

Sohigh Solar
High Technology. High Quality



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High Technology. High Quality

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Show Room © : Sohigh Solar Office,Block A Yueyang Trade Mall,Yuexiu District Guangzhou.
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Brand 'Sohigh Solar' had registered in U.S. , Europe, Africa etc.
La marque 'Sohigh Solar' s'était enregistrée aux États-Unis, en Europe, en Afrique, etc.

Experience start from
Expérience à partir de **2005**



Since
2005

Sohigh Solar Technology Co.,Ltd (Guangzhou)
Sohigh Technology Co.,Limited(HongKong)

◆ Company Profile

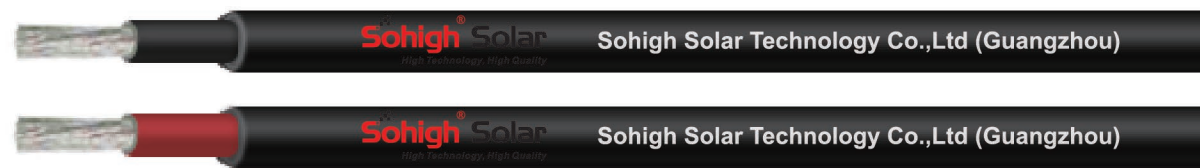


Sohigh Solar Technology Co.,Ltd(Guangzhou) is a high-tech enterprise that integrates research and development, design, manufacturing, trade, and technical services. It is located in Guangdong province which is one of the most economically developed regions in China.

The company specializes in the development and production of solar photovoltaic module, solar inverter, solar batteries, solar submersible pump, solar power solutions, solar water heaters, etc. All these products are exported to Africa, the Middle East, Southeast Asia, and wins the recognition of the customers for the good quality and excellent service.

The company has a highly experienced team, which has more than 10 years of professional experience in solar photovoltaic industry(From 2005). We believe that, Quality and Service are the most important thing for development and cooperation with all the customers. And we will insist on the principle “Sohigh Solar, So High Quality”, providing all the customers good service, the best price, and the superior quality. Trying our best to resolving the power shortage in many areas is our mission.

DC TWIN CORE SOLAR PV CABLE



Technical Parameters

Cross Section (mm ²)	Conductor Construction (n/mm)	Conductor Stranded OD.(mm)	Cable OD. (mm)	Conductor Max.Resistance AT 20°C (Ω/Km)	Current Carring Capacity AT 60°C(A)
2.5	49/0.25	1.98	11.5x5.4	8.21	36
4	56/0.285	2.35	12.7x5.7	5.09	44
6	84/0.285	3.06	14x6.6	3.39	60

Characteristics

Conductor	Stranded Tinned Copper
Insulation	Halogen Free Cross-linked Polyolefin(XLPO)
Sheath	Halogen Free Cross-linked Polyolefin(XLPO)
Rated Temperature	-40°C up ~ +90°C
Rated Voltage	AC:0.6/1KV DC:1.5KV
Weathering Resistance	Sun Resistant
Standard	VDE-AR-E 2283-4:2011

Marking(2*4mm²)

(+) TÜV PV1-F 4mm² 0.9/1.8KVDC WARNING-DO NOT DISCONNECT UNDER LOAD-120°C SOLAR DC CABLE(+)POLE
 (-) TÜV PV1-F 4mm² 0.9/1.8KVDC WARNING-DO NOT DISCONNECT UNDER LOAD-120°C SOLAR DC CABLE(-)POLE

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

DC TWIN CORE SOLAR PV CABLE

Cable Description

- Cable Full Name: Halogen-free low smoke cross-linked polyolefin insulated and sheathed cables for photovoltaic power generation systems.
- Conductor Structure: EN60228(IEC60228、GB/T3956)Type five conductor and must be tinned copper wire.
- Cable Color: Black or Red (The insulation material shall be extruded halogen-free material, which shall be composed of one layer or several tightly adhered layers. The insulation shall be solid and uniform in material, and the insulation itself, the conductor and the tin layer shall be as far as possible not damaged when the insulation is peeled off)



