

## 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

### Electrical performance

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

### Material characteristics / standard

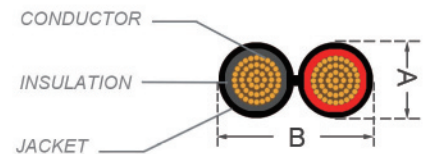
- ◆ Fireproof performance : IEC 60332-1; IEC 60332-3-24
- ◆ Smoke emission : IEC 61034; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV
- ◆ Applied standard: 2 PFG 1169/08.2007

### 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 <sup>2</sup>	Color	Color	N/mm	A	B	max.mΩ/m	A
2×4.0	Black/Red	Black	56/0.285±0.005	5.0±0.1	10.10±0.2	5.09	55.0