FAST MOVING TECHNOLOGY

MC4-Evo 2 In-line Fuse
MC4-Evo 2 Y-Splitter

Solarline | Solutions for renewable energy

EN

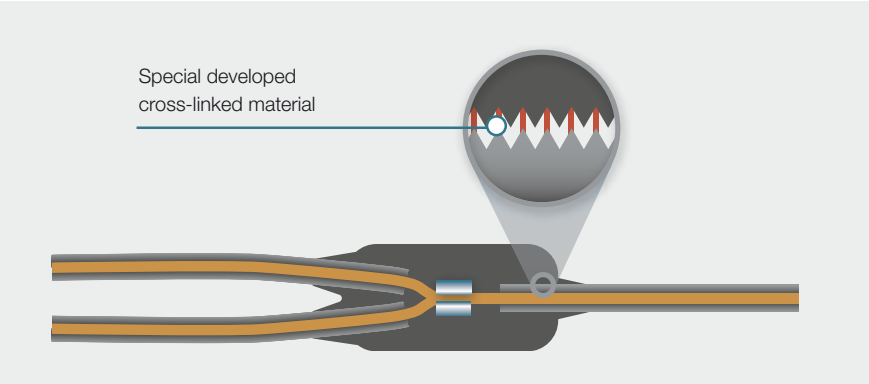


DC INTERCONNECTION SOLUTIONS

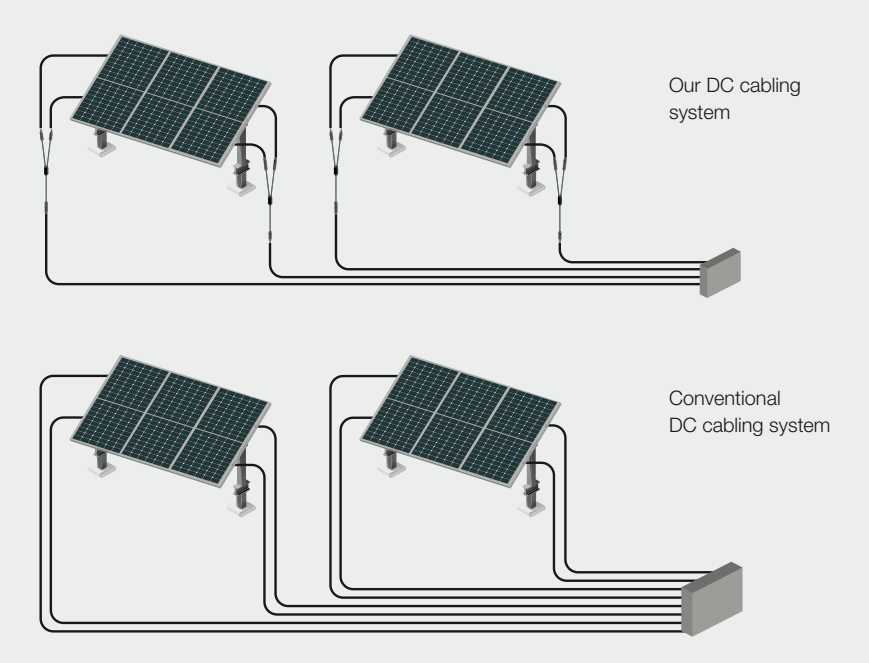
Best-in-class eBoS components for your PV system

Our DC cabling system offers first-class quality and outstanding functionalities. The unique manufacturing process through vulcanization ensures permanent highest protection against ingress and will provide best-in-class performance even under harsh climatic conditions.

