Cable Ties and Fixings

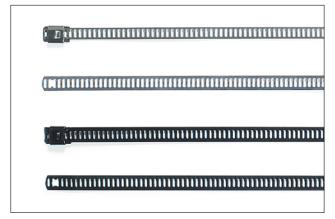


Cable Ties with Raster Locking

The MAT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits.

Features and Benefits

- Stainless steel ladderstyle cable tie, MAT-series
- Similar to conventional 'plastic' cable ties
- Works on a ratchet system
- Type 316 stainless steel
- Available also with polyester coating which prevents corrosion between dissimilar materials



Stainless Steel Cable Ties can be used at temperatures up to 538° C.

Application tools please see page 302.



MAT-Series

MAT-Series

ТҮРЕ	Width (W)	Length (L)	Bundle Ø max.	S N	Material	Pack Cont.	Article-No.
MAT8SS7	7.0	230.0	60.0	445	SS316	100	111-92080
MAT12SS7	7.0	330.0	90.0	445	SS316	100	111-92120
MAT16SS7	7.0	430.0	120.0	445	SS316	100	111-92160
MAT24SS7	7.0	630.0	180.0	445	SS316	100	111-92240

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

• MAT-C-Series coated

ТҮРЕ	Width (W)	Length (L)	Bundle Ø max.	Z	Material	Pack Cont.	Article-No.
MAT8SSC7	7.0	230.0	60.0	445	SS316, SP	100	111-92004
MAT12SSC7	7.0	330.0	90.0	445	SS316, SP	100	111-96120
MAT16SSC7	7.0	430.0	120.0	445	SS316, SP	100	111-92162
MAT24SSC7	7.0	630.0	180.0	445	SS316, SP	100	111-92200

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.







Material Specification Overview

Material	Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	
Aluminium-alloy	AL	-40 °C to +180 °C	Natural (NA)		Corrosion resistantAntimagnetic	RoHS
Chloroprene	CR	-20 °C to +80 °C	Black (BK)		Weather-resistantHigh yield strength	RoHS
Ethylenterafluori- neethylen	E/TFE	-80 °C to +170 °C	Blue (BU)	UL94 V0	 Resistance to radioactivity UV- resistant, not moisture sentitive Good chemical resistance to: acids, bases, oxidizing agents 	RoHS
Polyacetal	POM	-40 °C to +90 °C, (+110 °C, 500 h)	Natural (NA)	UL94 HB	 Limited brittleness sensitivity Flexible at low temperature Not moisture sensitive Robust on impacts 	RoHS
Polyamide 11	PA11	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL94 HB	 Bio-plastic, derived from vegetable oil Strong impact resistance at low temperature Very low moisture absorption Weather-resistant Good chemical resistance 	RoHS HF
Polyamide 12	PA12	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL94 HB	Good chemical resistance to:acids, bases, oxidizing agentsUV- resistant	RoHS HF
Polyamide 4.6	PA46	-40 °C to +150 °C (5000 h), +195 °C (500 h)	Natural (NA), Grey (GY)	UL94 V2	Resistance to high temperaturesVery moisture sensitiveLow smoke sensitive	RoHS HF LFH
Polyamide 6	PA6	-40 °C to +80 °C	Black (BK)	UL94 V2	High yield strength	RoHS
Polyamide 6.6	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL94 V2	High yield strength	RoHS HF
Polyamide 6.6, Glassfibre reinforced	PA66GF13, PA66GF15	-40 °C to +105 °C	Black (BK)	UL94 HB	Good resistance to: lubricants, vehicle fuel, salt water and many solvents	RoHS HF
Polyamide 6.6 heat and UV sta- bilised	PA66HSW	-40 °C to +105 °C	Black (BK)	UL94 V2	 High yield strength Modified elevated max. temperature UV-resistant	RoHS HF
Polyamide 6.6 Heat Stabilised	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL94 V2	High yield strength Modified elevated max. temperature	RoHS HF
Polyamide 6.6 High Imp. Mod., Heat Stab.	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL94 HB	Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature	RoHS
Polyamide 6.6 High Imp. Mod. scan black	PA66HIR(S)	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL94 HB	Limited brittleness sensitivity Higher flexibility at low temperature	RoHS HF
Polyamide 6.6 High Impact Modified	PA66HIR	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL94 HB	Limited brittleness sensitivity Higher flexibility at low temperature	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 is also using equivalent E/TFE raw material from other suppliers.

^{**}More colours on request.



^{*}These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

Material Specification Overview

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Material	Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	
Polyamide 6.6 high impact modified, heat and UV stabilised	PA66- HIRHSW	-40 °C to +110 °C	Black (BK)	UL94 HB	 Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature High yield strength, UV-resistant 	RoHS HF
Polyamide 6.6 UV Resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL94 V2	High yield strength UV-resistant	RoHS HF
Polyamide 6.6 V0	PA66V0	-40 °C to +85 °C	White (WH)	UL94 V0	 High yield strength Low smoke emission	RoHS HF LFH
Polyamide 6.6 V0 High Oxygen Index	PA66- V0-HOI	-40 °C to +85 °C, (+105 °C, 500 h)	White (WH)	UL94 V0	 High yield strength Low smoke emissions	RoHS HF LFH
Polyamide 6.6 with metal particles	PA66MP	-40 °C to +85 °C, (+105 °C, 500 h)	Blue (BU)	UL94 HB	High yield strength	RoHS HF
Polyamide 6 high impact modified	PA6HIR	-40 °C to +80 °C	Black (BK)	UL94 HB	Limited brittleness sensitivity Higher flexibility at low temperature	RoHS
Polyester	SP	-50 °C to +150 °C	Black (BK)		UV-resistant Good chemical resistance to: most acids, alkalis and oils	RoHS HF LFH
Polyetheretherke- tone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL94 V0	Resistance to radioactivity Not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents	RoHS HF LFH
Polyethylene	PE	-40 °C to +50 °C	Black (BK), Grey (GY)	UL94 HB	Low moisture absorption Good chemical resistance to: most acids, alcohol and oils	RoHS HF
Polyolefin	PO	-40 °C to +90 °C	Black (BK)	UL94 V0	Low smoke emissions	RoHS HF LFH
Polypropylene	PP	-40 °C to +115 °C	Black (BK), Natural (NA)	UL94 HB	Floats in waterModerate yield strengthGood chemical resistance to: organic acids	RoHS HF
Polypropylene, Ethylene-Propyle- ne-Dien-Terpoly- mere-rubber free of Nitrosamine	PP, EPDM	-20 °C to +95 °C	Black (BK)	UL94 HB	Good resistance to high temperatures Good chemical and abrasion resistance	RoHS HF
Polyvinylchloride	PVC	-10 °C to +70 °C	Black (BK), Natural (NA)	UL94 V0	Low moisture absorption Good chemical resistance to: acids, ethanol, oil	RoHS
Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)		Corrosion resistant Antimagnetic	RoHS HF LFH
Thermoplastic Polyurethane	TPU	-40 °C to +85 °C	Black (BK)	UL94 HB	 High elastic Good chemical resistance to: acids, bases, oxidizing agents	RoHS HF

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