






# Datasheet

## Halogen-free PV cable for PV system

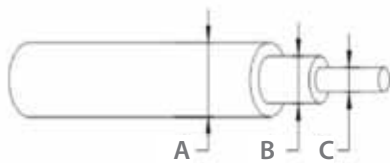
PV cable is mainly used in equipment connecting of solar power system, solar power plant, PV system and so on.

Rated diameter	2.5	4	6	
Standard	2Pfg 1169/08.2007	2Pfg 1169/08.2007	2Pfg 1169/08.2007	
Protection class	II	II	II	
Type	PV 1-F	PV 1-F	PV 1-F	
Core No.	Single	Single	Single	
Rated AC voltage(Uo/U)	0.6/1KV	0.6/1KV	0.6/1KV	
Max. DC operating voltage	1.8KV	1.8KV	w1.8KV	
Ambient temperature	-40°C-90°C	-40°C-90°C	-40°C-90°C	
Maximum permissible temperature at conductor by normal operation	120°C	120°C	120°Cw	
Maximum short-circuit temperature at conductor max.5s	200°C	200°C	200°C	
Shrinking test	EN 60811-1-3	EN 60811-1-3	EN 60811-1-3	
Heat pressure test	EN 60811-1-3	EN 60811-1-3	EN 60811-1-3	
Ozone resistance	EN 50396	EN 50396	EN 50396	
Resistance to acids and bases	EN 60811-2-1	EN 60811-2-1	EN 60811-2-1	
Withstand voltage test	EN50395	EN50395	EN50395	
Marking	 TÜV 2 PFG 1169 PV1-F 1X2.5mm <sup>2</sup> <b>CHNT</b>	 TÜV 2 PFG 1169 PV1-F 1X4mm <sup>2</sup> <b>CHNT</b>	 TÜV 2 PFG 1169 PV1-F 1X6mm <sup>2</sup> <b>CHNT</b>	
Shrinking test	EN 60811-1-3	EN 60811-1-3	EN 60811-1-3	
Conductor	Material	Tinned copper	Tinned copper	Tinned copper
	Max. diameter of single conductor	0.26mm	0.31mm	0.31mm
	Max. resistance of conductor (20°C)	8.21Ω/km	5.09Ω/km	3.39Ω/km



Insulation	thickness	0.9mm	1.0mm	1.0mm
	Outer diameter	3.9mm	4.2mm	5.2mm
	colour	black	black	black
sheath	thickness	0.9mm	1.0mm	1.0mm
	Outer diameter	5.8mm	6.2mm	7.3mm
	colour	black	black	black
Net weight()		53Kg/Km	71 Kg/Km	101 Kg/Km
Minimum bending radii		17mm	18mm	22mm
Maximum allowed tensile load		37.5N	60N	90N
Short-circuit current(1S)		0.33KA	0.52KA	0.76KA
Current-carrying capacity	Single cable free in air	30A	41A	55A
	Single cable on surface	29A	39A	52A
	To cables adjacent on surfaces	24A	33A	44A

## PRODUCT STRUCTURE



- A: Jacket
- B: Insulation
- C: Conductor

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