

TECHNICAL DATA SHEET

Product name	Single Core Solar cable PV1-F
Construction	
Conductor:	Tinned fine copper strands, according to VDE 0295/IEC 60228, class 5
Insulation:	Co-Polymer (XLPO)/Cross-linked polyethylene (XLPE)
Sheath	Co-Polymer (XLPO)/Cross-linked polyethylene (XLPE)
Voltage rating	600/1000 V AC, 1800 V DC
Color	Black or Red
Material properties/Standards	
Fire performance:	IEC 60332-1
Smoke emission:	IEC 61034; EN 50268-2
Low fire load:	DIN 51900
Application standards:	RoHs TUV SUB
Technical specification	
1) Nominal voltage: $U_0/U=600/1000V$ AC, 1000/1800V DC 2) Test voltage: 6500V, 50HZ, 5min 3) Max. conductor temperature: $-40^{\circ}C$ up to $+120^{\circ}C$ 4) Ambient temperature: $-40^{\circ}C$ up to $+90^{\circ}C$ 5) Max. Short circuit temperature: $280^{\circ}C$ 6) Bending radius: fixed installation $>4 \times \Phi$ Occasionally moved $>5 \times \Phi$ 6. Compatible to all popular connectors	

Specifications

Conductor size(Sq.mm)	Number/ Diameter of wires (NO./mm)	Conductor Ø(mm)	Outer Ø(mm)	Resistance max(Ω/km)	Approx Weight(kg/km)
1×4	56/0.30	2.90	6.38	5.09	75.36
1×6	84/0.30	3.60	7.52	3.39	107.17
1×10	84/0.40	4.90	8.82	1.95	161.60

Application: Specifically designed for connecting photovoltaic system components inside and outside of building and equipment with high mechanical requirements and extreme weather conditions .For permanent installations