PHOTOVOLTAIC CABLE (H1Z2Z2-K)

Construction

1. Condictor : Tinned Annealed Copper (Flexible class 5)
2. Insulation : Cross-linked Polyolefin
   Colour code : Natural
3. Sheath : Cross-linked Polyolefin-copolymer
   Colour code : Black, Red
   : Other colors available on request

Reference Standard :

EN 50618 : 2014

Classification

Temperature range : - 40°C to 90°C
Nominal rated a.c. voltage (Uo/U) : 1.0/1.0 kV
Nominal rate d.c. Voltage : 1.5 kV
Max. permitted operating d.c. voltage : 1.8 kV

Features

Ozone-resistant according to EN 50396
Halogen-free according to EN 50525-1
Weather/UV-resistance acc. to EN 50618
Flame retardant acc. to EN 60332-1-2
Low smoke acc. to EN 61034-2
Acid and Alkaline resistant acc. to EN 60811-404

Application

The cable use for interconnection wiring of photovoltaic power system like solar panel arrays for utility scale solar plants or rooftops. Suitable for both internal and external use. They can also install to be fixed, free movable, in cable trays and in conduit.

Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 90°C	Current rating In free air at 60°C	Cable weight	Standard length
Cross-sectional area	Diameter of wires	Diameter								
mm^2	mm (Max.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m/drum
1.5	0.26	1.6	0.7	0.8	4.8	13.7	0.86	30	50	200
2.5	0.26	2.0	0.7	0.8	5.2	8.21	0.69	41	60	200
4	0.31	2.4	0.7	0.8	5.6	5.09	0.58	55	80	200
6	0.31	3.5	0.7	0.8	6.7	3.39	0.50	70	110	100
10	0.41	4.8	0.7	0.8	8.0	1.95	0.42	78	150	100
16	0.41	5.9	0.7	0.9	9.3	1.24	0.34	132	210	100
25	0.41	7.4	0.9	1.0	11.5	0.795	0.34	176	310	100
35	0.41	9.0	0.9	1.1	13.3	0.565	0.29	218	410	100
50	0.41	10.4	1.0	1.2	15.1	0.393	0.27	276	550	100
70	0.51	12.6	1.1	1.2	17.5	0.277	0.25	347	750	500
95	0.51	13.9	1.1	1.3	19.0	0.210	0.22	416	1,020	500
120	0.51	16.2	1.2	1.3	21.5	0.164	0.21	488	1,270	500
150	0.51	18.1	1.4	1.4	24.0	0.132	0.21	566	1,560	500
185	0.51	20.2	1.6	1.6	27.0	0.108	0.20	644	1,940	500
240	0.51	23.2	1.7	1.7	30.4	0.0817	0.20	775	2,520	500

Approval : TÜV SÜD approval according to EN 50618:2014 certification No. B 17 10 02303 001