Technical Data

Nominal Voltage	DC:1.8KV AC:0.6/1.0KV
Voltage Test On Completed Cable	AC:6.5KV DC:15KV,5min
Ambient Temperature	-40°C up to +90°C
Max.temperature At Conductor	+120°C
Service Life	The expected period of use is 25years (Ambient temperature:-40°C up to +90°C)
Refer To Short Circuit Allows The Temperature	The permitted short-circuit-temperayure is 200°C referring to a period of 5s
Bending Radius	≥4 x φ (D < 8mm) , ≥6 x φ (D≥8mm)
Resistance Against Acid And Alkaline Solution	VDE-AR-E 2283-4:2011
Cold Bending Test	VDE-AR-E 2283-4:2011
Weathering/UV-Resistance	VDE-AR-E 2283-4:2011
Ozone Resistance At Complete Cable	VDE-AR-E 2283-4:2011
Test Under Fire Conditions	VDE-AR-E 2283-4:2011

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

DC SINGLE CORE SOLAR PV CABLE



Technical Parameters

Cross Section (mm ²)	Conductor Construction (n/mm)	Conductor Stranded OD.(mm)	Cable OD. (mm)	Conductor Max.Resistance AT 20°C (Ω/Km)	Current Carrying Capacity AT 60°C(A)
1.5	30/0.25	1.58	4.80	13.5	25
2.5	49/0.25	1.98	5.30	8.21	36
4	56/0.285	2.35	5.80	5.09	44
6	84/0.285	3.06	6.60	3.39	60
10	80/0.4	4.60	8.00	1.95	82
16	120/0.4	5.60	10	1.24	122
25	196/0.4	6.95	12	0.795	160
35	276/0.4	8.30	13.30	0.565	200

Characteristics

Conductor	Stranded Tinned Copper
Insulation	Halogen Free Cross-linked Polyolefin(XLPO)
Sheath	Halogen Free Cross-linked Polyolefin(XLPO)
Rated Temperature	-40°C up ~ +90°C
Rated Voltage	AC:0.6/1KV DC:1.5KV
Weathering Resistance	Sun Resistant
Standard	2 PfG 1169 08.2007 ; EN 50618:2014 ; NB/T42073-2016

Marking(4mm²)

TÜV SÜD EN50618:2014 H1Z2Z2-K (CQC NB/T42073-2016 PV-YJYJ) DC 1.5KV 1x4mm²

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Cable Description

- Cable Full Name: Halogen-free low smoke cross-linked polyolefin insulated and sheathed cables for photovoltaic power generation systems.
- Conductor Structure: EN60228(IEC60228、GB/T3956)Type five conductor and must be tinned copper wire.
- Cable Color: Black or Red (The insulation material shall be extruded halogen-free material, which shall be composed of one layer or several tightly adhered layers. The insulation shall be solid and uniform in material, and the insulation itself, the conductor and the tin layer shall be as far as possible not damaged when the insulation is peeled off)
- Cable Characteristics: Double insulated construction、Higher systems bear voltage、UV radiation、Low and High temperature resistant environment.



