

**Thomas & Betts**



Ty-Rap®  
Detectable Cable Ties  
and Accessories

# No more secret ingredients



The Ty-Rap® detectable cable ties and accessories from Thomas & Betts incorporate a unique patented compound that can be detected by X-Ray equipment, metal detectors and visual inspection equipment.

Those products are particularly recommended for applications in food, pharmaceutical and other contamination-sensitive industries using detection systems, where cable tie installation residuals (cut tails) and/or accessories are not allowed in the finished product.

By specifying the Ty-Rap® detectable cable ties and accessories of Thomas & Betts for your plant you help reducing the risk of product contamination.

Another great aspect of the detectable products of Thomas & Betts: they help your business achieve a great step towards meeting the HACCP\* EU-directive. The HACCP directive is a systematic preventative approach to food safety that addresses physical, chemical and biological hazards as a means of prevention rather than finished product inspection.

The Ty-Rap® detectable cable ties and accessories made of detectable Nylon (NDT) and Polypropylene (PDT) are compliant to the FDA regulation, which means the products are intended for use in the proximity of food processing, handling and packaging operations.

\* HACCP= Hazard Analysis Critical Control Points  
 \* HACCP is a system, which identifies specific hazards and preventative measures for their control to minimize the risk of producing defective products and services.

Main applications for detectable products:

- Food and beverage processing
- Pharmaceutical production
- Chemical and compounds manufacturing
- Tire and airbag manufacturing
- Any other contamination-sensitive industry using detection equipment

## Detection methods

### Metal Detection

Ty-Rap® Detectable Cable Ties have been tested and are rated at 1.5 mm diameter ferrous sphere setting. Therefore sensitive enough to be picked up by nearly every metal detector in service.

### X-Ray Detection

X-Rays are the future of the detection industry. Depending on the density of the product being verified, Ty-Rap® Detectable Cable Ties reach an impressive differential of between 200 and 2000 on the X-Ray grey scale.

### Visual Detection

Visual detection systems detect surface irregularities and volume changes. This method is often used in beverage and chemical processing plants. The bright blue colour ensures an easy visual detection.

## Features

- Detectable by metal detectors set at minimum 1.5 mm diameter ferrous sphere\*
- Detectable by X-Ray equipment\*\*
- Bright blue colour for an easy visual detection
- Help achieve the HACCP EU-Directive, compliant to the FDA regulation
- Halogen free
- Available in standard Polyamide 6.6 (all references ending with NDT) or in buoyant Polypropylene (all references ending with PDT) version for liquid-processing applications
- All the advantages of the standard Ty-Rap® cable ties as "The Grip of Steel" locking device which offers superior performance
- Available in 5 different sizes in convenient small bags with Euroslot

\* Tested by Thermo Electron Corporation, Minneapolis, MN, USA

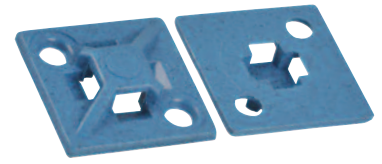
\*\* Tested by Smiths Detection, Alcoa, TN, USA

## Ty-Rap® Detectable Cable Ties

Product ref.	Length [mm]	Width [mm]	Bundle Dia. From...To [mm]	Minimum Tensile Strength [N]	Quantity [pieces]	Tooling
TY523M-NDT	92	2.4	2 - 16	80	100	ERG50
TY524M-NDT	140	3.6	2 - 29	180	100	ERG50
TY525M-NDT	186	4.8	3.5 - 45	220	100	ERG50 / ERG120
TY528M-NDT	360	4.8	3.5 - 102	220	100	ERG50 / ERG120
TY527M-NDT	340	7.0	6 - 90	540	50	ERG120
TY523M-PDT	92	2.4	2-16	50	100	ERG50
TY525M-PDT	186	4.8	3.5-45	130	100	ERG50
TY528M-PDT	360	4.8	3.5-102	130	100	ERG50
TY527M-PDT	340	7.0	6-90	270	50	ERG120



## 2-way and 4-way entry mounting bases



Product ref.	Mounting method	Width [mm]	Length [mm]	For tie width up to [mm]	Mounting hole (2x) diameter [mm]	Quantity [pieces]
TC5344A-NDT	self-adhesive*/screw	19,1	19,1	3,6	3	100
TC5344A-PDT	self-adhesive*/screw	19,1	19,1	3,6	3	100
TC344A-NDT	self-adhesive*/screw	19,1	19,1	3,6	3	1000
TC5347A-NDT	self-adhesive*/screw	29	29	7,6	4,4	100
TC5347A-PDT	self-adhesive*/screw	29	29	7,6	4,4	100
TC347A-NDT	self-adhesive*/screw	29	29	7,6	4,4	1000

## Saddle support



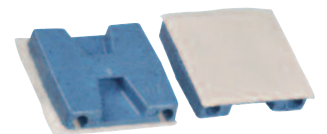
Product ref.	Mounting method	Width [mm]	Length [mm]	For tie width up to [mm]	Mounting hole diameter [mm]	Quantity [pieces]
TC5141-NDT	screw	11,1	17	4,8	3,8	100
TC5141-PDT	screw	11,1	17	4,8	3,8	100
TC141-NDT	screw	11,1	17	4,8	3,8	500
TC5142-NDT	screw	14,2	23,4	7,6	5,2	100
TC5142-PDT	screw	14,2	23,4	7,6	5,2	100
TC142-NDT	screw	14,2	23,4	7,6	5,2	500

## Screw-mounted miniature bases



Product ref.	Mounting method	Width [mm]	Length [mm]	For tie width up to [mm]	Mounting hole diameter D1 [mm]	Mounting hole diameter D2 [mm]	Quantity [pieces]
TC5102-NDT	screw	12,7	19,1	4,8	4,4	8,7	100
TC102-NDT	screw	12,7	19,1	4,8	4,4	8,7	1000
TC102-PDT	screw	12,7	19,1	4,8	4,4	8,7	1000

## Low profile plates



Product ref.	Mounting method	Width [mm]	Length [mm]	For tie width up to [mm]	Quantity [pieces]
TC5342A-NDT	self-adhesive*	29	29	4,8	100
TC5342A-PDT	self-adhesive*	29	29	4,8	100
TC342A-NDT	self-adhesive*	29	29	4,8	1000

\* Surface preparation: surface should be cleaned with alcohol-based cleaner before application. Installation: Surface must be clean and dry prior to application of accessory. Allow 15-minute setting time for maximum adhesion performance of synthetic rubber adhesive (SRA).

[www.tnb-europe.com](http://www.tnb-europe.com)

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