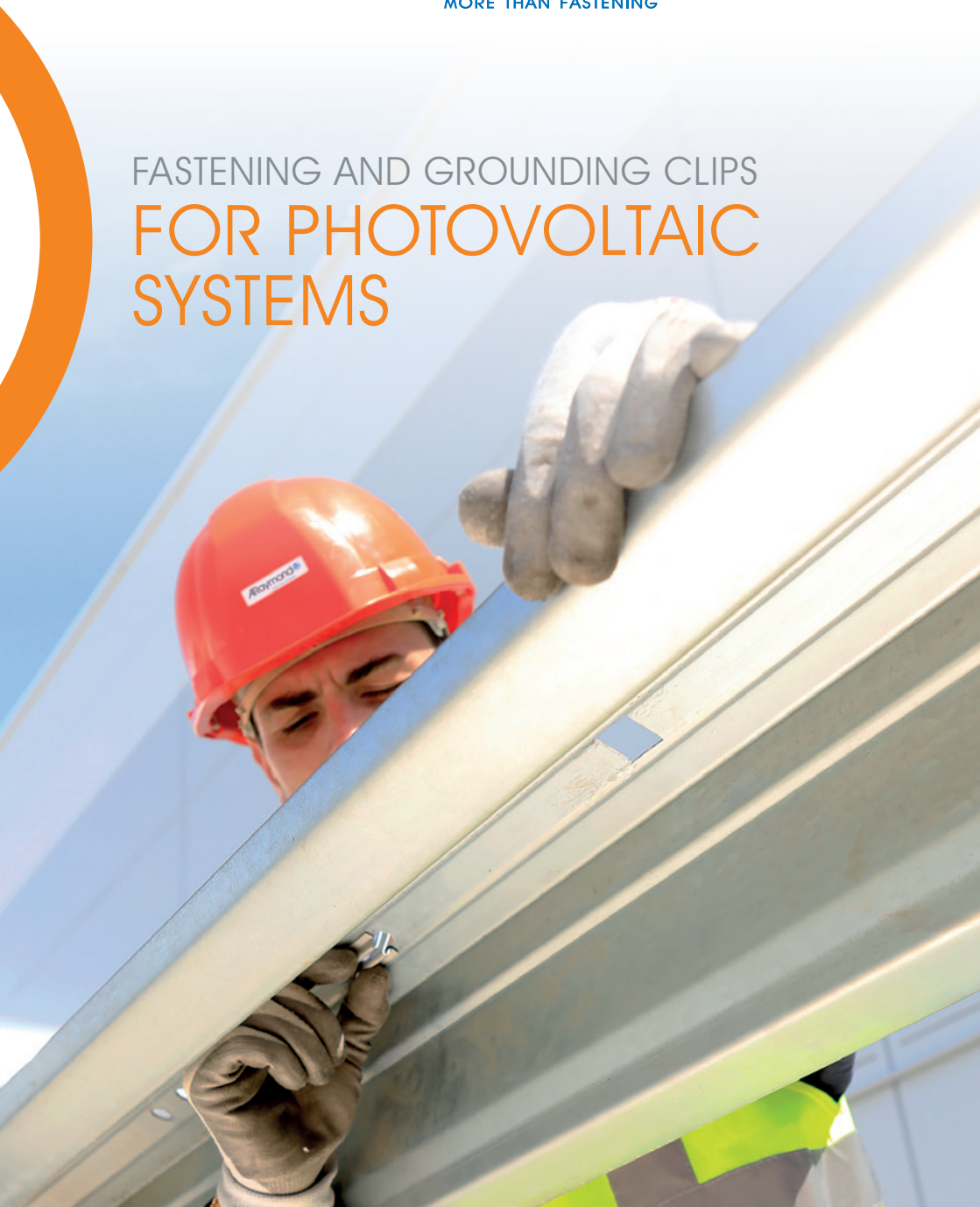



ARaymond 

MORE THAN FASTENING

FASTENING AND GROUNDING CLIPS
FOR PHOTOVOLTAIC
SYSTEMS



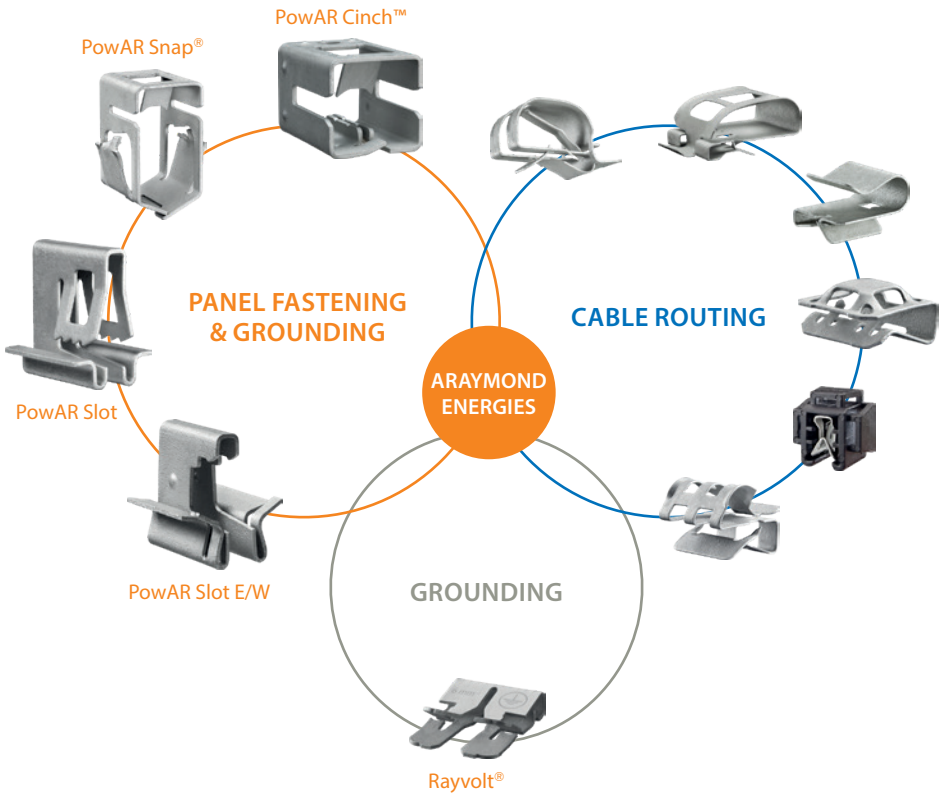


ARaymond believes in the importance of renewable energies for our future and is committed to developing breakthrough technologies in order to make the assembly process **easier, faster, cheaper.**

ARAYMOND ENERGIES

we focus on small, yet vital parts

Our clips allow photovoltaic panels to snap easily into place without the need for labor-intensive screw and bolt systems, significantly **reducing assembly time** and **removing maintenance**, thus making the whole installation **more cost efficient**.



PANEL FASTENING AND GROUNDING CLIPS

Clips work universally, accommodating any framed module.

Module assembly made easy

Quick, cost efficient, and ergonomic installation on site:

- No heavy or bulky tools required
- Safer installation as there is no need to climb onto the modules
- Clips eliminate need for loose componentry, reducing installation time and cost

