



Photovoltaic Wire for use with Solar Panels 600 Volt Single Conductor Power Cable USE-2 or RHH or RHW-2

Description:

Single copper conductor, stranded, insulated with moisture and heat resistant cross-linked polyethylene. Rated 600V to meet the challenging requirements of transformerless inverters on photovoltaic (solar) panel installations. Temperature rating is 90° C in wet and dry applications.

Applications:

Photovoltaic wire (600 Volt) for use as interconnection wiring on solar panels in grounded or ungrounded systems as defined in applicable parts of the National Electrical Code (NEC) NFPA 70, such as article 690.31(A).

Standards:

ASTM B3 & B8
UL 44, UL 854, UL 4703,
Flame Rated: VW-1 per UL 1685
Federal Spec. A-A-59544
ICEA S-95-658/NEMA WC-70
CT rated 1/0 and larger
Sunlight Resistant
#14-4/0 Rated L-824C
-40° C rated
Suitable for use in 105 C Dry System
RoHS Compliant

Part Number	Size AWG or MCM	Strand (no.)	Insulation Thickness (mils)	Nominal Diameter Overall (inch)	Approx. Net Weight (lbs./mft)	Ampacity* 90°C Wet/Dry	
2KV RHH / RHW-2	PV600V14VW1	14	7	60	.193	27	35 †
	PV600V12VW1	12	7	60	.212	37	40 †
	PV600V10VW1	10	7	60	.236	51	55 †
	PV600V8VW1	8	7	75	.296	76	80
	PV600V6VW1	6	7	75	.334	111	105
	PV600V4VW1	4	7	75	.382	163	140
	PV600V3VW1	3	7	75	.410	200	165
	PV600V2VW1	2	7	75	.412	245	190
	PV600V1VW1	1	19	95	.511	315	220
	PV600V1/0VW1	1/0	19	95	.520	387	260
	PV600V2/0VW1	2/0	19	95	.594	480	300
	PV600V3/0VW1	3/0	19	95	.644	592	350
	PV600V4/0VW1	4/0	19	95	.700	736	405
	PV600V250VW1	250	37	110	.795	880	455
	PV600V300VW1	300	37	110	.849	1,041	505
	PV600V350VW1	350	37	110	.901	1,207	570
	PV600V400VW1	400	37	110	.948	1,368	615
PV600V500VW1	500	37	110	1.033	1,690	700	
PV600V600VW1	600	61	125	1.143	2,036	780	
PV600V750VW1	750	61	125	1.248	2,518	885	

*Based on ambient temperature of 30°C per NEC-Table 310-17

The overcurrent protection for items marked with an obelisk (†) shall not exceed 15 amps for 14 AWG, 20 amps for 12 AWG, and 30 amps for 10 AWG per NEC 310-17 footnote. NOTE: The data shown is approximate and subject to standard industry tolerances.

NOTE: Photovoltaic module interconnection wire for use with or without a raceway in accordance with wiring systems Article 690 in the National Electrical Code (NEC), NFPA 70. 2011