

PLUG CONNECTORS

Advantages of the MC4 connector range

Protected

UV Safety class II IP68

Voltage level

TÜV 1000 V/1500 V
UL 1000 V/1500 V

Compatibility

Proven MULTILAM technology with high long-term stability

More than 50 years of experience and core competence

Range of cable cross-sections

10 mm ²	○	○	8 AWG
6 mm ²	○	○	10 AWG
4 mm ²	○	○	12 AWG
2.5 mm ²	○	○	14 AWG
1.5 mm ²	○	○	

Locking system

Safety locking device

NEC 2014

Certificates

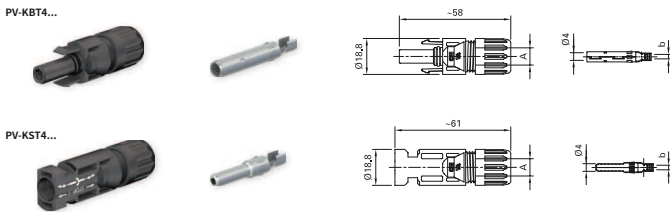
These products are certified by TÜV Rheinland LGA GmbH

8 Photovoltaic main catalog

Photovoltaic main catalog 9

Female and male cable coupler MC4

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



- 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 throughout 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 cross-sections 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 mm ²) 45 A (10 mm ²) 39 A (4 mm ² /6 mm ²)
Rated current UL	30 A (14 AWG) 50 A (8 AWG) 30 A (12 AWG/10 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	IP65, IP68 (1 h/1 m)
Degree of protection, unmated	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	P60127190 ³⁾
TÜV-Rheinland certified, in accordance with 2Pfg2330	P60087448
UL recognized component, in accordance with UL 6703	E343181
CSA certified, in accordance with UL 6703	250725
CQC certified according CNCA/CTS0002-2012	CQC16024138286

Order No.	Type	Female cable coupler	Male cable coupler	Ø range of cable gland	Conductor cross section			Approvals				
					A (mm)	mm ²	AWG	b (mm)	TÜV	RU	SE	CQC
32.0010P0001-UR	PV-KBT4/2,5I-UR	x		5-6	2.5	14	3					
32.0011P0001-UR	PV-KST4/2,5I-UR		x	5-6	2.5	14	3					
32.0140P0001-UR	PV-KBT4/2,5X-UR	x		5.5-7.4	2.5	14	3					
32.0141P0001-UR	PV-KST4/2,5X-UR		x	5.5-7.4	2.5	14	3					
32.0012P0001-UR	PV-KBT4/2,5II-UR	x		5.9-8.8	2.5	14	3					
32.0013P0001-UR	PV-KST4/2,5II-UR		x	5.9-8.8	2.5	14	3					
32.0014P0001-UR	PV-KBT4/6I-UR	x		5-6	4; 6	12; 10	5	x	x	x	x	
32.0015P0001-UR	PV-KST4/6I-UR		x	5-6	4; 6	12; 10	5					
32.0142P0001-UR	PV-KBT4/6X-UR	x		5.5-7.4	4; 6	12; 10	5					
32.0143P0001-UR	PV-KST4/6X-UR		x	5.5-7.4	4; 6	12; 10	5					
32.0016P0001-UR	PV-KBT4/6II-UR	x		5.9-8.8	4; 6	12; 10	5					
32.0017P0001-UR	PV-KST4/6II-UR		x	5.9-8.8	4; 6	12; 10	5					
32.0080-UR	PV-KBT4/8II-UR	x		6.05-8.56	-	8	4.4					
32.0081-UR	PV-KST4/8II-UR		x	6.05-8.56	-	8	4.4		x	x		
32.0034P0001	PV-KBT4/10II	x		5.9-8.8	10	-	7.2					
32.0035P0001	PV-KST4/10II		x	5.9-8.8	10	-	7.2	x				x

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

¹⁾ 2Pfg2330: only approved for locations with restricted access
²⁾ For selected configurations; see assembly instructions MA231 for details
³⁾ For PV junction boxes in accordance with IEC62790, lines in accordance with EN50618 must be used