Worldwide unique vulcanization process



Less material use and short assembly time



Product features and your benefits

Product features and advantages	Customer benefits
Enclosure concept and design (Vulcanization Process)	Best-in-class **product reliability** • Product lifetime expectancy • Insulation performance • Harsh environment compliant
Certified product safety	Product trust in **safety and reliability** • Meeting relevant industry standards (2PfG 1911, 2PfG 2380) • Verified by independent third party
Track record	**Proven long-term reliability** • Installed base (>4 GW) • Systems operating in harsh environment and conditions
Original MC4-Evo 2 connectors	Best-in-class **connector technology** • More reliable and durable operation • Less downtimes and performence losses

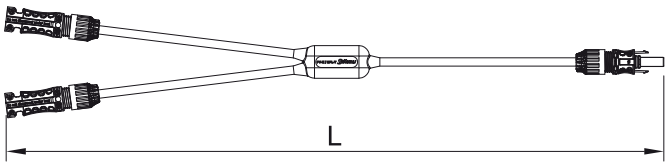
Solution features and advantages	Customer benefits
Lower total cost of ownership	**Cost savings** compared to conventional DC cabling design • Less material and components used (optimized CAPEX) • Insensitivity due to fewer components and maintenance (optimized OPEX)
Plug and play	**Time and cost savings** compared to field assembly • Ready-to-use product design with connector assembly • Reducing potential failure risks due to incorrect installation
Stäubli Excellence	Well acknowledged **Stäubli quality** • Trustworthy product and solution source • Controlled supply chain with state-of-the-art quality components
Engineered in Europe and sustainable manufactured	Meeting state-of-the-art ESG requirements • Hightest **product quality** • Sustainable supply chain and **low carbon footprint**

Y-SPLITTER

MC4-Evo 2 Y-Splitter (PV-K/SPL-Y)

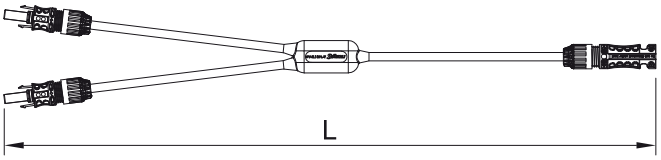
PV-K/SPL-Y...ES...





PV-K/SPL-Y...EP...





Technical data	
Connector system	MC4-Evo 2
Voltage rating	DC 1500 V
Test voltage	8 kV
Safety class	II
Overvoltage category Pollution degree	CATIII/3
Mating connectors, only genuine Stäubli connectors shall be used!	Original MC4 cable coupler and panel receptacle Original MC4-Evo 2 cable coupler and panel receptacle
Ambient temperature range	-40 °C ... +85 °C
Transportation/storage temperature range	-30 °C ... +60 °C
Transportation/storage relative humidity	< 70 %
Degree of Protection (IP), mated unmated	IP65/IP68 (1 m, 1 h) IP2X
Insulation material	PA, EVA, XLPE
Contact material	Copper, tin plated
Max. contact resistance of the connector	< 0,25 mΩ
Certified according to TUV Rheinland 2PfG 1911	pending

STÄUBLI

The MC4-Evo 2 Y-Splitter is TÜV Rheinland certified and guarantees a long-lasting, stable connection within a PV DC string: Minimal energy loss, low heat generation. Robust housing, safety class IP68 (1 m, 1 h). Cable cross-section 6 mm².

Order No.	Type	TÜV (2PfG 1911)		Lead length	Connector system	Input Connector	Output Connector	Approvals
		DC V	A	L (cm)				TÜV
32.0333	PV-K/SPL-Y-6-15/15-15EPP/ES-0050	1500	53	50	MC4-Evo 2	Plug (2 ×)	Socket (1 ×)	×
32.0334	PV-K/SPL-Y-6-15/15-15ESS/EP-0050	1500	53	50	MC4-Evo 2	Socket (2 ×)	Plug (1 ×)	×

MA

Assembly instructions MA706

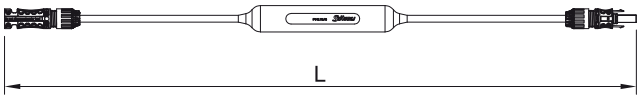
www.staubli.com/electrical

IN-LINE FUSE

MC4-Evo 2 In-line Fuse (PV-K/ILF3)

PV-K/ILF3...





