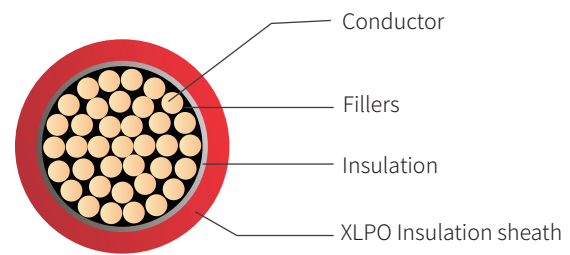


Photovoltaic System Cable



Product Description

PV1-F: Tinned Flexible Copper Wire No Halogen PO insulation & Sheath Photovoltaic System Cable

APPLICATIONS

which is designed for connecting photovoltaic system components inside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions. It has the characteristics of UV resistance, wear resistance, and aging resistance, and the service life is more than 25 years.

Type	Specification mm ²	Conductor Structure/mm	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter mm	DC resistance at 20°C (Ω/km)
PV1-F	1.5	48/0.2	1.6	1	0.8	5.2	12.2
	2.5	77/0.2	2	1	0.8	5.6	7.56
	4	56/0.3	56/0.3	1	0.9	6.4	4.7
	6	84/0.3	84/0.3	1	0.9	7	3.11
	10	77/0.41	77/0.41	1	0.9	8.2	1.84
	16	119/0.41	119/0.41	1	1.1	9.7	1.16
	25	189/0.41	189/0.41	1.2	1.2	11.3	0.734
	35	244/0.41	244/0.41	1.2	1.2	12.3	0.529

Ambient Temperature: 60°C, Max. Conductor Working Temperature: 120°C

Nom. Area (mm ²)	Installation Type		
	Single core in the air(A)	Single core on the equipment surface(A)	Next to equipment(A)
1.5	30	29	24
2.5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176

Temperature deviation means conversion factor(as per 60364-5-52)

Ambient Temperature(°C)	Conversion Factor	Ambient Temperature(°C)	Conversion Factor	Ambient Temperature(°C)	Conversion Factor
≤60	1.00	≤80	0.82	≤100	0.58
≤70	0.91	≤90	0.71	≤110	0.41

Electrical Characteristics

Rated Voltage: AC U₀/U=0.6/1KV, Dc 1.8KV(core to core, non-grounding system, circuit without load) In DC system, the rated voltage between conductors should be no more than 1.5 times Ac rated voltage of cable. In single-phase grounding DC system, the value should be multiplied 0.5.

Ambient Temperature: -40°C~ +90°C, Max, working temperature of conductor: 120°C

Max. ambient temperature is 90°C, According to ENG0216-1, the insulation and sheath temperature index is 120°C, Cable service life is 25 years and short circuit temperature is 200°C in 5 seconds.