

All-plastic ties
A complete range to fit the needs
of OEM's

Introduction

- The Thomas & Betts Ty-Fast® cable ties are available in lengths from 91 mm to 1214 mm strap. Cable ties will satisfy bundling requirements up to 381 mm and loop tensile strengths from 80 to 1120N
- Cable ties are made from halogen free and silicone free Polyamide 6.6 and stocked in colours as listed. Contact your Customer Service Representative for availability in special materials and colours
- Where applicable, Thomas & Betts cable ties are UL listed and/or approved by Germanischer Lloyd, by Lloyd's Register of Shipping, by Mil-Specifications and/or QPL listed
- State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process.



Product advantages

- The integrally formed Polyamide pawl combines low insertion and high locking strength
- A rounded, low-profile head makes for less snags
- Tails have improved two-sided finger grip design that helps the operator grasp and pull ties snug
- Sure Grip tab keeps the tail from popping out while being threaded, then holds it securely for final tightening by hand or tool
- Quick and easy pull through increases productivity, reduces operator fatigue

All-plastic ties

Product reference structure

TY - 100 - 18 - X - 100

Standard cable ties
with a width up to 13.2 mm

Tie Length Code
for lengths from 91 mm up to 1214 mm

Tie Width / Tensile Strength Code

18 = 2.4 mm /	(80N)
40 = 3.6 mm /	(180N)
50 = 4.6 mm /	(220N)
120 = 7.6 mm /	(540N)
175 = 8.8 mm /	(780N)
250 = 13.2 mm /	(1120N)

Additional code for packaging

[Blank] = Bulk packaging (1000 / 500 / 50 ties according to the size of the tie)

50 = 50 ties in a bag with Euroslot (only for Prod. Ref. TY400-120)

100 = 100 ties in a bag with Euroslot (not available for Prod. Ref. TY400-120 & TY800-120)

Additional code for various colour / material

All product references are made of halogen free Polyamide 6.6, UL 94 V-2, operating temperature -40°C to +85°C

[Blank] = natural	5 = green
X = black, UV-stabilised*	6 = blue
1 = brown	7 = purple
2 = red	8 = grey
3 = orange	9 = white
4 = yellow	20 = black

39 = Heat stabilised, temperature range: -40°C to +105°C, natural

* X = outdoor use, UV-stabilised, (UL 94 HB for TY...-120X range), black

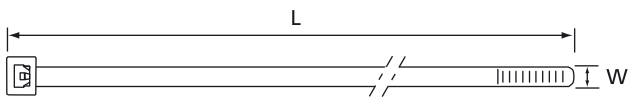
Ty-Fast®

All-plastic ties
Standard cable ties

Technical Information

Material - Moulding	Polyamide 6.6 (*)
Temperature range	-40°C to +85°C
Colour	Natural as standard colour (*)
Approvals	MIL: MS 3367-x (see table)
Flammability rating	UL 94 V-2
Other properties	Halogen free, Silicone free

(*) For other materials and colours see the product reference structure page 36



Approvals



E49405



Ordering Information

PRODUCT REF.	MIL SPEC.	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
TY075-18**	MS-3367-5	91	2.4	20	80	1000	
TY100-18	-	114	2.4	25	80	1000	
TY125-18	-	138	2.4	32	80	1000	
TY200-18	-	205	2.4	50	80	1000	ERG299
TY125-40	MS-3367-6	143	3.5	32	180	1000	WT193A
TY200-40	-	205	3.5	50	180	1000	TR227
TY300-40	-	290	3.5	76	180	1000	
TY400-40***	-	370	3.5	102	180	1000	
TY175-50	MS-3367-1	186	4.6	44	220	1000	ERG299
TY225-50	-	228	4.6	57	220	1000	ERG297
TY300-50	-	294	4.6	76	220	1000	WT193A
TY400-50	MS-3367-2	370	4.6	102	220	1000	TR227
TY200-120*	-	220	7.6	50	540	500	ERG297
TY400-120	MS-3367-3	375	7.6	102	540	500	L-500-EU
TY800-120**	-	706	7.6	203	540	50	WT3D

