5	PA66	Natural (NA)
211-60169	H16P	12.0	1.5	5.2	28.5	24.0	2.5	PA66	Natural (NA)
211-60179	H17P	12.0	1.5	5.2	31.5	26.0	2.5	PA66	Natural (NA)
211-60189	H18P	12.0	1.5	5.2	35.0	27.5	2.5	PA66	Natural (NA)

All dimensions in mm. Subject to technical changes.



Snapper Hose Clips for Tubes and Harnesses

• SNP-Series

Features and Benefits

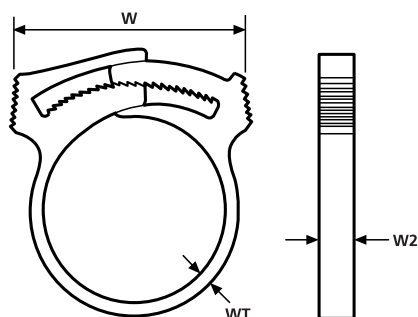
Up to 5 times faster to install than conventional types these releasable and reusable plastic hose clips can be applied with the hose in place, will not rust or corrode and can be opened by a simple lateral movement of the 'head'. Available in both Acetal (POM) and Glass Filled Nylon (PA) to meet high operating temperature requirements.

Application

Replacing metal hose clips the SNP range can be used in industries as diverse as agriculture to medical, to domestic appliances. Suitable for applications with high vibration they can be installed by hand, or with an application tool.



SNP - Snapper Hose Clips range.



SNP - Snapper Hose Clips range

Material Data	
Material	Polyacetal (POM)
Operating Temperature	-40 °C to +85 °C
Flammability	UL94 HB



Application Tool	Registration Numbers
ASNP2-22	1
ASNP24-70	2
MSNP1-70	3

For detailed information on Application Tools please refer to page 578.

Material Data	
Material	Polyamide 6.6 Glassfibre reinforced (PA66GF13%)
Operating Temperature	-30 °C to +105 °C
Flammability	UL94 HB





Snapper Hose Clips for Tubes and Harnesses

• SNP-Series

SNP Snapper are also available on request in material PA66HS and PA46.

