



APPLICATION

Solar cable is UL certified, which is sunlight, ozone, UV, and moisture resistant. Photovoltaic Wire (PV Wire) may be used as wiring for solar panels, as the interconnection wiring of grounded and ungrounded solar power systems.

SCOPE

Single conductor photovoltaic wire rated for interconnection wiring of grounded and ungrounded photovoltaic power systems. Approved for Direct Burial rated for a maximum continuous operating temperature between -40°C and 90°C in wet and 105°C in dry conditions.

CONSTRUCTION

Conductors: The single conductors are solid or stranded annealed or hard uncoated or tinned copper.

Insulation: Concentrically applied XLP (crosslinked polyethylene) insulation, rated at 600V, 1000V, and 2000V. Sunlight Resistant, FV-1 flame retardant, Oil and Gasoline Resistant Cat II.

IDENTIFICATION AND PACKAGING

The wire shall be identified by surface marking indicating the manufacturer and AWG size. Products will be identified and surface printed in accordance with the UL requirements. 500 or 2500 feet length bulk reels are standard. Custom lengths, non-standard colors, AWG, and custom packaging are available by request.

APPLICABLE STANDARDS AND TESTS

ASTM B-1, B-3, B33 and B-8

CSA C22.2 No. 271-11

ICEA S-95-658/NEMA WC70, ICEA S-66-524/NEMA WC7

NEC NFPA 70, NEC 310, NEC Section

UL 44, UL 66, UL 83, UL 854, UL 1581, UL 4703

Spark tested at 7500 VAC

DIMENSIONS

AWG	Standard Number of Strands	Alternative /Extra Flexible Stranding	Bending Radius	Insulation Thickness 600V/1 or 2KV	Nominal Overall Diameter (standard strands) 600V/1 or 2KV	Max Pull Tension (Lbs)	Approx. Shipping Weight (Lbs/ Mft) 600V/1 or 2KV
14	7,19	41	0.80"/0.92"	60/75	0.20"/0.23"	33	29/35
12	7,19	65	0.88"/1.00"	60/75	0.22"/0.25"	52	39/46
10	7,19	37or105	0.96"/1.08"	60/75	0.24"/0.27"	83	54/61
8	7,19	133	1.20"/1.28"	75/85	0.30"/0.32"	132	84/90
6	7	133	1.32"/1.4"	75/85	0.33"/0.35"	210	120/127
4	7	133	1.52"/1.6"	75/85	0.38"/0.40"	334	174/181
2	7	133	1.76"/1.84"	75/85	0.44"/0.46"	531	258/266
1	19	133	2.12"/2.16"	95/105	0.53"/0.54"	670	335/345
1/0	19	133	2.24"/2.32"	95/105	0.56"/0.58"	845	410/420

2/0	19	37	2.44"/2.48"	95/105	0.61"/0.62"	1065	496/507
3/0	19	37	2.64"/2.72"	95/105	0.66"/0.68"	1342	610/622
4/0	19	37	2.88"/2.96"	95/105	0.72"/0.74"	1693	752/765

MCM	Standard # of Strands	Insulation Thickness Mils	Nominal Overall Diameter – Inches	Max Pull Tension (Lbs)	Approx. Shipping Weight (Lbs./Mft.)
250	37	120	0.81"	2000	1110
300	37	120	0.87"	2400	1330
350	37	120	0.92"	2800	1400
400	37	120	1.00"	3200	1590
500	37	120	1.05"	4000	1980
600	61	135	1.16"	4800	2380
750	61	135	1.27"	6000	2900