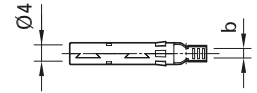
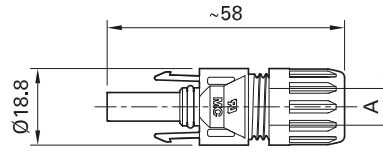


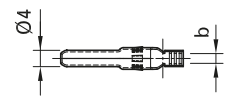
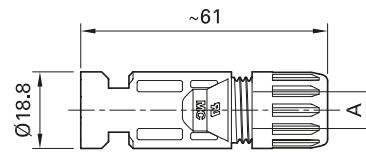
# Female and male cable coupler MC4

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

PV-KBT4...



PV-KST4...



Order No.	Type	Female cable coupler	Male cable coupler	Ø range of cable gland	Conductor cross section			Approvals			
					A (mm)	mm <sup>2</sup>	AWG	b (mm)	TÜV	UL	SA
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	x	x	x	x
32.0014P0001-UR	PV-KBT4/6I-UR	x		5-6	4; 6	12; 10	5				
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		x	x	
32.0081-UR	PV-KST4/8II-UR		x	6.05-8.56	-	8	4.4				
32.0034P0001	PV-KBT4/10II	x		5.9-8.8	10	-	7.2				x
32.0035P0001	PV-KST4/10II		x	5.9-8.8	10	-	7.2	x			

**Note:**

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



Assembly Instructions MA231

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Sealing caps page 53

Assembly tools page 58

- 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 mm<sup>2</sup>
- Also available as ready made leads
- Mating compatibility with MC4 connector family
- Leads made to customer's specifications, see page 60

Technical data	
Connector system	Ø 4 mm
Rated voltage	1000 V DC (IEC 62852) 1500 V DC (2Pfg2330) <sup>1)</sup> 1500 V DC (UL) <sup>2)</sup>
Rated current TÜV (85°C)	22.5 A (2.5 mm <sup>2</sup> )      39 A (4 mm <sup>2</sup> /6 mm <sup>2</sup> ) 45 A (10 mm <sup>2</sup> )
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	R60127190 <sup>3)</sup>
TÜV-Rheinland certified, in accordance with 2Pfg2330	R60087448
UL recognized component, in accordance with UL 6703	E343181
CSA certified, in accordance with UL 6703	250725
CQC certified according CNCA/CTS0002-2012	CQC16024138286

<sup>1)</sup> 2Pfg2330: only approved for locations with restricted access

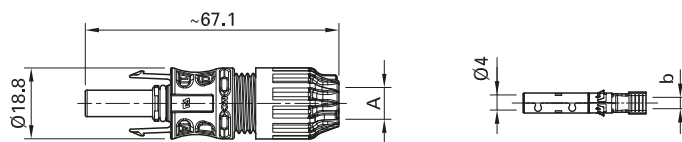
<sup>2)</sup> for selected configurations; see assembly instructions MA231 for details

<sup>3)</sup> For PV junction boxes in accordance with IEC62790, lines in accordance with EN50618 must be used

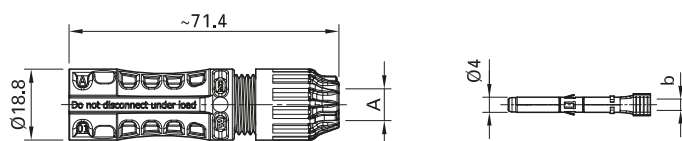
# Female and male cable coupler MC4-Evo2

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

PV-KBT4-EVO 2/...-UR



PV-KST4-EVO 2/...-UR



Order No.	Type	Female cable coupler	Male cable coupler	Ø range of cable gland		Conductor cross section		Approvals
				A (mm)	mm <sup>2</sup>	AWG	b (mm)	
32.0082P0001-UR	PV-KBT4-EVO 2/2,5I-UR	x		4.7-6.4	2.5	14	3	  
32.0083P0001-UR	PV-KST4-EVO 2/2,5I-UR		x	4.7-6.4				
32.0084P0001-UR	PV-KBT4-EVO 2/2,5II-UR	x		6.4-8.4	4; 6	12; 10	5	
32.0085P0001-UR	PV-KST4-EVO 2/2,5II-UR		x	6.4-8.4				
32.0086P0001-UR	PV-KBT4-EVO 2/6I-UR	x		4.7-6.4	10	8	7.2	
32.0087P0001-UR	PV-KST4-EVO 2/6I-UR		x	4.7-6.4				
32.0088P0001-UR	PV-KBT4-EVO 2/6II-UR	x		6.4-8.4				
32.0089P0001-UR	PV-KST4-EVO 2/6II-UR		x	6.4-8.4				
32.0092P0001-UR	PV-KBT4-EVO 2/10II-UR	x		6.4-8.4				
32.0093P0001-UR	PV-KST4-EVO 2/10II-UR		x	6.4-8.4				

**Note:**

For more detailed information concerning the suitable cable gland range, please consult MA273.



Sealing caps page 53

Assembly tools page 58



Assembly Instructions MA273

[www.staubli.com/electrical](http://www.staubli.com/electrical)

- Internationally certified with IEC, UL, JET, cTÜVus.
- Approved for 1500 V DC (IEC, JET), 1500 V DC (UL) unrestricted access
- MULTILAM Technology, has proven the quality and durability several 100 million times since 2004
- Suited for all climatic environments thanks to resistance to UV, ammonia, and high IP class (IP68).
- Available as a field and preassembled connector, standard crimping tools can be used.
- Mating compatibility with MC4 connector family

Technical data	
Connector system	Ø 4 mm
Rated voltage	1500 V DC (TÜV) <sup>1)</sup> 1500 V DC (UL) <sup>2)</sup> 1500 V DC (JET) <sup>3)</sup>
Rated current TÜV (85°C)	39 A (2,5 mm <sup>2</sup> / 14 AWG) 45 A (4,0 mm <sup>2</sup> / 12 AWG) 53 A (6,0 mm <sup>2</sup> / 10 AWG) 69 A (10,0 mm <sup>2</sup> / 8 AWG)
Rated impulse voltage	16 kV (1500 V)
Ambient temperature range	-40°C ... +85°C (TÜV/UL)
Upper limiting temperature	115°C (TÜV)
Degree of protection, mated unmated	IP65/IP68 (1h/1m) IP2X
Overvoltage category/Pollution degree	CAT III/3
Contact resistance of plug connectors	≤0.2 mΩ
Safety class	II
Contact system	MULTILAM
Type of termination	Crimping
Contact material	Copper, tin plated
Insulation material	PA
Locking system (UL)	Locking type
Flame class	UL94-V0
Ammonia resistance (acc. to TÜV)	Q60095359
Salt mist spray test, degree of severity 6	IEC 60068-2-52
TÜV-Rheinland certified, in accordance with IEC 62852	R60127169
UL recognized component, in accordance with UL 6703	E343181
cTÜVus certified according UL 6703	CU 72141256 01
JET certified according IEC 61730-1:2004	B13T0062

<sup>1)</sup> Please take the cable to be used from MA273

<sup>2)</sup> The connectors are to be used with USE2 or PV-Wire cables.

<sup>3)</sup> The connectors are to be used with cables with the "S-JET mark" label.