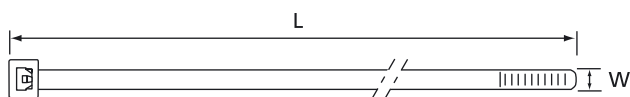
* not UL approved

** not Germanischer Lloyd approved

*** not UL or Germanischer Lloyd approved

For tooling specifications see pages 92 to 99

- Extremely long ties (up to 1214 mm)
- Robust construction (780N), for demanding applications where superior tensile strength is required
- The extra long Ty-Fast® ties are available in natural colour for indoor applications and in UV-resistant black for outdoor applications



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free

Approvals



Ordering Information

PRODUCT REF.	COLOUR	LENGTH	WIDTH	BUNDLE DIAMETER	MINIMUM TENSILE	QUANTITY	TOOLING
		L	W	MAX.	STRENGTH		
		[mm]	[mm]	[mm]	[N]	[pieces]	
L-34-175-9-L	Natural	866	8.8	254	780	50	
L-36-175-0-L	UV-resistant black	930	8.8	273	780	50	
L-36-175-9-L	Natural	930	8.8	273	780	50	WT3D
L-41-175-0-L	UV-resistant black	1036	8.8	305	780	50	L300FR
L-41-175-9-L	Natural	1036	8.8	305	780	50	L-500-EU
L-48-175-0-L	UV-resistant black	1214	8.8	381	780	50	
L-48-175-9-L	Natural	1214	8.8	381	780	50	

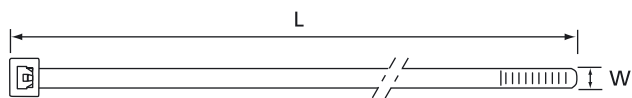
For tooling specifications see pages 92 to 99

Ty-Fast®

All-plastic ties

Heavy-duty cable ties

- Extremely robust ties (1120N), for demanding applications where extreme tensile strength is required
- Available in natural colour for indoor applications and in UV-resistant black for outdoor applications



Technical Information

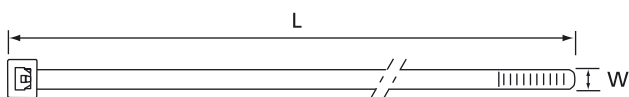
Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free

Ordering Information

PRODUCT REF.	COLOUR	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
TYL300M	natural	300	13.2	75	1120	50	L-500-EU
TYL300MX	UV-resistant black	300	13.2	75	1120	50	
TYL546M	natural	546	13.2	140	1120	50	
TYL546MX	UV-resistant black	546	13.2	140	1120	50	

For tooling specifications see pages 92 to 99

Similar to our Ty-Rap® range of flame retardant ties, these all-plastic ties are made from low smoke flame retardant Polyamide 6.6 and meet the requirements of UL 94 V-0. Ideal for use where low flammability and low smoke are necessary such as public transport / buildings, tunnels etc.



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Milky white
Flammability rating	UL 94 V-0
Other properties	Limited fire hazard (low smoke) Halogen free, Silicone free

Ordering Information

PRODUCT REF.	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
TS1025HF	100	2.5	2 - 24	90	100	
TS1435HF	140	3.5	2.5 - 36	180	100	ERG299
TS2045HF	200	4.5	3 - 51	220	100	TR227
TS2845HF	280	4.5	5 - 76	220	100	WT193A
TS3645HF	360	4.5	5 - 101	220	100	
TS3675HF	360	7.5	5 - 101	540	100	ERG297, L-500-EU WT3D

For tooling specifications see pages 92 to 99

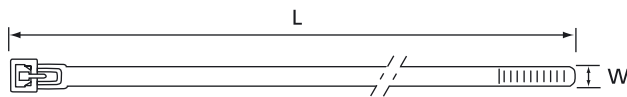
Ty-Fast®

All-plastic ties Special ties

Thomas & Betts has developed a range of special Ty-Fast® cable ties, having the same main characteristics as the standard ties (see page 36), plus a few additional features, to provide an appropriate and elegant solution to some very specific applications. These special ties are described hereafter.



