



Cable Ties and Fixings

Cable Ties With Fixing Elements

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

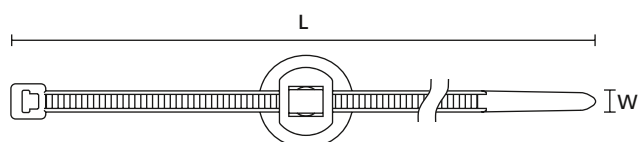
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



These fir tree fixings can also be used in threaded, blind holes.



Reference for dimensions only



Material specification please see page 22.

Fir Tree Parts FT4

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T18RFT4-PA66HSW-BK		3.3 - 4.0	1.0 - 3.0	2.5	100.0	20.0	80	13
T30ROSFT4-PA66HS/PA66HSW-BK		3.3 - 4.0	1.0 - 3.0	3.4	145.0	31.0	135	13
T30RFT4-PA66HS-BK		3.3 - 4.0	1.0 - 3.0	13.5	148.0	35.0	135	13

All dimensions in mm. Subject to technical changes.

Fir Tree Parts FT5

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T30RFT5-PA46-GY		4.5 - 5.0	0.7 - 3.0	3.5	150.0	34.0	135	16.0
T30RFT5-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	3.5	150.0	34.0	135	16.0
T50SOSFT5-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	4.6	150.0	31.0	225	16.0
T50RFT5-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	4.6	200.0	45.0	225	16.0
T50RFT5-PA46-GY		4.5 - 5.0	0.7 - 3.0	4.6	202.0	45.0	225	16.0
T18RFT5-PA66HS-BK		4.5 - 5.0	0.7 - 3.0	2.5	100.0	22.0	80	16.0
T50SOSFT5SD-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	4.6	150.0	35.0	225	16.0
T18RFT5-MOD-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	2.5	100.0	22.0	80	11.0
T30RFT5-MOD-PA66HS/PA66HIRHS-BK		4.5 - 5.0	0.7 - 3.0	3.5	150.0	36.0	133	11.0
T30RFT5LG-PA46-GY		-	0.7 - 6.0	3.6	150.0	45.0	135	11.6
T50RFT5LG-PA46-GY		4.7 - 5.4	0.7 - 6.0	4.6	150.0	45.0	225	11.6
T30RFT5LG-PA66-BK		4.7 - 5.5	0.7 - 6.0	3.6	150.0	34.0	135	11.6
T50RFT5LG-PA66-BK		4.7 - 5.5	0.7 - 6.0	4.6	202.0	45.0	225	11.6

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT6

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T18RFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	2.5	100.0	18.0	80	16.0
PT2AFT6LG-PEEK/PA46-BGE/GY		6.4 - 7.1	0.8 - 6.0	3.4	145.0	35.0	230	16.0
T30RFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	3.6	148.0	30.0	135	16.0
T50SOSFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.6	150.0	32.0	225	16.0
T50SFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.6	160.0	30.0	225	16.0
T50ROSFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.6	200.0	45.0	225	16.0
T50RFT6LG-PA46-GY		6.5 - 7.0	0.8 - 6.0	4.6	200.0	45.0	222	16.0
T50RFT6LG-PAEK-BGE		6.5 - 7.0	0.8 - 6.0	4.6	202.0	45.0	222	16.0
T50RFT6LG-PA66/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.6	202.0	45.0	225	16.0
T50RFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.6	202.0	45.0	225	16.0
T80IFT6LG-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	4.7	305.0	75.0	355	16.0
T30RFT6LG-PA66/PA66HIRHS-BK		6.5 - 7.0	0.8 - 6.0	3.6	148.0	30.0	135	16.0
T80IFT6LG-PA66/PA66HIRHS-NA/BK		6.5 - 7.0	0.8 - 6.0	4.7	300.0	75.0	355	16.0
T30RFT6SD-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	3.6	148.0	35.0	135	16.0
T50ROSFT6SD-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	4.6	200.0	46.0	225	16.0
T50ROSFT6SD-PA46-GY		6.5 - 7.0	0.8 - 3.0	4.6	200.0	45.0	225	16.0
T50RFT6LGSD-HEX-PA66HS/PA66HIRHS-BK		6.25 - 6.75, 6.1 - 6.6 (hexagonal)	0.7 - 5.0	4.6	202.0	45.0	225	16.0
T30RFT6LG1SD-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.6 - 6.0	3.5	150.0	30.0	135	16.0
T50SFT6LG1SD-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.6 - 6.0	4.6	160.0	30.0	225	16.0
T50RFT6LG1SD-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.6 - 6.0	4.6	202.0	45.0	225	16.0

All dimensions in mm. Subject to technical changes.



