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PRODUCT BROCHURE

# Ty-Rap<sup>®</sup> high-performance wire management

Designed for solar applications and other harsh environments



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# Ty-Rap® high-performance cable edge clip

## Reduce installation — up to one minute of labor savings per panel

Managing cable on large and small solar projects can be difficult and time consuming. The Ty-Rap high-performance cable edge clips are the perfect solution. These clips can be quickly and easily installed without tools. The unique patented design is completely reusable and can be repositioned for maintenance requirements.

- Quick and easy installation — no tools required
- Lightweight
- Mount up to four (4) #10 AWG solar PV control cables
- Cables can be quickly and easily removed without tools or cutting
- Reusable for ice removal, readjustment or other maintenance
- Supports the cables cleanly and easily through panel rotation, environmental changes and vibration
- Metal-free construction reduces the need for grounding
- Fits frame thickness range 0.060" to 0.120"

### Materials:

- Weather-resistant acetal
  - Material proven to perform over 20 years outdoors
  - Operating temperatures -85 °F to 194 °F (-65 °C to 90 °C)
- Heat-stabilized nylon 6.6
  - Perfect for strength stability in heat of solar applications
  - Operating temperatures -40 °F to 220 °F (-40 °C to 105 °C)





01 90° — Manages cable perpendicular to the frame.



02 U-style — Manages cable parallel to the frame.



03 W-style — Extra capacity cable management for parallel applications.

**Ty-Rap high-performance cable edge clips, weatherable acetal**

Cat no.	Description	Max. cable diameter (in.)	Frame/panel thk. (in.)	Cable capacity	Std. pkg.
TC401	Ty-Rap 90° cable edge clip, weatherable acetal	0.31	0.06–0.12	4	100
TC402	Ty-Rap U-style cable edge clip, weatherable acetal			4	100
TC403	Ty-Rap W-style cable edge clip, weatherable acetal			8	50

Operating temperatures: -85 °F to 194 °F (-65 °F to 90 °C)

**Ty-Rap high-performance cable edge clips, heat-stabilized nylon 6.6**

Cat no.	Description	Max. cable diameter (in.)	Frame/panel thk. (in.)	Cable capacity	Std. pkg.
GD-001-TB	Ty-Rap 90° cable edge clip, heat-stabilized nylon 6.6	0.31	0.06–0.12	4	100
TC412X	Ty-Rap U-style cable edge clip, heat-stabilized nylon 6.6			4	100
TC413X	Ty-Rap W-style cable edge clip, heat-stabilized nylon 6.6			8	50

Operating temperatures: -40 °F to 220 °F (-40 °F to 105 °C)

**Deltec® cable tie and support system**

**Designed to perform a minimum of 20 years outdoors**

- Strap and body: weatherable acetal; offers superior resistance to sunlight, moisture and salt environments
- Locking device: marine-grade, corrosion-resistance copper alloy

- Continuous use temperature: -85 °F to 194 °F (-65 °C to 90 °C)
- Installation temperature: -30 °F to 150 °F (-34 °C to 66 °C)
- Minimum tensile strength: standard 250 lbs. (1,211 N), slim 180 lbs. (820 N)
- Continuous load: 20 lbs. (9.07 kg)



**Deltec strap dispenser on reel**

Cat no.	Description	Tensile strength (lbs./N)	Strap width (in./mm)	Std. pkg.
CSS-50RS	Deltec slim strapping 50-foot roll	180/820	0.38/7.9	1
CSS-50R	Deltec standard strapping 50-foot roll	250/1,112	0.50/12.7	1



**Deltec locking heads**

Cat no.	Description	Strap width (in./mm)	Std. pkg.
CSS-LHS	Deltec slim locking heads	0.38/7.9	25
CSS-LH	Deltec standard locking heads	0.50/12.7	25



**Deltec installation tool**

Cat no.	Description	Std. pkg.
WT3D	Deltec installation tool	1

Additional sizes and accessories available at [www.abb.com/lowvoltage](http://www.abb.com/lowvoltage).

## Ty-Rap® weather-resistant nylon 12 ties

Long life in direct sunlight and chemical environments



Nylon 12 provides very good resistance to ultraviolet light and chemical exposure. Nylon 12 is a lower moisture-absorbing material than nylon 6.6, and the effect of water on properties is much less.

For use in temperatures ranging from -40 °F to 185 °F (-40 °C to 85 °C).

Std. pkg. cat. no.	Bulk pkg. cat. no.	Body width (in./mm)	Length (in./mm)	Max. wire bundle dia. (in./mm)	Tensile strength (lbs./N)	Std. pkg. qty.	Bulk pkg. qty.
TYC525MX	TYC25MX	0.18/4.57	7.31/185.67	1.75/44.45	35/155.70	100	1,000
-	TYC28MX	0.18/4.57	14.20/360.68	4.00/101.60	35/155.70	-	1,000
-	TYC272MX	0.27/6.86	8.00/203.20	2.00/50.80	85/378.10	-	500
TYC527MX	TYC27MX	0.27/6.86	13.20/335.28	3.50/88.90	85/378.10	50	500
-	TYC29MX	0.30/7.62	30.00/762.00	9.00/228.60	85/378.10	-	500