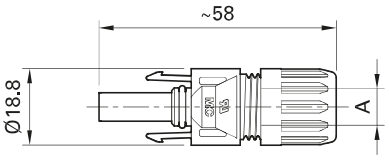
# Female and male cable coupler MC4

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

**PV-KBT4...**



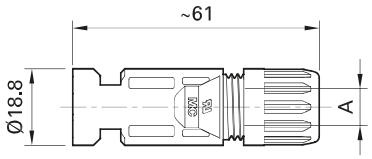





**PV-KST4...**








| Order No. | Type | Female cable coupler | Male cable coupler | Ø range of cable gland | Conductor cross section | | | Approvals | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A (mm) | mm² | AWG | b (mm) | TÜV | | | |
| **32.0010P0001-UR** | PV-KBT4/2,5I-UR | × | | 5-6 | 2.5 | 14 | 3 | × | × | × | × |
| **32.0011P0001-UR** | PV-KST4/2,5I-UR | | × | 5-6 | 2.5 | 14 | 3 | | | | |
| **32.0140P0001-UR** | PV-KBT4/2,5X-UR | × | | 5.5-7.4 | 2.5 | 14 | 3 | | | | |
| **32.0141P0001-UR** | PV-KST4/2,5X-UR | | × | 5.5-7.4 | 2.5 | 14 | 3 | | | | |
| **32.0012P0001-UR** | PV-KBT4/2,5II-UR | × | | 5.9-8.8 | 2.5 | 14 | 3 | | | | |
| **32.0013P0001-UR** | PV-KST4/2,5II-UR | | × | 5.9-8.8 | 2.5 | 14 | 3 | | | | |
| **32.0014P0001-UR** | PV-KBT4/6I-UR | × | | 5-6 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0015P0001-UR** | PV-KST4/6I-UR | | × | 5-6 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0142P0001-UR** | PV-KBT4/6X-UR | × | | 5.5-7.4 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0143P0001-UR** | PV-KST4/6X-UR | | × | 5.5-7.4 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0016P0001-UR** | PV-KBT4/6II-UR | × | | 5.9-8.8 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0017P0001-UR** | PV-KST4/6II-UR | | × | 5.9-8.8 | 4; 6 | 12; 10 | 5 | | | | |
| **32.0080-UR** | PV-KBT4/8II-UR | × | | 6.05-8.56 | – | 8 | 4.4 | | × | × | |
| **32.0081-UR** | PV-KST4/8II-UR | | × | 6.05-8.56 | – | 8 | 4.4 | | | | |
| **32.0034P0001** | PV-KBT4/10II | × | | 5.9-8.8 | 10 | – | 7.2 | × | | | × |
| **32.0035P0001** | PV-KST4/10II | | × | 5.9-8.8 | 10 | – | 7.2 | | | | |

**Note:**

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

MA

**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 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 $mm^2$
- 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)<br>1500 V DC (2Pfg2330)[1)]<br>1500 V DC (UL)[2)] |
| Rated current TÜV (85°C) | 22.5 A (2.5 $mm^2$) 39 A (4 $mm^2$/6 $mm^2$)<br>45 A (10 $mm^2$) |
| Rated current UL | 30 A (14 AWG) 30 A (12 AWG/10 AWG)<br>50 A (8 AWG) |
| Rated impulse voltage | 12 kV (1000 V DC (TÜV))<br>16 kV (1500 V DC (TÜV)) |
| Ambient temperature range | -40°C...+85°C (TÜV)<br>-40°C...+75°C (UL) |
| Upper limiting temperature | 105°C (TÜV) |
| Degree of protection, mated<br>unmated | IP65, IP68 (1 h/1 m)<br>IP2X |
| Overvoltage category/Pollution degree | CATIII/3 |
| Contact resistance of plug connectors | ≤ 0.25 mΩ |
| Safety class | 1000 V DC: II<br>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,<br>in accordance with IEC 62852<br>TÜV-Rheinland certified,<br>in accordance with 2PfG2330<br>UL recognized component,<br>in accordance with UL 6703<br>CSA certified, in accordance with UL 6703<br>CQC certified according CNCA/CTS0002-2012 | R60127190[3)]<br><br>R60087448<br><br>E343181<br><br>250725<br>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