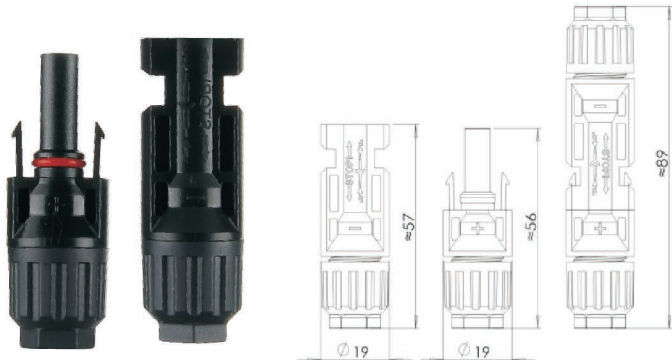
Technical Data

Nominal Voltage	DC :1.5KV AC :1.0/1.0KV
Voltage Test On Completed Cable	AC : 6.5KV DC :15KV, 5min
Ambient Temperature	Max.ambient temperature : 90°C Min.temperature for installation and handing:-25°C Max.storage temperature :+40°C
Thermal Endurance Properties	120°C,20000h,elongation at break≥50%
Refer To Short Circuit Allows The Temperature	The permitted short-circuit-temperayure is 250°C referring to a period of 5s
Pressure Test At High Temperature	EN60811-3-1
Damp Heat Test	EN60068-2-78
Resistance Against Alkaline And Acid Solutions	EN60811-2-1
Ozone Resistance At Complete Cable	En50396
Thermal Endurance Test	EN60216-2
Cold Bending Test	EN60811-1-4
Weathering/UV Resistance	EN50289-4-17
Test Of Vertical Flame Propagation At Complete Cable	EN60332-1-2
Halogen Content Test	EN60754-1/EN60754-2

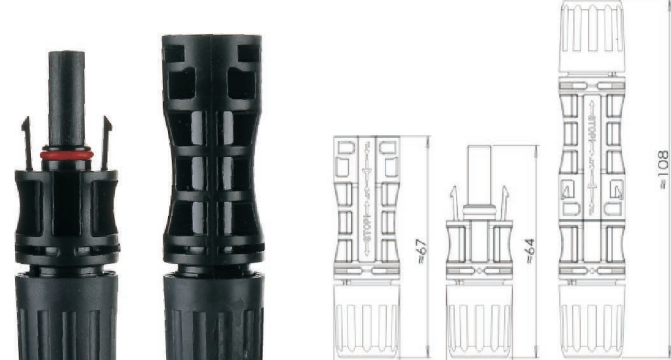
Solar DC Connect

PV Connect


Sohigh MC4-01

	Rated current	30A
	Rated voltage	1000V DC(IEC) DC(UL)
	Ambient temperature range	-40℃~+90℃(ec)
	Degree of protection	IP67 mated IP2X unmated
	Contact resistance of plug connectors	0.5mΩ
	Contact material	Copper, tin plated
	Locking system plug connectors	Snap-in(nur/only MC4)
	Flame class	UL94-HB/UL94-VO
	Cable Size	2.5mm², 4mm², 6mm²


Sohigh MC4-03

	Rated current	30A
	Rated voltage	1500V DC(IEC) DC(UL)
	Ambient temperature range	-40℃~+90℃(ec)
	Degree of protection	IP67 mated IP2X unmated
	Contact resistance of plug connectors	0.5mΩ
	Contact material	Copper, tin plated
	Locking system plug connectors	Snap-in(nur/only MC4)
	Flame class	UL94-HB/UL94-VO
	Cable Size	2.5mm², 4mm², 6mm², 10mm²

Sohigh MC4-02

	Rated current	30A
	Rated voltage	1000V DC(IEC) DC(UL)
	Ambient temperature range	-40℃~+90℃(ec)
	Degree of protection	IP67 mated IP2X unmated
	Contact resistance of plug connectors	0.5mΩ
	Contact material	Copper, tin plated
	Locking system plug connectors	Snap-in(nur/only MC4)
	Flame class	UL94-HB/UL94-VO
	Cable Size	2.5mm², 4mm², 6mm²

Sohigh MC4-04

	Rated current	50A
	Rated voltage	1500V DC(IEC) DC(UL)
	Ambient temperature range	-40℃~+90℃(ec)
	Degree of protection	IP67 mated IP2X unmated
	Contact resistance of plug connectors	0.5mΩ
	Contact material	Copper, tin plated
	Locking system plug connectors	Snap-in(nur/only MC4)
	Flame class	UL94-HB/UL94-VO
	Cable Size	10mm²

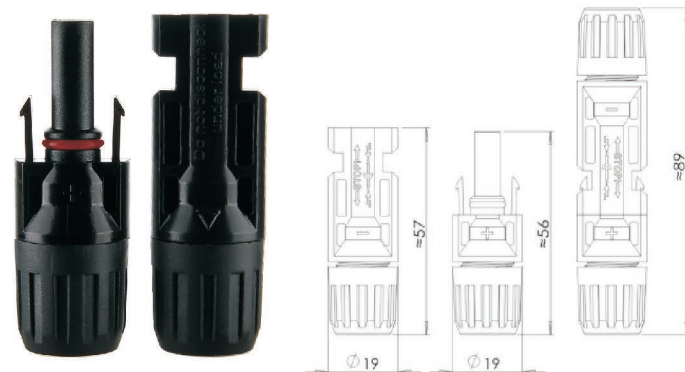
Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Solar DC Connect