All-plastic ties Special releasable ties



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free

Ordering Information

PRODUCT REF.	COLOUR	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
L-5-50R-0-C	UV-resistant black	150	7.5	32	220	100	WT3D ERG297 L-500-EU
L-5-50R-9-C	natural	150	7.5	32	220	100	
L-8-50R-0-C	UV-resistant black	198	7.5	51	220	100	
L-8-50R-9-C	natural	198	7.5	51	220	100	
L-10-50R-0-C	UV-resistant black	298	7.5	76	220	100	
L-10-50R-9-C	natural	298	7.5	76	220	100	

For tooling specifications see pages 92 to 99

Technical Information

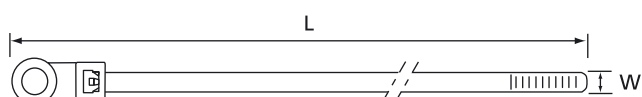
Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free



Approvals



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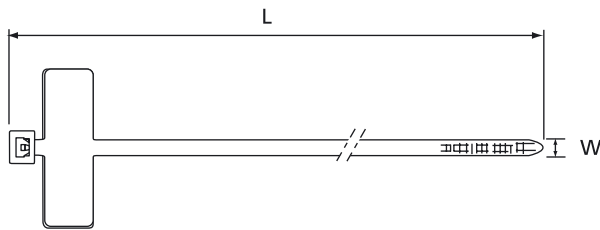


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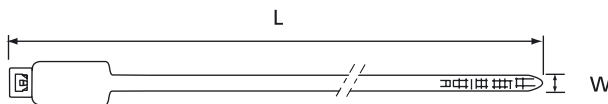
PRODUCT REF.	COLOUR	LENGTH L [mm]	WIDTH W [mm]	FIXING SCREW SIZE	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
L-5-30MH-0-C	UV-resistant black	152	3.3	M4	32	130	100	ERG299
L-5-30MH-9-C	natural	152	3.3	M4	32	130	100	WT193A, TR227
L-7-50MH-0-C	UV-resistant black	208	4.7	M5	44	220	100	ERG297
L-7-50MH-9-C	natural	208	4.7	M5	44	220	100	ERG299
L-11-50MH-0-C	UV-resistant black	314	4.7	M5	76	220	100	TR227
L-11-50MH-9-C	natural	314	4.7	M5	76	220	100	WT193A
L-14-50MH-0-C	UV-resistant black	382	4.7	M5	102	220	100	WT3D
L-14-50MH-9-C	natural	382	4.7	M5	102	220	100	
L-14-120MH-0-C	UV-resistant black	382	7.6	M6	102	540	100	ERG297
L-14-120MH-9-C	natural	382	7.6	M6	102	540	100	L-500-EU, WT3D

For tooling specifications see pages 92 to 99

L-4-18ID-9-C



L-7-50ID-9-C



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural
Flammability rating	UL 94 V-2
Other properties	Halogen free, Silicone free

Ordering Information

PRODUCT REF.	LENGTH L [mm]	WIDTH W [mm]	LABEL DIMENSIONS [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
L-4-18ID-9-C	102	2.5	7.9 x 24.7	19	80	100	ERG299
L-4-18ID-9-M	102	2.5	7.9 x 24.7	19	80	1000	TR227, WT193A
L-7-50ID-9-C	200	4.7	30 x 13.3	44	220	100	ERG297, ERG299
L-7-50ID-9-M	200	4.7	30 x 13.3	44	220	1000	TR227, WT193A L-500-EU

