



## Data Sheet – MC4CH Solar Connector

**Product description** - Single-contact electrical connectors commonly used for connecting solar panels.

### Features:

- Cable range supported - 4mm & 6mm
- Flame retardant, UV stabilised
- IP65/IP68 (1m, 1h)
- Third party approval under TUV SUD



SWA's MC4CH solar connectors have been tested to the internationally recognised standard, IEC 62852:2014, IEC 62858:2014/AMD1:2020 & EN 62858:2015/A1:2020

Performance test parameters and results are detailed on page two, and installation guidance is on page 3 of this datasheet.

Please see below for ordering information.

PART NUMBER	DESCRIPTION	PACK QTY	EAN	TSI CODE
MC4CH	MC4 Solar Connector - Male and Female Complete	20	5050291298834	433919674
MC4-MC	MC4 Male Pin and Housing Only	1	5050291012713	394593870
MC4-FC	MC4 Female Pin and Housing Only	1	5050291012690	394593896
MC4M	MC4 Male Pin Only	1	5050291012706	394593922
MC4F	MC4 Female Pin Only	1	5050291012683	394593935
MC4P	MC4 Male and Female Panel Connector	1	5050291012720	394593948
MC4T1F2M	MC4 Branch Connector 1 X Female 2 X Male	1	5050291012737	394593964
MC4T1M2F	MC4 Branch Connector 1 X Male 2 X Female	1	5050291012744	394593951
RTMC4	Solar Connector Crimping Tool	1	5050291017428	394419064
S-MC4	Open-End Spanner & Quick Disconnect tool	2	5050291074674	394594167



**Technical Data:**

Please note that the below testing values are maximums and should only be used for guidance. The safety factors appropriate to your application should be used:

IEC 62852 TEST PARAMETRES	REQUIRMENT/TEST	RESULT
Rated Voltage	1500 V DC	PASS
Max. Current	30 amps	PASS
Ingress Protection	IP65/IP68 (1m, 1h)	PASS
Operating Temperature	- 40C to +85C	PASS
Flame Retardant Grade / UV Resistant	UL94-V0	PASS
Application Class	A	PASS
COMPOSITION	MATERIAL	
Body	PPO	
Insulation	M-PPE	
Contacts	Copper Alloy + Tin plated	
Additional Technical Information		
Safety Class	II	
Rated impulse voltage	16000V	
Rated insulation voltage	8000V	
Static resistance	5mΩ	
Thrusting force	35N < F < 80N	
Drawing force (auto locking status)	300N	
Contact resistance	0.35mΩ	



Product testing carried out by TUV SUD



For safe installation of SWA's MC4CH connectors use only our open-End Spanner & Quick Disconnect tool – p/n S-MC4



For consistent and safe crimping results use only our solar crimping tool – p/n RTMC4.



Solar Connector

MC4CH Installation instructions



Pic.1



Pic.2

Assembly of cables and connectors

(Pic.1&2)

The riveted metal parts are inserted into the plastic insulators of the connectors. Pull after jointing to check that the metal parts are in place.



Pic.3

Close Up

(Pic.3)

The positive and negative connectors are mounted together until they are closed, Pull it to the sides to check it's in place.

Pull Out

(Pic.4&5)



Pic.4



Pic.5

Use Your fingers to press down on both sides of the housing to snap the shrapnel or use the tool PV-STX to disassemble it.

