# SOLAR RACKING WIRE MANAGEMENT SOLUTIONS

## QUICK REFERENCE GUIDE

Due to the multitude of wire management products on the market, the experience of choosing a wire management solution can lead to confusion and frustration. Wire management can be one of the most challenging aspects of PV system installations. This quick reference guide is designed to ease the decision-making process and guide the user to the most suitable wire management choices for the full line of PLP PV racking systems.

Within this guide is information on a variety of wire management solutions/products that have been carefully selected. Each has been evaluated, tested, and approved by PLP. The wire management products represented include both PLP and third-party solutions.

## Know the PV Module Rail in Use

PLP manufactures several types of module rails, or rail profiles. The rail type will vary from system to system and is determined by several factors, e.g., site location, size array, module size, weather factors, soil conditions, etc. If you do not know the rail in use for a specific site, contact PLP for assistance. Knowing the rail type is key in utilizing this guide.
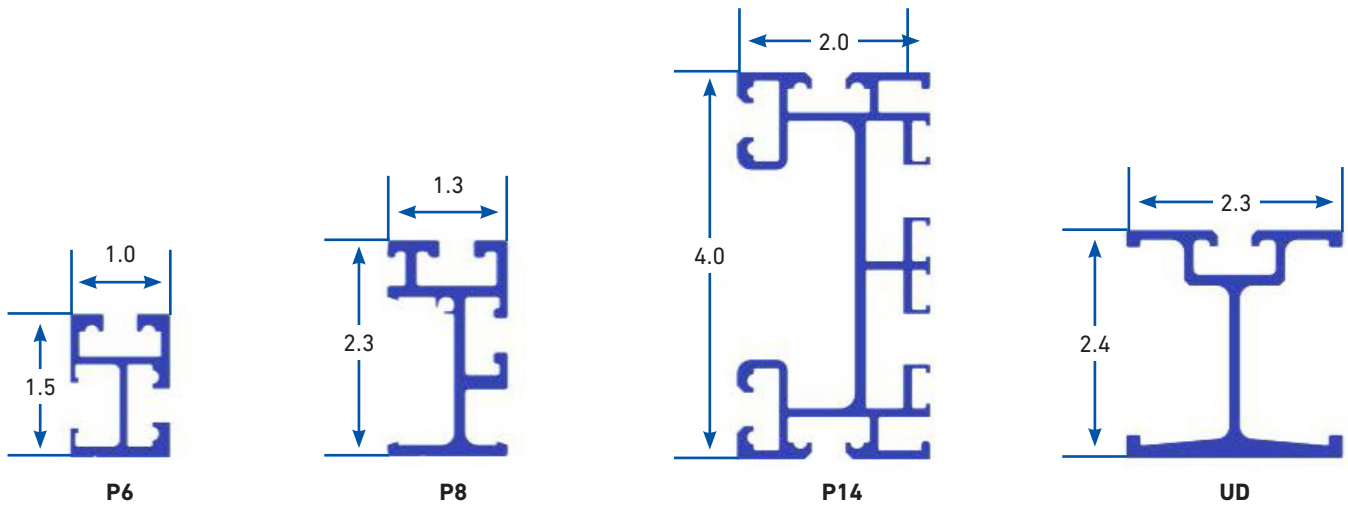
The table below defines the commonly used PV module rails on the full range of PLP racking systems. On the following page there are two diagrams showing each of the rail profiles. The first diagram, "PLP Rail Types," provides basic rail dimensions, and the second diagram, "Wire Fill Capacity," provides theoretical wire fill capacities within each of the rail channels.

The remaining pages are organized by PV module rail type, showing the various wire management solutions for each of the rail types. There are also website addresses/hyperlinks for each of the wire management products.

| | PLP Product/Rack | Acronym | Rail Type(s) |
|---|---|---|---|
| Roof Mount | POWER RAIL™ Mounting System | PRM | P6, P8, P14 |
| Ground Mounts | Multi-Pole Mounts G2 | MPM-G2 | P14 |
| Ground Mounts | POWER PEAK™ Mounting System | PP-AL | UD |