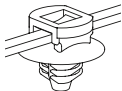
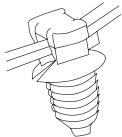
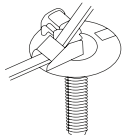
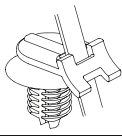


Cable Ties and Fixings

Cable Ties With Fixing Elements

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT6

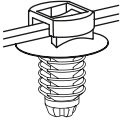
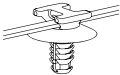
PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T30ROSFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	3.4	145.0	31.0	135	16.0
T30RFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	3.5	150.0	30.0	135	16.0
T50ROSFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	4.6	200.0	45.0	225	16.0
T50RFT6-PA46-GY		6.4 - 7.1	0.8 - 3.0	4.6	202.0	45.0	225	16.0
T50RFT6-PA66/PA66HS-NA/BK		6.4 - 7.1	0.8 - 3.0	4.6	202.0	45.0	225	16.0
T50RFT6-PA66HS/PA66-BK		6.4 - 7.1	0.8 - 3.0	4.6	202.0	45.0	225	16.0
T50RFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	4.6	202.0	45.0	225	16.0
T50RDHFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	4.7	210.0	19.0	180	16.0
T30RFT6-PA66HS/PA66-NA/BK		6.4 - 7.1	0.8 - 3.0	3.5	150.0	34.0	135	16.0
T30RFT6-PA66HS/PA66-BK		6.4 - 7.1	0.8 - 3.0	3.5	150.0	34.0	135	16.0
T50ROSFT6-PA66HS-BK		6.4 - 7.1	0.8 - 3.0	4.6	200.0	45.0	225	16.0
T80IFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	4.6	300.0	81.0	355	16.0
T50LFT6-PA66HS-BK		6.4 - 7.1	0.8 - 3.0	4.7	380.0	106.0	225	16.0
T80LFT6-PA66HS/PA66HIRHS-BK		6.4 - 7.1	0.8 - 3.0	5.0	390.0	108.0	355	16.0
T30LRFT6-PA66HS/PA66HIRHS-BK		6.5 - 7.0	0.8 - 3.0	3.3	260.0	65.0	180	16.0
T30RFT6-PA46-GY		6.5 - 7.0	0.8 - 3.0	3.5	150.0	34.0	135	16.0
T50SOSFT6-PA66HS-BK		6.5 - 7.0	0.8 - 3.0	4.6	150.0	32.0	225	16.0
T30RFT6D10-PA66HS/PA66HIRHS-BK		5.8 - 6.2	0.8 - 4.3	3.5	150.0	32.0	135	9.8
T50RFT6XXL-PA66HS/PA66HIRHS-BK		6.25 - 6.75	0.9 - 1.2	4.6	200.0	45.0	225	30.0
T50RSOC15FT6LG-PA46-GY		6.4 - 7.1	0.8 - 6.0	4.6	202.0	50.0	225	16.0

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT7

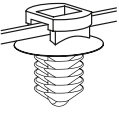
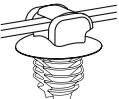
PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T50RFT7-PA66-NA/BK		6.5 - 7.0	0.8 - 7.0	4.6	202.0	45.0	225	16.0
T50RFT7-PA66-BK		6.5 - 7.0	0.8 - 7.0	4.6	202.0	45.0	225	16.0
T50RFT7-PA66HS-BK		6.5 - 7.0	0.8 - 7.0	4.6	202.0	45.0	225	16.0
T50IFT7-PA66HS-BK		6.5 - 7.0	0.8 - 7.0	4.6	300.0	85.0	225	16.0
T30RFT7-PA66-NA/BK		6.5 - 7.0	0.8 - 7.0	3.6	148.0	30.0	135	16.0
T30RFT7-PA66/PA66HS-BK		6.5 - 7.0	0.8 - 7.0	3.6	148.0	30.0	135	16.0
T50RFT7-PA46-NA		6.5 - 7.0	0.8 - 7.0	4.6	202.0	45.0	225	16.0
T50IFT7-PA66-NA/BK		6.5 - 7.0	0.8 - 7.0	4.6	300.0	85.0	225	16.0
T80IFT7-PA66/PA66HS-BK		6.5 - 7.0	1.0 - 7.0	4.6	300.0	85.0	335	16.0
T50RFT7HD-PA46-BN		6.2 - 7.2	0.8 - 7.0	4.6	200.0	50.0	225	21.6

All dimensions in mm. Subject to technical changes.



Material specification please see page 22.

