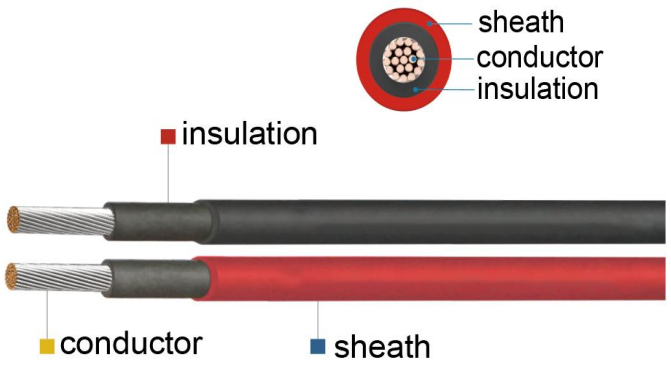
（Technical Specification For Cable）

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

Construction Figure



Conductor		
Cross Section	mm²	2x4mm²
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	0.7
Insulation Thickness（Min）	mm	0.53
Insulation Od.	mm	4（±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	(5.6±0.15)*(11.5±0.2)
Cable Color	—	Black/ Black with note

Marking

PV1-F 2x4mm² TÜV APPROVED SOLAR DC CABLE
DO NOT DISCONNECT UNDER LOAD

Package

Standard export: 100 M /Roll

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