

381167152	ASSEMBLY INSTRUCTION	
Valid from: 01.12.2025	EPIC® BATTERY 120RB7PC02	

1 Product Inspection

- Confirm that the product parts are complete.

Please read the instruction manual before installing and using the product.

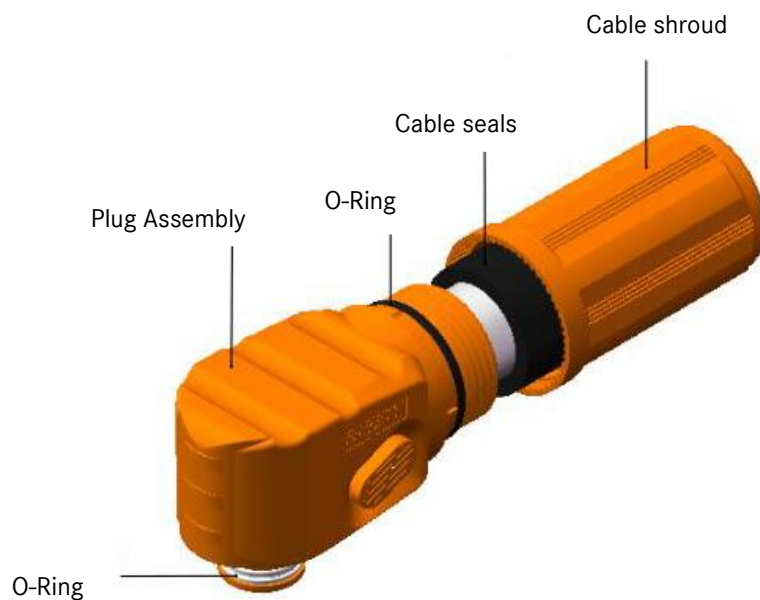


Figure 1. Product packaging contents

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2 Instruction

2.1 Threading

Put the cable seal and cable tail cover onto the wires, see Figure 2.
When threading the cable into Cable seal, make sure that the end with the concave groove is close to the tail cover.

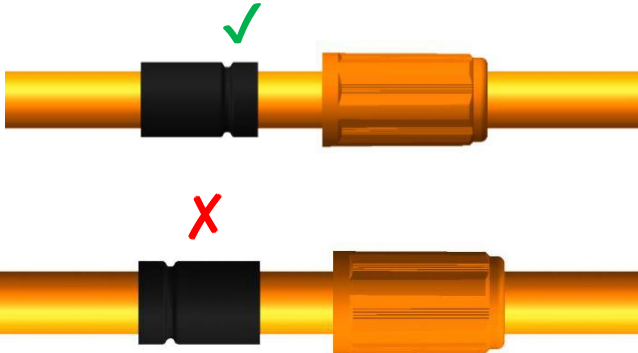


Figure 2. Pre-installation processing

2.2 Wire stripping

Use appropriate tools or wire stripping equipment to strip $15 \pm 1\text{mm}$ of the wire sheath, see Figure 3

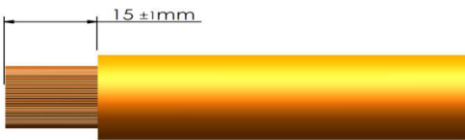


Figure 3. Wire stripping

2.3 Wire crimping

Insert the stripped wire conductor into the wire ear of the plug. The exposed wire conductor should not exceed 1mm. The conductor should not be broken or scattered. See Figure 4.

The exposed part of the wire conductor should not exceed 1 mm.

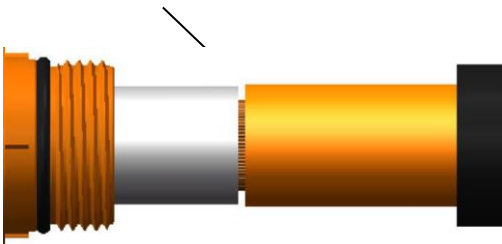


Figure 4. Wire conductor assembly

Use special crimping equipment or hydraulic pliers for crimping, and determine the appropriate crimping parameters or crimping modules according to the actual wire specifications.

