## Cable Ties inside serrated with kickdown lever

## **REL-Series**

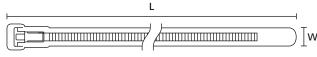
Ideal for use in applications where there is the need to repeatedly open and close the tie.

## **Features and Benefits**

- Releasable and reusable cable tie available in black and natural colours (including UV-resistant)
- Simple and effective release mechanism
- · Can be opened quickly and easily with one hand
- Inside serrated cable tie



Releasable and reusable cable tie, REL-Series.



**REL-Series** 

TYPE	Width (W)	Length (L)	Bundle Ø max.	X N	Material	Colour	Pack Cont.	Article-No.
REL180	6.5	180.0	46.0	150	PA66	Black (BK)	100 pcs.	115-00027
REL100	6.7	100.0	21.0	180	PA66	Black (BK)	100 pcs.	131-21010
	6.7	100.0	21.0	180	PA66	Natural (NA)	100 pcs.	131-21019
REL140	7.6	150.0	35.0	200	PA66	Black (BK)	100 pcs.	131-21410
	7.6	150.0	35.0	200	PA66	Natural (NA)	100 pcs.	131-21419
REL250	7.6	250.0	68.0	200	PA66	Black (BK)	100 pcs.	131-22510
	7.6	250.0	68.0	200	PA66	Natural (NA)	100 pcs.	131-22519
	7.6	250.0	68.0	200	PA66W	Black (BK)	100 pcs.	131-22560

All dimensions in mm. Subject to technical changes.

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



Releasable cable tie REL250-Series.

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Releasable cable tie REL250-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	Z	Material	Colour	Pack Cont.	Article-No.
REL250S	12.2	230.0	50.0	1,115	PA66HIR(S)	Black (BK)	50 pcs.	111-00074
REL250X	12.2	385.0	100.0	1,115	PA66HIR(S)	Black (BK)	50 pcs.	111-00075

All dimensions in mm. Subject to technical changes.

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For product specific approvals and specifications please refer to the Appendix.

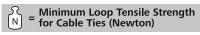


## **Material Specification Overview**

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	CR	-20 °C to +80 °C	Black (BK)		Weather-resistant     High yield strength	RoHS
Ethylene Tetrafluoroethylene	E/TFE	-80 °C to +170 °C	Blue (BU)	UL94 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)	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	HF RoHS
Polyamide 12	PA12	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL94 HB	Good chemical resistance to: acids, bases, oxidizing agents     UV-resistant	HF RoHS
Polyamide 4.6	PA46	-40 °C to +150 °C (5000 h), +195 °C (500 h)	Natural (NA), Grey (GY)	UL94 V2	Resistance to high temperatures     Very moisture sensitive     Low smoke sensitive	HF LFH RoHS
Polyamide 6	PA6	-40 °C to +80 °C	Black (BK)	UL94 V2	High yield strength	RoHS
<b>Polyamide 6,</b> high impact modified	PA6HIR	-40 °C to +80 °C	Black (BK)	UL94 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)	UL94 V2	High yield strength	HF RoHS
<b>Polyamide 6.6,</b> glass-fibre reinforced	PA66GF13, PA66GF15	-40 °C to +105 °C	Black (BK)	UL94 HB	Good resistance to: lubricants, vehicle fuel, salt water and many solvents	HF RoHS
<b>Polyamide 6.6,</b> heat and UV stabilised	PA66HSW	-40 °C to +105 °C	Black (BK)	UL94 V2	High yield strength     Modified elevated max. temperature     UV-resistant	HF RoHS
<b>Polyamide 6.6,</b> heat stabilised	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL94 V2	High yield strength     Modified elevated     max. temperature	HF RoHS
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
<b>Polyamide 6.6,</b> high impact modified, heat and UV stabilised	PA66HIRHSW	-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	HF RoHS
<b>Polyamide 6.6,</b> high impact modified, heat stabilised	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL94 HB	Limited brittleness sensitivity     Higher flexibility at low temperature     Modified elevated max. temperature	RoHS
<b>Polyamide 6.6,</b> high impact modified, 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	HF RoHS
<b>Polyamide 6.6,</b> UV-resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL94 V2	High yield strength     UV-resistant	HF RoHS

 $Tefzel^{\scriptsize 0} is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel^{\scriptsize 0}-trademark of DuPont. General linguistic usage for cable ties made from the properties of the properties$ Tie. In addition to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

HF = Halogenfree LFH = Limited Fire Hazard RoHS = Restriction of Hazardous Substances \*\*More colours on request.





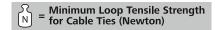
<sup>\*</sup>These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
<b>Polyamide 6.6,</b> with metal particles	PA66MP	-40 °C to +85 °C, (+105 °C, 500 h)	Blue (BU)	UL94 HB	High yield strength     Metal and X-Ray detectable	HF RoHS
Polyamide 6.6 V0	PA66V0	-40 °C to +85 °C	White (WH)	UL94 V0	High yield strength     Low smoke emission	HF LFH RoHS
<b>Polyamide 6.6 V0,</b> High Oxygen Index	PA66V0-HOI	-40 °C to +85 °C, (+105 °C, 500 h)	White (WH)	UL94 V0	High yield strength     Low smoke emissions	HF LFH RoHS
Polyester	SP	-50 °C to +150 °C	Black (BK)	Halogen free	UV-resistant     Good chemical resistance to: most acids, alkalis and oils	HF LFH RoHS
Polyetheretherketone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL94 V0	Resistance to radioactivity Not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents	HF LFH RoHS
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	HF RoHS
Polyolefin	PO	-40 °C to +90 °C	Black (BK)	UL94 V0	Low smoke emissions	HF LFH RoHS
Polypropylene	PP	-40 °C to +115 °C	Black (BK), Natural (NA)	UL94 HB	Floats in water     Moderate yield strength     Good chemical resistance to:     organic acids	HF RoHS
Polypropylene, Ethylene- Propylene-Dien- Terpolymere-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	HF RoHS
<b>Polypropylene</b> with metal particles	PPMP	-40 °C to +115 °C	Blue (BU)	UL94 HB	<ul> <li>Floats in certain liquids</li> <li>Metal and X-Ray detectable</li> <li>Heat resistant</li> <li>Moderate yield strength</li> <li>Good chemical resistance</li> </ul>	RoHS
Polyvinylchloride	PVC	-10 °C to +70 °C	Black (BK), Natural (NA)	UL94 V0	Low moisture absorption     Good chemical resistance to:     acids, ethanol and oil	RoHS
Stainless Steel, Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)	Non burning	Corrosion resistant     Antimagnetic     Weather resistant     Outstanding chemical resistance	HF LFH RoHS
Thermoplastic Polyurethane	TPU	-40 °C to +85 °C	Black (BK)	UL94 HB	High elasticity     Good chemical resistance to:     acids, bases and oxidizing agents	HF RoHS

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HF = Halogenfree LFH = Limited Fire Hazard RoHS = Restriction of Hazardous Substances

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