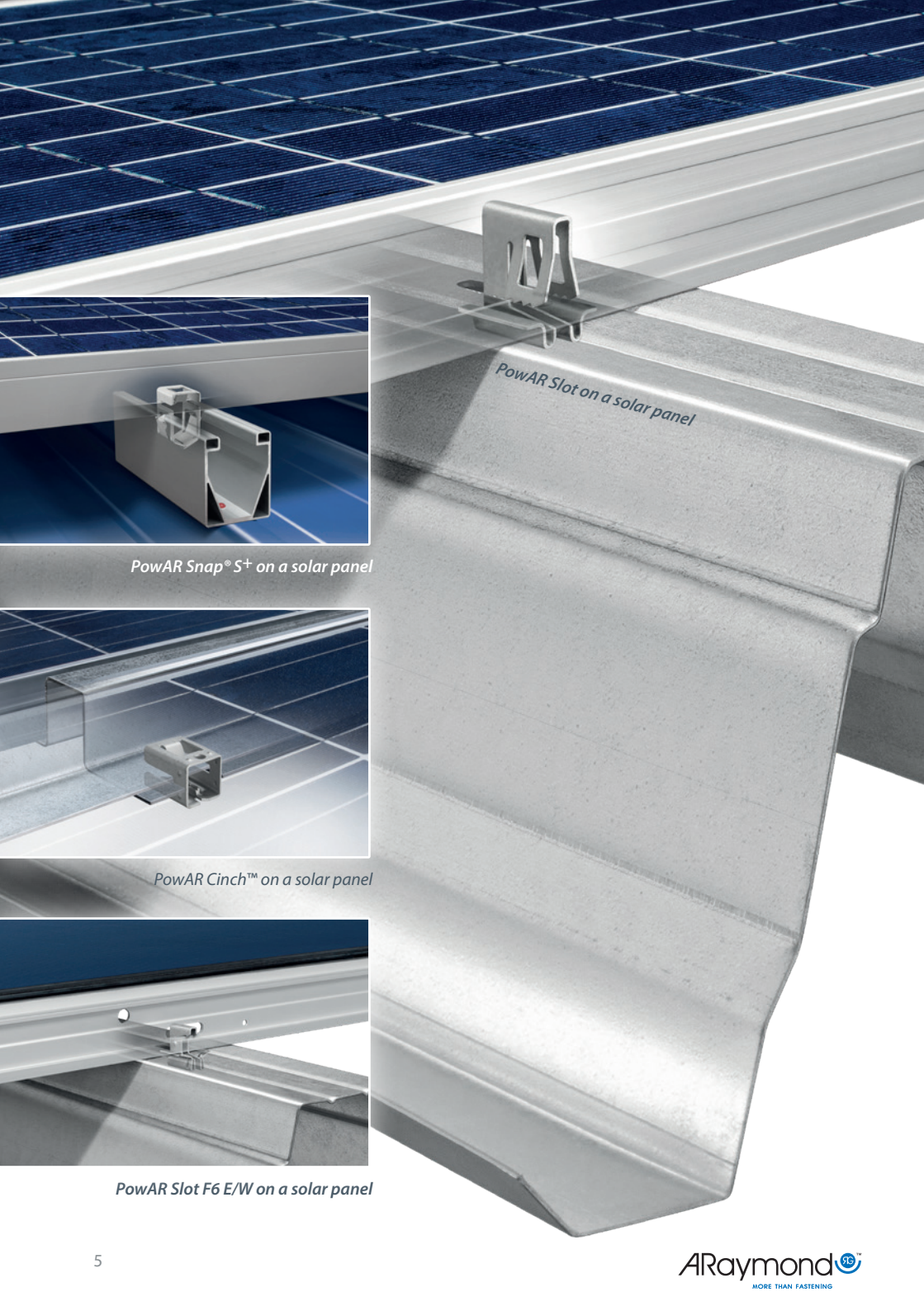
Proven long-term performance

- Secure panel clamping, no loosening of the clips
- Vibration resistance
- Tested in both static and dynamic loading
- No re-torque service requirements
- Theft deterrent features

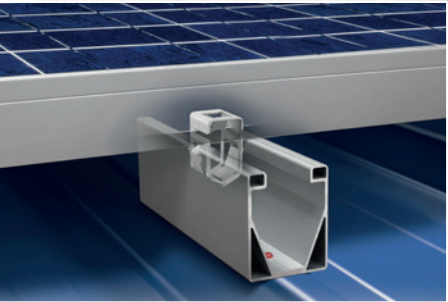
Effectively and simply grounded modules

Clips act as a jumper between modules and rails, making the frame the medium for the system bonding/grounding path.

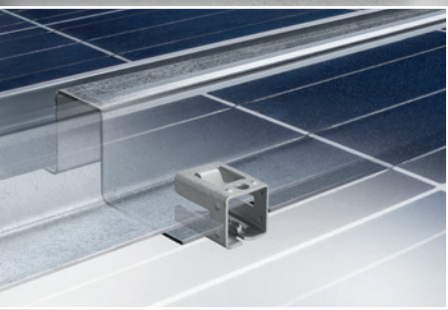
ARAYMOND PRODUCTS APPLICATIONS	 PowAR Cinch™	 PowAR Snap® S+	 PowAR Slot	 PowAR Slot E/W (for first solar series 6)
GROUND MOUNT	☆☆	☆☆	☆☆☆	☆☆☆
TRACKER	☆☆☆			
TILT ROOFTOP		☆☆☆	☆	
CARPORT	☆☆	☆		



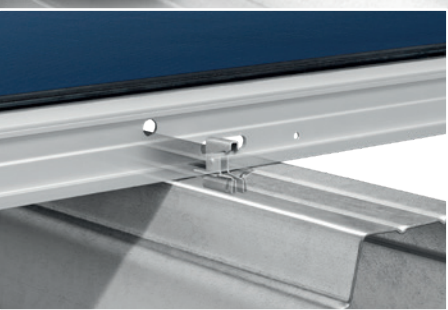
PowAR Slot on a solar panel



PowAR Snap® S+ on a solar panel



PowAR Cinch™ on a solar panel

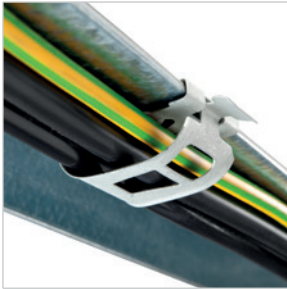


PowAR Slot F6 E/W on a solar panel

CABLE MANAGEMENT CLIPS

CABLE QUANTITY	ONE DIRECTION		MULTIDIRECTIONAL (with cable straps)
	PARALLEL TO THE EDGE	PERPENDICULAR TO THE EDGE	
ONE CABLE	 228185	 018690	 019659
MULTIPLE CABLES	 208738	 220917	 208738

