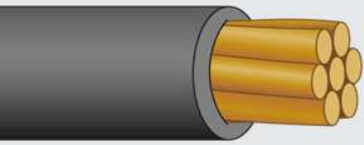


# PHOTOVOLTAIC WIRE



## APPLICABLE TESTS AND STANDARDS

- ✓ ASTM B-1, B-3, B-8 AND B-33
- ✓ UL 44 AND UL 4703
- ✓ CSA C22.2 NO. 271-11
- ✓ ICEA S-95-658/NEMA WC70

## FEATURES

- ✓ 600V AND 2000V RATED
- ✓ DIRECT BURIAL RATED
- ✓ -40°C TO 90°C MAX CONTINUING OPERATING TEMPERATURE IN WET OR DRY LOCATIONS

## PRINT LEGEND

- ✓ KRIS-TECH WIRE CO. #XX AWG XLPE TYPE PV WIRE 600V OR RHW-2 OR USE-2 2000V 90C WET OR DRY DIRECT BURIAL SUNLIGHT RESISTANT -40C FV-1 (UL)
- ✓ KRIS-TECH WIRE CO. #XX AWG XLPE TYPE PV WIRE 2000V 90C WET OR DRY DIRECT BURIAL SUNLIGHT RESISTANT -40C FV-1 (UL)

## VALUE ADD SERVICE

- ✓ CUSTOM LENGTHS AND PUT-UPS
- ✓ 12 AVAILABLE COLORS
- ✓ WIRE PARALLELING AND CABLING
- ✓ WIRE STRIPING
- ✓ CUSTOM PRINT LEGENDS AND LABELS

## SCOPE

This single-conductor photovoltaic (PV) wire is used as interconnection wiring for grounded and ungrounded PV power systems on residential, community, and utility-scale solar projects.

## CONSTRUCTION

**Conductors:** Single conductors are available in solid or stranded, annealed or hardened configuration. Tin coated copper conductors are also available.

**Insulation:** Conductors are insulated with a concentrically applied XLPE (crosslinked polyethylene) that is FV-1 flame and "Oil and Gasoline Resistant I" rated. An optional VW-1 flame rating is available on request.

All black insulation is rated "Sunlight Resistant". All colored insulation is rated "Sunlight Resistant" in sizes #6 AWG and larger, and optional in sizes #8 AWG and smaller.

## IDENTIFICATION AND PACKAGING

Print legends on the wire shall include the manufacturer, conductor size, voltage rating, UL symbol (if applicable) and type designation. Standard length spools are 500 or 2500 feet.

AWG/MCM	Standard Number of Strands	Optional Stranding**	Insulation Thickness 600V/2KV (Mils)	Bending Radius 600V/2KV (Inches)	Nominal Overall Diameter 600V/2KV (Inches)	Approx. Shipping Weight 600V/2KV (Lbs./1000')	Ampacity @ 90°C*
14	7, 19	41	60 / 75	0.77 / 0.89	0.19 / 0.22	24 / 29	25
12	7, 19	65	60 / 75	0.85 / 0.97	0.21 / 0.24	33 / 38	30
10	7, 19	37, 49, 105	60 / 75	0.95 / 1.07	0.24 / 0.27	47 / 52	40
8	7, 19	65, 133	75 / 85	1.18 / 1.27	0.30 / 0.32	75 / 79	55
6	7, 19	65, 133	75 / 85	1.32 / 1.40	0.33 / 0.35	108 / 113	75
4	7, 19	133	75 / 85	1.52 / 1.62	0.38 / 0.40	162 / 167	95
3	7	-	- / 85	- / 1.72	- / 0.43	- / 209	115
2	7	133	75 / 85	1.76 / 1.84	0.44 / 0.46	244 / 250	130
1	19	133	95 / 105	2.08 / 2.16	0.52 / 0.54	315 / 323	145
1/0	19	133	95 / 105	2.24 / 2.32	0.56 / 0.58	389 / 397	170
2/0	19	37	95 / 105	2.44 / 2.52	0.61 / 0.63	480 / 489	195
3/0	19	37	95 / 105	2.64 / 2.72	0.66 / 0.68	591 / 600	225
4/0	19	37	95 / 105	2.88 / 2.96	0.72 / 0.74	737 / 747	260
250	37	-	- / 120	- / 3.28	- / 0.82	- / 890	290
300	37	-	- / 120	- / 3.48	- / 0.87	- / 1051	320
350	37	-	- / 120	- / 3.68	- / 0.92	- / 1219	350
400	37	-	- / 120	- / 6.00	- / 1.00	- / 1385	380
500	37	-	- / 120	- / 6.30	- / 1.05	- / 1731	430

\* Ampacity is from NEC Article 310. Check with local codes authority for guidance with your application.

\*\*This stranding may require a Minimum Order Quantity, please contact Kris-Tech Sales for more information



SNAP FOR MORE INFORMATION