

2-piece fixing ties with pipe clip

These fasteners interconnect two different bundles of goods, of various size and type. The mobility of the fixing tie provides a secure grip and protects the cables or bundles, even in difficult conditions.

Features and benefits

- · Easy to assemble
- For routing of two different bundles
- · For post-installation of additional cables for pre-assembled cable looms
- · Ideally used in the automotive industry, but also in all industries where bundles, cables have to be routed and connected

2-piece fixing ties with pipe clip, twistable 360°

Features and benefits

- Simply clip on a wire or hose
- Fixing clip offers full 360° rotation
- Routed cable can move in any direction in relation to the fixing point



2-piece fixing ties with pipe clip

Features and benefits

- For post-installation of additional cables for pre-assembled cable looms
- · Variety of twist angles and even different loop directions provide
- flexibility for cable routing • For OC1 and 2A additional cable tie dimensions are available
- CBTO-series for cable ties up to 5 mm





Material specification please see page 26.

HellermannTyton 202

Cable Ties and Fixings Fixing products for pipes and harnesses

1.14



Other product variants are available in our Automotive catalogue.



2-piece fixing ties with pipe clip, twistable 360°

ТҮРЕ	Drawing	Attach to Ø	Width (W)	Length (L)	Bundle Ø max.	Material	Colour	Tools	Article-No.
T50SVC4S		3.8 - 4.2	4.7	155.0	35.0	PA66HS, PP	Black (BK), Natural (NA)	2-3;5-6;8;10	156-01374
T50SVC6.5		6.5 - 8.0	4.7	155.0	35.0	PA66HS, PA66HIRHS	Black (BK)	2-3;5-6;8;10	156-00155
T50SVCOC10-14		10.0 - 14.0	4.7	155.0	35.0	PA46	Grey (GY)	2-3;5-6;8;10	156-01045
T50SVCOC19-24.5		19.0 - 24.5	4.7	155.0	35.0	PA66HS, PA66HIRHS	Black (BK)	2-3;5-6;8;10	156-00136

All dimensions in mm. Subject to technical changes.

2-piece fixing ties with pipe clip

ТҮРЕ	Drawing	Attach to Ø	Width (W)	Length (L)	Material	Bundle Ø max.	Colour	Tools	Article-No.
T50ROC1B		4.0 - 10.0	4.6	202.0	PA66HS, PA66HIRHS	45.0	Black (BK)	2-3;5-6;8;10	156-00306

All dimensions in mm. Subject to technical changes.

2-piece fixing ties with automatic harness clip

ТҮРЕ	Drawing	Attach to Ø	Width (W)	Length (L)	Bundle Ø max.	ر ع	Material	Colour	Tools	Article-No.
T50RIAHC1TICR		3.0 - 13.0	4.6	200.0	45.0	225	PA66HIRHS	Black (BK)	2-3;5-6;8;10	156-03377
T50RIAHC2TICR		11.0 - 20.0	4.6	200.0	50.0	225	PA66HIRHS	Black (BK)	2-3;5-6;8;10	156-05330

All dimensions in mm. Subject to technical changes.

Rec	Recommended Tools											
	2	3	5	6	8	10						
	MK20	MK21	MK3PNSP2	EVO7	MK7P	EVO9						
	549	549	550	552	554	553						

Add items to your watchlist!

www.HT.click/9-203

For more information on toolings please refer to the Application Tooling chapter.



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 resistantAntimagnetic	RoHS
Chloroprene Rubber	CR	-20 °C to +80 °C	Black (BK)		Weather resistantHigh 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 sensitivityHigher 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 sensitivityHigher 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 strengthUV 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 strengthLow 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.

*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

**Further colours available on request.