Fir Tree Parts FT8

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T50ROSFT8-PA66HS-BK		7.7 - 8.0	0.8 - 6.0	4.6	200.0	45.0	225	16.0
T50RFT8-PA66HS-BK		7.7 - 8.0	0.8 - 6.0	4.6	202.0	45.0	225	16.0
T50LOSFT8-PA66HS-BK		7.7 - 8.0	0.8 - 6.0	4.6	384.0	100.0	225	16.0
T30RFT8-PA66HS/PA66-BK		7.7 - 8.0	0.8 - 6.0	3.6	148.0	32.0	135	16.0
T50SOSFT8-PA66HS/PA66HIRHS-BK		7.7 - 8.0	0.8 - 6.0	4.6	149.0	35.0	225	16.0
T50RFT8-PA66HS/PA66-BK		7.7 - 8.0	0.8 - 6.0	4.6	202.0	48.0	225	16.0
T40RFT8GSD-PA66HS/PA66HIRHS-BK		8.0 - 8.5	1.5 - 4.0	4.0	180.0	40.0	180	16.0
T50RFT8GSD-PA46-GY		8.0 - 8.5	1.5 - 4.0	4.6	202.0	45.0	225	16.0
T50RFT8GSD-PA66HS/PA66HIRHS-BK		8.0 - 8.5	1.5 - 4.0	4.6	202.0	45.0	225	16.0

All dimensions in mm. Subject to technical changes.

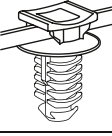
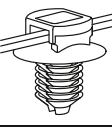
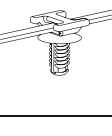
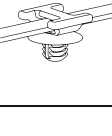


Cable Ties and Fixings

Cable Ties With Fixing Elements

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT9

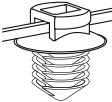
PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T120SFT9-PA66-BK		8.8 - 9.4	4.0 - 8.0	7.6	225.0	55.0	535	20.0
T150RFT9-PA66HS/PA66HIRHS-BK		9.0 - 10.6	5.0 - 11.0	7.6	365.0	100.0	670	20.0
T50RFT9-PA66HS/PA66HIRHS-BK		9.0 - 10.6	5.0 - 11.0	4.6	200.0	45.0	225	20.0
T30RFT9LP-PA66HS/PA66HIRHS-BK		8.8 - 9.2	0.8 - 9.0	3.5	150.0	35.0	135	20.0
T50RFT9LP-PA66HS/PA66HIRHS-BK		8.8 - 9.2	0.8 - 9.0	4.6	200.0	45.0	225	20.0
T120RFT9B-PA66HS/PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 15.8	7.6	380.0	105.0	535	21.6
WSSFT9B-PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 15.8	12.7	228.0	57.0	535	21.6
WSRFT9B-PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 15.8	12.7	380.0	105.0	535	21.6
T150RFT9B-PA66HS/PA66HIRHS-BK		8.75 - 9.25	1.0 - 15.8	7.6	365.0	100.0	670	21.6
WSIFT9A-PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 6.5	7.6	387.0	102.0	535	21.6
WSRFT9A-PA66HIRHSUV-BK		8.7 - 9.2	1.0 - 6.5	12.7	380.0	105.0	535	21.6
T120IFT9A-PA66HS/PA66HIRHS-BK		8.8 - 9.2	1.0 - 6.5	7.6	300.0	80.0	535	20.0
T120IFT9-PA66HIR(S)-BK		9.0 - 10.6	5.0 - 11.0	7.6	300.0	80.0	535	20.0

All dimensions in mm. Subject to technical changes.



2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT10

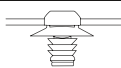
PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T50RFT10-PA46-GY		9.5 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0
V150RFT10-PA66/PA66HS-BK		9.7 - 10.0	0.8 - 5.0	3.3	150.0	35.0	150	18.0
T50ROSFT10-PA66HS-BK		9.7 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0
T50RFT10-PA66HS-BK		9.7 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0
T50RFT10-PA66-BK		9.7 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0
T50RFT10-PA66HS/PA66-BK		9.7 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0
T50ROSFT10-PA66HS/PA66-BK		9.7 - 10.0	0.8 - 5.0	4.6	200.0	45.0	225	18.0

All dimensions in mm. Subject to technical changes.



Material specification please see page 22.

Fir Tree Parts FT11

PART DESCRIPTION	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø
T120RFT11-PA66HSW-BK		6.5 - 7.0	0.8 - 4.5	7.6	380.0	95.0	535	16.0

All dimensions in mm. Subject to technical changes.



