Solar MC4 Connector



MC4 Connector MC4 connector is a single-contact electrical connector commonly used for solar connecting, rated for 1000V. The newer versions are rated at 1500V, which allows longer strings to be created. They are divided into wire ends and board ends. Generally speaking, MC4 refers to wire ends.

MC4 is composed of metal parts and insulating parts. After the MC4 and the cable are connected, it needs to be tested. Under normal circumstances, the resistance is zero, and it will not break if you pull it hard with both hands.



male pin female pin

male famale



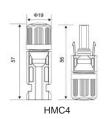


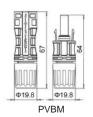
MC4 Connector Usually sold as a set(male&female), you can also purchase the shell and pin separately.

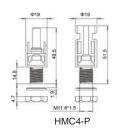
Features:

- Simple on-site processing
- Accommodates PV cable with different insulation diameters
- Mating safety provided by keyed housings
- Multiple plugging and unplugging cycles
- · High current carrying capacity

Code	Sepc.
HMC4	30A 1000V 45A 1000V
PVBM	30A 1500V 45A 1500V
HMC4-P	30A 1000V









HMC4/PVBM 30A Pin(Copper, tin-plated)



HMC4/PVBM45A Pin(Copper,silver-plated)



HMC4-P 30A Pin(Copper, tin-plated)

Technical Data:

- Connector system: 04mm
- Rated voltage:1000VDC,1500VDC
- Rated current: 30A,45A(2.5-10mm2)
- Test voltage: 6KV(50HZ,1min.)
- Ambient temperature range: 40°C...+90°C
- Upper limiting temperature: +105°C
- Degree of protection: IP2X/IP67
- Comtact resistance of plug connectors: $0.5 \text{m}\Omega$
- Safety class:II
- Contact material: Copper, tin-plated(2.5-6mm2), sliver-plated(10mm2)
- Insulation material: PPO
- Locking system: Snap-in
- Flame class:UL-94-V0

Solar MC4 T Branch Connector



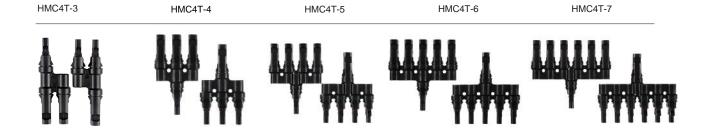
MC4 T Branch Connector MC4 branch connector is compatible with 2.5mm2,4mm2 and 6mm2 in solar connection projects. Connecting solar panels in series or parallel quickly and reliably connects the solar lines to the photovoltaic system(solar panels,converters).



HMC4T MC4 T Branch Connector

Technical Data:

- Pin Dimensions: 04mm
- Rated voltage:1000VDC
- Rated current:30A
- Test voltage: 6KV(50HZ,1min.)
- Ambient temperature range: 40°C...+90°C
- Degree of protection: IP67
- Comtact resistance of plug connectors: $< 0.5 m_{\Omega}$
- Safety class:II
- Contact material: Copper, tin-plated
- Insulation material: PPO
- Locking system: Snap-in
- Flame class:UL-94-V0



Solar MC4 Y Branch Connector



MC4 Y Branch Connector MC4 Y branch connector makes it parallel wire PV modules with multi-contact out put cables.

They are rated for a maximum current of 45 A and a maximum voltage of 1500 VDC.



HMC4Y MC4 Y Branch Connector (45A,1500V needs to be customized.)

Technical Data:

- Pin Dimensions: \$\psi\$4mm
- Rated voltage:1000VDC,1500VDC
- Rated current:30A, 45A
- Test voltage: 6KV(50HZ,1min.)
- Ambient temperature range: 40°C...+90°C
- Degree of protection: IP67
- Upper limiting temperature: +105°C
- Comtact resistance of plug connectors: $< 0.5 m\Omega$
- Safety class:II
- Contact material: Copper, tin-plated
- Insulation material: PC/PA
- Locking system: Snap-in
- Flame class:UL-94-V0

HMC4Y-3 HMC4Y-4 HMC4Y-5







Solar MC4 Fuse Connector



MC4 Fuse Connector MC4 fuse connectors are specifically designed to protect photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).



