

ALUMINUM PHOTOVOLTAIC WIRE 600V

APPLICATIONS

Single conductor, sunlight-resistant, photovoltaic wire rated 90°C wet or 105°C dry 600V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70. For use in free air, raceways or direct burial in accordance with NEC.

CONSTRUCTION

Conductor: 8 AWG thru 1000 kcmil compact aluminum (8000series)
 Insulation: Flame-retardant Cross-Linked Polyethylene (XLPE), black or red
 Print: HUAXING CABLE E363111 PV WIRE AL (SIZE) 600V 90°C DRY OR WET -40°C DIR
 BUR SUN RES FTMONTH/YEAR OF MANUFACTURE

OPTION

- Colored phase ID stripes available on request
- Multiplexing available on request
- FT2 flame compliance available on request
- Vertical flame compliance available on request

FEATURES

- Rated 90°C wet and dry
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test at -40°C

SPECIFICATIONS

ASTM B800 - 05(2011), ASTM B836 -00(2011)

- UL 4703 Type PV
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2
- UL 854 Type USE-2 C(UL) RWU90 1kV

| Conductor Size (AWG/kcmil) | Conductor Stranding | Nominal Conductor O.D. | | Minimum Insulation Thickness | | Nominal Cable Diameter | | Copper Weight | | Net Weight | |
|-----------------------------|---------------------|------------------------|-------|------------------------------|------|------------------------|-------|---------------|---------|------------|---------|
| | | (in) | (mm) | (in) | (mm) | (in) | (mm) | /MFT(lb) | /km(kg) | /MFT(lb) | /km(kg) |
| 8 AWG-1000 kcmil CONDUCTORS | | | | | | | | | | | |
| 8 | 7/0486 | 0.134 | 3.40 | 0.080 | 2.03 | 0.298 | 7.57 | 16 | 23 | 49 | 73 |
| 6 | 7/0612 | 0.169 | 4.29 | 0.080 | 2.03 | 0.333 | 8.46 | 25 | 37 | 64 | 95 |
| 4 | 7/0772 | 0.213 | 5.41 | 0.080 | 2.03 | 0.377 | 9.58 | 39 | 58 | 85 | 127 |
| 2 | 7/0974 | 0.268 | 6.81 | 0.080 | 2.03 | 0.432 | 10.97 | 63 | 93 | 117 | 174 |
| 1 | 19/0664 | 0.299 | 7.59 | 0.095 | 2.41 | 0.495 | 12.57 | 79 | 117 | 153 | 227 |
| 1/0 | 19/0745 | 0.336 | 8.53 | 0.095 | 2.41 | 0.532 | 13.51 | 99 | 148 | 180 | 268 |
| 2/0 | 19/0837 | 0.376 | 9.55 | 0.095 | 2.41 | 0.572 | 14.53 | 125 | 186 | 214 | 318 |
| 3/0 | 19/0940 | 0.423 | 10.74 | 0.095 | 2.41 | 0.619 | 15.72 | 158 | 235 | 256 | 380 |
| 4/0 | 19/1055 | 0.475 | 12.07 | 0.095 | 2.41 | 0.671 | 17.04 | 199 | 296 | 307 | 456 |
| 250 | 37/0822 | 0.520 | 13.21 | 0.110 | 2.79 | 0.746 | 18.95 | 262 | 390 | 399 | 594 |
| 300 | 37/0900 | 0.570 | 14.48 | 0.110 | 2.79 | 0.796 | 20.22 | 282 | 420 | 430 | 640 |
| 450 | 37/0972 | 0.616 | 15.65 | 0.110 | 2.79 | 0.842 | 21.39 | 329 | 490 | 487 | 725 |
| 400 | 37/1040 | 0.659 | 16.74 | 0.110 | 2.79 | 0.885 | 22.48 | 376 | 560 | 544 | 810 |
| 500 | 37/1159 | 0.736 | 18.69 | 0.110 | 2.79 | 0.962 | 24.43 | 471 | 701 | 656 | 977 |
| 600 | 61/0992 | 0.813 | 20.65 | 0.125 | 3.18 | 1.069 | 27.15 | 565 | 841 | 798 | 1187 |
| 750 | 61/1109 | 0.908 | 23.06 | 0.125 | 3.18 | 1.164 | 29.57 | 706 | 1051 | 963 | 1433 |
| 1000 | 61/1280 | 1.060 | 26.92 | 0.125 | 3.18 | 1.316 | 33.43 | 914 | 1360 | 1210 | 1801 |

Dimensions and weights are nominal; subject to industry tolerances.
 *Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

