

# Original MC4-Evo 2

**Renewable Energy | Solar Photovoltaics**

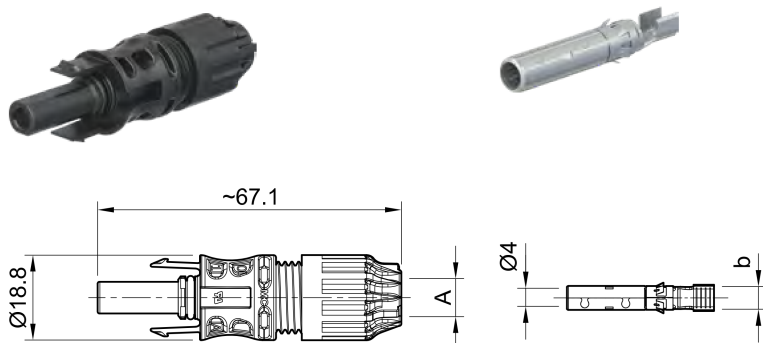
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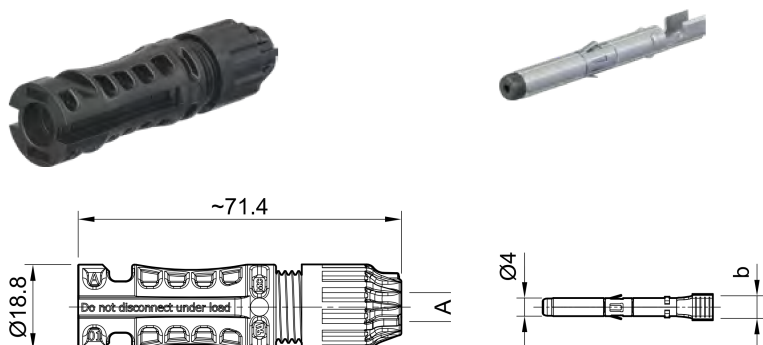
# Female and male cable coupler MC4-Evo 2

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

**PV-KBT4-EVO 2A/...**



**PV-KST4-EVO 2A/...**



Sealing caps see catalog tools and accessories, page 19

Tools see catalog tools and accessories, page 4 – 15

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Catalog → Tools and accessories



Assembly instructions see MA298

[www.staubli.com/re-downloads.html](http://www.staubli.com/re-downloads.html) → English → Assembly info → **MA298**

Internationally certified with IEC, UL, JET, cTÜVus. Approved for DC 1500 V (IEC, JET), DC 1500 V (UL) unrestricted access. MULTILAM Technology, has proven the

quality and durability several 100 million times since 2004. Suited for all climatic environments due to UV resistance, ammonia and high IP degree. 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                       |
| Ambient temperature range                                                  | -40 °C ... +85 °C (IEC/UL)   |
| Transportation/storage temperature range                                   | -30 °C/+60 °C                |
| Transportation/storage relative humidity                                   | < 70 %                       |
| Upper limiting temperature                                                 | 115 °C (IEC)                 |
| Degree of protection, mated                                                | IP65/IP68 (1 m, 168 h)       |
| Degree of protection, unmated                                              | IP2X                         |
| Overvoltage category                                                       | III                          |
| Contact resistance of plug connectors                                      | < 0.2 mΩ                     |
| Locking system                                                             | Locking type                 |
| Class (IEC)                                                                | II                           |
| Contact system                                                             | MULTILAM                     |
| Type of termination                                                        | Crimping                     |
| Warning                                                                    | Do not disconnect under load |
| Contact material                                                           | Copper, tin plated           |
| Insulation material                                                        | PA                           |
| Flame class                                                                | UL94-V0                      |
| Ammonia resistance<br>(TÜV Rheinland certified acc. to 2 PfG 1911/03.2011) | Q60139020-0001               |
| TÜV-Rheinland certified according to<br>IEC 62852:2014+Amd.1:2020          | R 60127169                   |
| UL recognized component in accordance with UL6703                          | E343181                      |
| Maximum altitude above sea level for operation                             | 5000 m                       |
| Temperature Level according to IEC TS 63126                                | Level 2                      |

