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## QIJQ2.E343181 Connectors for Use in Photovoltaic Systems - Component

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### Connectors for Use in Photovoltaic Systems - Component

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#### STAUBLI ELECTRICAL CONNECTORS AG

E343181

Stockbrunnenrain 8

4123 Allschwil, SWITZERLAND

Cat. No.	Electrical Rating
<b>Photovoltaic wiring-system connector</b>	
PV-KBT3I, PV-KST3I followed by UR, may be followed by suffix numbers and letters.	600 V dc, 20 A max with 12-14 AWG cable
PV-KBT3II, PV-KST3II followed by UR, may be followed by suffix numbers and letters.	600 V dc, 20 A max with 12 AWG cable
PV-KBT3II, PV-KST3II followed by UR, may be followed by suffix numbers and letters.	600 V dc, 30 A max with 10 AWG cable
PV-KBT3III, PV-KST3III followed by UR, may be followed by suffix numbers and letters.	600 V dc, 30 A max with 10 AWG cable
PV-KBT3/6III, PV-KST3/6III followed by UR, may be followed by suffix numbers and letters.	600 V dc, 30 A max with 8 AWG cable
PV-KST4, PV-KBT4 followed by /2.5 or /5 or /6, followed by "I" or "X" or "II", may be followed by -MAX, followed by -UR. or - may be followed by additional suffixes, may be followed by suffix numbers and letters.	600 V dc, 50 A max with 10 AWG cable 600 V dc, 35 A max with 12 AWG cable 600 V dc, 30 A max with 14 AWG cable
<b>PV-KST4, PV-KBT4</b> followed by /2.5 or /5 or /6, followed by "I" or "X" or "II", may be followed by -MAX, followed by -UR. or - may be followed by additional suffixes, may be followed by suffix numbers and letters.	1000 V dc, 50 A max with 10 AWG cable 1000 V dc, 35 A max with 12 AWG cable 1000 V dc, 30 A max with 14 AWG cable
PV-KST4, PV-KBT4, followed by /2.5 or /5 or /6, followed by "I" or "X" or "II", may be followed by -MAX, followed by -UR. or - may be followed by additional suffixes, may be followed by suffix numbers and letters.	1500 V dc, 50 A max with 10 AWG cable 1500 V dc, 35 A max with 12 AWG cable 1500 V dc, 30 A max with 14 AWG cable
PV-KST4, PV-KBT4 followed by /8, followed by "II", may be followed by -MAX, followed by -UR. or - may be followed by additional suffixes, may be followed by suffix numbers and letters.	1500 V dc, 70 A max with 8 AWG cable
PV-SSH4, may be followed by suffix numbers and letters.	n/a
PV-AZS3-UR, PV-AZB3-UR (32.0009-UR, 32.0008-UR), may be followed by suffix numbers and letters.	600 V dc, 30 A max
PV-KST3, PV-KBT3, may be followed by /6, followed by "I", "II" or "III", followed by -UR, may be followed by suffix numbers and letters.	"I" 600 V dc, 20 A max w/ 2.5 mm <sup>2</sup> , 4.0 mm <sup>2</sup> , 14 AWG, 16 AWG, 12 AWG, and 10 AWG cable "II" 600 V dc, 20/30** A max w/ 2.5 mm <sup>2</sup> , 4.0 mm <sup>2</sup> , 14 AWG, 16 AWG, 12 AWG, and 10 AWG cable "III" 600 V dc, 30** A max w/ 2.5 mm <sup>2</sup> , 4.0 mm <sup>2</sup> , 14 AWG, 16 AWG, 12 AWG, and 10 AWG cable "/6 III" 600 V dc, 30 A max w/ 6.0 mm <sup>2</sup> and 8 AWG cable ** 30A rating when assembled to 10 AWG cable only


