

## DRAKAFLEX® SUN Photovoltaic Wire

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



### 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.

### 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

### Construction

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

**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.

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

### Prysmian Group

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## DRAKAFLEX® Sun Photovoltaic Wire

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

### 600 Volt - Tpe RHH/RHW-2 & USE-2

| Part Number | Strand Class | Strands | Insulation Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (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       | 0.060 (1.5)                  | -                                | 0.275 (6.9)                | 72 (107)                                 |
| 6           | B            | 7       | 0.060 (1.5)                  | -                                | 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

| Part Number | Strand Class | Strands | Insulation Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|-------------|--------------|---------|------------------------------|----------------------------------|----------------------------|--|
| 6           | B            | 7       | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.190 (4.8)                | 24 (36)                                  |
| 14          | B            | 7       | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.200 (5.1)                | 30 (45)                                  |
| 12          | B            | 7       | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.220 (5.6)                | 40 (60)                                  |
| 10          | B            | 7       | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.245 (6.2)                | 56 (83)                                  |
| 8           | B            | 7       | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.305 (7.7)                | 88 (131)                                 |
| 6           | B            | 7       | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.345 (8.8)                | 125 (186)                                |

### 600 Volt - Type PV Extra Flex

| Part Number | Strand Class | Strands | Insulation Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|-------------|--------------|---------|------------------------------|----------------------------------|----------------------------|--|
| 16          | K            | 26      | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.190 (4.8)                | 24 (36)                                  |
| 14          | K            | 41      | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.200 (5.1)                | 30 (45)                                  |
| 12          | K            | 65      | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.220 (5.6)                | 40 (60)                                  |
| 10          | K            | 105     | 0.030 (0.8)                  | 0.030 (0.8)                      | 0.245 (6.2)                | 56 (83)                                  |
| 8           | K            | 168     | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.320 (8.1)                | 88 (131)                                 |
| 6           | K            | 259     | 0.045 (1.1)                  | 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

| Part Number | Strand Class | Strands | Insulation Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|-------------|--------------|---------|------------------------------|----------------------------------|----------------------------|--|
| 14          | B            | 7       | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.230 (5.8)                | 40 (60)                                  |
| 12          | B            | 7       | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.250 (6.4)                | 52 (77)                                  |
| 10          | B            | 7       | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.275 (7.0)                | 70 (104)                                 |
| 8           | B            | 7       | 0.055 (1.4)                  | 0.030 (0.8)                      | 0.325 (8.3)                | 100 (149)                                |
| 6           | B            | 7       | 0.055 (1.4)                  | 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

| Part Number | Strand Class | Strands | Insulation Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|-------------|--------------|---------|------------------------------|----------------------------------|----------------------------|--|
| 14          | K            | 41      | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.230 (5.8)                | 40 (60)                                  |
| 12          | K            | 65      | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.250 (6.4)                | 52 (77)                                  |
| 10          | K            | 105     | 0.045 (1.1)                  | 0.030 (0.8)                      | 0.275 (7.0)                | 70 (104)                                 |
| 8           | K            | 168     | 0.055 (1.4)                  | 0.030 (0.8)                      | 0.345 (8.8)                | 100 (149)                                |
| 6           | K            | 259     | 0.055 (1.4)                  | 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  
The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

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