

PV CABLE

(Cable For Solar Power System)

Photovoltaic (PV) Cable

Our PV cable is single core power cable for direct current (DC) 1.5kV (Max. 1.8 kV) which designed to be permanent used in outdoor and indoor. These are suitable for heavy duty, presence of water, corrosive or polluting substances, impact and vibrations condition. The cable is in accordance to IEC 62930:2017.

Construction :

Rated Voltage 1.5kV

Conductor :

- Flexible tinned coated copper IEC 60228 class.5
- Stranded tinned coated copper IEC 60228 class.2

Insulation :

Cross-linked halogen free flame retardant compound

Sheath :

Cross-linked halogen free flame retardant compound



Condition	Continue at normal operation	Permissible period limited to 20000 H	Short circuit (5s max. duration)
Max Conductor Temperature	90°C	120°C	250°C

Application :

PV cable is for use in photovoltaic system for cabling solar modules, solar panels and arrays, and connection to power conditioning system.

Technical Data for Class 5 Conductor Cable

Nominal cross sectional area of conductor	Maximum diameter of wires in conductor	Diameter of conductor	Thickness of insulation specified value	Thickness of sheath specified value	Mean overall diameter upper value class 5	Weight of cable	Maximum conductor resistance at 20°C (Metal coated)	Minimum insulation resistance at 20 °C	Minimum insulation resistance at 90 °C	AC voltage test	Current carrying capacity at ambient temperature 30°C		
											Single cable free in air	Single cable on a surface	Two loaded cables touching, on a surface
mm ²	mm	mm	mm	mm	mm	Kg/Km	Ohm/Km	M.Ω km	M.Ω km	kV/5 min	A	A	A
1.5 fx	0.26	1.8	0.7	0.8	5.4	40	13.7	1050	1.05	6.5	31	30	24
2.5 fx	0.26	2.4	0.7	0.8	5.9	50	8.21	862	0.862	6.5	42	40	33
4 fx	0.31	3.0	0.7	0.8	6.6	70	5.09	709	0.709	6.5	57	54	45
6 fx	0.31	3.9	0.7	0.8	7.2	100	3.39	610	0.610	6.5	72	69	58
10 fx	0.41	5.1	0.7	0.8	8.3	150	1.95	489	0.489	6.5	98	96	80
16 fx	0.41	6.3	0.7	0.9	9.8	210	1.24	393	0.393	6.5	132	130	107
25 fx	0.41	7.8	0.9	1.0	12.2	320	0.795	395	0.395	6.5	183	174	138
35 fx	0.41	9.2	0.9	1.1	14.0	440	0.565	335	0.335	6.5	227	215	171
50 fx	0.41	11	1.0	1.2	16.3	600	0.393	314	0.314	6.5	287	273	209
70 fx	0.51	13.1	1.1	1.2	18.7	825	0.277	291	0.291	6.5	361	344	269
95 fx	0.51	15.1	1.1	1.3	20.8	1065	0.210	258	0.258	6.5	433	411	328
120 fx	0.51	17	1.2	1.3	23.0	1340	0.164	249	0.249	6.5	508	483	382
150 fx	0.51	19	1.4	1.4	25.7	1695	0.132	260	0.260	6.5	590	560	441
185 fx	0.51	21	1.6	1.6	28.7	2055	0.108	268	0.268	6.5	671	638	508
240 fx	0.51	24	1.7	1.7	32.3	2665	0.0817	249	0.249	6.5	808	767	599
300 fx	0.51	27	1.8	1.8	35.6	3300	0.0654	237	0.237	6.5	913	866	693
400 fx	0.51	31	2.0	2.0	40.6	3450	0.0495	230	0.230	6.5	1098	1041	825

Environment Condition :

- Handling Installation min.-25°C
- Storage max. +45°C
- Weathering and UV resistance
- Ozone resistance
- Chemical resistance

Head Office / Factory :

Jl. Gatot Subroto Km 7,8 Kel. Pasir Jaya, Kec. Jatiuwung Tangerang
15135 Indonesia

Mr. Eddy for Indonesian Market

Mr. Mario for Export Market

Tel : +62-21-592-2404

Fax : +62-21-592-2576

www.sikabel.com