PV Connect

Sohigh MC4-05



Rated current	30A
Rated voltage	1000V DC(IEC) DC(UL)
Ambient temperature range	-40℃~+90℃(ec)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²

Sohigh MC4-06



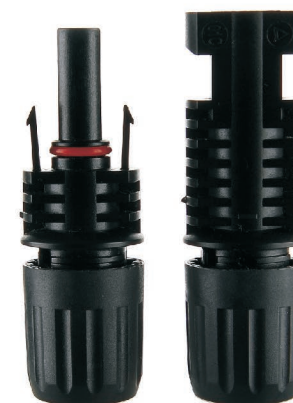
Rated current	30A
Rated voltage	1000V DC(IEC) DC(UL)
Ambient temperature range	-40℃~+90℃(ec)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Solar DC Connect

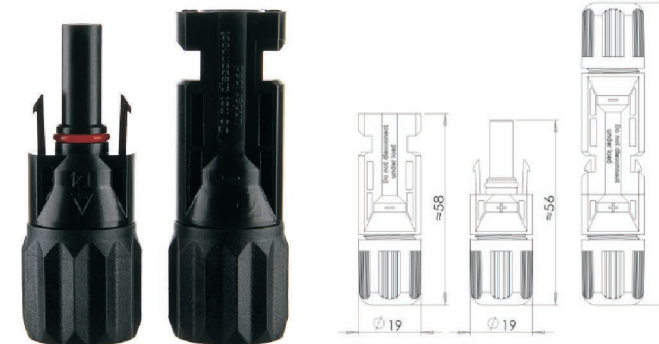
PV Connect

Sohigh MC4-07



Rated current	30A
Rated voltage	1500V DC(IEC) DC(UL)
Ambient temperature range	-40℃~+90℃(ec)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²

Sohigh MC4-08



Rated current	30A
Rated voltage	1000V DC(IEC) DC(UL)
Ambient temperature range	-40℃~+90℃(ec)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Solar DC Connect