# PLP RAIL TYPES



**P6** — 1.0, 1.5

**P8** — 1.3, 2.3

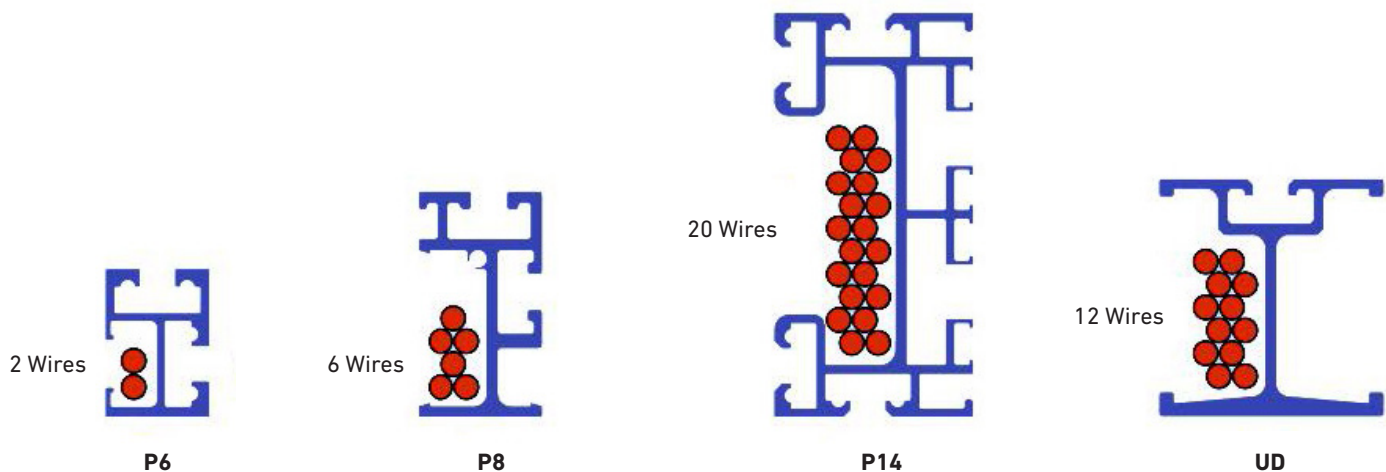**P14** — 2.0, 4.0

**UD** — 2.3, 2.4

# WIRE FILL CAPACITY

Wire size in this example is type 2 #10 AWG 0.30" (7.6 mm) diameter

⚠ **WARNING**

Without exception, wire fill capacities shown are theoretical. Site-specific real-world conditions must be applied and calculated when determining wire fill capacities. Failure to do so could lead to heat build-up, system failure, and severe personal injury or death. Furthermore, failure to perform site-specific calculations and apply those calculations voids the system warranty.



2 Wires — **P6**

6 Wires — **P8**

20 Wires — **P14**

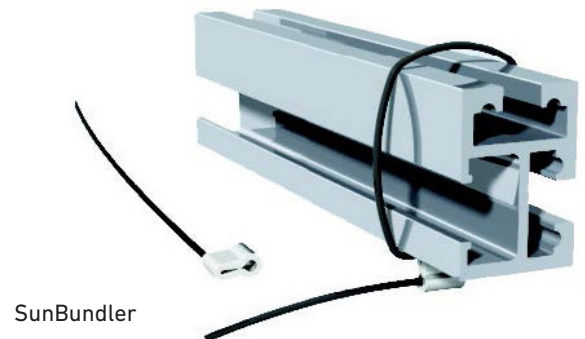12 Wires — **UD**

# P6 RAIL

**Manufacturer:** Heyco

**Description:** SunBundler® nylon coated stainless steel tie wrap

**Installation:** Wrap around rail, feed loose end through lug, take–up cable slack and crimp lug with crimping tool. Can be installed anywhere along rail.

**Available lengths (inches):** 8, 10, 12, 14, 20

**Part Number:** S6408, S6410, S6412, S6414, S6420

**Website:** Heyco.com

SunBundler

# P8 RAIL

**Manufacturer:** Heyco

**Description:** SunBundler® nylon coated stainless steel tie wrap

**Installation:** Wrap around rail, feed loose end through lug, take–up cable slack and crimp lug with crimping tool. Can be installed anywhere along rail.

