



# EURONET

ISO 9001: 2015 CERTIFIED COMPANY



## SOLAR PV CABLES DATASHEET

### BLACK & RED

4MM | 6MM | 10MM | 16MM | 25MM

100 Meter



# Solar Cable 4mm

Cable Technical Specifications				
Ref.No	SOLAR CABLE		Picture	
Standard	TUV 2PFG 1169		<p>The image shows two solar cables with red and black insulation. Below them is a cross-sectional diagram of the cable, labeled with 'A' for the conductor diameter and 'C' for the jacket thickness. To the right of the diagram are labels for '导体 Conductor', '护套 Jacket', and '绝缘 Insulation'.</p>	
Structure	1x4mm <sup>2</sup>			
Electric Conductor				
Construction Item	mm <sup>2</sup>	4mm <sup>2</sup>		
Construction	mm	56*0.28(±0.015)		
Material	Tinned copper wire			
O.D	mm	/		
Insulation				Electric Characters
Material	125C Electron-beam Irradiated XLPO			Rated voltage (V): AC U <sub>0</sub> /U <sub>1</sub> .0/1.0KV DC1.5KV
Avg.Thick	mm	0.75		Conductor DC resistance: (Q/KM)5.09Q/km Max at 20 °C
Min.Thick	mm	0.55	Temperature range: -4°C ~ + 90°C	
O.D	mm	/	Maximum conductor operating temperature: 120°C	
Color	Black/ Red/Grey/Brown		Theoretical service life: 25 years	
Jacket			Physical Property	
Material	125C Electron-beam radiated XLPO		Elongation of unaged values (%) ≥125%	
Avg.Thick	mm	0.8	Tensile strength of unaged values (N/mm <sup>2</sup> ):6.5&8.5	
Min.Thick	mm	0.58	Aging in the fully ventilated circulation air oven: 150 + 2.0 °C / 168h	
O.D	mm	6.0±0.2	Elongation rate after aging : ≤30%	
Color	Black/ Red/Grey/Brown		Tensile strength after aging : ≤30%	
Marking			Bending radius : ≥4xφ(D<8mm)≥6xφ(D≥8mm)	
TUV 2PFG 1169 1X4.0MM2 EURONET			Cold bending test: EN60811-1-4 (-40 ± 20°C16h without cracking)	
Packing specifications			Cold shock test: - (40°C* 16h / 1000g; 100mm without cracking)	
Packing : 100M/Roll,200M/roll, 500M/roll,1000M/ Drum ,2500M/Drum 5000M/Drum			Flame retardant test: EN60332-1-2	

# Solar Cable 6mm

Cable Technical Specifications				
Ref.No	SOLAR CABLE		Picture	
Standard	TUV 2PFG 1169			
Structure	1x6mm2			
Electric Conductor				
Construction Item	mm <sup>2</sup>	6mm2		
Construction	mm	84*0.28(±0.015)		
Material	Tinned copper wire			
O.D	mm	/		
Insulation				Electric Characters
Material	125C Electron-beam Irradiated XLPO			Rated voltage (V): AC U <sub>0</sub> /U <sub>1</sub> 0/1.0KV DC1.5KV
Avg.Thick	mm	0.75		Conductor DC resistance: (Q/KM)5.09Q/km Max at 20 °C
Min.Thick	mm	0.55	Temperature range: -40°C ~ + 90°C	
O.D	mm	/	Maximum conductor operating temperature: 120°C	
Color	Black/ Red/Grey/Brown		Theoretical service life: 25 years	
Jacket			Physical Property	
Material	125C Electron-beam radiated XLPO		Elongation of unaged values (%)≥125%	
Avg.Thick	mm	0.8	Tensile strength of unaged values (N/mm2):6.5&8.5	
Min.Thick	mm	0.58	Aging in the fully ventilated circulation air oven: 150 + 2.0 °C / 168h	
O.D	mm	6.5±0.2	Elongation rate after aging : ≤30%	
Color	Black/ Red/Grey/Brown		Tensile strength after aging : ≤30%	
Marking			Bending radius : ≥4xφ(D<8mm)≥6xφ(D≥8mm)	
TUV 2PFG 1169 1X6.0MM2 EURONET			Cold bending test: EN60811-1-4 (-40 ± 20°C16h without cracking)	
Packing specifications			Cold shock test: - (40°C * 16h / 1000g; 100mm without cracking)	
Packing : 100M/Roll,200M/Roll, 500M/roll,1000M/ Drum ,2500M/Drum 5000M/Drum			Flame retardant test: EN60332-1-2	