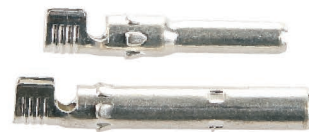
Connector Metal Fittings



Sohigh Metal Fittings 01



Sohigh Metal Fittings 02



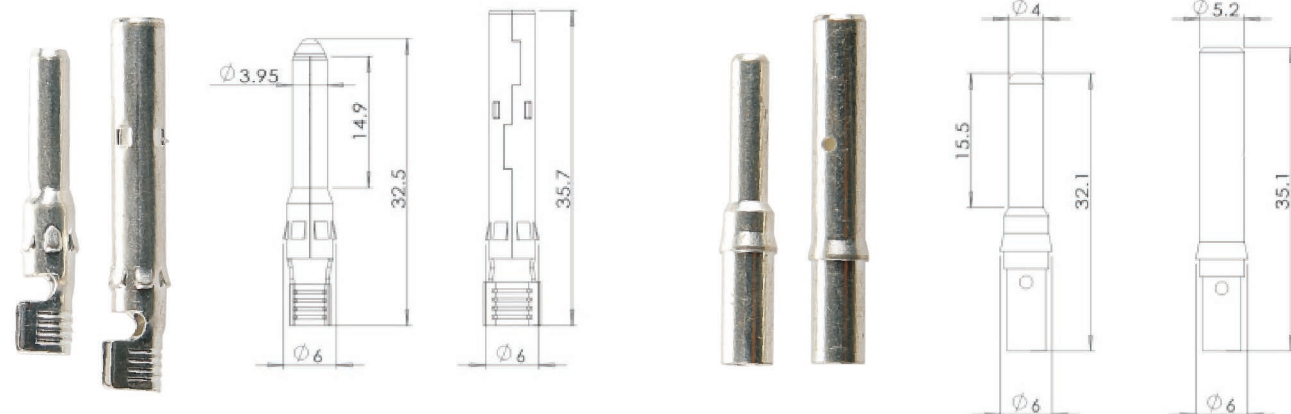
Sohigh Metal Fittings 03



Sohigh Metal Fittings 04



Sohigh Metal Fittings 05

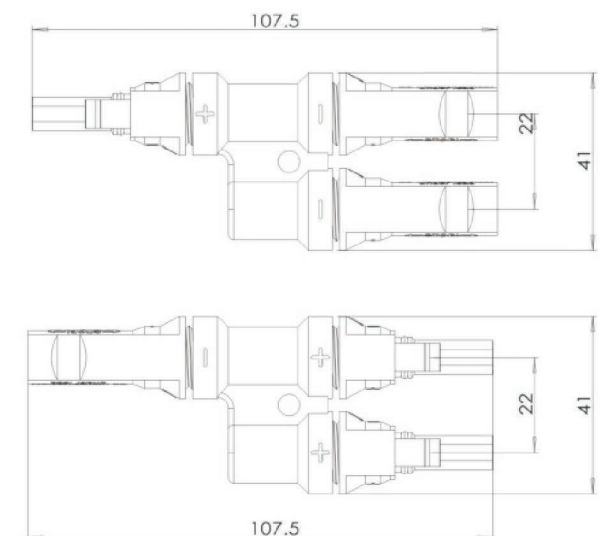


Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Solar Branch Connect

PV Connect

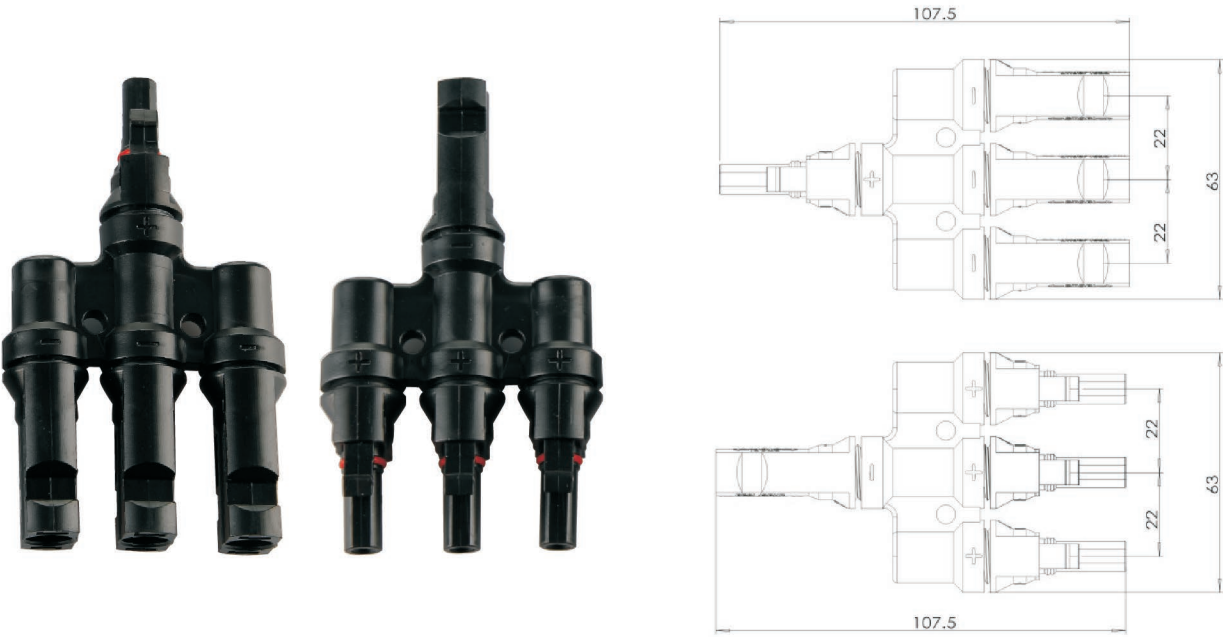
Sohigh MC4-T3(2-1)



