

# String fuse JuCon SF 1.5 (certified)

High-performance protection



## Key data

- Overcurrent protection
- Protects strings from reverse current overload caused by earth faults, short circuits or incorrect installation
- Premium quality directly from the manufacturer
- Tailor-made solutions
- Assembly according to customer's specifications
- Released by Jurchen Technology in combination with all components listed on the data sheet

General data	
Type	JuCon SF1.5 (TÜV Rheinland)
Electrical data	
Fuse characteristic	gPV (PV-Fuse)
Rated current (at 25°C)	10A, 25A, 30A,
Derating at max. ambient temperature	0.9
Rated voltage	Up to 1500 V <sub>DC</sub>
Rated input voltage	16 kV
Breaking capacity	30 kA
Tests	Durability of marking (IEC 60512; 2PFG 2380/10.21)
	Protection against electric shock (IEC61032 probe 11)
	Bending test (IEC 60512; 2PFG 2380/10.21)
	Temperature rise (IEC 60512, conditions from 2PFG 2380/10.21)
	Fusing and Non-Fusing current (2PFG 2380/10.21)
	Dielectric strength (IEC 60512-4-1, test 4a; 2PFG 2380/10.21)
	Dry heat (IEC 60512 11i; 2PFG 2380/10.21)
Spark test in accordance with EN 50395 section 10 with 15kV AC	
Thermal data	
Ambient temperature range	- 40 °C to + 50 °C (from -40 °F to +122°F)
Max. operating temperature	- 40 °C to + 115 °C
Thermal cycle test	According to IEC 60068-2-14 test Nb
Damp heat test	According to IEC 60068-2-78
Resistance to cold	Cold impact test acc. to 2PFG 2380/10.21
Termination and connection	Crimping
Mechanical data	
Degree of protection (IP-Code)	IP65, IP66, IP68 (1h, 1 m) according IEC 60529
Pollution degree	1

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High-performance protection

Jurchen Technology GmbH  
Prinz-Ludwig-Straße 5  
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Germany

Chemical data	
Molding material	EVA compound 120 °C based on DIN EN 50363-2-1 Molding material and cable sheath are cross-linked
Weather resistance	Ozone resistance acc. to DIN EN 50396 test type B
	UV-resistance according to ISO 4892-2 (Method A)
Behavior in case of fire	Acc. To EN50618, table 2: Single cable flame test per EN60332-1-2; Low smoke emission per EN 61034-2 Halogen-free per EN 50525-1. Annex B
Solar cable	
Manufacturer	Prysmian Kabel
Approvals / Certificates	EN 50618 / IEC 62930 TÜV Rheinland Certificate Nr. 60103637
Conductor	Electrolytic copper, tinned, Class 5 according to IEC 60228
Cross section	6mm <sup>2</sup>
Bending radius	Min. 4x D(D= outer diameter maximum value) D = 6,5 mm for 6 mm <sup>2</sup> wire cross section
Sheath colors	Black
Fuse	
Manufacturer	Adler Elektrotechnik Leipzig GmbH
Approvals / Certificates	UL 248-19; IEC 60269-6:2010+A1
Both-sided connectivity	
PV-Connectors	Stäubli MC4 EVO2: PV-KST4-EVO2/xy-UR; PV-KBT4-EVO2/xy-UR MC4 EVO2A: PV-KST4-EVO2A/xy-UR; PV-KBT4-EVO2A/xy-UR
Open end	
Packaging	
Smallest Unit	1 piece



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