For tooling specifications see pages 92 to 99



Ty-Fast®

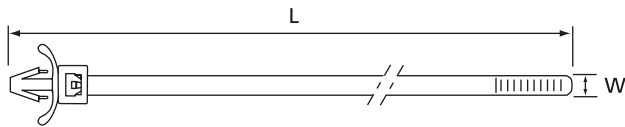
All-plastic ties

Special push-mount ties

Approvals



E49405



Ordering Information

PRODUCT REF.	COLOUR	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
L-5-50PM-0-C	UV-resistant black	147	4.8	25	220	100	ERG297, ERG299
L-5-50PM-9-D	natural	147	4.8	25	220	1000	TR227
L-7-50PM-0-C	UV-resistant black	208	4.8	44	220	100	WT193A
L-7-50PM-9-C	natural	208	4.8	44	220	100	L-500-EU

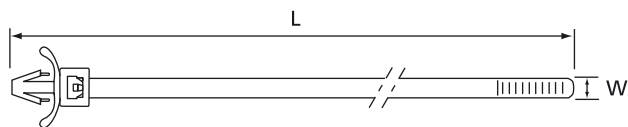
For use in 6.35 mm mounting hole. Maximum panel thickness 2.7 mm
For tooling specifications see pages 92 to 99

All-plastic ties

Special cable ties: releasable push-mount ties

Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free



Ordering Information

PRODUCT REF.	COLOUR	LENGTH L [mm]	WIDTH W [mm]	BUNDLE DIAMETER MAX. [mm]	MINIMUM TENSILE STRENGTH [N]	QUANTITY [pieces]	TOOLING
TB-4-50PMR-9-C*	natural	99	4.8	20	220	100	WT1-TB, WT2-TB
L-5-50PMR-0-C	UV-resistant black	147	4.8	25	220	100	ERG297, ERG299
L-5-50PMR-9-C	natural	147	4.8	25	220	100	TR227
L-7-50PMR-0-C	UV-resistant black	208	4.8	44	220	100	WT193A
L-7-50PMR-9-C	natural	208	4.8	44	220	100	L-500-EU

* not UL approved

For use in 6.35 mm mounting hole. Maximum panel thickness 2.7 mm
For tooling specifications see pages 92 to 99



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural or UV-resistant black (see table)
Flammability rating	UL 94 V-2
Other properties	UV-resistant (black) Halogen free, Silicone free



Approvals



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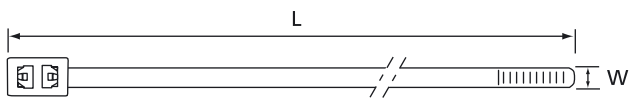
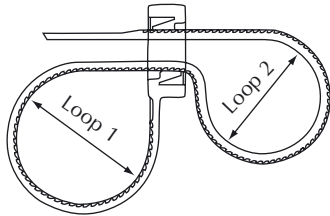
Ty-Fast®

All-plastic ties

Special double-headed ties

The double-headed ties allow the parallel routing of two bundles of cable with one single tie.

Available in 3 different lengths.



Technical Information

Material	Polyamide 6.6
Temperature range	-40°C to +85°C
Colour	Natural
Flammability rating	UL 94 V-2
Other properties	Halogen free, Silicone free

Ordering Information

PRODUCT REF.	LENGTH	WIDTH W	BUNDLE Ø RANGE		MINIMUM TENSILE STRENGTH	QUANTITY	TOOLING
	L		LOOP 1	LOOP 2			
	[mm]		MIN. - MAX. [mm]	MIN. - MAX. [mm]			
TB-50RLDH	200	4.8	2.5 - 47	2.0 - 45	220	1000	ERG297, ERG299
TB-12-50RLDH	300	4.8	2.5 - 72	2.0 - 70	220	1000	TR227, WT193A
TB-15-50RLDH	370	4.8	2.5 - 100	2.0 - 97	220	1000	L-500-EU

For tooling specifications see pages 92 to 99