



Photovoltaic Cable 2000 V UL 4703

Technical Sheet

Features

Rated and Listed as PV Wire per UL 4703
 Also listed as Type USE-2 / RHW-2 per UL 44.
 FV-1 Vertical Flame rating per UL 2556
 Meet requirements of UL 854 for Type USE-2
 Complete Cable is Led Free and RoHS compliant.

Specifications:

Maximum operating Voltage: 2000 V
 Temperature range wet or dry: -40oC ... 90oC

Application:

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 For interconnecting wiring of grounded and ungrounded photovoltaic power systems as described in Wiring Systems, Article 690, and other applicable parts of the National Electrical Code (NEC),NFPA 70.

Construction:

Single Copper Conductor 19 strands, Cross linked Polyethylene (XLPE Insulation) Manufactured by in North America by a VIAKON Company.

1. Copper Compressed Conductor.
2. Thermosetting Cross-Linked Polyethylene Insulation.

Photovoltaic Cable XLPE Insulated 2000 Volts

SIZE AWG	No. STRANDS	COND. DIAM	INSULATION THICKNESS	OVERAL DIAM	TOTAL WEIGHT	DC RESISTANCE 25°C	Ohms per 1000 foot@60Hz and 90°C		Allowable Ampicity At 90°C
							Rac	Reactance XL	
AWG		in	in	in	LBS/KFT	Ohms/1000 ft			
12	19	0.92	0.075	0.253	45	1.66	2.075	0.045	20*
10	19	0.115	0.075	0.277	60	1.04	1.3	0.033	30*
8	19	0.142	0.085	0.32	90	0.652	0.815	0.038	55
6	19	0.18	0.085	0.36	123	0.411	0.514	0.035	75

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Impedance: Based on a direct buried plexed configuration.

Ampacities: Based on NEC Table 310.15 (B)(16) for insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F) for not more than three current carrying conductor in raceways, cable or direct buried conditions.