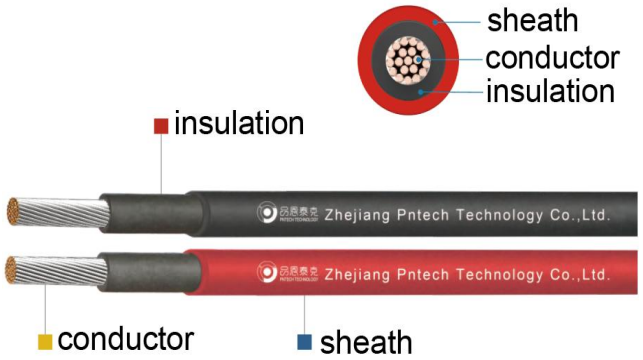
（Technical Specification For Cable）

Ref. No	DC Solar PV cable
Standard	TÜV/ 2PfG 1169
Model	PV1-F

Construction Figure



Conductor

Cross Section	mm²	4mm²
Construction Tinned copper wire	mm	56x0.285（±0.015）
Conductor Material	—	Tinned copper wire
DIA	mm	2.42

Insulation

Insulation Material	—	125℃ Electron-beam Irradiated XLPO
Insulation Thickness（Avg	mm	0.75
Insulation Thickness（Min）	mm	0.55
Insulation Od.	mm	4.1（±0.1）
Insulation Color	—	Black

Jacket

Jacket Material	—	125℃ Electron-beam Irradiated XLPO
Jacket Thickness（Avg）	mm	0.8
Jacket Thickness（Min）	mm	0.58
Cable Od.	mm	5.5±0.2
Cable Color	—	Black/ Red

Marking

TÜV 2PfG 1169 PV1-F 1X4mm² AC 0.6/1.0KV DC 1.0KV Solar PV Cable

Package

Standard export: 100 M /Roll ,250 M /Roll ,500 M /Roll ,1000 M /Drum ,2500 M /Drum ,5000 M /Drum

Electrical Characteristics

Rated Voltage (V) ： DC1.0KV	
Test voltage:AC 6.5KV,50Hz 5min	
Conductor Max. Resistance AT 20℃（Ω/KM）≤5.09	
Working Temperature ： -40℃～+90℃	
Shork Circuit Temperature:250℃ 5s	
The service life of the theory：25 years	

Physical Properties	Test method
(test are before aging)elongation of insulation/sheath:125%↑	EN 60811-1-1
(test are before aging)Tensile strength of insulation/sheath:8.0Mp↑	
(test are after aging)elongation of insulation/sheath	EN 60811-1-2
(test are after aging)Tensile strength of insulation/sheath	
Shrinkage resistant：≤2%	EN 60811-503
UV ressistant	EN 50289-4-17
Fire performance	IEC60332-1-2
Bending radius：≥4xφ（D＜8mm）≥6xφ（D≥8mm）	

APPROVED	CHECKED	DESIGNE	DATE