# Solar Cable 10mm

Cable Technical Specifications				
Ref.No	SOLAR CABLE		Picture	
Standard	TUV 2PFG 1169			
Structure	1x10mm <sup>2</sup>			
Electric Conductor				
Construction Item	mm <sup>2</sup>	10mm <sup>2</sup>		
Construction	mm	74*0.4(±0.015)		
Material	Tinned copper wire			
O.D	mm	/		
Insulation		Electric Characters		
Material	125C Electron-beam Irradiated XLPO			Rated voltage (V): AC U <sub>0</sub> /U <sub>1</sub> 0/1.0KV DC1.5KV
Avg.Thick	mm	0.75		Conductor DC resistance: (Q/KM)5.09Q/km Max at 20 °C
Min.Thick	mm	0.55	Temperature range: -40°C ~ + 90°C	
O.D	mm	/	Maximum conductor operating temperature: 120°C	
Color	Black/ Red/Grey/Brown		Theoretical service life: 25 years	
Jacket		Physical Property		
Material	125C Electron-beam radiated XLPO		Elongation of unaged values (%)≥125%	
Avg.Thick	mm	0.8	Tensile strength of unaged values (N/mm <sup>2</sup> ):6.5&8.5	
Min.Thick	mm	0.58	Aging in the fully ventilated circulation air oven: 150 + 2.0°C / 168h	
O.D	mm	7.4±0.2	Elongation rate after aging : ≤30%	
Color	Black/ Red/Grey/Brown		Tensile strength after aging : ≤30%	
Marking		Bending radius : ≥4xφ(D<8mm)≥6xφ(D≥8mm)		
TUV 2PFG 1169 1X10.0MM2 EURONET		Cold bending test: EN60811-1-4 (-40 ± 20°C16h without cracking)		
Packing specifications		Cold shock test: - (40°C * 16h / 1000g; 100mm without cracking)		
Packing : 100M/Roll,200M/roll, 500M/roll,1000M/ Drum ,2500M/Drum 5000M/Drum		Flame retardant test: EN60332-1-2		



# Solar Cable 16mm

Cable Technical Specifications				
Ref.No	SOLAR CABLE		Picture	
Standard	TUV 2PFG 1169			
Structure	1x16mm <sup>2</sup>			
Electric Conductor				
Construction Item	mm <sup>2</sup>	16mm <sup>2</sup>		
Construction	mm	130*0.38(±0.015)		
Material	Tinned copper wire			
O.D	mm	/		
Insulation		Electric Characters		
Material	125C Electron-beam Irradiated XLPO			Rated voltage (V): AC U <sub>0</sub> /U <sub>1</sub> 0/1.0KV DC1.5KV
Avg.Thick	mm	0.90		Conductor DC resistance: (Q/KM)5.09Q/km Max at 20 °C
Min.Thick	mm	0.70	Temperature range: -40 °C ~ + 90°C	
O.D	mm	/	Maximum conductor operating temperature: 120 °C	
Color	Black/ Red/Grey/Brown		Theoretical service life: 25 years	
Jacket		Physical Property		
Material	125C Electron-beam radiated XLPO		Elongation of unaged values (%) ≥125%	
Avg.Thick	mm	0.9	Tensile strength of unaged values (N/mm <sup>2</sup> ):6.5&8.5	
Min.Thick	mm	0.70	Aging in the fully ventilated circulation air oven: 150 + 2.0°C / 168h	
O.D	mm	9.0±0.2	Elongation rate after aging : ≤30%	
Color	Black/ Red/Grey/Brown		Tensile strength after aging : ≤30%	
Marking		Bending radius : ≥4xφ(D<8mm)≥6xφ(D≥8mm)		
TUV 2PFG 1169 1X16MM2 EURONET		Cold bending test: EN60811-1-4 (-40 ± 20°C16h without cracking)		
Packing specifications		Cold shock test: - (40°C* 16h / 1000g; 100mm without cracking)		
Packing : 100M/Roll,200M/roll, 500M/roll,1000M/ Drum ,2500M/Drum 5000M/Drum		Flame retardant test: EN60332-1-2		

# Solar Cable 25mm

Cable Technical Specifications			
Ref.No	SOLAR CABLE		Picture
Standard	TUV 2PFG 1169		
Structure	1x25mm <sup>2</sup>		
Electric Conductor			
Construction Item	mm <sup>2</sup>	25mm <sup>2</sup>	
Construction	mm	205*0.38(±0.015)	
Material	Tinned copper wire		
O.D	mm	/	
Insulation		Electric Characters	
Material	125C Electron-beam Irradiated XLPO		Rated voltage (V): AC U <sub>0</sub> /U <sub>1</sub> 0/1.0KV DC1.5KV
Avg.Thick	mm	0.90	Conductor DC resistance: (Q/KM)5.09Q/km Max at 20°C
Min.Thick	mm	0.70	Temperature range: -40°C ~ + 90°C
O.D	mm	/	Maximum conductor operating temperature: 120°C
Color	Black/ Red/Grey/Brown		Theoretical service life: 25 years
Jacket		Physical Property	
Material	125C Electron-beam irradiated XLPO		Elongation of unaged values (%) ≥125%
Avg.Thick	mm	1.0	Tensile strength of unaged values (N/mm <sup>2</sup> ):6.5&8.5
Min.Thick	mm	0.82	Aging in the fully ventilated circulation air oven: 150 + 2.0°C / 168h
O.D	mm	11.0±0.2	Elongation rate after aging : ≤30%
Color	Black/ Red/Grey/Brown		Tensile strength after aging : ≤30%
Marking		Bending radius : ≥4xφ(D<8mm)≥6xφ(D≥8mm)	
TUV 2PFG 1169 1X25MM2 EURONET		Cold bending test: EN60811-1-4 (-40 ± 20°C16h without cracking)	
Packing specifications		Cold shock test: - (40°C* 16h / 1000g; 100mm without cracking)	
Packing : 100M/Roll,200M/roll, 500M/roll,1000M/ Drum ,2500M/Drum 5000M/Drum		Flame retardant test: EN60332-1-2	