



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.

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

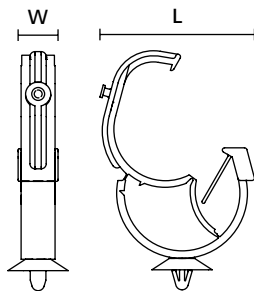
Material information on page 22.



Automatic Harness Clip closed.



Automatic Harness Clip open.



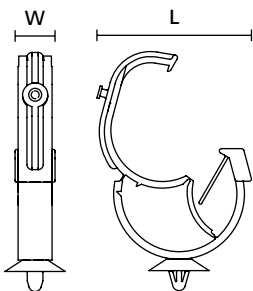
AHC()AH

TYPE	Drawing	Panel Thickness	Disc Ø	Width (W)	Length (L)	Material	Colour	Article-No.
IAHC3AH		0.7 - 2.7	24.0	13.5	40.0	PA66HIRHS	Black (BK)	151-00378
IAHC4AH		0.7 - 3.0	24.0	13.5	53.0	PA66HIRHS	Black (BK)	151-00382
AHC2AH		0.70 - 3.00	20.0	10.0	32.5	PA66HIRHS	Black (BK)	151-02881
AHC1AH		0.7 - 3.0	20.0	10.0	26.2	PA66HIRHS	Black (BK)	151-02874
AHC4AH		0.8 - 2.7	24.0	15.9	60.5	PA66HIRHS	Black (BK)	151-00374

All dimensions in mm. Subject to technical changes.



with arrowhead, for oval holes



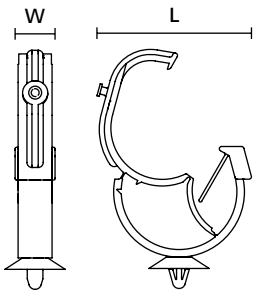
AHC()AH

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Disc Ø	Width (W)	Length (L)	Material	Colour	Article-No.
IAHC5BH		6.2 x 12.2	0.5 - 2.5	45.0	24.0	13.5	64.0	PA66HIRHS	Black (BK)	151-00384
IAHC3CH		6.2 x 12.2	0.70 - 2.00	28.0	24.0	10.0	50.0	PA66HIRHS	Black (BK)	151-00381
IAHC4CH		6.2 x 12.2	0.7 - 2.0	36.0	24.0	13.5	55.0	PA6HIRHS	Black (BK)	151-00383
AHC2BH		6.2 x 12.2	0.5 - 3.0	20.0	20.0	10.0	32.5	PA66HIRHS	Black (BK)	151-02882
AHC3BHR		6.2 x 12.2	0.7 - 3.0	28.0	24.0	14.0	47.4	PA66HIRHS	Black (BK)	151-00370
AHC3CHR		6.2 x 12.2	1.0 - 2.7	28.0	24.0	10.0	40.0	PA6HIR	Black (BK)	151-00371
AHC3CH2		6.2 x 12.2	0.70 - 2.50	28.0	24	11.0	44.1	PA66HIRHS	Black (BK)	151-00937
AHC45BHG2		6.2 x 12.2	1.0 - 3.0	37.5	22.0	14.0	50.0	PA46	Grey (GY)	151-01377

All dimensions in mm. Subject to technical changes.



with fir tree for round holes



AHC()AH

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Disc Ø	Width (W)	Length (L)	Material	Colour	Article-No.
AHC25FT6LG		6.4 - 7.0	0.7 - 4.0	22.0	20.0	10.0	34.5	PA66HIRHS	Black (BK)	151-01198
AHC223FT6LG		6.4 - 7.0	0.7 - 4.0	23.0	20.0	10.0	35.0	PA66HIRHS	Black (BK)	151-01078
AHC336FT6LG		6.4 - 7.0	0.7 - 4.0	37.5	22.0	14.0	50.0	PA66HIRHS	Black (BK)	151-01376

All dimensions in mm. Subject to technical changes.

For aluminium frames with T-slot

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

All dimensions in mm. Subject to technical changes.



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	HF 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

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 V2	- 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 addition to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

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

HF = Halogen Free

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

**Further colours available on request.



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

**For more material information
please visit our website.**