**Available lengths (inches):** 10, 12, 14, 20

**Part Number:** S6410, S6412, S6414, S6420
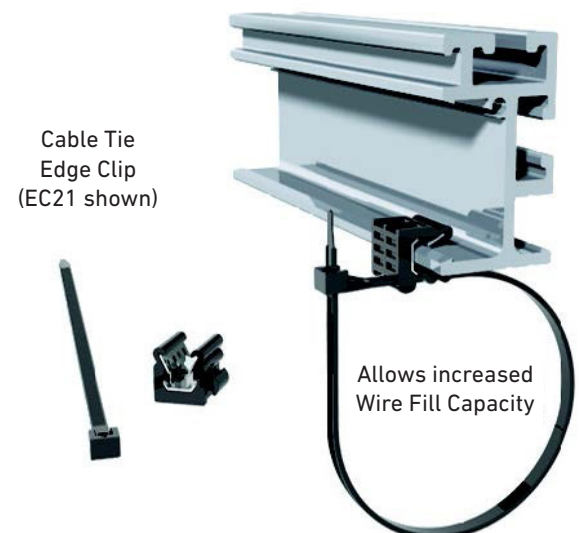
**Website:** Heyco.com

SunBundler

**Manufacturer:** Hellermann-Tyton

**Description:** Cable tie edge clip assembly

**Installation:** No tools required, slips onto rail and locks in place. Can be installed anywhere along rail. There are several models whose variations include orientation of cable tie to edge clip.

**Models:** EC19, EC20, EC22, EC23, EC24

**Website:** Hellermanntyton.com

Cable Tie Edge Clip (EC21 shown)

Allows increased Wire Fill Capacity

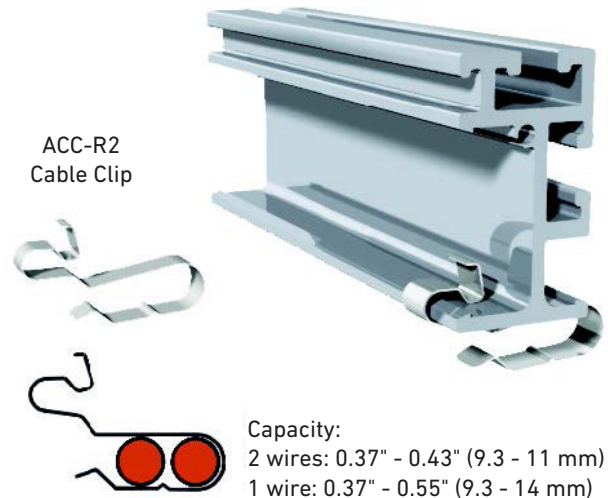# P8 RAIL CONTINUED

**Manufacturer:** Wiley Burndy

**Description:** Acme Cable Clips (ACC) corrosion resistant stainless steel cable clip

**Installation:** No tools required, slips onto rail and locks in place. Can be installed anywhere along rail.

**Model:** ACC-R2

**Part Number:** 30020078

**Website:** we-llc.com

ACC-R2
Cable Clip

Capacity:
2 wires: 0.37" - 0.43" (9.3 - 11 mm)
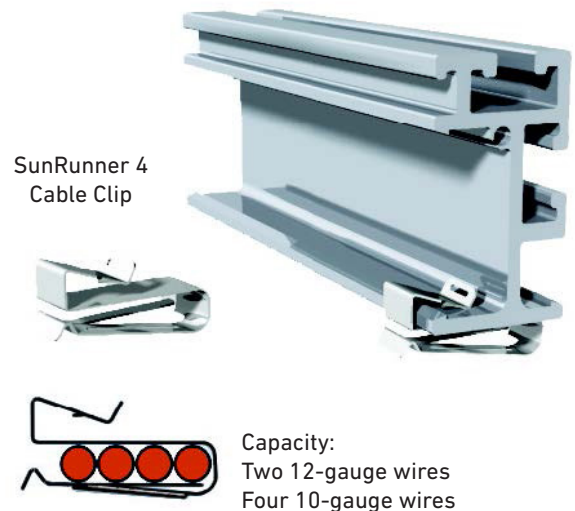1 wire: 0.37" - 0.55" (9.3 - 14 mm)