Our dedicated selection of **robust metal and plastic** clips, cable straps and modular adapters for attaching cables over, along or on the side of module edges or rail structures.

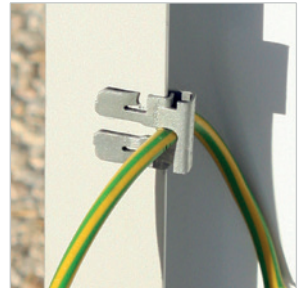
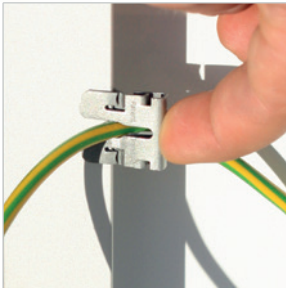


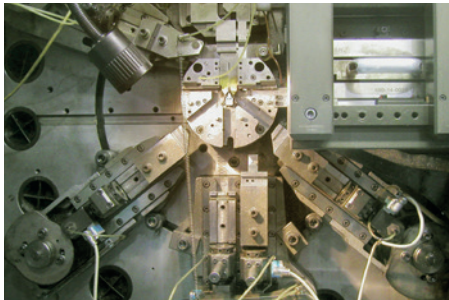
GROUNDING CLIP

Our **Rayvolt®** grounding clip enables stripping, connecting electrically and fastening the cable in **one easy, hassle-free step.**



Position the clip freely on the frame. It fits all aluminum frame panels ranging from 1.5 mm (0 1/16") to 2.5 mm (0 3/32") in thickness. Made for multi-strand flexible 6 mm² (0 15/64") green yellow cables.





ARAYMOND'S METAL CLIP-MAKING PROCESS

Raw material

All metal clips are made of C67S Carbon steel.

Stamping and bending

All clips are stamped and bent in one of our production lines.

Heat treatment

The clips are heated and austempered until 1200 MPa yield strength is achieved.

Surface coating

The clips are coated multiple times in a Zinc-Aluminum flaking bath. The aluminum-rich topcoat prevents any galvanic corrosion between the anodized module frame and the clip. Our surface coating is one of the most resistant finishes on fasteners used in the automotive industry.



ARAYMOND WORLDWIDE

International expert
in fastening and assembly solutions.



We bring 150 years of experience
in **product innovation** and **manufacturing** to provide our customers
with **ergonomic, easy and quick solutions**
for any assembly challenge.



Slide and Clip structure with PowAR Cinch™ - FRANCE



Rooftop structure with PowAR Snap® - SOUTH AFRICA



Slide and Clip structure with PowAR Cinch™ - AUSTRALIA

HEADQUARTERS FRANCE

ARAYMOND ENERGIES SAS
123 rue Hilaire de Chardonnet
38000 Grenoble
FRANCE
Tel.: +33 456 52 61 60

IN THE WORLD

EMEA

contact@araymond-energies.com

China

contact.cn@araymond-energies.com

North America

contact.us@araymond-energies.com

India

contact.in@araymond-energies.com

South America

contact.br@araymond-energies.com

South East Asia & Pacific

contact@araymond-energies.com

©*ARaymond Energies SAS (RCS Grenoble 798 705 604) - ZI Technisud 123 rue Hilaire de Chardonnet - 38100 Grenoble - FRANCE has designed this brochure.

**"ARaymond Network" means a network of companies which have a license of use of ARAYMOND™. This brochure is provided for information purposes only and does not constitute an offer or an agreement. ARaymond Energies SAS makes no warranty or representation whatsoever, express or implied, including but not limited to the accuracy, reliability, novelty, completeness, fit for a particular purpose or merchantability of the information contained in it. If you need further information, please contact ARaymond Energies SAS.

EU-2019-3107-EN - ©Raygroup Communication. Photo Credit: ©ARaymond Network, ©Ronan Kerloch.