Material Specification Overview

MATERIAL	Material Shortcut	Operating Temperature	Colour*	Flammability
Aluminium alloy	AL	-40 °C to +180 °C	Natural (NA)	
Chloroprene Rubber	CR	-20 °C to +80 °C	Black (BK)	
Ethylene Tetrafluoroethylene (Tefzel®)	E/TFE	-80 °C to +170 °C	Blue (BU)	UL 94 V0
Polyacetal	POM	-40 °C to +90 °C, (+110 °C, 500 h)	Natural (NA)	UL 94 HB
Polyamide 11	PA11	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB
Polyamide 11, UV-resistant	PA11W	-40 °C to +105 °C	Black (BK)	UL 94 HB
Polyamide 12	PA12	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB
Polyamide 4.6	PA46	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)	Natural (NA), Grey (GY)	UL 94 V2
Polyamide 6	PA6	-40 °C to +80 °C	Black (BK)	UL 94 V2
Polyamide 6, glass-fibre reinforced	PA6GF30	-40 °C to +100 °C	Black (BK)	UL 94 HB
Polyamide 6, high impact modified	PA6HIR	-40 °C to +80 °C	Black (BK)	UL 94 HB
Polyamide 6, high impact modified, heat stabilised	PA6HIRHS	-80 °C to +110 °C	Black (BK)	UL 94 HB
Polyamide 6.6	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL 94 V2
Polyamide 6.6, glass-fibre reinforced	PA66GF13	-40 °C to +105 °C	Black (BK)	UL 94 HB
Polyamide 6.6, glass-fibre reinforced	PA66GF15	-40 °C to +105 °C	Black (BK)	UL 94 HB
Polyamide 6.6, heat and UV stabilised	PA66HSUV	-40 °C to +105 °C	Black (BK), Natural (NA)	UL 94 V2
Polyamide 6.6, heat and UV stabilised	PA66HSW	-40 °C to +105 °C	Black (BK)	UL 94 V2
Polyamide 6.6, heat stabilised	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL 94 V2
Polyamide 6.6, high impact modified	PA66HIR	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB
Polyamide 6.6, high impact modified, heat and UV stabilised	PA66HIRHSUV	-40 °C to +110 °C	Black (BK)	UL 94 HB
Polyamide 6.6, high impact modified, heat and UV stabilised (only for cable ties for Autotool System 3080)	PA66HIRHSUV	-40 °C to +95 °C, (+105 °C, 5000 h; +145 °C, 500 h)	Black (BK), Natural (NA)	UL 94 HB
Polyamide 6.6, high impact modified, heat and UV stabilised	PA66HIRHSW	-40 °C to +110 °C	Black (BK)	UL 94 HB
Polyamide 6.6, high impact modified, heat stabilised	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL 94 HB
Polyamide 6.6, high impact modified, scan black	PA66HIR(S)	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB

Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In addition to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

*Further colours available on request.

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

MATERIAL	Material Shortcut	Operating Temperature	Colour*	Flammability
Polyamide 6.6, UV resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 V2
Polyamide 6.6, UV-stabilised	PA66UV	-40 °C to +85 °C	Black (BK), Natural (NA)	UL 94 V2
Polyamide 6.6, with metal particles	PA66MP	-40 °C to +85 °C, (+105 °C, 500 h)	Blue (BU)	UL 94 HB
Polyamide 6.6, with metal particles	PA66MP+	-40 °C to +85 °C	Blue (BU)	not flame retardant
Polyamide 6.6 V0	PA66V0	-40 °C to +85 °C	White (WH)	UL 94 V0
Polyaryletherketone	PAEK	-55 °C to +200 °C	Beige (BGE)	UL 94 V0
Polyester	SP	-50 °C to +150 °C	Black (BK)	
Polyetheretherketone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL 94 V0
Polyethylene	PE	-40 °C to +50 °C	Black (BK), Grey (GY)	UL 94 HB
Polyolefin	PO	-40 °C to +90 °C	Black (BK)	UL 94 V0
Polyphenylene Sulfide	PPS	-40 °C to +150 °C	Black (BK), Grey (GY)	UL 94 V0
Polypropylene, Ethylene Propylene Diene Terpolymer rubber free of Nitrosamine	PP, EPDM	-20 °C to +95 °C	Black (BK)	UL 94 HB
Polypropylene 20% Talkum	PPT20	-40 °C to +65 °C	Black (BK)	UL 94 HB
Polypropylene with metal particles	PPMP	-40 °C to +115 °C	Blue (BU)	UL 94 HB
Polypropylene with metal particles	PPMP+	-40 °C to +85 °C	Blue (BU)	not flame retardant
Polyvinylidene Fluoride	PVDFX	-50 °C to +150 °C	Natural (NA)	UL 94 V0
Polyvinylchloride	PVC	-10 °C to +70 °C	Black (BK), Natural (NA)	UL 94 V0
Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)	non-burning
Thermoplastic Polyurethane	TPU	-40 °C to +85 °C	Black (BK)	UL 94 HB

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for Cable Ties (Newton)

Tip: Material shortcut is part of our Part Description name

Product series name (indicating tie type, clip and harness routing variant)

Material code

Colour code (details on page 326)

T50ROSEC5A-PA66HS/PA66HIRHS-BK