Technical Table

Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Width (W) min.	Width (W) max.	Width (W2)	Wall (WT)	Material	Colour	Application Tool
192-10010	SNP1	6.0	6.8	8.4	11.7	3.8	1.0	PA66GF13	Black (BK)	3
190-00029	SNP1.25	7.1	7.7	10.4	12.4	3.8	1.1	PA66GF13	Black (BK)	3
193-00150	SNP1.5	7.8	9.2	13.0	17.0	3.7	1.4	PA66GF15	Black (BK)	3
192-10020	SNP2	9.3	10.5	12.2	17.6	5.9	1.7	PA66GF13	Black (BK)	1, 3
192-10040	SNP4	10.4	11.7	13.3	19.2	5.8	1.7	PA66GF13	Black (BK)	1, 3
192-10060	SNP6	11.7	13.3	14.7	21.6	5.9	1.7	PA66GF13	Black (BK)	1, 3
192-10070	SNP7	11.4	13.7	18.4	28.5	5.9	1.7	PA66GF13	Black (BK)	1, 3
192-10080	SNP8	13.1	15.0	16.7	24.9	5.7	1.7	PA66GF13	Black (BK)	1, 3
192-10100	SNP10	14.5	16.6	17.6	26.9	5.9	1.8	PA66GF13	Black (BK)	1, 3
190-00254	SNP12A	15.9	18.2	20.7	29.8	5.9	1.8	PA66GF13	Black (BK)	1, 3
190-00300	SNP14A	18.5	21.0	20.9	30.1	5.9	1.8	PA66GF13	Black (BK)	1, 3
192-10160	SNP16	19.1	21.7	19.9	30.8	5.8	1.5	PA66GF13	Black (BK)	1, 3
190-00258	SNP18A	20.0	23.1	24.3	36.0	6.1	1.8	PA66GF13	Black (BK)	1, 3
190-00090	SNP19	22.3	25.3	23.0	36.2	5.9	1.8	PA66GF13	Black (BK)	1, 3
192-10220	SNP22	23.7	27.4	23.9	37.7	6.0	1.8	PA66GF13	Black (BK)	1, 3
192-10240	SNP24	25.8	29.2	25.5	39.4	7.4	1.7	PA66GF13	Black (BK)	2, 3
190-00127	SNP28	28.8	33.2	25.9	41.8	7.3	1.7	PA66GF13	Black (BK)	2, 3
192-10320	SNP32	31.2	35.8	27.3	44.4	7.3	1.8	PA66GF13	Black (BK)	2, 3
192-10360	SNP36	37.8	44.0	32.4	53.8	7.3	1.7	PA66GF13	Black (BK)	2, 3
192-10380	SNP38	41.0	48.1	35.6	57.5	7.3	1.8	PA66GF13	Black (BK)	2, 3
191-00005	SNP42N	44.5	52.2	35.1	59.1	9.1	1.7	PA66GF13	Black (BK)	2, 3
192-10500	SNP50	52.2	58.6	36.5	60.4	7.3	1.7	PA66GF13	Black (BK)	2, 3
190-00022	SNP1	6.0	6.5	8.1	11.5	3.8	1.0	POM	Natural (NA)	3
191-10029	SNP2(E)	8.7	10.0	17.0	21.0	6.0	1.5	POM	Natural (NA)	1, 3
191-10039	SNP3(E)	10.0	11.4	19.0	25.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10049	SNP4(E)	10.8	12.3	19.0	23.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10069	SNP6(E)	12.0	13.7	19.0	24.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10089	SNP8(E)	13.7	15.3	19.0	24.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10109	SNP10(E)	15.0	16.8	19.0	24.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10129	SNP12(E)	16.8	18.4	19.0	24.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10149	SNP14(E)	18.1	19.9	19.0	24.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10169	SNP16(E)	19.9	21.7	19.0	24.0	6.0	1.9	POM	Natural (NA)	1, 3
191-10189	SNP18(E)	21.4	23.0	16.0	22.0	6.0	1.9	POM	Natural (NA)	1, 3
191-10209	SNP20(E)	22.7	24.7	20.0	26.0	6.0	1.8	POM	Natural (NA)	1, 3
191-10229	SNP22(E)	25.3	27.3	20.0	26.0	6.0	1.6	POM	Natural (NA)	1, 3
191-10249	SNP24(E)	26.5	28.6	26.5	39.4	7.4	2.5	POM	Natural (NA)	2, 3
191-10329	SNP32(E)	30.3	33.1	27.0	34.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10349	SNP34(E)	32.5	35.1	27.0	34.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10369	SNP36(E)	34.8	37.1	27.0	34.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10389	SNP38(E)	36.7	38.9	27.0	34.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10429	SNP42(E)	41.0	44.2	32.0	45.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10469	SNP46(E)	44.6	47.6	32.0	45.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10509	SNP50(E)	48.8	52.0	32.0	45.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10549	SNP54(E)	52.3	55.7	32.0	45.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10589	SNP58(E)	56.7	59.2	31.0	39.0	7.5	2.0	POM	Natural (NA)	2, 3
191-10629	SNP62(E)	61.1	63.5	31.0	39.0	7.5	2.0	POM	Natural (NA)	2, 3

All dimensions in mm. Subject to technical changes.



Clips with elastically loop

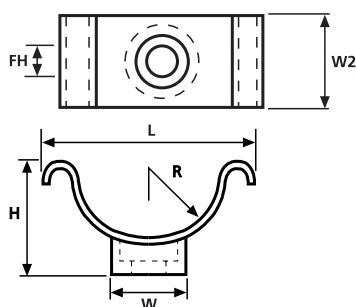
• Cradle Clip

Features and Benefits

A simple, versatile method of bundling cables - the clamp consists of two parts, the 'clip base' for mounting onto a panel, and the elastically 'loop'. Suitable for pre-assembly, prototyping or applications requiring the addition or removal of cables. The loop is simply stretched over the clip offering a simple and quick method of containing cables.

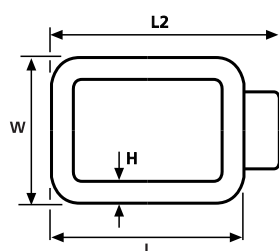


Cradle Clip.



