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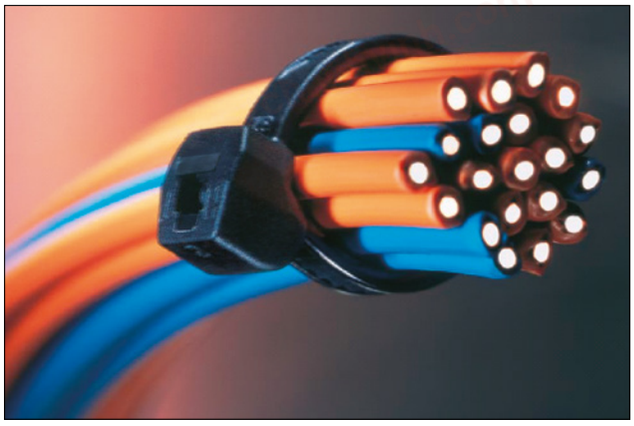
Cable Ties for thin-walled bundles

- **OS-Series**

OS-Series cable ties are used in many areas where thin-walled or soft insulation wires and cable are being installed, e. g. automotive and aircraft industry. OS ties made from PA66V0 material are suitable for applications where safety regulations are required, e.g. reduction of smoke and dangerous gases.

Features and Benefits

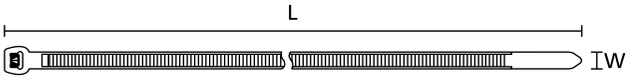
- Outside serrated cable tie with smooth surface to the bundle
- Tie follows the contours of the cable bundle perfectly
- Takes up less space due to curved head
- Easy insertion and high tensile strength
- For higher temperature or Limited Fire Hazard demand: Material PA46 or PA66V0
- Easy application either manually or with a processing tool



The contoured head needs less installation space, provides low insertion force and offers high strength.



The new head design of the OS Series



OS-Series

Application tools please see page 302.

TYPE	Width (W)	Length (L)	Bundle Ø min.	Bundle Ø max.	N	Material	Colour	Pack Cont.	Article-No.
T18ROS	2.5	100.0	1.6	20.0	80	PA66HS	Black (BK)	500	118-04701
	2.5	100.0	1.6	20.0	80	PA66HS	Natural (NA)	1.000	118-00035
T30ROS	3.4	145.0	1.6	35.0	135	PA66HS	Natural (NA)	100	118-00064
	3.4	145.0	1.6	35.0	135	PA66HS	Black (BK)	100	118-04800
T30LOS	3.4	200.0	1.6	50.0	135	PA66HS	Natural (NA)	100	118-00044
	3.4	200.0	1.6	50.0	135	PA66HS	Black (BK)	100	118-04900
T50SOS	4.6	150.0	1.6	35.0	225	PA66HS	Black (BK)	100	118-05850
T50ROS	4.6	200.0	1.6	50.0	225	PA66HS	Black (BK)	500	118-05040
	4.6	200.0	1.6	50.0	225	PA66HS	Natural (NA)	100	118-05059
T50MOS	4.6	245.0	1.6	66.0	225	PA66HS	Black (BK)	100	118-00018
	4.6	245.0	1.6	66.0	225	PA66HS	Natural (NA)	100	118-00055
T50LOS	4.6	384.0	1.6	110.0	225	PA66HS	Black (BK)	100	118-05900
T120ROS	7.6	385.0	5.0	105.0	535	PA66HS	Black (BK)	100	118-00066
	7.6	385.0	5.0	105.0	535	PA66HS	Natural (NA)	100	118-00067

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

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Material Specification Overview

Material	Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	
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
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 agents • UV- 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 temperatures • Very moisture sensitive • Low 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 stabilised	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.

N = Minimum Tensile Strength

Date of issue: January 2014

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Material Specification Overview

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
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	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 water • Moderate yield strength • Good chemical resistance to: organic acids	RoHS HF
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	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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