SOLARLOK PV EDGE DECENTRALIZED JUNCTION BOX

TE Connectivity's (TE) SOLARLOK PV Edge decentralized junction box is the first clamping and non-potting junction box in the market using the edge as a relevant position for the mounting without hole drilling. The flaps (available in different shoulder heights) protect the foils and the user so it is a pure IEC & UL approved 1500V solution. Due to a clamping and non-potted design, the installation is extremely quick and no curing time delay of >6hrs applies.



Applications

- **Building integrated photovoltaics (BIPV) panels**
- **Bifacial solar panels**
- **Half cell solar panel**

Electrical

- **Rated Current:** 15A standard version
17A special version
- **Withstanding Voltage:** 1500V DC (UL)
1500V DC (TUV/IEC)

Mechanical

- **Temperature Range:** -40 to +115ºC

Specifications

- **Product Specification:** 108-32122
- **Application Specification:** 114-32157

Materials - Cover and Base Housing

- **Polyphenyl ethers (PPE)**
- **Polystyrene (PS)**

Standards

- **1500V UL approved per UL3703**
- **1500V TUV approved per IEC62790**

Benefits

- Quick installation time with a line and no potting necessary
- Reliability is increased with no holes in the panels that can cause damage
- Better heat transfer in case of shading with diode in separate compartment
- Increase power handling by 2A with thermal pad design
- Reduce foil installation time with the lid and base angled (shaped) design
- Available in E-W and N-S rail directions to cover all possible module layouts
- Provides waterproof protection and is rated IP68 (1 m / 24 hours)
- Use of vent for humidity control
- Includes integrated PV4-S interface into the junction box

Product Selection Information



Glass-Glass Edge Mount Application with Flap

Foil Orientation	Used Clip	Flap	Fixing Tape	Left Box minus coded (male interface)	Center Box (no interface)	Right Box plus coded (female interface)
North - South	S-Clip	Standard	No	2306314-2	2306314-5	2306314-1
			Yes	**1-2306314-2***	**1-2306314-5***	**1-2306314-1***
		Large	No	2307520-2	2307520-5	2307520-1
			Yes	1-2307520-2	1-2307520-5	1-2307520-1
	Omega-Clip	Standard	No	2306316-2	2306316-5	2306316-1
			Yes	1-2306316-2	1-2306316-5	1-2306316-1
		Large	No	2307521-2	2307521-5	2307521-1
			Yes	1-2307521-2	1-2307521-5	1-2307521-1

Traditional Mid-Panel Application

Foil Orientation	Used Clip	Flap	Fixing Tape	Left Box minus coded (male interface)	Center Box (no interface)	Right Box plus coded (female interface)
East – West	S-Clip	No	No	4-2306315-2	4-2306315-5	4-2306315-1
			Yes	**5-2306315-2***	**5-2306315-5***	**5-2306315-1***
	Omega-Clip	No	No	4-2306317-2	4-2306317-5	4-2306317-1
			Yes	5-2306317-2	5-2306317-5	5-2306317-1

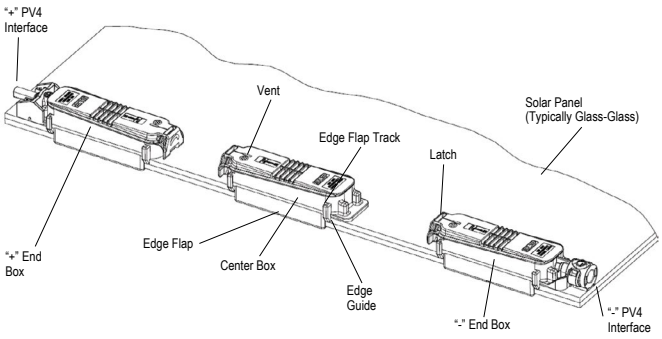
***PREFERRED PART NUMBERS**

1500V PV4-S cable jumpers (4mm²/AWG12)

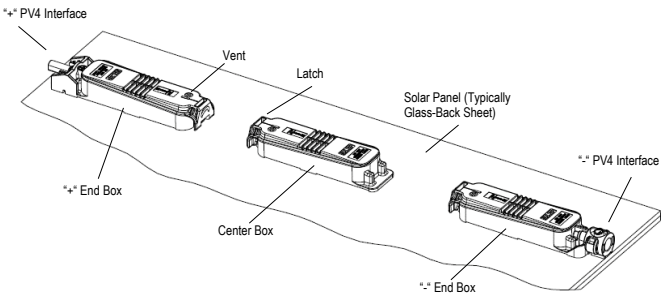
Description	Size (mm)	Part Number
PV4-S Male to Female Cable Jumpers	300	2213759-1
PV4-S Male to Female Cable Jumpers	500	2213759-3
PV4-S Male to Female Cable Jumpers	1000	2213759-8



Glass-Glass Edge Mount Application with Flap



Traditional Mid-Panel Application



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USA: +1 (800) 522-6752
Canada: +1 (905) 475-6222
Mexico: +52 (0) 55-1106-0800
Latin/S. America: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999
UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
The Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015