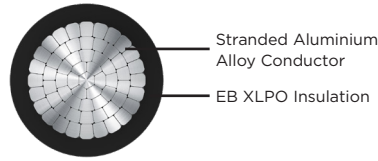


# POLYCAB SOLAR UL 4703 ALUMINIUM ALLOY

## PHOTOVOLTAIC POWER CABLE, HALOGEN FREE, FLAME RETARDANT



### SPECIAL FEATURES

- Halogen free
- Flame retardant
- UV, Ozone resistant
- Hydrolysis resistant
- High temperature resistant
- Oil and Gasoline resistant
- Moisture resistant
- Meets cold bend and cold impact at -40°C

## APPLICATION

POLYCAB PV halogen free flame-retardant Al Alloy conductor E-Beam crosslinked Polyolefins insulated Wire is designed to use in Outdoor Solar application as per NEC 690 in wet & dry location. The cable is rated direct burial, Sunlight resistant and weatherproof.

### VOLTAGE RATING

Max. Rated Voltage: 2000 V  
Max. Short circuit temp: 250°C

### OPERATION TEMPERATURE

Fixed: -40°C to +90°C

### CONSTRUCTION

- Conductor: 8000 Series Stranded (Class B) Aluminium Alloy conductor as per ASTM B801.
- Insulation: Halogen free flame retardant E- Beam crosslinked Polyolefins.

### CORE IDENTIFICATION

(-ve) Black, (+ve) Red

### BENDING RADII

Fixed installation: 8-10 D

### TEST VOLTAGE

As per UL 44

### COMPLIANCE

- UL 854 for USE-2
- UL 44 for Type RHW-2
- UL 4703 for Type PV
- UL 1685 CT Flame rated (for 1/0 AWG and above) RHW-2
- RoHS and REACH compliant

### STANDARD AND REFERENCES

- ASTM B801
- UL 44
- UL 4703
- UL 854
- UL 1685

### APPROVAL

UL 4703



### OUR ACCREDITATION



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## DIMENSIONAL AND ELECTRICAL CHARACTERISTICS

Conductor Size	No. of Strands	Conductor Dia.	Max. D.C. Resistance at 20° C.	Nominal Insulation Thickness	Approx Overall Dia.
AWG/MCM	AWG or kcmil	mm	Ohm/Km	mm	mm
8	7	3.4	3.52	2.15	8
6	7	4.29	2.21	2.15	8.9
4	7	5.41	1.39	2.15	10
2	7	6.81	0.875	2.15	11.4
1	19	7.59	0.693	2.66	13.2
1/0	19	8.53	0.55	2.66	14.2
2/0	19	9.55	0.436	2.66	15.2
3/0	19	10.7	0.346	2.66	16.3
4/0	19	12.1	0.274	2.66	17.7
250	37	13.2	0.232	3.04	19.6
300	37	14.5	0.194	3.04	20.9
350	37	15.6	0.166	3.04	22
400	37	16.7	0.145	3.04	23.1
500	37	18.7	0.116	3.04	26
600	61	20.7	0.0967	3.43	28.9
700	61	22.3	0.0829	3.43	30.5
750	61	23.1	0.0774	3.43	31.3
800	61	23.8	0.0725	3.43	32
900	61	25.4	0.0645	3.43	33.6
1000	61	26.9	0.058	3.43	35.1



### OUR ACCREDITATION