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The crimping position is $1.5\text{mm} \pm 0.5\text{mm}$ from the end of the wire ear

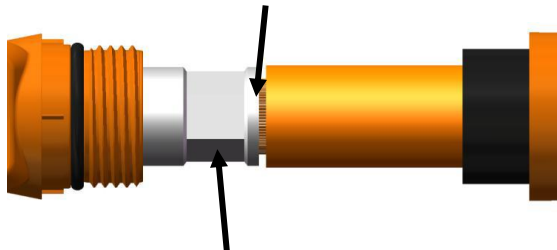


Figure 5.

Crimp width $8 \pm 0.5\text{mm}$ (16 mm^2 ; 25 mm^2)
Crimp width $10 \pm 0.5\text{mm}$ (50 mm^2 ; 70 mm^2)
Crimp width $12 \pm 0.5\text{mm}$ (95 mm^2 ; 120 mm^2)

The wire ear crimping cross section should be hexagonal, as shown in Figure 6. The cross section compression ratio is 70% - 80%, and the effect is shown in Figure 5. The pull-off force of the wire after crimping meets the requirements of Table 1.



Figure 6. Crimp cross-sectional shape.

Table 1 Wire Crimp Compliance

Wire Specifications[mm ²]	Applicable wire outer diameter	Pull-off force after crimping	Crimp width [mm]
16 mm ²	7,5 mm....8,5 mm	≥ 500 N	8±0.5mm
25 mm ²	8,5 mm....9,5 mm	≥ 700 N	8±0.5mm
50 mm ²	13 mm.... 14 mm	≥ 1100 N	10±0.5mm
70 mm ²	14,5 mm.... 15,5 mm	≥ 1300 N	10±0.5mm
95 mm ²	17 mm.... 18 mm	≥ 1700 N	12±0.5mm
120 mm ²	19 mm....20,5 mm	≥ 2200 N	12±0.5mm

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2.4 Tighten the tail cover

Tighten the cable tail cover until the cable tail cover fits the plug body, see Figure 7.

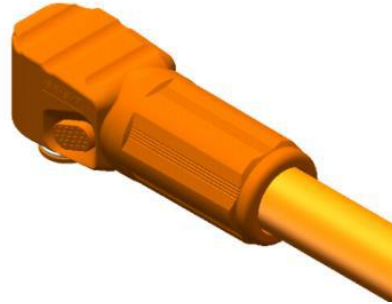


Figure 7. Plug assembly completed

3 Precautions

3.1 The wire crimping should be completed in one time. Multiple crimping and irregular crimping are strictly prohibited, which will affect the crimping strength.

3.2 The selected wire specification must match the product to ensure the product's electrical performance and crimping strength.

3.3 The product should not be used in excess of the operating temperature and environmental requirements specified for the product.

3.4 The protection performance index of the product is based on the premise that the product is correctly inserted in place, otherwise it may not be met.

3.5 This product cannot be used in conjunction with other manufacturers' products. If you use brute force, the product will be damaged.

3.6 This product should only be used with cables with allowed operating temperature above 90°C.

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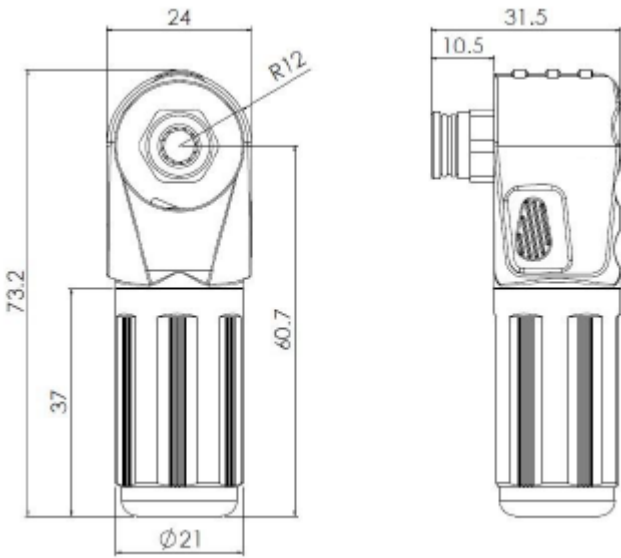
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Product Variation