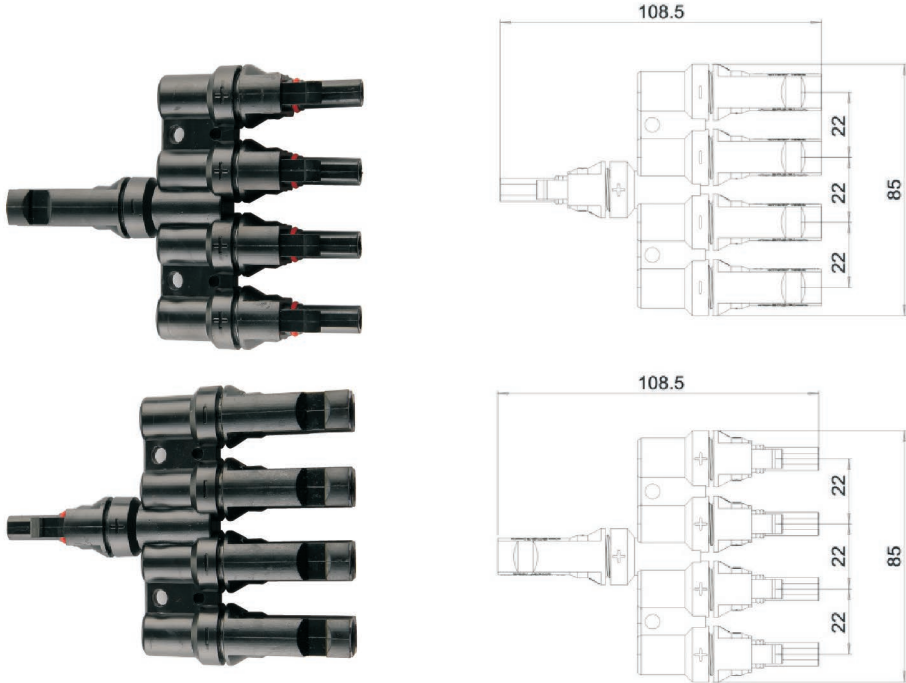
Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm ² , 4mm ² , 6mm ²
Diode/Fuse Type	Schottky Diode/PV Fuse

Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

Solar Branch Connect

PV Connect	Sohigh MC4-T4(3-1)
	
Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

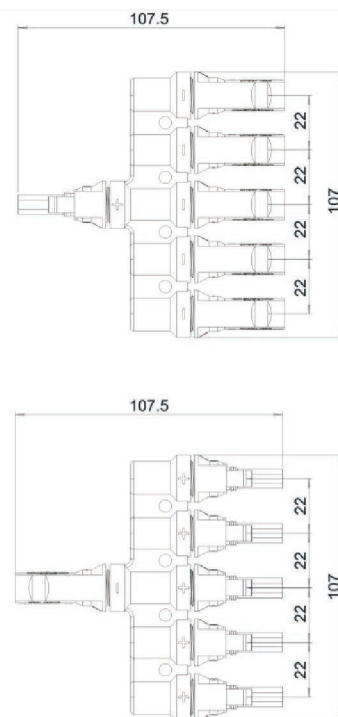
Solar Branch Connect

PV Connect	Sohigh MC4-T5(4-1)
	
Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-T6(5-1)

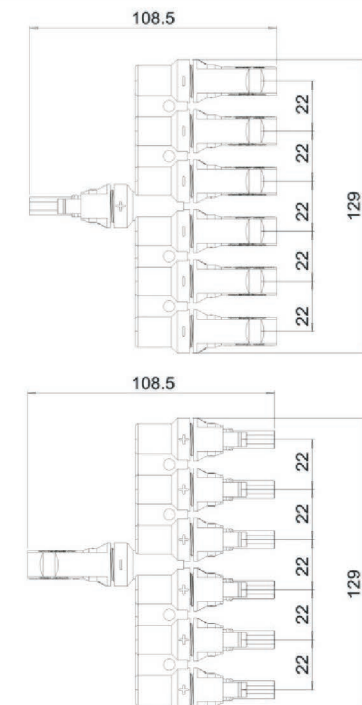


Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃ ~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-T7(6-1)