Cradle Clip C1 - 3

Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Retaining Ring R1 - 3

Material Data	
Material	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-35 °C to +85 °C
Flammability	UL94 V2

Technical Table

Article-No.	Type	Length (L)	Length (L2)	Width (W)	Width (W2)	Height (H)	Radius (R)	Fixing Hole Ø (FH)	Material	Colour
201-10010	C1	25.0	—	12.7	15.5	14.0	6.3	4.8	PA66	Black (BK)
201-10020	C2	35.0	—	12.7	15.5	18.0	11.0	4.8	PA66	Black (BK)
201-10030	C3	48.0	—	12.7	15.5	25.0	17.5	4.8	PA66	Black (BK)
201-20010	R1	16.0	22.0	23.8	—	3.2	—	—	PVC	Black (BK)
201-20020	R2	22.0	29.0	23.8	—	3.2	—	—	PVC	Black (BK)
201-20030	R3	33.0	39.0	23.8	—	3.2	—	—	PVC	Black (BK)

All dimensions in mm. Subject to technical changes.



Strain Relief Clips

• Klam-Klip (KK)

Features and Benefits

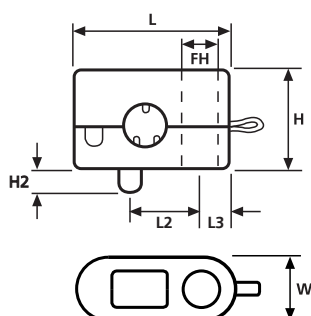
Klam-Klips guide and secure leads with a simple one screw fixing. The two halves of the clip are linked to ensure that parts are not lost during any re-wiring and an anti-rotation pin ensures that the leads do not become twisted during installation.



Klam-Klip KK1-4.



Klam-Klip KK1-4.



Klam-Klip Cable Restraints

Material Data

Material	Polyamide 6 high impact modified (PA6HIR)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Height (H)	Height (H2)	Fixing Hole Ø (FH)	Bundle Ø min.	Bundle Ø max.	Fixing Hole Centres (F2)	Fixing Hole Centres (F3)	Material	Colour
234-10100	KK1	22.0	8.8	14.0	3.5	5.0	4.5	5.7	10.0	4.5	PA6HIR	Black (BK)
234-10200	KK2	22.0	8.8	14.0	3.5	5.0	5.5	6.7	10.0	4.5	PA6HIR	Black (BK)
234-10300	KK3	22.0	8.8	14.0	3.5	5.0	6.5	7.7	10.0	4.5	PA6HIR	Black (BK)
234-10400	KK4	22.0	8.8	14.0	3.5	5.0	7.5	8.5	10.0	4.5	PA6HIR	Black (BK)

All dimensions in mm. Subject to technical changes.



Maintenance Kit

• BMS-100

A practical 195 piece kit containing snapper hose clips, aluminium and plastic P-Clips, in addition to a variety of cable tie mounting bases and self adhesive clips. Ideal for use by electrical installers, maintenance engineers or laboratories.



195 Piece fixings kit, BMS 100.

Technical Table				
Article-No.	Type	Content	Quantity	Description
151-00000	BMS-100	201-10010	8	Cradle Clip C1
		201-20020	8	Retaining Ring R2
		151-13021	5	Self Adhesive Clip RA13
		151-28349	10	Cable Tie Mount MB3A
		151-28459	7	Cable Tie Mount MB4CA
		151-75159	15	Wire Push in Clip WPC15
		152-11209	10	Rivet Mount TY5K2
		151-24660	20	Cable Tie Mount KR6G5
		234-10200	10	Klam-Klip Cable Restraint KK2
		151-12819	10	Self Adhesive Clip TY8H1S
		151-26860	10	Cable Tie Mount CL8
		191-10100	10	Snapper Hose Clip SNP10
		211-15080	5	Aluminium Clip ALU8C
		151-11813	10	Cable Tie Mount TY8G1S
		211-60007	7	Plastic Clip H8P
		151-31209	40	Cable Tie Mount CTAM2
		151-27019	10	Cable Tie Mount LKC

All dimensions in mm. Subject to technical changes.