Fixing elements for tubes and harnesses with automatic locking feature

with arrowhead, for round holes

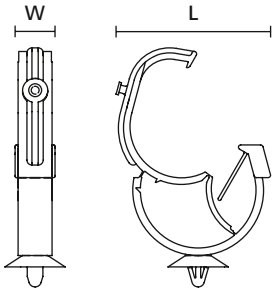
Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

Automatic Harness Clip open.

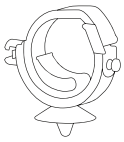
Automatic Harness Clip closed.

Features and benefits

- Push and click closure for fixing of wires
- Clip is clicked into a specific hole
- AHC( )SS und AHC( )SB can be pushed onto a 5.0 mm stud



AHC( )AH *AHC( )AH*

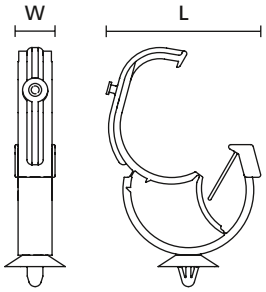
TYPE	Drawing	Bundle Ø max.	Width (W)	Length (L)	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
IAHC3AH		28.0	13.5	40.0	24.0	6.2 - 6.7	0.7 - 2.7	PA66HIRHS	Black (BK)	151-00378
IAHC4AH		36.0	13.5	53.0	24.0	6.2 - 6.7	0.7 - 3.0	PA66HIRHS	Black (BK)	151-00382
AHC2AH		-	10.0	29.0	20.0	6.2 - 6.7	0.7 - 3.0	PA66HIRHS	Black (BK)	151-02881
AHC1AH		13.0	10.0	24.0	20.0	6.2 - 6.7	0.7 - 3.0	PA66HIRHS	Black (BK)	151-02874
AHC4AH		41.5	13.5	57.6	24.0	6.2 - 6.7	0.8 - 2.7	PA66HIRHS	Black (BK)	151-00374

All dimensions in mm. Subject to technical changes.

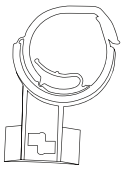
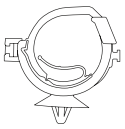
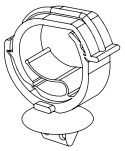
Date of issue: December 2021

Fixing elements for tubes and harnesses with automatic locking feature

with arrowhead, for oval holes



AHC( )AH *AHC( )AH*

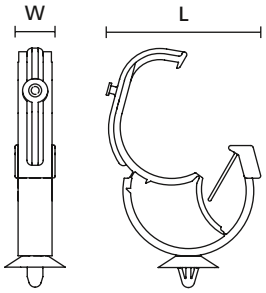
TYPE	Drawing	Bundle Ø max.	Width (W)	Length (L)	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
IAHC5BH		45.0	13.5	64.0	24.0	6.2 x 12.2	0.5 - 2.5	PA66HIRHS	Black (BK)	151-00384
AHC3DH		28.0	10.0	43.7	-	6.2 x 12.2	0.5 - 2.0	PA66HIRHS	Black (BK)	151-00181
IAHC3CH		28.0	10.0	50.0	24.0	6.2 x 12.2	0.7 - 2.0	PA66HIRHS	Black (BK)	151-00381
IAHC4CH		36.0	13.5	55.0	24.0	6.2 x 12.2	0.7 - 2.0	PA6HIRHS	Black (BK)	151-00383
AHC2BH		20.0	10.0	32.5	20.0	6.2 x 12.2	0.5 - 3.0	PA66HIRHS	Black (BK)	151-02882
AHC3BHR		28.0	10.0	40.0	24.0	6.2 x 12.2	0.7 - 3.0	PA66HIRHS	Black (BK)	151-00370
AHC3CHR		28.0	10.0	40.0	24.0	6.2 x 12.2	1.0 - 2.7	PA6HIR	Black (BK)	151-00371
AHC45BHG2		36.0	14.0	50.0	22.0	6.2 x 12.2	1.0 - 3.0	PA46	Grey (GY)	151-01377

All dimensions in mm. Subject to technical changes.

