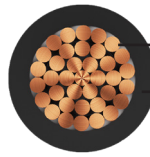


POLYCAB SOLAR UL 4703 COPPER

PHOTOVOLTAIC POWER CABLE, HALOGEN FREE, FLAME RETARDANT



Stranded bare copper conductor

EB XLPO Insulation

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

OLYCAB PV halogen free flame-retardant Copper 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: 2000V
Max. Short Circuit Temp: 250°C

OPERATION TEMPERATURE

Fixed: -40°C to +90°C

CONSTRUCTION

- Conductor: Stranded (Class B) Bare or Tinned Copper conductor as per ASTM B8
- Insulation: Halogen free Flame retardant E- Beam crosslinked Polyolefins

CORE IDENTIFICATION

(-ve) Black, (+ve) Red

BENDING RADIUS

Fixed installation: 8-10 D

STANDARD AND REFERENCES

- ASTM B8
- UL 44
- UL 4703
- UL 854
- UL 1685

TEST VOLTAGE

As per UL 44

COMPLIANCE

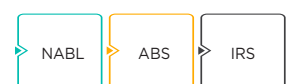
- UL 854 for USE-2
- UL 44 for Type RHW-2
- UL 4703 for Type PV
- UL 1685 CT Flame rated (for 1/0 AWG and above) RHW-2
- c(UL) CSA C22.2 No. 271 RPVU90
- ANSI ICEA S 95 658 NEMA WC70
- FT1, FT2, FT4, VW-1
- NEC NFPA 70, NEC 310, NEC Section 690.31
- EPA 40 CFR part 261 for leachable lead content per TCLP
- RoHS and REACH compliant
- OSHA acceptable
- Federal Spec A-A-59544

APPROVAL

UL 4703



OUR ACCREDITATION



POLYCAB SOLAR UL 4703 COPPER

PHOTOVOLTAIC POWER CABLE, HALOGEN FREE, FLAME RETARDANT

DIMENSIONAL AND ELECTRICAL CHARACTERISTICS

No. of core	Conductor size	Number of strands	Nominal Insulation thickness	Nominal Overall diameter Approx.	Nominal Overall diameter Approx.	Max. Conductor D.C. Resistance at 25 °C	Ampacity in Air	Ampacity in Earth
No	AWG or kcmil	No	mm	mm	mil	Ohms/Km	Amps.	Amps.
1	12	7	1.90	6.3	248.03	5.46	40	30
1	10	7	1.90	7.0	275.60	3.42	55	40
1	8	7	2.15	8.3	326.77	2.14	80	55
1	6	7	2.15	9.2	362.21	1.35	105	75
1	4	7	2.15	10.5	413.39	0.847	140	95
1	2	7	2.15	12.1	476.38	0.532	190	130
1	1	19	2.66	14.2	559.06	0.421	220	145
1	1/0	19	2.66	15.2	598.43	0.335	260	170
1	2/0	19	2.66	16.4	645.67	0.266	300	195
1	3/0	19	2.66	17.8	700.79	0.211	350	225
1	4/0	19	2.66	19.3	759.84	0.167	405	260
1	250	37	3.04	21.3	838.58	0.142	455	290
1	300	37	3.04	22.7	893.7	0.118	500	320
1	350	37	3.04	24.1	948.82	0.101	570	350
1	400	37	3.04	25.3	996.06	0.088	615	380
1	500	37	3.04	27.5	1082.68	0.071	700	430
1	600	61	3.43	28.93	1138.98	0.059	780	475
1	750	61	3.43	33.2	1307.09	0.047	885	535
1	1000	61	3.43	37.2	1464.57	0.035	1055	615

The above Current Ratings is based on NEC Table No. 310.16 at ambient temperature of 30°C

CURRENT DE-RATING FACTORS AT VARIOUS AMBIENT TEMPERATURE

Ambient Temperature	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80
Correction Factor	1.04	1	0.96	0.91	0.87	0.82	0.76	0.71	0.58	0.41



OUR ACCREDITATION

