

MODEL: EN-SPVC SERIES

EURONET SOLAR PV CABLE

1×4mm² to 1×25mm² | TUV 2PFG 1169 Certified | Black & Red | XLPO Double-Insulated

Euronet Solar PV Cable is a single-core, double-insulated XLPO cable engineered specifically for photovoltaic system wiring — from module interconnects to combiner-box and inverter runs. Built around a stranded tinned-copper conductor with a 125°C electron-beam irradiated XLPO insulation and jacket, it is rated 1.5kV DC and certified to TUV 2PFG 1169, giving it the outdoor durability to resist UV, ozone, weathering, mineral oils, acids and alkalis over a 25-year service life. The range spans five cross-sections — 1×4mm² through 1×25mm² — so installers can match conductor size to string current and run length, and is supplied in Black and Red for straightforward polarity identification, in rolls from 100m up to 5000m drums.



6 KEY HIGHLIGHTS

Five Cross-Sections

Available in 1×4mm² to 1×25mm² to match array current and cable-run length requirements.

TUV 2PFG 1169 Certified

Certified to the TUV 2PFG 1169 solar cable standard for safety and performance.

Double-Insulated XLPO Construction

125°C electron-beam irradiated XLPO insulation and jacket for enhanced heat, UV and ozone resistance.

Wide Operating Range

Rated -40°C to +90°C, max. conductor operating temperature 120°C, with a 25-year theoretical service life.

Tinned Copper Conductor

Corrosion-resistant stranded tinned copper conductor built for long-term outdoor exposure.

Tested & Ready to Install

Passes cold bending, cold shock and EN60332-1-2 flame-retardant tests; supplied in Black & Red for fast polarity-coded installation.

GENERAL

Ref. No.	Solar Cable
Standard	TUV 2PFG 1169
Conductor Material	Tinned copper wire
Insulation & Jacket Material	125°C Electron-beam Irradiated XLPO
Available Cross-Sections	1×4mm ² / 1×6mm ² / 1×10mm ² / 1×16mm ² / 1×25mm ²
Available Colors	Black / Red / Grey / Brown

CROSS-SECTION SPECIFICATIONS					
Parameter	4mm ²	6mm ²	10mm ²	16mm ²	25mm ²
Structure	1×4mm ²	1×6mm ²	1×10mm ²	1×16mm ²	1×25mm ²
Conductor Construction	56×0.28mm (±0.015)	84×0.28mm (±0.015)	74×0.4mm (±0.015)	130×0.38mm (±0.015)	205×0.38mm (±0.015)
Insulation Avg. Thickness	0.75mm	0.75mm	0.75mm	0.90mm	0.90mm
Insulation Min. Thickness	0.55mm	0.55mm	0.55mm	0.70mm	0.70mm
Jacket Avg. Thickness	0.8mm	0.8mm	0.8mm	0.9mm	1.0mm
Jacket Min. Thickness	0.58mm	0.58mm	0.58mm	0.70mm	0.82mm
Overall Cable O.D.	6.0±0.2mm	6.5±0.2mm	7.4±0.2mm	9.0±0.2mm	11.0±0.2mm
Cable Marking	TUV 2Pfg 1169 1X4.0MM2 EURONET	TUV 2Pfg 1169 1X6.0MM2 EURONET	TUV 2Pfg 1169 1X10.0MM2 EURONET	TUV 2Pfg 1169 1X16MM2 EURONET	TUV 2Pfg 1169 1X25MM2 EURONET

ELECTRICAL CHARACTERISTICS	
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 Temperature	120°C
Theoretical Service Life	25 years

PHYSICAL PROPERTIES & TESTING	
Elongation (Unaged)	≥125%
Tensile Strength (Unaged)	6.5–8.5 N/mm ²
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); ≥6×φ (D≥8mm)
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

PACKING & MARKING	
Packing Options	100m/Roll, 200m/Roll, 500m/Roll, 1000m/Drum, 2500m/Drum, 5000m/Drum
Cable Marking Format	TUV 2Pfg 1169 1X[size]MM2 EURONET