Date of issue: December 2021

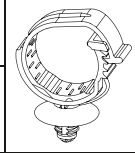
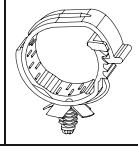
Fixing elements for tubes and harnesses with automatic locking feature

with fir tree for round holes



AHC( )AH *AHC( )AH*

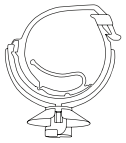
Material specification please see page 26.

TYPE	Drawing	Bundle Ø max.	Width (W)	Length (L)	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
AHC25FT6LG		22.0	10.0	34.5	20.0	6.4 - 7.0	0.7 - 4.0	PA66HIRHS	Black (BK)	151-01198
AHC223FT6LG		23.0	10.0	35.0	20.0	6.4 - 7.0	0.7 - 4.0	PA66HIRHS	Black (BK)	151-01078
AHC336FT6LG		36.0	14.0	50.0	22.0	6.4 - 7.0	0.7 - 4.0	PA66HIRHS	Black (BK)	151-01376

All dimensions in mm. Subject to technical changes.

Fixing elements for tubes and harnesses with automatic locking feature

For aluminium frames with T-slot

TYPE	Drawing	Bundle Ø max.	Width (W)	Length (L)	Disc Ø	Hole Ø (FH)	Panel Thickness	Material	Colour	Article-No.
AHC3EH2		28.0	11.0	44.2	24.0	6.2 x 12.2	1.8 - 4.8	PA66HIRHS	Black (BK)	151-00928
IAHC3EH		28.0	10.0	50.0	24.0	6.2 x 12.2	1.5 - 3.1	PA66HIRHS	Black (BK)	151-00489
IAHC5FH		45.0	13.5	61.5	24.0	6.2 x 12.2	1.5 - 3.0	PA66HIRHS	Black (BK)	151-00787

All dimensions in mm. Subject to technical changes.

Date of issue: December 2021

Material Specification Overview

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Aluminium alloy	AL	-40 °C to +180 °C	Natural (NA)		• Corrosion resistant • Antimagnetic	RoHS
Chloroprene Rubber	CR	-20 °C to +80 °C	Black (BK)		• Weather resistant • High yield strength	RoHS
Ethylene Tetrafluoroethylene (Tefzel®)	E/TFE	-80 °C to +170 °C	Blue (BU)	UL 94 V0	• Resistance to radioactivity • UV resistant, not moisture sensitive • Good chemical resistance to acids, bases, oxidizing agents	RoHS
Polyacetal	POM	-40 °C to +90 °C, (+110 °C, 500 h)	Natural (NA)	UL 94 HB	• Limited brittleness sensitivity • Flexible at low temperature • Not moisture sensitive • Robust on impact	RoHS
Polyamide 11	PA11	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Bio-plastic, derived from vegetable oil • Strong impact resistance at low temperature • Very low moisture absorption • Weather resistant • Good chemical resistance	HF RoHS
Polyamide 12	PA12	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Good chemical resistance to acids, bases, oxidizing agents • UV resistant	HF RoHS
Polyamide 4.6	PA46	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)	Natural (NA), Grey (GY)	UL 94 V2	• Resistance to high temperatures • Very moisture sensitive • Low smoke sensitivity	HF LFH RoHS
Polyamide 6	PA6	-40 °C to +80 °C	Black (BK)	UL 94 V2	• High yield strength	RoHS
Polyamide 6, high impact modified	PA6HIR	-40 °C to +80 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL 94 V2	• High yield strength	HF RoHS
Polyamide 6.6, glass-fibre reinforced	PA66GF13	-40 °C to +105 °C	Black (BK)	UL 94 HB	• Good resistance to lubricants, fuels, salt water and solvents	HF RoHS
Polyamide 6.6, heat and UV-stabilised	PA66HSUV	-40 °C to +105 °C	Black (BK)	UL 94 V2	• High yield strength • Modified elevated maximum temperature • UV resistant	HF RoHS
Polyamide 6.6, heat stabilised	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL 94 V2	• High yield strength • Modified elevated maximum temperature	HF RoHS
Polyamide 6.6, high impact modified	PA66HIR	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6, high impact modified, heat and UV-stabilised	PA66HIRHSUV	-40 °C to +110 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature • High yield strength, UV resistant	RoHS
Polyamide 6.6, high impact modified, heat stabilised	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature	RoHS
Polyamide 6.6, high impact modified, scan black)	PA66HIR(S)	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6, UV-resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 V2	• High yield strength • UV resistant	HF RoHS

