PRODUCT SHEET

Ty-Rap® heat-reactive cable ties
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

### 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

### 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

### Ty-Rap heat-reactive cable ties

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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.