MC4 Fuse Connector

Code	Sepc. 30A 1000V	
HMC4F		
HMC4F	30A 1500V	

Technical Data:

- Connector system: 04mm
- Rated voltage:1000VDC,1500VDC
- Rated current:10A,15A,20A,30A
- Test voltage: 6KV(50HZ,1min.)
- Ambient temperature range: 40°C...+90°C
- Upper limiting temperature: +105°C
- Degree of protection: IP2X/IP67
- Comtact resistance of plug connectors: $0.5 m\Omega$
- Safety class:II
- Contact material: Copper, tin-plated
- Insulation material: PPO
- Locking system: Snap-in
- Flame class:UL-94-V0

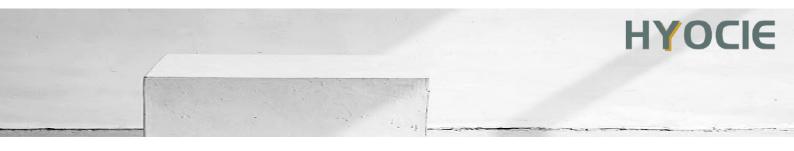
HMC4F 1000V



HMC4F 1500V



Solar MC4 Diode Connector



MC4 Diode Connector When solar cell modules are connected in series to form a square cell array, it is necessary to connect an MC4 diode connector antiparallel to the positive and negative output terminals of each cell panel. The role of the diode at this time is to prevent a certain element or a certain part of the element in the square array from being blocked or malfunctioning to stop generating electricity. The component's bypass diode is forward-biased, causing the diode to conduct. The working current of the component string bypasses the faulty component and flows through the diode without affecting the power generation of other normal components. At the same time, it protects the bypass components from damage.



MC4 Diode Connector

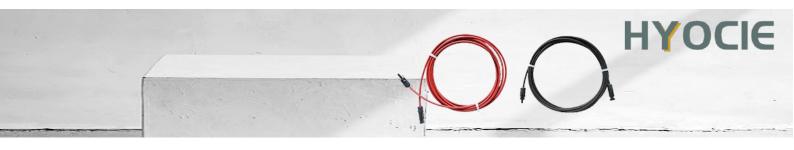
Code	Sepc.
HMC4D	20A 1000V

Technical Data:

- Connector system:
 Ф4mm
- Rated voltage:1000VDC
- Rated current:10A,15A,20A
- Test voltage: 6KV(50HZ,1min.)
- Ambient temperature range: 40°C...+90°C
- Upper limiting temperature: +105°C
- Degree of protection: IP2X/IP67
- Comtact resistance of plug connectors: 0.5mΩ
- Safety class:II
- Contact material: Copper, tin-plated
- Insulation material: PPO
- Locking system: Snap-in
- Flame class:UL-94-V0



Solar MC4 Extension Cable



MC4 Extension Cable Solar Extension Cable is a solar cable complete with fitted MC4 connectors. Used in photovoltaic power generation and solar systems to interconnect solar panels and electrical components in the photovoltaic system.



Rated voltage	1000V/1500V	1000V/1500V	1000V/1500V
Length	customized	customized	customized
Outer diameter(mm)	5.4	6.1	7.2
Overall diameter(mm)	49*0.254	56*0.3	84*0.3
Current temperature	-40°C~+120°C	-40°C~+120°C	-40°C~+120°C
Conductor:	copper wire structure	copper wire structure	copper wire structure
Insulation material:	XLPE	XLPE	XLPE
Colors	black/red	black/red	black/red



Single core solar cable

Code

PV1-F 2.5mm2,4mm2,6mm2,10mm2

Sepc.

