

# CONNECTOR PORTFOLIO

Stäubli - JinkoSolar - Trina Solar



## ABOUT CONNECTORS

### What is a connector?

The connector is the link between the solar panels and between the solar panel and the inverter. The connectors therefore process direct current (DC).

### What do you need for a complete string?

A set of connectors is required, consisting of a male and female connector. The metal pin that goes into the inside of the connector determines whether the connector is male or female. The narrow metal pin is the "male" and the wide pin is the "female" connector.



## RISKS



High risk for (partial) connector failures



High service / maintenance and spare part costs



Hotspots and fires in PV systems

## ATTENTION!

The logic with connectors is that the small pin goes into the wide pin. This is exactly the opposite of how the plastic casings look like and what you expect in terms male and female.



# ASSEMBLING CONNECTORS

Using the correct connectors is extremely important. Research has shown that most fires in PV systems are caused by the connectors - improper use or combination of connectors.

## Roadmap for assembling connectors:

1. Only use connectors of the same brand & type
2. Use the right solar cable
3. Use the correct crimping tool
4. Use the suitable key for watertight connection



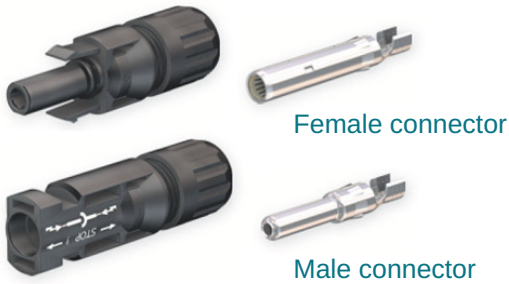
## TYPE CONNECTORS AT PVO

Manufacturer	Type	When to use
Stäubli	MC4	1000V solar panels
	MC4-EVO2	1500V solar panels
JinkoSolar	JK03	If indicated with the JinkoSolar panels, otherwise Stäubli connectors are used with JinkoSolar panels.
Trina Solar	TS4	Always used by Trina Solar solar panels

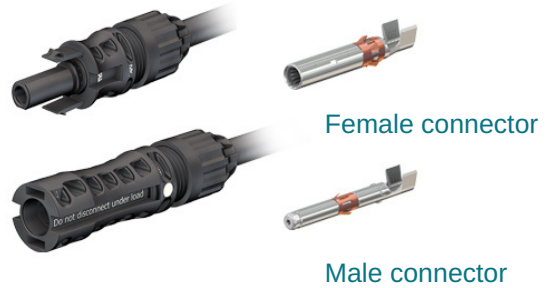


# FEATURE

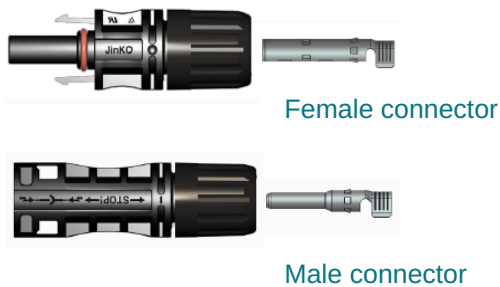
## STÄUBLI MC4



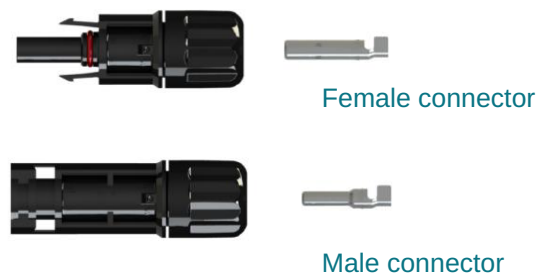
## STÄUBLI MC4-EVO2



## JINKOSOLAR JK03

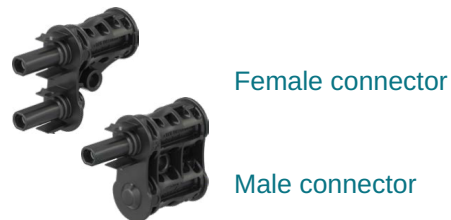


## TRINA SOLAR TS4



### Y-Connectors

In some cases it is necessary to split 1 cable to 2 cables with the same connectors at all ends. Then Y-connectors can be used, or in other words Y-plugs. PVO has the Y-plugs from Stäubli in its range: Branch Socket & Branch Plug MC4 and Branch connector MC4-EVO2.



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