



PHOTOVOLTAIC WIRE AL 2KV TYPE PV

CONSTRUCTION PARAMETERS

INSULATION: Flame retardant Cross-Linked Polyethylene (XLPE)
INSULATION COLOR: Black or Red

PHYSICAL PROPERTIES

TEMPERATURE RANGE: -40°C to 90°C Dry, 90°C Wet
Rated for direct burial, moisture resistant, meets cold bend & cold impact test at -40°C

ELECTRICAL PROPERTIES

VOLTAGE RATING: 2,000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31 (A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

INDUSTRY APPROVALS:



UL 44 Type RHH/RHW-2, 2000V, UV/Sunlight Resistant
UL 854 Type USE-2
UL 4703 Type PV
ASTM B-800 , B-801
Flame Test: UL 1581 VW-1
IEEE383 for sizes 1/0 AWG and larger
ROHS, EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TLCP
method ASTM B836 COMPACT ROUNDED STRANDED ALUMINUM
CONDUCTORS

KINGWIRE PHOTOVOLTAIC WIRE AL 2KV TYPE PV						
Conductor Size (AWG ,Kcmil)	Conductor Stranding (#)	Nominal Conductor Diameter (in)	Min. Ave. Insulation Thickness (mils)	Nominal Overall Diameter (in)	Aluminum Weight (lbs/1000ft)	Net Weight (lbs./1000ft)
350	37/w	0.614	120	0.854	329	479
400	37/w	0.657	120	0.897	377	548
500	37/w	0.736	120	0.976	471	685
600	61/w	0.813	135	1.083	565	822
750	61/w	0.908	135	1.178	706	1027

Note: All dimensions and weights are subject to industry standards and tolerance unless otherwise noted.