# Female and male cable coupler MC4-Evo 2

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

| Order No.           | Type                 | Socket | Plug | Outer diameter of cable | Width of crimp opening | IEC 62852       |      |    | UL 6703 |      |    | Approvals     |    |
|---------------------|----------------------|--------|------|-------------------------|------------------------|-----------------|------|----|---------|------|----|---------------|----|
|                     |                      |        |      | A (mm)                  | b (mm)                 | mm <sup>2</sup> | DC V | A  | AWG     | DC V | A  | TÜV Rheinland | UR |
| <b>32.0310P0001</b> | PV-KBT4-EVO 2A/2.5I  | x      |      | 4.7-6.4                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0311P0001</b> | PV-KST4-EVO 2A/2.5I  |        | x    | 4.7-6.4                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0312P0001</b> | PV-KBT4-EVO 2A/2.5X  | x      |      | 6.1-7.3                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0313P0001</b> | PV-KST4-EVO 2A/2.5X  |        | x    | 6.1-7.3                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0314P0001</b> | PV-KBT4-EVO 2A/2.5II | x      |      | 6.4-8.4                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0315P0001</b> | PV-KST4-EVO 2A/2.5II |        | x    | 6.4-8.4                 | 4                      | 2.5             | 1500 | 39 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        |                 |      |    | 14      | 1500 | 30 |               |    |
| <b>32.0316P0001</b> | PV-KBT4-EVO 2A/6I    | x      |      | 4.7-6.4                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |
| <b>32.0317P0001</b> | PV-KST4-EVO 2A/6I    |        | x    | 4.7-6.4                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |
| <b>32.0318P0001</b> | PV-KBT4-EVO 2A/6X    | x      |      | 6.1-7.3                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |
| <b>32.0319P0001</b> | PV-KST4-EVO 2A/6X    |        | x    | 6.1-7.3                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|                     |                      |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|                     |                      |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |

## Note:

For detailed information concerning the suitable cable gland range, please consult MA298.

| Order No.    | Type                | Socket | Plug | Outer diameter of cable | Width of crimp opening | IEC 62852       |      |    | UL 6703 |      |    | Approvals     |    |
|--------------|---------------------|--------|------|-------------------------|------------------------|-----------------|------|----|---------|------|----|---------------|----|
|              |                     |        |      | A (mm)                  | b (mm)                 | mm <sup>2</sup> | DC V | A  | AWG     | DC V | A  | TÜV Rheinland | UR |
| 32.0320P0001 | PV-KBT4-EVO 2A/6II  | x      |      | 6.4-8.4                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|              |                     |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|              |                     |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|              |                     |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |
| 32.0321P0001 | PV-KST4-EVO 2A/6II  |        | x    | 6.4-8.4                 | 5.8                    | 4               | 1500 | 45 |         |      |    | x             | x  |
|              |                     |        |      |                         |                        | 6               | 1500 | 53 |         |      |    |               |    |
|              |                     |        |      |                         |                        |                 |      |    | 12      | 1500 | 35 |               |    |
|              |                     |        |      |                         |                        |                 |      |    | 10      | 1500 | 50 |               |    |
| 32.0322P0001 | PV-KBT4-EVO 2A/10X  | x      |      | 6.1-7.3                 | 6.5                    | 10              | 1500 | 69 |         |      |    | x             | x  |
| 32.0323P0001 | PV-KST4-EVO 2A/10X  |        | x    | 6.1-7.3                 | 6.5                    | 10              | 1500 | 69 |         |      |    | x             | x  |
|              |                     |        |      |                         |                        |                 |      |    | 8       | 1500 | 70 |               |    |
| 32.0324P0001 | PV-KBT4-EVO 2A/10II | x      |      | 6.4-8.4                 | 6.5                    | 10              | 1500 | 69 |         |      |    | x             | x  |
|              |                     |        |      |                         |                        |                 |      |    | 8       | 1500 | 70 |               |    |
| 32.0325P0001 | PV-KST4-EVO 2A/10II |        | x    | 6.4-8.4                 | 6.5                    | 10              | 1500 | 69 |         |      |    | x             | x  |
|              |                     |        |      |                         |                        |                 |      |    | 8       | 1500 | 70 |               |    |