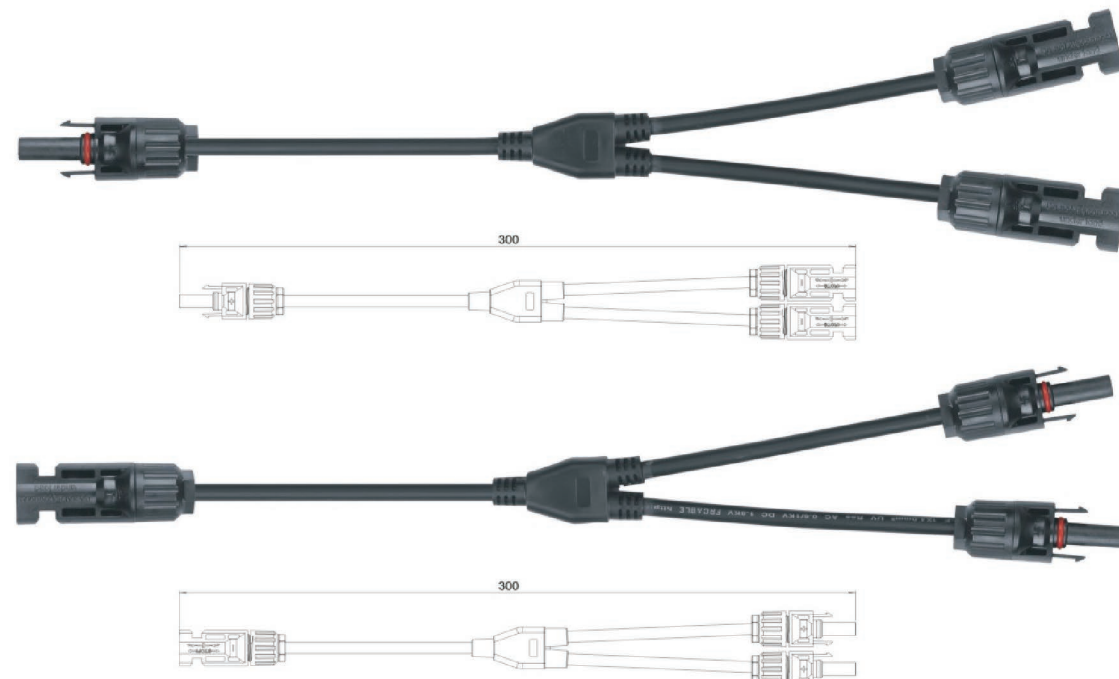


Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃ ~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-Y3(2-1)

