

PhotoVoltaic(PV) Wire

• APPLICATION

- Interconnection wiring of grounded and ungrounded photovoltaic power systems described in NEC® Article 690 and is rated 90°C for exposed or concealed wiring in wet or dry locations.
- This wire is used in photovoltaic power system from the panel to the combiner box, from the combiner box to the invert and from the inverter to the transformer.

• APPLICATION STANDARDS

- UL Subject 4703 for Type PV
- UL 44 for Type RHW-2
- National Electrical Code (NEC®)

• MATERIALS & CONSTRUCTION

Conductor Round compacted concentric-lay-stranded conductor of annealed copper wires in accordance with Class B of ASTM B800, B801 and B836.

Insulation Extruded layer of PVC compound for RHW-2 complying with UL 44 and UL4703

• Product Features

- Cold bend and impact -40°C
- Flame retardant VW-1
- UV/Sunlight resistance
- RoHS compliance
- Direct burial
- Default color is black.
(Alternate all colors available upon request)



PV Wire
(1kV/2kV)

Conductor			Insulation thickness		Nominal overall diameter		Net weight		
Size	Diameter								Number of strands
AWG/kcmil	mm	inches	ea	mm	inches	mm	inches	kg/km	lbs./mft
1/0	8.53	0.336	19	2.66	0.105	13.9	0.547	302	203
2/0	9.55	0.376				14.9	0.587	354	238
3/0	10.74	0.423				16.1	0.634	418	281
4/0	12.07	0.475				17.4	0.685	498	335
250	13.21	0.520	37	3.04	0.120	19.3	0.760	603	405
300	14.48	0.570				20.6	0.811	693	466
350	15.65	0.616				21.7	0.854	779	524
400	16.74	0.659				22.8	0.898	866	582
450	17.78	0.700				23.9	0.941	949	637
500	18.69	0.736				24.8	0.976	1032	693
550	19.50	0.768	61	3.43	0.135	26.4	1.039	1164	782
600	20.35	0.801				27.2	1.071	1253	842
650	21.20	0.835				28.1	1.106	1335	897
700	22.00	0.866				28.9	1.138	1419	954
750	22.90	0.902				29.8	1.173	1499	1007
800	23.50	0.925				30.4	1.197	1579	1061
900	25.00	0.984				31.9	1.256	1740	1169
1000	26.50	1.043				33.4	1.315	1907	1282