Technical data	
Connector system	MC4-Evo 2
Voltage rating	DC 1500 V
Test voltage	8 kV
Safety class	II
Overvoltage category Pollution degree	CATIII/3
Mating connectors, only genuine Stäubli connectors shall be used!	Original MC4 cable coupler and panel receptacle Original MC4-Evo 2 cable coupler and panel receptacle
Rated current gPV	4 A 5 A 6 A 15 A 20 A
Ambient temperature range	-40 °C ... +50 °C
Transportation/storage temperature range	-30 °C ... +50 °C
Transportation/storage relative humidity	< 70 %
Degree of Protection (IP), mated unmated	IP65/IP68 (1 m, 1 h) IP2X
Insulation material	PA, EVA, XLPE
Contact material	Copper, tin plated
Max. contact resistance of the connector	< 0,25 mΩ
Certified according to TÜV Rheinland 2PfG 2380	pending

The MC4-Evo 2 In-line Fuse (PV-K/ILF3) with a crimping connection guarantees a long-lasting, stable connection in comparison to conventional omega-style clips: Minimal energy loss, low heat generation. Robust housing, safety class IP68 (1 m, 1 h). Cable cross-section 6 mm².

Order No.	Type	TÜV (2PfG 2380)		Lead length	Connector system	Approvals
		DC V	A	L (cm)		TÜV
32.0326	PV-K/1500ILF3-4/6E-0059	1500	4	59	MC4-Evo 2	×
32.0327	PV-K/1500ILF3-5/6E-0059	1500	5	59	MC4-Evo 2	×
32.0328	PV-K/1500ILF3-6/6E-0059	1500	6	59	MC4-Evo 2	×
32.0329	PV-K/1500ILF3-15/6E-0059	1500	15	59	MC4-Evo 2	×
32.0330	PV-K/1500ILF3-20/6E-0059	1500	20	59	MC4-Evo 2	×

