

ZHEJIANG PNTECH TECHNOLOGY CO.,LTD.

(Technical Specification For Cable)

Ref. No	DC Solar PV cable		Construction Figure			
Standard	TUV Rheinland 62930 IEC 131					
Construction	1x10mm ²					
Conductor						
Cross Section	mm ²	10mm ²				
Construction	mm	80x0.4 (±0.015)				
Material	—	Tinned copper wire				
O.D	mm	4.6				
Insulation			Electrical Characteristics			
Material	—	125°C Electron-beam Irradiated XLPO	Rated Voltage (V) AC U ₀ /U ₁ .0/1.0KV , DC1.5KV			
Avg.Thick	mm	0.8	Conductor dc resistance (Ω/KM) ≤1.95Ω/km Max at 20°C			
Min.Thick	mm	0.58	Temperature range: -40°C ~ +90°C			
O.D	mm	6.6 (±0.1)	Maximum working temperature:120°C			
Color	—	Black	The service life of the theory: 25 years			
Jacket			Physical Properties			
Material	—	125°C Electron-beam Irradiated XLPO	Elongation of unaged values(%)≥125%			
Avg.Thick	mm	0.9	Tensile strength of unaged values (N/mm ²):≥6.5&8.5			
Min.Thick	mm	0.71	Aged in a full draft circulating air oven: 150±2.0°C/168h			
O.Dmm	mm	8.5±0.2	Elongation of After aging:≤30%			
Color	—	Black/ Red/Grey/Brown	Tensile strength of After aging: ≤30%			
Marking			Bending radius: ≥4xφ (D<8mm) ≥6xφ (D≥8mm)			
62930 IEC 131 HALOGEN FREE LOW SMOKE DC1.5KV 1X10mm ² ZHEJIANG PNTECH TECHNOLOGY CO.,LTD.			Cold bend test:EN60811-1-4 (-40±2°C*16h No cracking)			
Marking			Cold impact test:(-40°C*16h/1000g; 100mm No cracking)			
Standard export: 100 M /Roll			Flame test:EN60332-1-2			
			APPROVED	CHECKED	DESIGNE	DDATE