



DC Cabling for Floating PV

JuCon – perfect for Floating PV thanks to unique vulcanization process

The JuCon DC cabling system offers first-class quality at a good price-performance ratio. No other cabling harness system has a comparable high degree of tightness as our JuCon series manufactured in Germany. This JuCon system is therefore ideally suited for the construction of floating PV power plants, in particular.

Vulcanization ensures permanent tightness, even under mechanical stress and extreme climatic conditions. The JuCon encloses the joints with the same material as the sheathing of the respective photovoltaic cable.



Advantages

- Saltwater resistance
- Degree of protection IP68
- High efficiency due to minimal contact resistance
- Low O&M expenditure due to high quality standard
- Expected service life > 25 Years
- Proven system since 2012
- TÜV certification up to 1500 V
- Easy to integrate, modular system with many accessories

Technical data JuCon DC cabling system		
Connector manufacturer	Stäubli PV-KST4-EVO 2/xy-UR PV-KBT4-EVO 2/xy-UR	Phoenix Contact PV-CM-C-xxxx-SET PV-CF-C-xxxx-SET
Rated current 6mm ² at 85°C acc. to IEC 62852	53 A	35 A
Upper limit temperature	115°C	105°C
Rated voltage	up to 1500 V DC acc. IEC 62852	
Degree of protection	IP65, IP68 (1h,1m)	
Insulation material	EVA-Compound 120 °C, DIN VDE 0282-2, HD22.1	
Ambient temperature	- 40 °C to + 90 °C	
Max. operating temperature	- 40 °C to + 120 °C	
Resistance against	Ozon, acc. 2PfG 1913/04.11; UV, acc. 2PfG 1913/04.11	
	Moisture heat (steam heat test): 1,000 h at 90 °C and 85% humidity, according to DIN EN 60068-2-78	
	Long-term-resistance of insulation to DC acc. to 2PfG 1913/04.11: 240h, 1,5kV DC in water at 85°C	
	Ammonia, 30 days in saturated NH3-atmosphere (internal test)	
Dielectric strength acc. to 2 PfG 1913/04.11	Voltage test 1 h in water, 6,5 kV AC (5 minutes)	

Info JuCon for Floating PV - 20200408 - All data may subject to alterations and errors.



Underwater test



Laboratory Analysis

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