PV-PLS-S, PV-PLS-B, may be followed by suffix numbers and letters, may be followed by suffix numbers and letters.	1000 Vdc / 600 V dc, 30A max; 10, 12 and 14 AWG PV wires, USE-2 cables (Factory and field assembled connectors on Listed TYLZ Type - USE-2 cables are limited to the max. 600V dc only) 1500 V dc, 30A max.; 10, 12 and 14 AWG PV wires, Factory Wiring Only! (1500V dc only when assembled on Listed cable type Photovoltaic Wire (ZKLA) rated 2000V)
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /2.5, followed by I-, followed by a single letter, followed by /L/, followed by a single letter, may be followed by suffix numbers and letters.	600 V dc, 30A max; 14 AWG PV, USE-2 cables
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /2.5, followed by I-, followed by a single letter, followed by /M/, followed by a single letter, may be followed by suffix numbers and letters.	1000 V dc, 30A max; 14 AWG PV cables
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /L/, followed by a single letter, may be followed by suffix numbers and letters.	600 V dc, 30A max; 12 and 14 AWG PV, USE-2 cables
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /M/, followed by a single letter, may be followed by suffix numbers and letters.	1000 V dc, 30A max; 12 and 14 AWG PV cables
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /6, followed by III-, followed by a single letter, followed by /L/, followed by a single letter, may be followed by suffix numbers and letters.	600 V dc, 30A max; 10 and 12 AWG PV, USE-2 cables
PV-KST4EVO1.0, PV-KBT4EVO1.0 followed by /6, followed by III-, followed by a single letter, followed by /M/, followed by a single letter, may be followed by suffix numbers and letters.	1000 V dc, 30A max; 10 and 12 AWG PV cables
PV-ADSP4-S2-UR, PV-ADSP4-S2, PV-ADBP4-S2-UR and PV-ADBP4-S2 followed by /2.5 or /6, may be followed by suffix numbers and letters.	600 V dc, 30 A max with 14 AWG USE-2 cable 600 V dc, 35 A max with 12 AWG USE-2 cable 600 V dc, 50 A max with 10 AWG USE-2 cable
PV-ADSP4-S2-UR, PV-ADSP4-S2, PV-ADBP4-S2-UR and PV-ADBP4-S2 followed by /2.5 or /6, may be followed by suffix numbers and letters.	1000/1500 V dc, 30 A max with 14 AWG, PV wire 1000/1500 V dc, 35 A max with 12 AWG, PV wire 1000/1500 V dc, 50 A max with 10 AWG, PV wire
PV-ADS4-EVO 2/2.5 or 6, PV-ADB4-EVO 2/2.5 or 6, followed by -UR, maybe followed by suffix numbers and letters.	1500 V dc, 30 A max with 14 AWG cable 1500 V dc, 35 A max with 12 AWG cable 1500 V dc, 50 A max with 10 AWG cable
PV-ADS4-EVO 2/2.5 or 6, PV-ADB4-EVO 2/2.5 or 6, followed by -UR, maybe followed by suffix numbers and letters.	1500 V dc, 30 A max with 14 AWG cable 1500 V dc, 35 A max with 12 AWG cable 1500 V dc, 50 A max with 10 AWG cable
KBT10BV, KST10BV, and ID/S10BV	1500 V dc, 300 A max for use with 1 AWG, and 2/ 0 AWG cables

Cat. No.	Electrical Rating
<b>Male PV connectors</b>	
PV-KST4-EVO2/2.5, 6 or 10, followed by I, II, III or IV, followed by -UR. Female PV connectors, PV-KBT4-EVO2/2.5, 6 or 10, followed by I, II, III or IV, followed by -UR	1000/1500 V dc, 30 A max with 14 AWG cable 1000/1500 V dc, 35 A max with 12 AWG cable 1000/1500 V dc, 50 A max with 10 AWG cable 1000/1500 V dc, 70 A max with 8 AWG cable
<b>Note:</b> Connectors assembled on Listed TYLZ Type USE-2 cable are limited to the maximum voltage of 600V dc only!	
<b>Note:</b> 1500V dc only when assembled on Listed cable type Photovoltaic Wire (ZKLA) rated 2000V.	
<b>Photovoltaic Connectors (Branch Splitters)</b>	
PV-AZS4 (male), PV-AZB4 (female)	1500 V dc, 50A max.
<b>Note:</b> The ampere and voltage ratings of the Branch Splitters is limited by the intended Input / Output mating connector of series PV-KST4... and PV-KBT4...; connector series PV-KST4-EVO 2/... and PV-KBT4-EVO 2/...; connector series PV-PLS-S, PV-PLS-B. The ampacity rating of these combinations are limited based on the wire size used per the National Electrical Code (NEC) requirements for Free Air applications considering the correction factor.	

## Conditions of Acceptability:

1. These devices shall be used only where they will not interrupt the current. The components are marked "Do Not Disconnect Under Load." In addition, the need to include specific instructions in the end-use equipment's manual describing the method of achieving disconnect while not under load shall be considered.

2. These components use a material that has an RTI for Mechanical with Impact less than that required for unrestricted Listing. Consideration shall be given to required mechanical protection in the end use.
3. Connector Nos. PV-KBT3 and PV-KST-3, followed by I, II and III, and Nos. PV-KST4, PV-KBT4, followed by /2.5 or /6, followed by "I" or "II," followed by -UR, have been investigated as acceptable for assembly in the field by qualified electricians with factory-provided tooling.
4. These devices have only been assessed for UL Recognition with specific types of mated connectors within their product family. They have not been assessed to operate with any other similar devices from any other manufacturer
5. Connector Nos. PV-KST4EVO1.0 followed by /2.5, followed by I-, followed by a single letter, followed by /L/ or /M/, followed by a single letter. and Nos. PV-KBT4EVO1.0 followed by /2.5, followed by I-, followed by a single letter, followed by /L/ or /M/, followed by a single letter, have been investigated as assembly in factory only.
6. Connector Nos. PV-KST4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /L/, followed by a single letter and Nos. PV-KBT4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /L/, followed by a single letter, have been investigated as acceptable for assembly in the field by qualified electricians with factory-provided tooling.r
7. Connector Nos. PV-KST4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /L/, followed by a single letter and Nos. PV-KBT4EVO1.0 followed by /2.5 or /6, followed by II-, followed by a single letter, followed by /L/, followed by a single letter, have been investigated as acceptable for assembly in the field by qualified electricians with factory-provided tooling.
8. Connector Nos. PV-ADSP4 and PV-ADBP4 followed by /2.5 or /6, have been investigated as assembly in factory only.
- 9 These are locking type connectors that require a tool for separating the male and the female connectors from their mating position.

Marking: Company name catalog designation and the Recognized Component Mark  on the device or carton.

Last Updated on 2018-06-19

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