**Manufacturer:** Heyco

**Description:** SunRunner 4™ corrosion resistant stainless steel cable clip

**Installation:** No tools required, slips onto rail and locks in place. Can be installed anywhere along rail.

**Model:** S6400

**Website:** Heyco.com

SunRunner 4
Cable Clip

Capacity:
Two 12-gauge wires
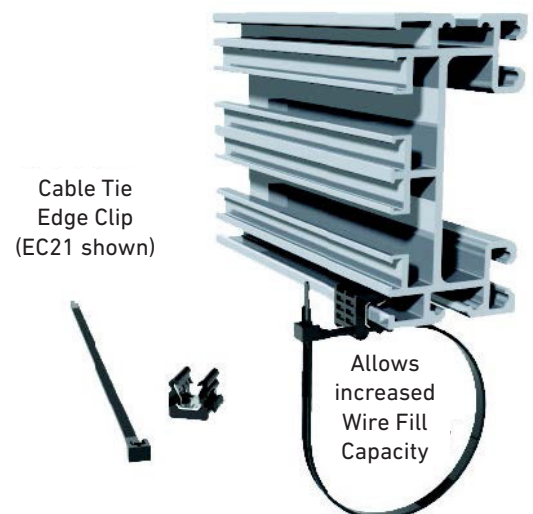Four 10-gauge wires

# P14 RAIL

**Manufacturer:** Hellermann-Tyton

**Description:** Cable tie edge clip assembly

**Installation:** No tools required, slips onto rail and locks in place. Can be installed anywhere along rail. There are several models available variations include orientation of cable tie to Edge Clip.

**Models:** EC19, EC20, EC22, EC23, EC24

**Website:** Hellermanntyton.us

Cable Tie
Edge Clip
(EC21 shown)

Allows increased Wire Fill Capacity

SL-ML-1228-1

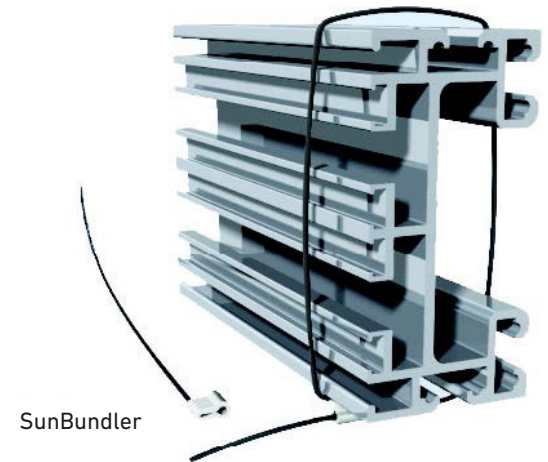## P14 RAIL CONTINUED

**Manufacturer:** Heyco

**Description:** SunBundler® nylon coated stainless steel tie wrap

**Installation:** Wrap around rail, feed loose end through lug, take-up cable slack and crimp lug with crimping tool. Can be installed anywhere along rail.

