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.
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.
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

<table>
<thead>
<tr>
<th>CABLE QUANTITY</th>
<th>ONE DIRECTION</th>
<th></th>
<th>MULTIDIRECTIONAL (with cable straps)</th>
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<tbody>
<tr>
<td></td>
<td>PARALLEL TO THE EDGE</td>
<td>PERPENDICULAR TO THE EDGE</td>
<td></td>
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<tr>
<td>ONE CABLE</td>
<td>228185</td>
<td>018690</td>
<td>019659</td>
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<tr>
<td>MULTIPLE CABLES</td>
<td>228187</td>
<td>220917</td>
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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.
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.
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

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