

PV1-F Solar Cable Specifications

Cable Construction

Conductor	Tinned copper, electrical property & Structure in accordance with EN60228 Class 5.
Insulation	LSZH electron-beam cross-linked Polyolefin copolymer ROHS material, prior color black or as per customer's request.
Outer Sheath	LSZH & UV-resistant electron-beam cross-linked Polyolefin copolymer ROHS material, prior color black or as per customer's request.

Technical Specification

Nominal Voltage	UO/U 0.6/1KV(AC)/ 1KV(DC)
Test Voltage	No break down at 6.5kv(AC)50HZ 5min & 20°C±0.5/15kv(DC)5min 20°C±0.5
Temperature Rating connectors	Working temperature -40°C~+90°C,Max conductor temperature 125C(continuously20h),Allowable short circuit temperature 200°C in 5second
Service Life	Expected life spanz25 years
Bending Radius	Fixed Installation>4D Occasionally moved>5D

Material Properties/Standards

Fire-resistant Performance	IEC 60332-1
Gas Emission	IEC 61034 ; EN50268-2
Low fire load	DIN 51900
Approvals	TUV 2PFG 1169/08.2007 PV1-F
UNE211 23	UNE 20.460-5-52,UTE C 32-502

Dimensions/Parameters

Construction	Conductor Construction	Insulation Nominal Thickness	Sheath Nominal Thickness	Outer Diameter	ConductorResistance at 20°C Max	Current Carrying Capaci
n×mm	mm	mm	mm	Ω/Km	A	A
1x16	126x0.39	≥0.5	≥0.5	8.5	1.24	132
1x6	84x0.28	≥0.5	≥0.5	6.2	3.39	70
1x4.0	56x0.28	≥0.5	≥0.5	5.9	5.09	55
1x2.5	49x0.24	≥0.5	≥0.5	5.2	8.21	41
1x10	77x0.39	≥0.5	≥0.5	7.3	1.95	98