

Photovoltaic main catalog

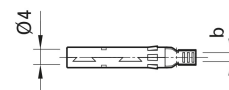
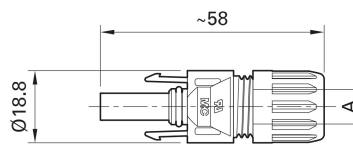
Solarline | Connectors for renewable energy



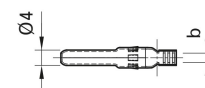
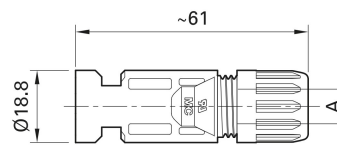
Female and male cable coupler MC4

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 ²	AWG	b (mm)	TÜV	RU	SA	ccc			
32.0010P0001-UR	PV-KBT4/2,5I-UR	x		5-6	2.5	14	3	x	x	x	x				
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								
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						x	x	
32.0034P0001	PV-KBT4/10II	x		5.9-8.8	10	-	7.2	x			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



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 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 cross-sections of 10 mm²

- Also available as ready made leads
- 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) ¹⁾ 600 V DC / 1000 V DC / 1500 V DC (UL) ²⁾
Rated current TÜV (85°C)	22.5 A (2.5 mm ²) 39 A (4 mm ² /6 mm ²) 45 A (10 mm ²)
Rated current UL	22.5 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	R60111354 ³⁾
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

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