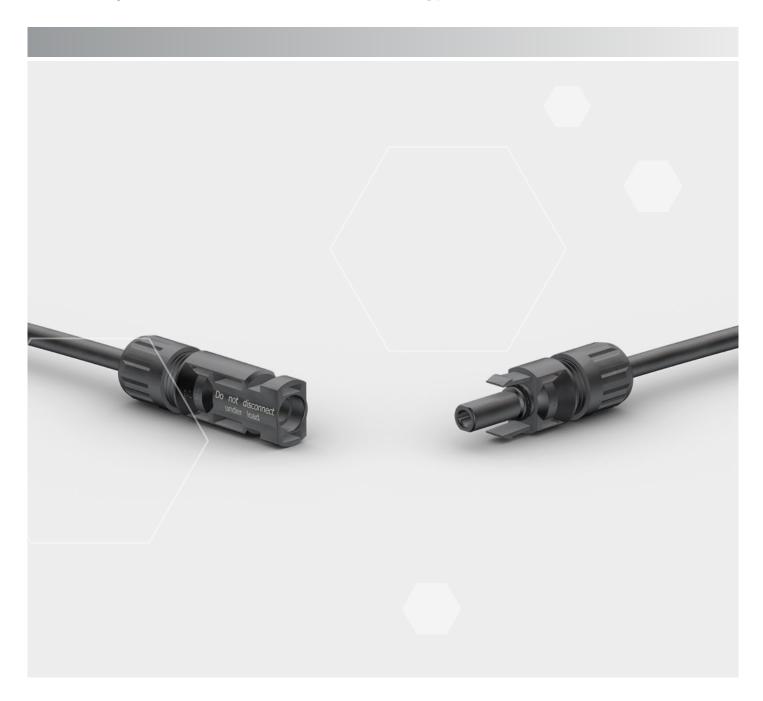


Photovoltaic main catalog

Solarline | Connectors for renewable energy





PLUG CONNECTORS

Advantages of the MC4 connector range



Proven MULTILAM technology with high long-term stability



More than 50 years of experience and core competence

Range of cable cross-sections





Locking system



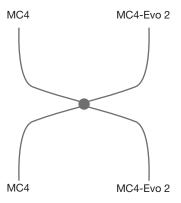




Voltage level

TÜV 1000 V/1500 V UL 1000 V/1500 V

Compatibility





Certificates

These products are certified by TÜV Rheinland LGA GmbH



cTÜVus



UL recognized



EAC



CSA



JET



CQC



NEC 2014

Overview of plug connectors



Panel receptacles

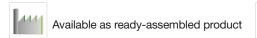
MC4	→ STOP 1 →	TÜV	[A[71]
MC4-Evo 2		TÜV	71 °

Branch connectors

MC4 EAL SU	
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Legend







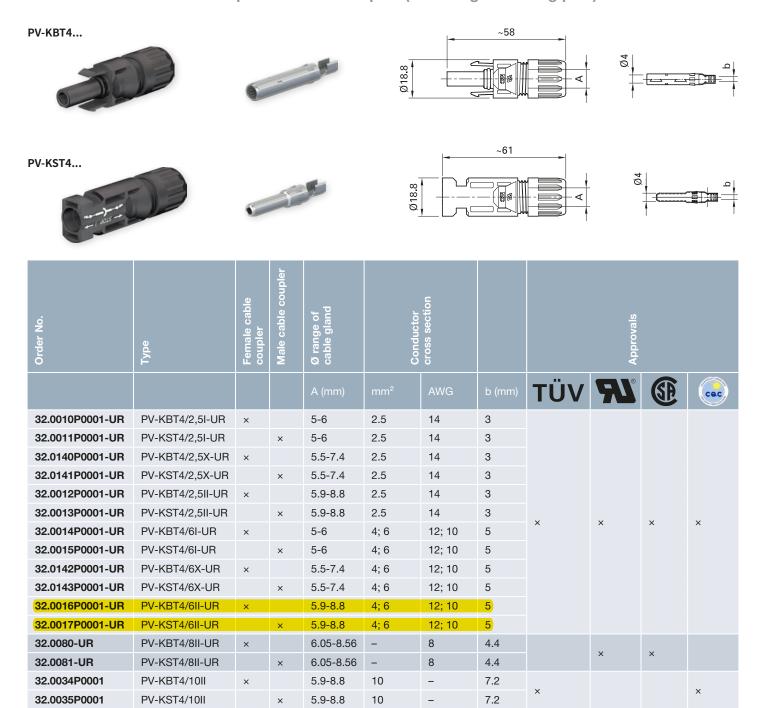
Features	Salt mist spray test	Rated curren	Rated voltage (max.)			Locking system (UL)	Degree of protection		Safety class	Ambient temperature range	Sealing caps	Page	
	Category	∢	TÜV (V DC)	UL/CSA (V DC)	TÜV (V AC)	UL (V AC)		mated	unmated		O _°		
S S		22.5/30/						IP65			-40 +85		12
	VI	45/50	1500	1500	-	-	Locking	IP68	IP2X	II	-40 +85 (TÜV)	×	14
	VI	22/39/45/ 53/69	1500	1500	-	-	Locking	IP65 IP68	IP2X	II	-40+85 (TÜV)	×	16 18
	-	16/20/26/ 32/43	-	-	250	600	Locking	IP65 IP67	IP2X	П	-40+85	×	20
	-	22.5/39/ 45/51	1250	1500	-	-	Locking	IP65 IP68	IP2X	II	-40+85	×	22 24
	-	32/42/47	1500	1500	-	-	Locking	IP65 IP68	IP2X	II	-40+90 (UL)	x	26 28
	-	50	-	1500	-	-	Locking	IP67	IP2X	II	-40+85 (UL)	×	30