Date of issue: December 2021

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Polyamide 6.6, with metal particles	PA66MP	-40 °C to +85 °C, (+105 °C, 500 h)	Blue (BU)	UL 94 HB	• High yield strength • Metal and X-Ray detectable	HF RoHS
Polyamide 6.6, with metal particles	PA66MP+	-40 °C to +85 °C	Blue (BU)	not flame retardant	• High yield strength • Metal and X-Ray detectable	HF RoHS
Polyamide 6.6 V0	PA66V0	-40 °C to +85 °C	White (WH)	UL 94 V0	• High yield strength • Low smoke emission	HF LFH RoHS
Polyester	SP	-50 °C to +150 °C	Black (BK)		• UV resistant • Good chemical resistance to most acids, bases and oils	HF LFH RoHS
Polyetheretherketone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL 94 V0	• Resistance to radioactivity • Not moisture sensitive • Good chemical resistance to acids, bases, oxidising agents	HF LFH RoHS
Polyethylene	PE	-40 °C to +50 °C	Black (BK), Grey (GY)	UL 94 HB	• Low moisture absorption • Good chemical resistance to most acids, bases, alcohol, oils	HF RoHS
Polyolefin	PO	-40 °C to +90 °C	Black (BK)	UL 94 V0	• Low smoke emissions	HF LFH RoHS
Polypropylene	PP	-40 °C to +115 °C	Black (BK), Natural (NA)	UL 94 HB	• Floats in water • Moderate yield strength • Good chemical resistance to acids, bases and solvents	HF RoHS
Polypropylene, Ethylene Propylene Diene Terpolymer rubber free of Nitrosamine	PP, EPDM	-20 °C to +95 °C	Black (BK)	UL 94 HB	• Good resistance to high temperature • Good chemical and abrasion resistance	HF RoHS
Polypropylene with metal particles	PPMP	-40 °C to +115 °C	Blue (BU)	UL 94 HB	• Metal and X-Ray detectable • Heat resistant • Moderate yield strength • Good chemical resistance	RoHS
Polypropylene with metal particles	PPMP+	-40 °C to +85 °C	Blue (BU)	not flame retardant	• High yield strength • Metal and X-Ray detectable	HF RoHS
Polyvinylchloride	PVC	-10 °C to +70 °C	Black (BK), Natural (NA)	UL 94 V0	• Low moisture absorption • Good chemical resistance to acids, bases, salts, alcohol, oils	RoHS
Stainless Steel, Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)	non-burning	• Corrosion resistant • Antimagnetic • Weather resistant • Chemical resistance • SS316 also resistant against seawater, salt spray and anorganic acids	HF LFH RoHS
Thermoplastic Polyurethane	TPU	-40 °C to +85 °C	Black (BK)	UL 94 HB	• High elasticity • Good chemical resistance to acids, bases and oxidising agents	HF RoHS

Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In additon to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

**Further colours available on request.

*These details are only guide values. They should not be regarded as a exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

N = **Minimum Loop Tensile Strength for Cable Ties (newton)**

Date of issue: December 2021