EN-SPVC 1×4mm²

EURONET SOLAR PV CABLE – 4mm² · 100m

Single-Core XLPO PV Cable | TUV 2PfG 1169 Certified



CROSS-SECTION	RATED VOLTAGE
1×4mm²	DC 1.5kV
OVERALL CABLE O.D.	**TEMPERATURE RANGE**
6.0±0.2mm	-40°C to +90°C
STANDARD	**ROLL LENGTH**
TUV 2PfG 1169	100m

OVERVIEW

EURONET Solar PV Cable 1×4mm² is a single-core, double-insulated cable made for photovoltaic wiring, from module interconnects to combiner-box and inverter runs. It combines a stranded tinned-copper conductor (56×0.28mm) with 125°C electron-beam irradiated XLPO insulation and jacket, for an overall diameter of 6.0±0.2mm. It is rated 1.5kV DC, certified to TUV 2PfG 1169 and resists UV, ozone, weathering, mineral oils, acids and alkalis, with a 25-year theoretical service life. Supplied in a 100m roll, in Black and Red for easy polarity identification.

KEY FEATURES

4mm² Tinned Copper Conductor
Stranded 56×0.28mm tinned copper wire that resists corrosion during long-term outdoor exposure on site

Double-Insulated XLPO
125°C electron-beam irradiated XLPO insulation and jacket for strong heat, UV and ozone resistance

Rated 1.5kV DC
AC Uo/U 1.0/1.0kV and DC 1.5kV rating suits PV module strings, combiner boxes and inverter runs

TUV 2PfG 1169 Certified
Certified to the TUV 2PfG 1169 solar cable standard; the sheath is marked TUV 2PfG 1169 1X4.0MM2 EURONET

Wide Temperature Range
Works from -40°C to +90°C ambient, with a maximum conductor operating temperature of 120°C for PV use

Tested For Harsh Sites
Passes cold bending, cold shock and EN60332-1-2 flame-retardant tests; 25-year theoretical life

TECHNICAL NOTE

Single core 1×4mm², stranded tinned copper 56×0.28mm (±0.015). Insulation 125°C electron-beam irradiated XLPO, avg. 0.75mm / min. 0.55mm; jacket avg. 0.8mm / min. 0.58mm; overall O.D. 6.0±0.2mm. Rated AC Uo/U 1.0/1.0kV, DC 1.5kV. -40°C to +90°C, conductor max. 120°C, 25-year service life. TUV 2PfG 1169, flame retardant to EN60332-1-2. Bending radius ≥4×φ, as O.D. is below 8mm. 100m roll.

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EN-SPVC 1×4mm²

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EN-SPVC Series · 1×4mm²
Product Type	Single-core, double-insulated solar PV cable
Standard	TUV 2PfG 1169
Structure	1×4mm²
Supplied Length	100m roll
Colours	Black / Red / Grey / Brown
Applications	Module interconnects combiner-box and inverter runs
CONDUCTOR	
Material	Tinned copper wire, stranded
Cross-section	4mm²
Construction	56×0.28mm (±0.015)
Current Rating	55A · single cable in free air, 60°C ambient
INSULATION	
Material	125°C electron-beam irradiated XLPO
Average Thickness	0.75mm
Minimum Thickness	0.55mm
JACKET	
Material	125°C electron-beam irradiated XLPO
Average Thickness	0.8mm
Minimum Thickness	0.58mm
Overall Cable O.D.	6.0±0.2mm

PARAMETER	SPECIFICATIONS
ELECTRICAL	
Rated Voltage	AC Uo/U 1.0/1.0kV · DC 1.5kV
Conductor DC Resistance	5.09Ω/km max. at 20°C
Temperature Range	-40°C to +90°C
Max. Conductor Operating Temp.	120°C
Theoretical Service Life	25 years
PHYSICAL PROPERTIES & TESTING	
Elongation (Unaged)	≥125%
Tensile Strength (Unaged)	6.5–8.5 N/mm²
Aging Test	150 + 2.0°C / 168h, fully ventilated circulation air oven
Elongation Rate After Aging	≤30%
Tensile Strength After Aging	≤30%
Bending Radius	≥4×φ (D<8mm) · applies to 6.0±0.2mm O.D.
Cold Bending Test	EN60811-1-4, -40±20°C, 16h, without cracking
Cold Shock Test	-40°C, 16h / 1000g, 100mm, without cracking
Flame Retardant Test	EN60332-1-2
Resistance	UV, ozone, weathering, mineral oils, acids and alkalis
PACKING & MARKING	
Cable Marking	TUV 2PfG 1169 1X4.0MM2 EURONET
Packing Options	100m, 200m, 500m rolls 1000m, 2500m, 5000m drums
Roll Weight	6.0kg approx. per 100m roll

**Specifications are subject to change without prior notice.*

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