¹⁾ Certifications are in some cases limited to specific types or still pending. Details are given on the relevant product pages.

Female and male cable coupler MC4

Female and male cable coupler as individual part (including insulating part)



Note:

For more detailed information concerning the suitable cable gland range, please consult MA231



Assembly Instructions MA231

www.staubli.com/electrical



Sealing caps page 43
Assembly tools page 48



- Snap-in lock
- In accordance with NEC 2014, requires a tool to open
- Proven MULTILAM technology with high long-term stability, which ensures consistently low performance loss through-
- out the entire service life of the plug connector
- Tried and tested plug connectors, over 15 years of experience in the field
- Available for assembly with crosssections of 10 mm²
- Also available as ready made leads
- Mating compatibility with MC4 connector family
- Leads made to customer's specifications, see page 50

Technical data							
Connector system	Ø 4 mm						
Rated voltage	1000 V DC (IEC 62852) 1500 V DC (2Pfg2330) ¹⁾ 1500 V DC (UL) ²⁾						
Rated current TÜV (85°C)	22.5 A (2.5 mm²) 39 A (4 mm²/6 mm²) 45 A (10 mm²)						
Rated current UL	30 A (14 AWG) 30 A (12 AWG/10 AWG) 50 A (8 AWG)						
Rated impulse voltage	12 kV (1000 V DC (TÜV)) 16 kV (1500 V DC (TÜV))						
Ambient temperature range	-40°C+85°C (TÜV) -40°C+75°C (UL)						
Upper limiting temperature	105°C (TÜV)						
Degree of protection, mated unmated	IP65, IP68 (1 h/1 m) IP2X						
Overvoltage category/Pollution degree	CATIII/3						
Contact resistance of plug connectors	≤0.25 mΩ						
Safety class	1000 V DC: II 1500 V DC: 0						
Contact system	MULTILAM						
Type of termination	Crimping						
Contact material	Copper, tin plated						
Insulation material	PC/PA						
Locking system (UL)	Locking type						
Flame class	UL94-V0						
Ammonia resistance (acc. to DLG)	1500 h, 70°C/70% RH, 750 ppm						
Salt mist spray test, degree of severity 6	IEC 60068-2-52						
TÜV-Rheinland certified, in accordance with IEC 62852 TÜV-Rheinland certified,	R60127190 ³⁾ R60087448						
in accordance with 2PfG2330 UL recognized component, in accordance with UL 6703	E343181						
CSA certified, in accordance with UL 6703 CQC certified according CNCA/CTS0002-2012	250725 CQC16024138286						

^{1) 2}Pfg2330: only approved for locations with restricted access

²⁾ for selected configurations; see assembly instructions MA231 for details

³⁹ For PV junction boxes in accordance with IEC62790, lines in accordance with EN50618 must be used