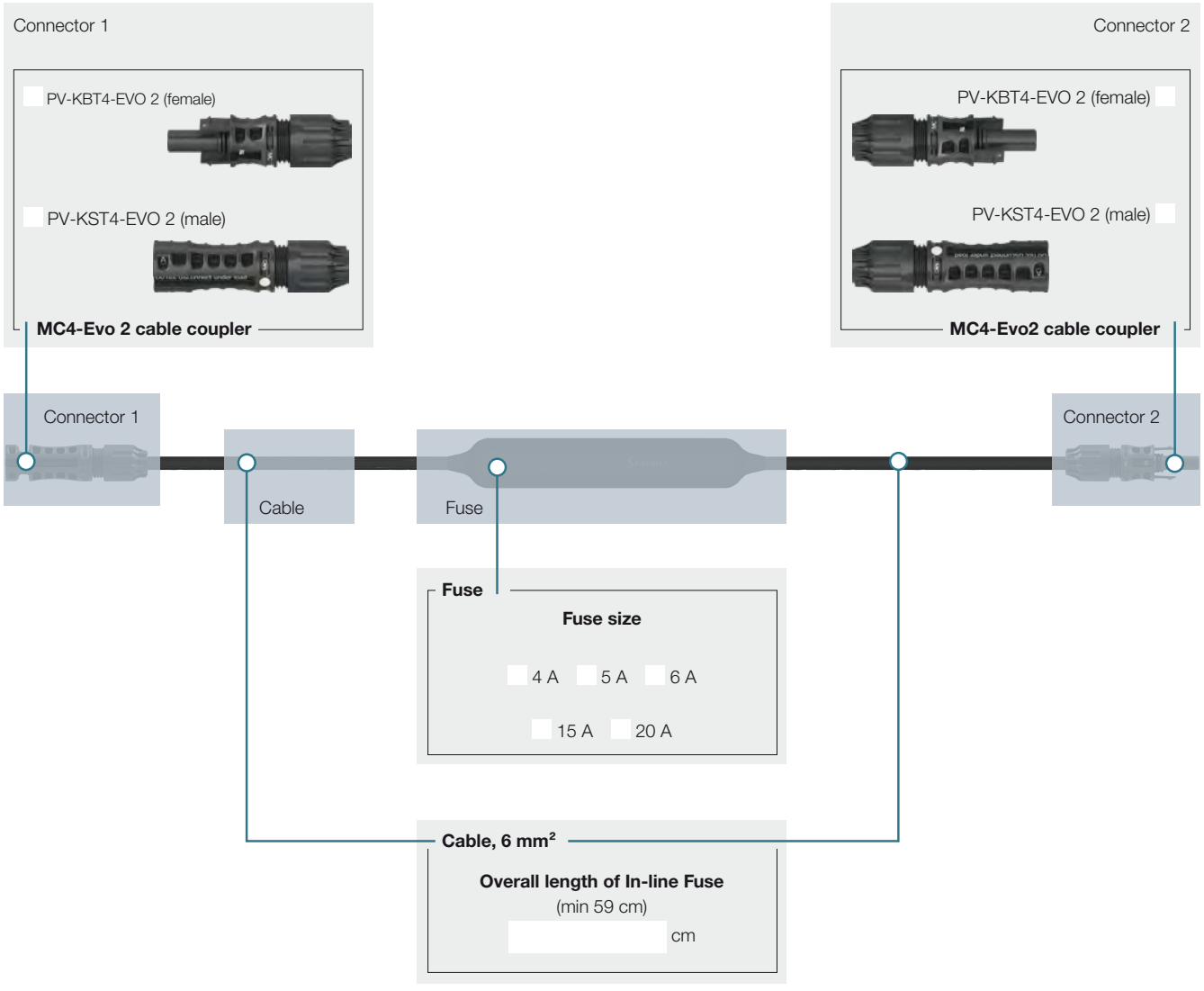
MA

Assembly instructions MA707

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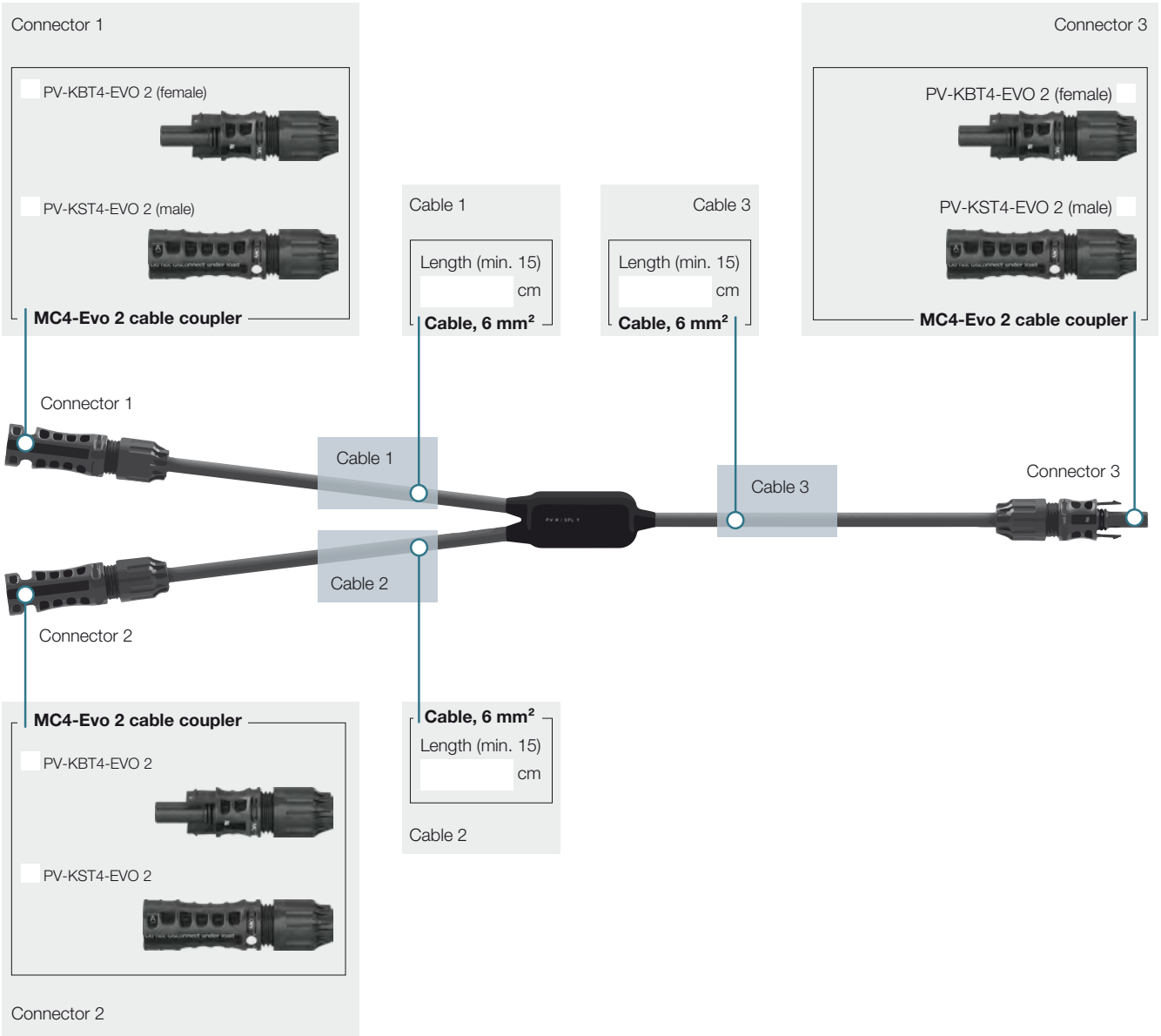
Customer and application specific cable assemblies

MC4-Evo 2 In-line Fuse (PV-K/ILF3) according to your request



Please send your request to:
ec.ch@staubli.com

MC4-Evo 2 Y-Splitter (SPL-Y) according to your request



Cable lead according to your request

Connector 1

MC4 cable coupler

- ☐ PV-KBT4 (female)



- ☐ PV-KST4 (male)



MC4 panel receptacle

- ☐ PV-ADBP4-S2 (female)



- ☐ PV-ADSP4-S2 (male)



MC4-Evo 2 cable coupler

- ☐ PV-KBT4-EVO 2 (female)



- ☐ PV-KST4-EVO 2 (male)



MC4-Evo 2 panel receptacle

- ☐ PV-ADB4-EVO 2 (female)



- ☐ PV-ADS4-EVO 2 (male)



Cable

Cross section (mm²)

☐ 2.5 ☐ 4 ☐ 6 ☐ 10

Overall length of cable lead

_____ cm

Connector 2

MC4 cable coupler

- ☐ PV-KBT4 (female)



- ☐ PV-KST4 (male)



MC4 panel receptacle

- ☐ PV-ADBP4-S2 (female)



- ☐ PV-ADSP4-S2 (male)



MC4-Evo 2 cable coupler

- ☐ PV-KBT4-EVO 2 (female)



- ☐ PV-KST4-EVO 2 (male)



MC4-Evo 2 panel receptacle

- ☐ PV-ADB4-EVO 2 (female)



- ☐ PV-ADS4-EVO 2 (male)





Please send your request to:
ec.ch@staubli.com

PV Sol MC4-Evo 2 ILF+Y-SPL 11014106-en A 05.2022



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