

APPLICATIONS

DRAKAFLEX SUN has designed a portfolio of PhotoVoltaic (PV) power cables for the connection between the solar cells, inverter and an in-house installation or utility grid.

Drakaflex photovoltaic cables are designed to withstand extreme weather conditions such as temperature, UV and ozone and are NEC-compliant for continuous operations at 90° C in wet and dry locations, 130° C for emergency overload conditions and 250° C for short circuit conditions.

Our Drakaflex Sun product line offers a wide range of performance options and industry ratings to suit your specific installation needs including 600 through 2000 volt ratings, RoHS compliance, UL Type PV, Sunlight Resistant, UL Type RHH/RHW-2 and USE-2, -40° C operation, VW-1 Flame Rated and Low-Smoke Zero Halogen (LSZH) and for CT use on 1/0 AWG and larger

FEATURES

1. CONDUCTOR

Soft drawn, bare copper per ASTM B3 and ASTM B8.
Tinned copper conductors per ASTM B33 are available as an option.

2. INSULATION

Heat and moisture resistant, cross-linked polyethylene (XLP) meeting the requirements of UL 854 and NEMA WC70/ICEA S-95-658. The insulation is suitable for use in wet or dry locations at a conductor temperature not exceeding 90° C for normal operation.

3. IDENTIFICATION

Available with one layer of solid colored insulation or dual layer insulation with solid colored outer layer.

RATINGS

600, 1000 and 2000 volt ratings
RoHS compliance
UL Type RHH/RHW-2 & USE-2
UL Type PV
Sunlight Resistant & USE-2
-40° C
VW-1 Flame Rated
Low-Smoke Zero Halogen (LSZH)
For CT use on 1/0 AWG and larger





Draka

single conductor / 16 AWG to 500 kcmil / 600, 1000 and 2000 volt

DRAKAFLEX® SUN PHOTOVOLTAIC WIRE

600 VOLT - TYPE RHH/RHW-2 & USE-2

Conductor Size AWG	Strand Class	Strands	Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/kft (kg/km)
14	B	7	0.045 (1.1)	-	0.170 (4.3)	22 (33)
12	B	7	0.045 (1.1)	-	0.190 (4.8)	30 (45)
10	B	7	0.045 (1.1)	-	0.215 (5.5)	44 (65)
8	B	7	0.045 (1.1)	-	0.275 (6.9)	72 (107)
6	B	7	0.045 (1.1)	-	0.310 (7.9)	106 (158)

Ratings: UL Sunlight Resistant, RoHS compliant, UL Type RHH/RHW-2 & USE-2, temperature range -40° C to +90° C, for CT use on 1/0 AWG and larger

600 VOLT - TYPE PV

Conductor Size AWG	Strand Class	Strands	Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/kft (kg/km)
16	B	7	0.060 (1.5)	0.030 (0.8)	0.190 (4.8)	24 (36)
14	B	7	0.060 (1.5)	0.030 (0.8)	0.200 (5.1)	30 (45)
12	B	7	0.060 (1.5)	0.030 (0.8)	0.220 (5.6)	40 (60)
10	B	7	0.060 (1.5)	0.030 (0.8)	0.245 (6.2)	56 (83)
8	B	7	0.075 (1.9)	0.030 (0.8)	0.305 (7.7)	88 (131)
6	B	7	0.075 (1.9)	0.030 (0.8)	0.345 (8.8)	125 (186)

Ratings: UL Sunlight Resistant, RoHS compliant, UL Type PV Subject 4703, temperature range -40° C to +90° C, UL Type RHH/RHW-2 & USE-2
Optional VW-1 flame rated and LSZH constructions

600 VOLT - TYPE PV EXTRA FLEX

Conductor Size AWG	Strand Class	Strands	Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/kft (kg/km)
16	K	26	0.060 (1.5)	0.030 (0.8)	0.190 (4.8)	24 (36)
14	K	41	0.060 (1.5)	0.030 (0.8)	0.200 (5.1)	30 (45)
12	K	65	0.060 (1.5)	0.030 (0.8)	0.220 (5.6)	40 (60)
10	K	105	0.060 (1.5)	0.030 (0.8)	0.245 (6.2)	56 (83)
8	K	168	0.075 (1.9)	0.030 (0.8)	0.320 (8.1)	88 (131)
6	K	259	0.075 (1.9)	0.030 (0.8)	0.370 (9.4)	125 (186)

Ratings: UL Sunlight Resistant, RoHS compliant, UL Type PV Subject 4703, temperature range -40° C to +90° C, UL Type RHH/RHW-2 & USE-2
Optional VW-1 flame rated and LSZH constructions

1000/2000 VOLT - TYPE PV

Conductor Size AWG	Strand Class	Strands	Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/kft (kg/km)
14	B	7	0.075 (1.9)	0.030 (0.8)	0.230 (5.8)	40 (60)
12	B	7	0.075 (1.9)	0.030 (0.8)	0.250 (6.4)	52 (77)
10	B	7	0.075 (1.9)	0.030 (0.8)	0.275 (7.0)	70 (104)
8	B	7	0.085 (2.2)	0.030 (0.8)	0.325 (8.3)	100 (149)
6	B	7	0.085 (2.2)	0.030 (0.8)	0.370 (9.4)	143 (213)

Ratings: UL Sunlight Resistant, RoHS compliant, UL Type PV Subject 4703, temperature range -40° C to +90° C, UL Type RHH/RHW-2 & USE-2
Optional VW-1 flame rated and LSZH constructions

1000/2000 VOLT - TYPE PV EXTRA FLEX

Conductor Size AWG	Strand Class	Strands	Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Overall Diameter in (mm)	Approximate Weight lbs/kft (kg/km)
14	K	41	0.075 (1.9)	0.030 (0.8)	0.230 (5.8)	40 (60)
12	K	65	0.075 (1.9)	0.030 (0.8)	0.250 (6.4)	52 (77)
10	K	105	0.075 (1.9)	0.030 (0.8)	0.275 (7.0)	70 (104)
8	K	168	0.085 (2.2)	0.030 (0.8)	0.345 (8.8)	100 (149)
6	K	259	0.085 (2.2)	0.030 (0.8)	0.395 (10.0)	143 (213)

Ratings: UL Sunlight Resistant, RoHS compliant, UL Type PV Subject 4703, temperature range -40° C to +90° C, UL Type RHH/RHW-2 & USE-2
Optional VW-1 flame rated and LSZH constructions