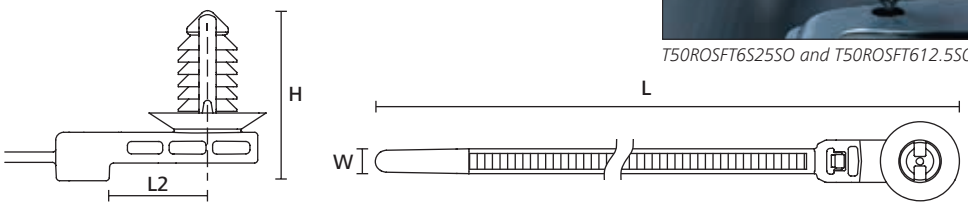
1-Piece Fixing Ties with Fir Tree and Disc, with Stand-off, for Round Holes

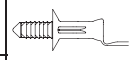
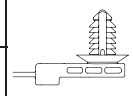
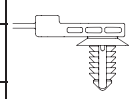
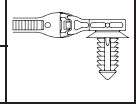
With Offset 12.5 and 25.0 mm

T50ROSFT6S25SO and T50ROSFT612.5SO.

Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space
- 1-piece fixing tie with defined offset 12.5 and 25.0 mm



TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Length (L2)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
T50ROS FT612.5SO		6.1 - 6.9	0.5 - 6.7	5.1	234.2	12.5	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00216
T50ROS FT6S25SO		6.1 - 6.9	0.6 - 3.8	5.1	242.2	25.0	50.0	220	PA66HIRHS	Black (BK)	2-10	157-00197
T50ROS FT825SO		7.6 - 8.4	0.6 - 6.5	5.1	245.1	25.0	50.0	220	PA66HIRHS	Black (BK)	2-10	157-00196
T50ROS FT6SO25A		6.1 - 6.6, 6.1 - 7.1	0.5 - 6.7	5.1	230.0	25.0	50.0	222	PA66HIRHS	Grey (GY)	2-10	157-00119
T50ROS FT6SO12.5A		6.1 - 6.6, 6.1 - 7.1	0.6 - 6.7	5.1	215.5	12.5	50.0	222	PA66HIRHS	Grey (GY)	2-10	157-00130
		6.1 - 6.6, 6.1 - 7.1	0.6 - 6.7	5.1	215.5	12.5	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00145
T50ROS FT6SO25A		6.1 - 6.6, 6.1 - 7.1	0.6 - 6.7	5.1	230.0	25.0	50.0	222	PA46	Brown (BN)	2-10	157-00158
T50ROS FT8SO25A		7.6 - 8.4	0.6 - 6.7	5.1	230.0	25.0	50.0	222	PA66HIRHS	Grey (GY)	2-10	157-00120
T50ROS FTM6SO12.5A		M6 Threaded	0.6 - 5.5	5.1	215.5	12.5	50.0	222	PA66HIRHS	Grey (GY)	2-10	157-00118
T50ROS FT6SO12.5B		6.1 - 7.0	0.5 - 6.7	5.1	215.5	12.5	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00171
T50ROS FT6SO25B		6.1 - 7.0	0.5 - 6.7	5.1	230.0	25.0	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00169
T50ROS FT8SO25B		7.6 - 8.4	0.5 - 6.7	19.0	230.0	25.0	50.0	225	PA66HIRHS	Black (BK)	2-10	157-00170
T50ROS FTM6SO12.5B		M6	0.5 - 6.7	15.0	215.5	12.5	5.5	225	PA66HIRHS	Black (BK)	2-10	157-00131
T50ROS FTM6SO25B		M6 Threaded	0.5 - 6.7	19.0	230.0	25.0	6.5	220	PA66HIRHS	Black (BK)	2-10	157-00172
T50ROS FT6SO12.5R		6.1 - 7.0	0.6 - 8.3	5.1	223.1	12.5	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00165
T50ROS FT6SO25R		6.1 - 7.0	0.6 - 8.3	5.1	237.7	25.0	50.0	222	PA66HIRHS	Black (BK)	2-10	157-00164

All dimensions in mm. Subject to technical changes.

Recommended Tools									
	2 MK20	3 MK21	4 MK3SP	5 MK3PNSP2	6 EVO7	7 MK7HT	8 MK7P	9 MK6	10 EVO9
	545	545	546	546	548	549	550	551	549

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

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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, PA66GF15	-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	PA66HSW	-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	PA66HIRHSW	-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 strength • UV resistant	HF RoHS

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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 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.

**Further colours available on request.

*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.

N = **Minimum Loop Tensile Strength for Cable Ties (Newton)**

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

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