



Ty-Fast®

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 104 mm to 1214 mm strap. Cable ties will satisfy bundling requirements from 20 mm 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

The old Ty-Fast® Product References have changed. Please refer to page 45 for cross-referencing between old and new Product References

L - 4 - 18* - X - Y

Standard cable ties
with a width up to 13.2 mm

Tie Length Code (in Inches)
for lengths from 104 mm up to 1214 mm

Tie Width / Tensile Strength Code* (in pounds)

- 18 lb. (80N)
- 40 lb. (180N)
- 50 lb. (220N)
- 120 lb. (540N)
- 175 lb. (780N)
- 250 lb. (1120N)

Additional code for packaging

- L = 50
- C = 100
- D = 500
- M = 1000

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

| | |
|-------------------------|------------|
| 0 = UV stabilised black | 5 = green |
| 9 = natural | 6 = blue |
| 1 = brown | 7 = purple |
| 2 = red | 8 = grey |
| 3 = orange | 10 = white |
| 4 = yellow | |

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

* Tensile strength code is followed by:

- HS** for Heat stabilised version
- MH** for Mounting Hole version
- R** for Releasable version
- ID** for Identification version
- PM** for Push-mount version
- PMR** for Push-mount Releasable version

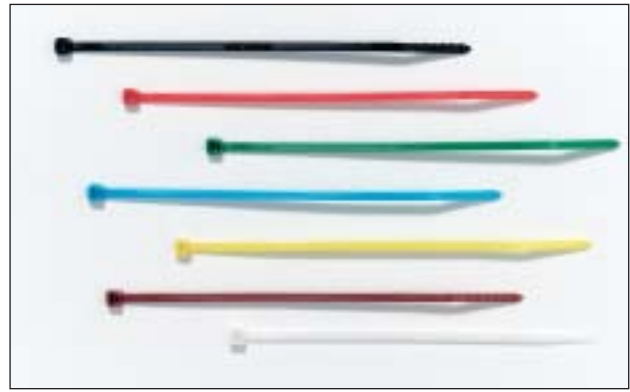
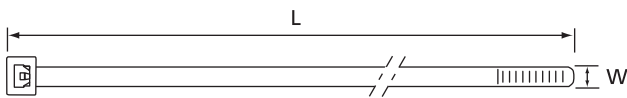
Ty-Fast®

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

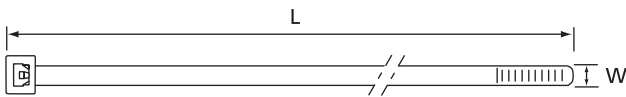
| PRODUCT REF. | MIL SPEC. | LENGTH L [mm] | WIDTH W [mm] | BUNDLE DIAMETER MAX. [mm] | MINIMUM TENSILE STRENGTH [N] | QUANTITY [pieces] | TOOLING |
|-----------------|-----------|---------------------|--------------------|---------------------------------|------------------------------------|----------------------|----------|
| L-4-18-9-M * | MS-3367-4 | 104 | 2.4 | 20 | 80 | 1000 | |
| L-4.4-18-9-M | MS-3367-5 | 114 | 2.4 | 25 | 80 | 1000 | |
| L-6-18-9-M | - | 138 | 2.4 | 32 | 80 | 1000 | |
| L-8-18-9-M | - | 205 | 2.4 | 50 | 80 | 1000 | ERG299 |
| L-5-40-9-M ** | MS-3367-6 | 143 | 3.5 | 32 | 180 | 1000 | WT193A |
| L-8-40-9-M | - | 205 | 3.5 | 50 | 180 | 1000 | TR227 |
| L-11-40-9-M | - | 290 | 3.5 | 76 | 180 | 1000 | |
| L-14-40-9-M * | - | 370 | 3.5 | 102 | 180 | 1000 | |
| L-7-50-9-M | MS-3367-1 | 186 | 4.6 | 44 | 220 | 1000 | ERG299 |
| L-8.9-50-9-M | - | 228 | 4.6 | 57 | 220 | 1000 | ERG297 |
| L-11-50-9-D | MS-3367-7 | 294 | 4.6 | 76 | 220 | 500 | WT193A |
| L-14-50-9-D | MS-3367-2 | 370 | 4.6 | 102 | 220 | 500 | TR227 |
| L-8-120-9-D * | - | 220 | 7.6 | 50 | 540 | 500 | ERG297 |
| L-14-120-9-D | - | 375 | 7.6 | 102 | 540 | 500 | L-500-EU |
| L-28-120-9-L ** | MS-3367-6 | 706 | 7.6 | 203 | 540 | 50 | WT3D |

* not UL or Germanischer Lloyd approved

** not 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®

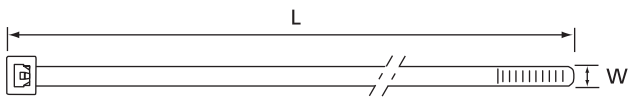
All-plastic ties

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



1.1



Technical Information

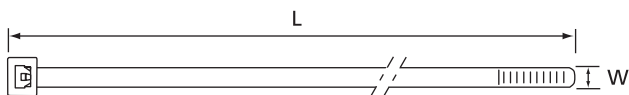
| | |
|---------------------|---|
| Material | Polyamide 6.6 |
| Temperature range | -40°C to +85°C |
| Colour | Natural or UV-resistant black (see table) |
| Flammability rating | UL 94 V-2 |
| Other properties | UV-resistant (black) Halogen free, Silicone free |