**Available Lengths (inches):** 14, 20

**Part Number:** S6414, S6420
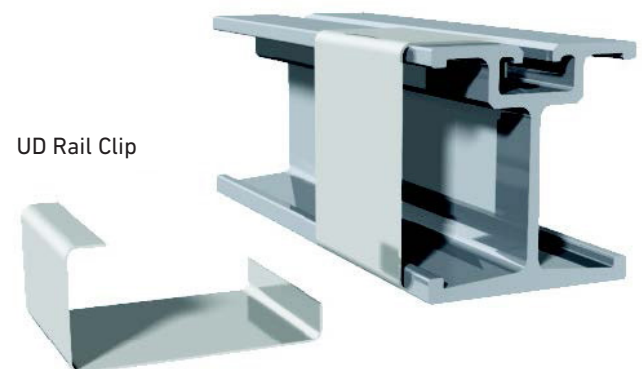
**Website:** Heyco.com



SunBundler

# UD RAIL

**Manufacturer:** Preformed Line Products

**Description:** UD Rail Clip: formed aluminum easily snaps onto rail. Contains and holds wire within the rail cavity.

**Installation:** No tools required, snaps onto rail and locks in place. Can be installed anywhere along rail.

**Website:** plp.com
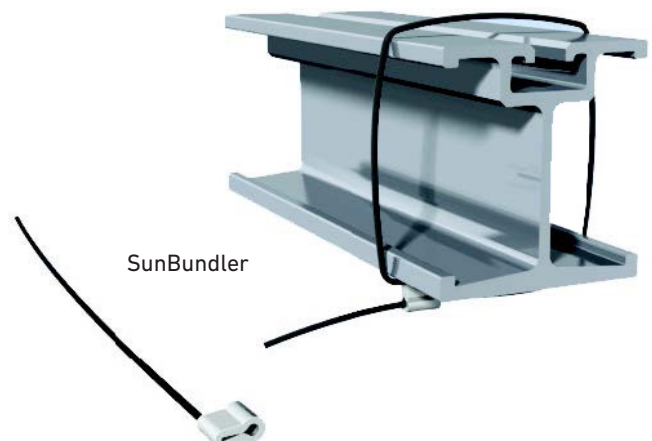


UD Rail Clip

**Manufacturer:** Heyco

**Description:** SunBundler® nylon coated stainless steel tie wrap

**Installation:** Wrap around rail, feed loose end through lug, take-up cable slack and crimp lug with crimping tool. Can be installed anywhere along rail.

**Available lengths (inches):** 12, 14, 20

**Part Number:** S612, S6414, S6420

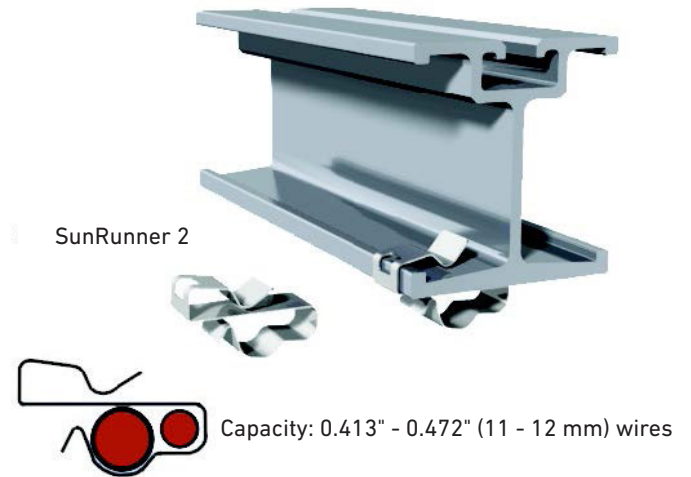**Website:** Heyco.com



SunBundler

# UD RAIL CONTINUED

**Manufacturer:** Heyco

**Description:** SunRunner 2™ corrosion resistant stainless steel cable clip

**Installation:** No tools required, snaps onto rail and locks in place.
Can be installed anywhere along rail.

**Model:** S6400

**Website:** Heyco.com



SunRunner 2

Capacity: 0.413" – 0.472" (11 – 12 mm) wires

**Manufacturer:** Heyco

**Description:** SunRunner 4° corrosion resistant stainless steel cable clip

**Installation:** No tools required, snaps onto rail and locks in place.
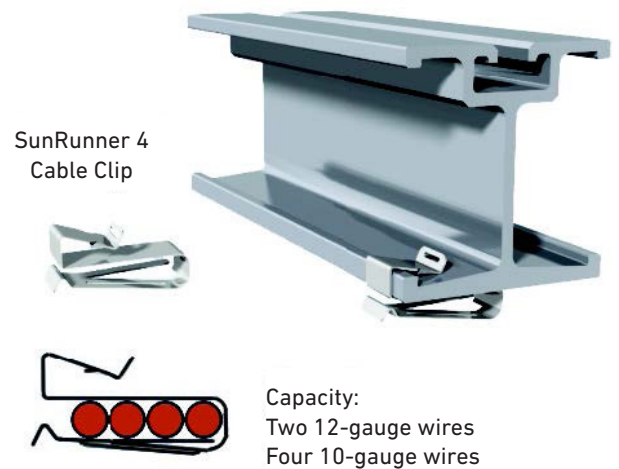Can be installed anywhere along rail.

**Model:** S6400

**Website:** Heyco.com



SunRunner 4
Cable Clip

Capacity:
Two 12-gauge wires
Four 10-gauge wires