

  
PRODUCT SHEET

# Ty-Rap<sup>®</sup> heat-reactive cable ties



# Ty-Rap® heat-reactive cable ties

Changes color to warn you of potentially dangerous high temperatures.



ABB introduces the latest innovative addition to its line of Ty-Rap high-performance cable ties — Ty-Rap heat-reactive cable ties. These ties change color from their standard green to translucent when in contact with a high-temperature surface, providing visual indication of overheating equipment or a potential skin burn hazard.

To use Ty-Rap heat-reactive cable ties, simply wrap the tie around the surface of the item you wish to monitor, and then hand tighten or use an installation tool to ensure that the tie has complete contact with the surface (insufficient contact may limit color change indication).

A properly installed Ty-Rap heat-reactive cable tie begins to fade in color when the surface temperature reaches 104 °F (40 °C), with full transition to translucent (natural nylon color) at 120 °F (49 °C), indicating that the surface has reached a dangerous temperature for prolonged contact with skin.

## Features

- Changes color from green to translucent when in contact with high-temperature surface
- Efficacy of heat-reactive polypropylene material lasts up to 24 months under normal operating conditions
- Offers all the convenience and performance benefits of standard Ty-Rap cable ties, including the Grip of Steel® type 316 stainless steel locking barb
- Available in three lengths and two tensile strengths
- Choose the ERG50 or ERG120 Ty-Rap cable tie application tool for easy installation

## Applications

Ty-Rap heat-reactive cable ties are ideal for use where visual indication of a hot surface helps identify an unsafe working environment or malfunctioning equipment. They may be secured around any surface with normal operating temperature below 104 °F (40 °C), including:

- Piping
- Electrical circuits
- Boiler room surfaces
- Engine compartments
- Kitchen appliances
- Other applications in which hot surfaces may be a concern

## Specifications

Material	Polypropylene
Operating temperature	-40 °F to 176 °F (-40 °C to 80 °C)
Heat-activation temperature	120 °F ± 6 °F (49 °C ± 3 °C)
Standard color	Green
Heat-transition color	Translucent
Color transition life	1,000 hours above heat-activation temperature
UV resistance	Indoor use only; avoid exposure to UV light
Tensile strength and installation	0.18" wide ties: 30 lbs., ERG50 setting 2-5  0.31" wide ties: 60 lbs., ERG120 setting 3-6

## Ty-Rap heat-reactive cable ties

Catalog no.	GID	Length		Width		Loop range		Loop TS		Pkg. qty.	UPC no.
		in.	mm	in.	mm	in.	mm	lbs.	N		
TYHR525M-5	7TAG009600R0007	7.3	185	0.18	4.6	1.6	41	30	135	100	786210181783
TYHR528M-5	7TAG009600R0008	14.2	360	0.18	4.6	3.5	89	30	135	100	786210181790
TYHR527M-5	7TAG009600R0009	13.4	342	0.27	6.9	3.5	89	60	265	50	786210181806

WARNING: The Ty-Rap heat-reactive cable tie is a heat indicator only. Use appropriate measuring device to verify actual temperature.

CAUTION: Replace the Ty-Rap heat-reactive cable tie upon the first occurrence of any of the following conditions: operating temperature range is exceeded, exposure to UV light, visible fading of standard green color or 24 months.