Ordering Information

| PRODUCT REF. | COLOUR | LENGTH L [mm] | WIDTH W [mm] | BUNDLE DIAMETER MAX. [mm] | MINIMUM TENSILE STRENGTH [N] | QUANTITY [pieces] | TOOLING |
|----------------|--------------------|---------------------|--------------------|---------------------------------|------------------------------------|----------------------|----------|
| L-11.8-250-9-L | natural | 300 | 13.2 | 75 | 1120 | 50 | L-500-EU |
| L-11.8-250-0-L | UV-resistant black | 300 | 13.2 | 75 | 1120 | 50 | |
| L-21.5-250-9-L | natural | 546 | 13.2 | 140 | 1120 | 50 | |
| L-21.5-250-0-L | 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

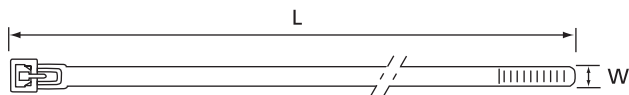
Ty-Fast®

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

All-plastic ties

Special cable ties with mounting head

Technical Information

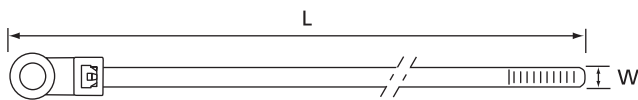
| | |
|---------------------|---|
| Material | Polyamide 6.6 |
| Temperature range | -40°C to +85°C |
| Colour | Natural or UV-resistant black (see table) |
| Flammability rating | UL 94 V-2 |
| Other properties | UV-resistant (black) Halogen free, Silicone free |



Approvals



E49405



Ordering Information

| 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 |

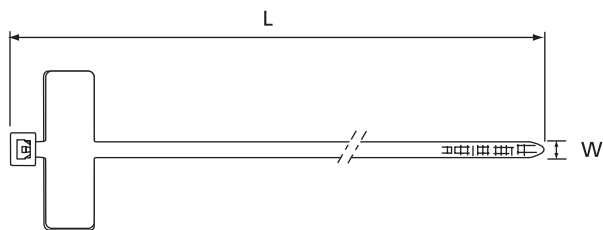
For tooling specifications see pages 92 to 99

Ty-Fast®

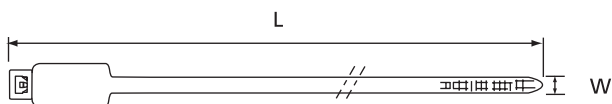
All-plastic ties

Special identification ties

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®

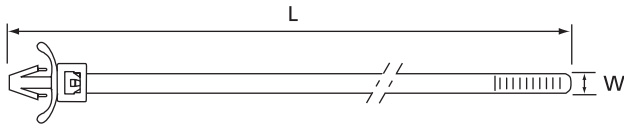
All-plastic ties

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



Technical Information

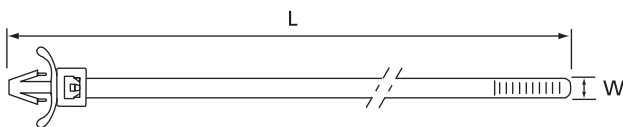
| | |
|---------------------|---|
| Material | Polyamide 6.6 |
| Temperature range | -40°C to +85°C |
| Colour | Natural or UV-resistant black (see table) |
| Flammability rating | UL 94 V-2 |
| Other properties | UV-resistant (black) Halogen free, Silicone free |

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



Approvals



E49405

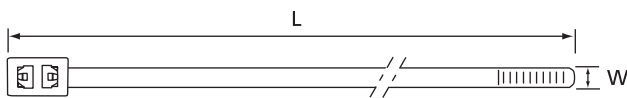
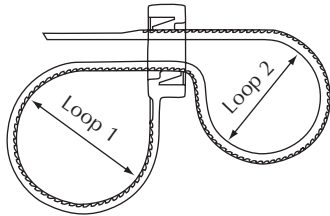
Ty-Fast®

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

Cross-reference table: old and new Ty-Fast® Product References

| OLD PRODUCT REF. | NEW PRODUCT REF. |
|------------------|------------------|
| TY075-18 | L-4-18-9-M |
| TY100-18 | L-4.4-18-9-M |
| TY125-18 | L-6-18-9-M |
| TY200-18 | L-8-18-9-M |
| TY125-40 | L-5-40-9-M |
| TY200-40 | L-8-40-9-M |
| TY300-40 | L-11-40-9-M |
| TY400-40 | L-14-40-9-M |
| TY175-50 | L-7-50-9-M |
| TY225-50 | L-8.9-50-9-M |
| TY300-50 | L-11-50-9-D |

| OLD PRODUCT REF. | NEW PRODUCT REF. |
|------------------|------------------|
| TY400-50 | L-14-50-9-D |
| TY200-120 | L-8-120-9-D |
| TY400-120 | L-14-120-9-D |
| TY800-120 | L-28-120-9-L |
| L-34-175-9-L | L-34-175-9-L |
| L-36-175-9-L | L-36-175-9-L |
| L-41-175-9-L | L-41-175-9-L |
| L-48-175-9-L | L-48-175-9-L |
| TYL300M | L-11.8-250-9-L |
| TYL546M | L-21.5-250-9-L |

For more detailed information concerning these references see pages 37 to 39