

PHOTOVOLTAIC CABLES XLP INSULATED SR-CT FOR 600, 1000 AND 2000 V 90°C

DESCRIPTION

Class "B" strand, concentric or compact conductor of annealed copper or 1350 hard drawn aluminum. This is a single-conductor, integrally jacketed, photovoltaic wire rated 90°C wet or dry, 600, 1000 or 2000 V, for interconnection wiring of grounded and ungrounded photovoltaic power systems described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70. The wire is constructed in accordance with the latest Standard for Photovoltaic Wire, UL 4703.

APPLICATIONS

- Wind and solar farms.
- Low voltage distribution systems exposed to the weather.
- Energy circuits.
- Control circuits.
- Industrial installations.

CHARACTERISTICS

- Cross-Linked Polyethylene (XLP) insulation.
- Weather and sunlight resistant.
- Suitable for installation in humid and wet locations.
- Suitable for direct burial installation.
- High thermal stability.
- Sunlight resistant (all color and all sizes).
- VW-1
- Meet cold bend test and cold impact at -40° C
- GR-II and PR-II
- Resistant to flame propagation.
- CT to 4 AWG and bigger.
- FT4

TECHNICAL DATA



Maximum operating voltage according to selection:

- 600 V
- 1000 V
- 2000 V



Preferred max. operating temp:

- Dry and wet locations: 90°C / 194°F
- In emergency: 130°C / 266°F
- Short circuit: 250°C / 482°F



Packaging:

- Wooden reels.



Manufacturing range:

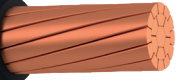
- Aluminum: 6 AWG to 750 kcmil
- Copper: 8 AWG to 750 kcmil

Standards:

- UL 4703

DIMENSIONS AND CHARACTERISTICS OF CABLES FOR 600V

Size	Area of Cross-section	Compact conductor diameter	Insulation thickness	Overall diameter
AWG/kcmil	mm ²	In	mil	In
8	8.37	0.13	75	0.28
6	13.3	0.17	75	0.32
4	21.2	0.21	75	0.36
2	33.6	0.27	75	0.42
1/0	53.5	0.34	95	0.53
2/0	67.4	0.38	95	0.57
3/0	85	0.43	95	0.61
4/0	107	0.48	95	0.67
250	127	0.52	110	0.74
300	152	0.57	110	0.79
350	177	0.62	110	0.84
400	203	0.66	110	0.88
500	253	0.74	110	0.96
600	304	0.81	125	1.07
750	380	0.91	125	1.16



PHOTOVOLTAIC CABLES XLP INSULATED SR-CT FOR 600, 1000 AND 2000 V 90°C

DIMENSIONS AND CHARACTERISTICS OF CABLES FOR 1000V AND 2000V

Size	Area of cross-section	Compact conductor diameter	Insulation thickness	Overall diameter
AWG/kcmil	mm ²	In	mil	In
8	8.37	0.13	85	0.30
6	13.3	0.17	85	0.34
4	21.2	0.21	85	0.38
2	33.6	0.27	85	0.44
1/0	53.5	0.34	105	0.55
2/0	67.4	0.38	105	0.59
3/0	85	0.43	105	0.63
4/0	107	0.48	105	0.69
250	127	0.52	120	0.76
300	152	0.57	120	0.81
350	177	0.62	120	0.86
400	203	0.66	120	0.90
500	253	0.74	120	0.98
600	304	0.81	135	1.09
750	380	0.91	135	1.18

Note: depending on the selection of the metal and conductor gauge, the current carrying capacity will be the same.
Consult Kobrex Engineering Department for more information.