

## MC4 Connectors For Solar PV



Price: CAD \$1.50 - CAD \$2.99

**SKU:** MC4-CONNECTOR

**Product Categories:** [MC4 PV System DC](#), [Connectors](#), [Shop](#), [Wiring & BOS](#)

**Product Tags:** [canada](#), [connector](#), [female MC4 connector](#), [locking](#), [male](#), [male mc4 connector](#), [mc4](#), [mc4 canada](#), [mc4 connector](#), [mc4 male](#), [multi-contact](#), [pv](#), [pv connector](#), [PV Wire](#), [solar](#), [solar connector](#), [solar connectors](#), [wire](#)

**Product Page:** <https://www.modernoutpost.com/product/mc4-pv-connectors/>

### Product Variants

- MC4 Connectors For Solar PV - Set (Male & Female Housing & Contacts) ( )
- MC4 Connectors For Solar PV - Male (Housing & Contact) ( )
- MC4 Connectors For Solar PV - Female (Housing & Contact) ( )

## Product Summary

These are the Staubli Multi Contact MC4 connectors for solar PV modules and systems. **MC4 connectors** are single-contact electrical connectors commonly used for connecting solar panels.

## Product Description

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- MC4 connector housing and contact crimp barrel (male & female are available in the order form, or as a set) - Sized to work with PV wire #10 & #12 - Requires use of a crimping tool specifically for MC4 connectors (or one that forms a curled 'W'. - Standard notch-style crimpers will not work.

Which one is which?

The female housing has the male contact, and the male housing has the female contact pin.

Normally, the positive lead coming from a solar panel is the male housing (female connector inside).

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What is an MC4 Connector?

I'll let Wikipedia explain...

**MC4 connectors** are single-contact electrical connectors commonly used for connecting solar panels. The MC in MC4 stands for the manufacturer Multi-Contact (now Stäubli Electrical Connectors) and the 4 for the 4 mm diameter contact pin. MC4s allow *strings* of panels to be easily constructed by pushing the connectors from adjacent panels together by hand, but require a tool to disconnect them to

ensure they do not accidentally disconnect when the cables are pulled. The MC4 and compatible products are universal in the solar market today, equipping almost all solar panels produced since about 2011. Originally rated for 600 V, newer versions are rated at 1500 V, which allows longer strings to be created.

The MC4 system consists of a plug and socket design. The plugs and sockets are inside plastic shells that appear to be the opposite gender - the plug is inside a cylindrical shell that looks like a female connector but is referred to as male, and the socket is inside a square probe that looks male but is electrically female. The female connector has two plastic fingers that have to be pressed toward the central probe slightly to insert into holes in the front of the male connector. When the two are pushed together, the fingers slide down the holes until they reach a notch in the side of the male connector, where they pop outward to lock the two together. For a proper seal, MC4s must be used with cable of the correct diameter. The cable is normally double-insulated (insulation plus black sheath) and UV resistant (most cables deteriorate if used outdoors without protection from sunlight). Connectors are typically attached by crimping, though soldering is also possible.

The MC4 connector is UL rated at 20 A and 600 V maximum, depending on the conductor size used. Standards efforts in Europe also allow 1000 V versions.

## Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: .7 kg
- Part: Set (Male & Female Housing & Contacts), Male (Housing & Contact), Female (Housing & Contact)

## Product Gallery



