

# Ty-Fast

## Ag+™ bacteria-resistant cable ties



Ty-Fast Ag+ after 24 hours of exposure to bacteria



Standard cable tie after 24 hours of exposure to bacteria

### Characteristics

A breakthrough safety solution for fastening in bacteria-prone areas. A standard nylon cable tie is a harmless enough object—you install it to bundle and fasten cables, and then you forget about it. By its very design, full of notches and grooves, though, a cable tie makes an attractive home for micro-organisms to collect and reproduce. In most applications, this isn't a concern. However, in hospitals and food processing facilities, where reducing the growth of unhealthy micro-organisms is critical, the presence of heat, moisture and organic material common in these environments can encourage the growth of bacteria, fungus and mold.

In response to the needs of customers in healthcare, food processing and preparation, pharmaceuticals, medical device manufacturing and other contamination-sensitive industries, ABB introduces the industry's first bacteria resistant cable tie. Ty-Fast Ag+ bacteria-resistant cable ties are molded from an FDA-compliant nylon resin blended with an antimicrobial silver ion additive to prevent the growth of bacteria, fungus and mold on their surface.

A proven antimicrobial agent, ionized silver has been used in consumer products for years and is effective against a broad spectrum of micro-organisms, preventing their reproduction and spread.

- The industry's first cable tie that inhibits microbial growth
- Protects itself against bacteria, mold and fungus
- Helps to reduce infection rate and spread of bacteria by not hosting microbial growth
- Promotes a clean environment— 99.9% effective for bacterial reduction
- Offers reliable Ty-Fast cable tie design for easy cable management
- UL recognized, RoHS and FDA compliant

### Applications

- Hospitals and other healthcare facilities
- Pharmaceutical production
- Food and beverage processing (off-line production)
- Medical equipment manufacturing

### Technical information

- Material: FDA-compliant fungal-inert nylon 6.6 resin custom-blended with EPA-registered antimicrobial silver ion additive
- Operating temperature: -40°F to 185°F (-40°C to 85°C)
- Colour: Ivory
- Flammability rating: UL94V-2
- Certifications/ compliances:
  - Recognized to UL62275 Type 1
  - UL/EN/CSA62275 Type 2/2S rated for AH-2 plenum
  - Independent laboratory tested to ISO22196 (Measurement of Antibacterial Activity on Plastic Surfaces), equivalent to JISZ2802 (Japanese Test for Antimicrobial Activity and Efficacy)
  - Fungal inert to MIL-T-152B standard
  - RoHS compliant

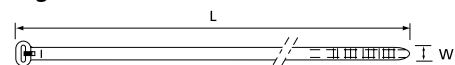


### Ag+ bacteria-resistant cable ties

Cat. n°.	Wire bundle dia. from ... to		Length L		Width W		Min. tensile strength		Std. pkg. [pcs]
	[mm]	[in.]	[mm]	[in.]	[mm]	[in.]	[lb]	[N]	
TY100-18-ANTI	1.5 - 22	0.06 - 0.87	104	4.1	2.4	0.10	18	80	100
TY175-50-ANTI	1.5 - 44	0.06 - 1.73	195	7.7	4.7	0.19	50	222	100
TY400-50-ANTI	1.5 - 102	0.06 - 4.02	363	14.3	4.7	0.19	50	222	100
TY400-120-ANTI	1.5 - 102	0.06 - 4.02	370	14.6	7.6	0.30	120	540	100

Note: Ty-Fast Ag+ bacteria-resistant cable ties provide no antimicrobial inhibitory activity beyond protection of the cable ties themselves. They do not provide protection against specific pathogenic organisms, nor do they prevent growth of bacteria on adjacent or nearby surfaces. The antimicrobial efficacy of the material lasts a minimum of two years from manufacture under normal use conditions.

### Diagram



### Tooling



**ERG50**  
For use with 22mm to 102mm (80N to 540N) Cable ties. See page Voir page C40.