

TÜV 2 PFG 1169 PV1-F 1000 DC (Twin Cable)

Advantages

- ◆ E-beam cross-linked compounds
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow
- ◆ Flexibility under cold conditions
- ◆ Long usable life, expected usable life over 25 years (90°C)
- ◆ Applicable to all common connectors

Application

In a solar power system of rated voltage $U_0=0.6KV$, PV cables are used to connect between solar panels and inverters.

Construction

- ◆ Conductor : Soft tinned annealed copper according to VDE 0295 / IEC 60228, class 5
- ◆ Insulation : XLPE, halogen free, E-Beam cross-linked compounds
- ◆ Jacket : XLPE, flame retardant, halogen free, E-beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : Black / Red

Electrical performance

- ◆ Rated Voltage : $U_0/U=0.6/1KV$ AC 1000/1800V DC
For DC installation
- ◆ Test Voltage : 6500V/5min

Material characteristics / standard

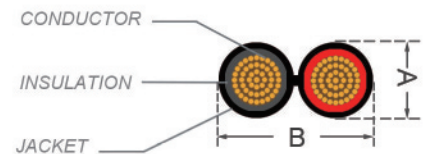
- ◆ Fireproof performance : IEC 60332-1; IEC 60332-3-24
- ◆ Smoke emission : IEC 61034; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV
- ◆ Applied standard: 2 PFG 1169/08.2007

Bending radius

- ◆ Fixed setting : $>4 \times \varnothing$
- ◆ Moves on occasion : $>5 \times \varnothing$

Thermal performance

- ◆ Operation temperature : $-40^\circ C \sim +120^\circ C$
- ◆ Ambient temperature : $-40^\circ C \sim +90^\circ C$
- ◆ Maximum short circuit temperature : $280^\circ C, +536^\circ F, 5s$



General characteristics



Conductor	Insulation	Outer Jacket	Construction	Outer Dia.		Conductor resistance (20°C)	Current
				mm	mm		
n×mm ²	mm	mm	N/mm	A	B	max.mΩ/m	A
2×4.0	0.90	0.80	56/0.30	6.10±0.1	14.00±0.1	5.09	55.0
2×6.0	1.00	0.80	84/0.30	7.10±0.1	20.00±0.1	3.39	70.0