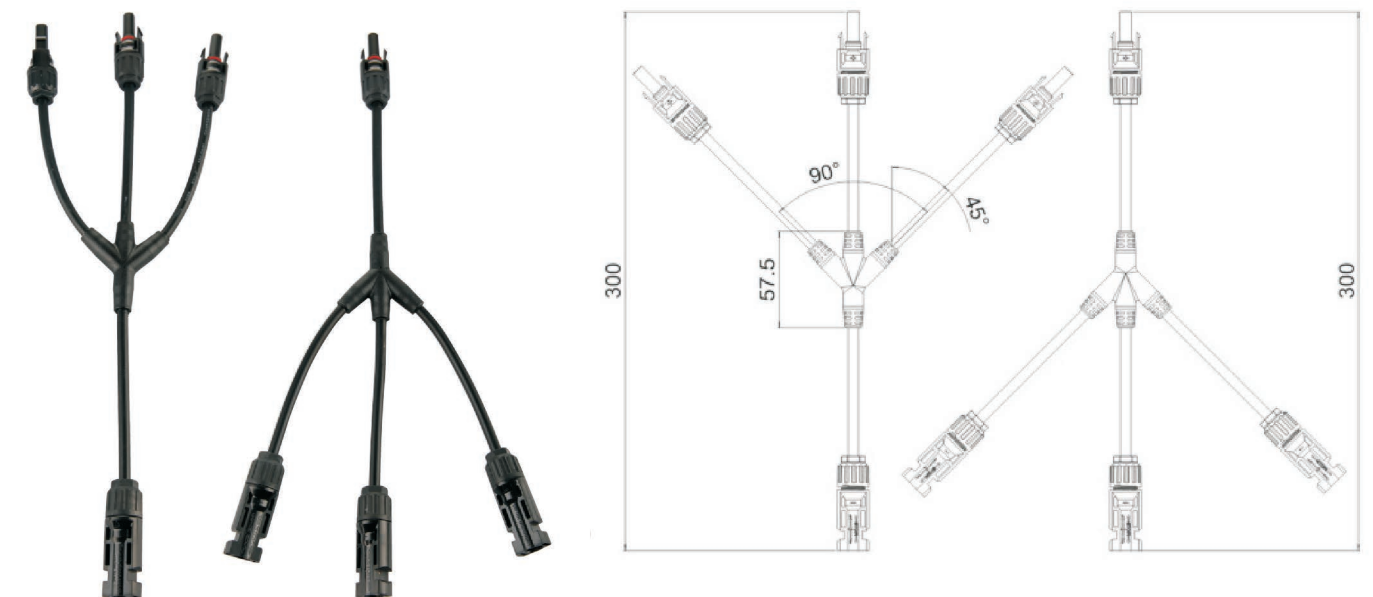


Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-Y4(3-1)

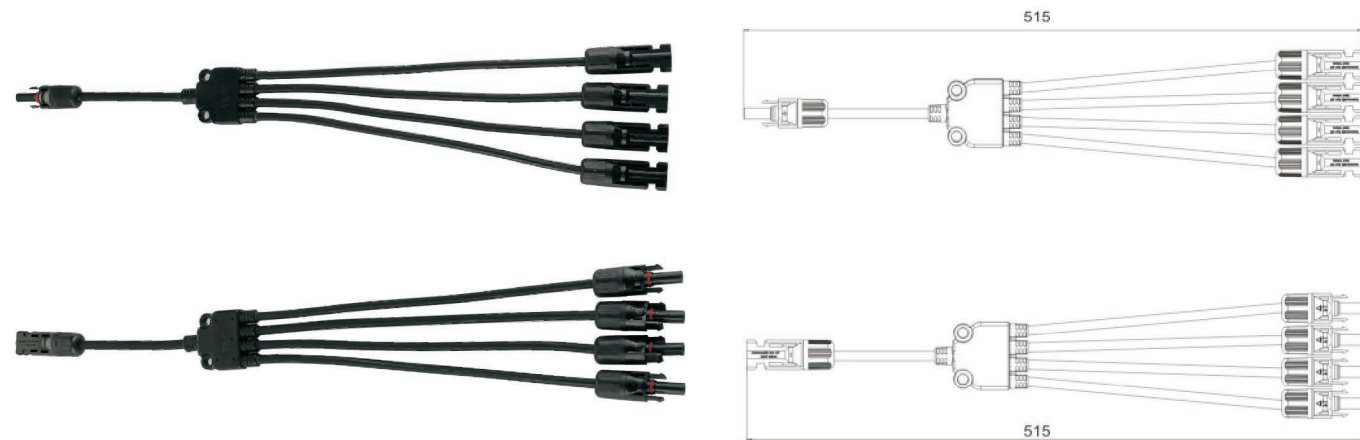


Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-Y5(4-1)



Rated current	50A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃ ~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Solar Branch Connect

PV Connect

Sohigh MC4-09



Rated current	30A
Rated voltage	1500V DC(IEC) 800V DC(UL)
Ambient temperature range	-40℃ ~+90℃ (IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in(nur/only MC4)
Flame class	UL94-HB/UL94-VO
Cable Size	2.5mm², 4mm², 6mm²
Diode/Fuse Type	Schottky Diode/PV Fuse

Tow-set spanners



Sohigh MC4 Wrench 1500V M2-1



Sohigh MC4 Wrench 1000V M4-1



Sohigh MC4 Wrench 1000V M2-1

CONNECTOR WRENCH FEATURES:



The Round Opening
Grasp the connector's head to turn left or right to tighten or loose.



The Middle Hole
Can be used to help holding the connector when turning the connectors.



The Tail
Easy for connector disassembly.

Solar Tool Kits

Sohigh MC4 Kit with bag

