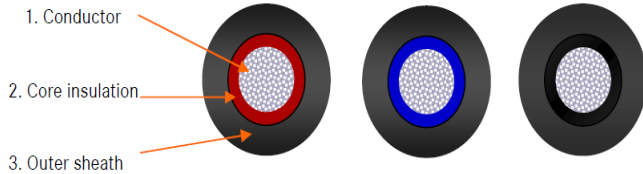


**Conductor:**

- 1,5 mm<sup>2</sup> (16 AWG) thru 6,0 mm<sup>2</sup> (10 AWG) fully annealed flexible stranded tinned copper with Class 5 stranding per EN 60228 (IEC 60228)

**Composite Insulation/Jacket (Sheath):**

- Zero-Halogen Cross-linked Polyethylene (ZH XLPE) with black Low-Smoke, Zero-Halogen Cross-linked Polyolefin (LSZH XLPO)



**Print :** : “MIRACLE CABLES “ SIZE & TYPE, PV WIRE 2000V SUNRES , ROHS , MONTH / YEAR, , SOLAR CABLE

**Packing:** :

**Applications:**

- TÜV 2 pfg 1169/08.2007: Single conductor, sunlight-resistant photovoltaic wire -40°C to +90°C, max temperature of conductor 120°C for 20,000 hours
- Rated Voltage: AC U<sub>0</sub>/U 0,6/1 kV max voltage 1.8 kV DC (conductor – conductor, non-earthed system, circuit not under load)
- UL 4703: Photovoltaic wire rated 90°C wet or dry, 2000 V for use in photovoltaic system

**Features:**

- Rated 90°C wet and dry
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C
- Direct burial

**Compliances:**

**Industry Compliances:**

- UL 4703 PV Wire
- TÜV 2 pfg 1169/08.2007 PV1-F for use in photovoltaic systems
- RoHS Compliant

**Flame Test Compliances:**

- UL 2556 VW-1
- EN 60332-1-2 vertical flame

**Chemical Properties**

Ozone resistance  
Weathering- and UV resistance  
Flame characteristics  
Halogen free

Acid and alkaline resistance

according to EN 50396 part 8.1.3 Method B  
according to HD 605/A1  
flame retardant according to IEC 60332-1-2  
according to TÜV 2 Pfg 1169/08.2007 Table B.1:  
EN 50267-2-2, EN 50267-2-1, Annex C, EN 60684-2  
according to EN 60811-2-1 (Oxal acid and sodium hydroxid)

**Advantages**

- Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- High temperature resistant, the materials do not melt or flow
- Very long life cycle > 25 years at 90 °C
- Compatible to all popular connectors
- Flexible and space-saving installation

Size	Conductor Diameter	Minimum Avg. Insulation Thickness	Minimum Avg. Sheath (Jacket) Thickness	Over all Diameter mini	Over all Diameter maxi	Mini Bending Radius	Current Rating
mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	Amp
1.50	1.60	1.40	0.76	4.40	4.80	14.5	30
2.50	1.90	1.40	0.76	4.70	5.10	15.5	40
4.00	2.40	1.40	0.76	5.20	5.60	17.0	55
6.00	2.90	1.40	0.76	5.70	6.10	18.5	70
10.0	4.00	1.40	0.76	6.80	7.20	21.5	100
16.0	5.50	1.40	0.76	8.30	9.00	36.0	130
25	6.40	1.40	0.76	10.00	10.70	43.0	175
35	7.50	1.40	0.76	11.10	11.80	47.0	215
50	9.00	1.40	0.76	12.60	13.30	53.0	275
70	10.80	1.40	0.76	14.40	15.20	61.0	345
95	12.60	1.40	0.76	16.20	17.00	68.0	415
120	14.30	1.40	0.76	17.70	18.70	75.0	490
150	15.90	1.40	0.76	19.70	20.70	83.0	560
185	17.50	1.40	0.76	21.30	22.30	89.0	645
240	20.50	1.40	0.76	24.20	25.50	102	775