Article Number	Description of the article	Current [A]	Contact	Color coding
381167152	EPIC BATTERY 120RB7PC02	120	female	black
381167154	EPIC BATTERY 120HR7PC02	120	female	red
381167156	EPIC BATTERY 120HO7PC02	120	female	orange
381167158	EPIC BATTERY 250RB7PC03	250	female	black
381167160	EPIC BATTERY 250HR7PC03	250	female	red
381167162	EPIC BATTERY 250HO7PC03	250	female	orange
381167164	EPIC BATTERY 350RB7PC02	350	female	Black
381167166	EPIC BATTERY 350HR7PC02	350	female	red
381167168	EPIC BATTERY 350HO7PC02	350	female	orange

Technical Drawings

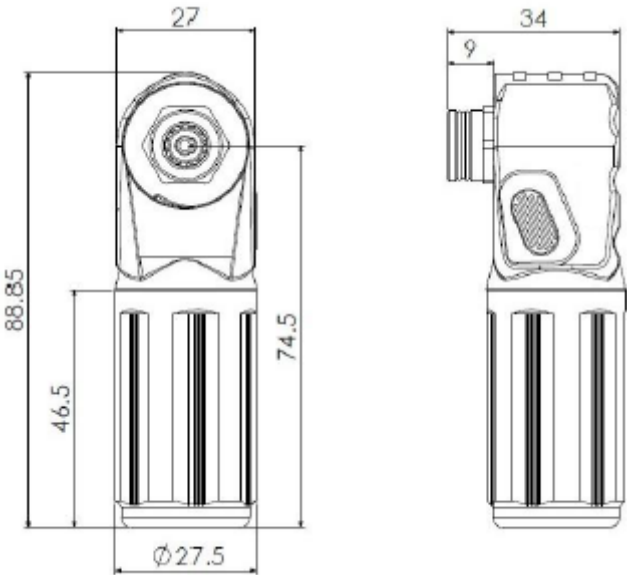
120 A Energy storage connector, plug



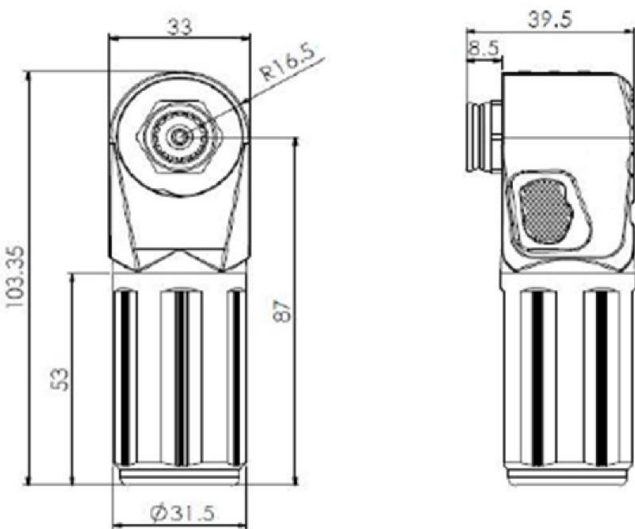
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250 A Energy storage connector, plug



350 A Energy storage connector, plug



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Industrial machinery and plant engineering



Mechanical resistance



Robust



Waterproof



Good chemical resistance



Corrosion-resistant



Maximum vibration protection



Short assembly time



Space requirement



Wind Energy

Remark

Photographs are not to scale and do not represent detailed images of the respective products.

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