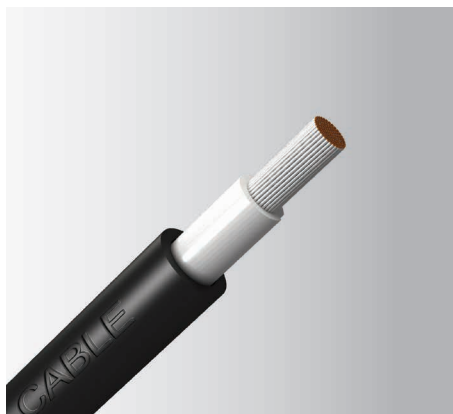


1.0/1.0kV Single-Core

Cross-linked Polyolefin Insulated, Cross-linked Polyolefin Sheathed Cable

Description: TC/XLPO/XLPO

Model Code: H1Z2Z2-K / 62930 IEC 131



Application :	This cable is intended for use in photovoltaic power supply system. It is suitable for fixed installation indoor and outdoor, and within conduits or systems.
Voltage rating :	A.C. U_0/U : 1.0/1.0kV D.C. (Max.) : 1.5kV
Construction :	Tinned annealed copper (EN 60228 Class 5), cross-linked polyolefin insulated and sheathed cable
Insulation colour :	White
Sheath colour :	Black or Red
Specification :	EN 50618, IEC 62930, IEC 60332-1-2, IEC 60754, IEC 61034-2
Operating temperature :	-40°C ~ +90°C, 20000h at 120°C

Conductor		Insulation	Sheath	Part No.	Approx. Overall Diam.	Approx. Weight	Minimum Insulation		Maximum Conductor Resistance D.C. at 20°C	Short-Circuit Current (1 Second)
Nominal Area	Approx. Diam.	Thickness	Thickness				at 20°C	at 90°C		
(mm ²)	(mm)	(mm)	(mm)		(mm)	(kg/km)	(MΩ·km)	(MΩ·km)	(Ω/km)	kA
1.5	1.57	0.7	0.8	0701**88	4.7	38	860	0.86	13.7	0.22
2.5	2.04	0.7	0.8	0801**88	5.2	45	690	0.69	8.21	0.36
4	2.59	0.7	0.8	0901**88	5.7	60	580	0.58	5.09	0.57
6	3.16	0.7	0.8	1001**88	6.3	90	500	0.50	3.39	0.86
10	4.3	0.7	0.8	1101**88	7.6	131	420	0.42	1.95	1.43
16	5.5	0.7	0.9	1201**88	9.1	187	340	0.34	1.24	2.29
25	6.7	0.9	1.0	1301**88	11.2	276	340	0.34	0.795	3.58
35	7.9	0.9	1.1	1401**88	12.7	368	290	0.29	0.565	5.01
50	9.5	1.0	1.2	1501**88	14.5	560	270	0.27	0.393	7.15
70	11.3	1.1	1.2	1601**88	16.5	756	250	0.25	0.277	10.01
95	13.0	1.1	1.3	1701**88	18.7	1036	220	0.22	0.210	13.59
120	14.6	1.2	1.3	1801**88	20.4	1309	210	0.21	0.164	17.16
150	16.3	1.4	1.4	1901**88	22.7	1636	210	0.21	0.132	21.45
185	18.1	1.6	1.6	2001**88	25.2	2000	200	0.20	0.108	26.46
240	20.8	1.7	1.7	2101**88	28.5	2607	200	0.20	0.0817	34.32

**Stands for colour code: White/Black (96) White/Red (97)

Current rating

Please refer to Table 4 (Page 44)

For Rating Factors, please refer to Table 5 (Page 44)

Current Rating

Solar Cables



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Single-Core Cables with Cross-linked Polyolefin Insulation and Outersheath A.C. 1.0/1.0kV; D.C. 1.5kV

Table 4 : Current-Carrying Capacity of PV Cables

[H1Z2Z2-K / 62930 IEC 131 Cables]

Maximum Conductor Operating Temperature : 120°C
Ambient Temperature : 60°C

EN 50618
IEC 62930

Conductor Cross- sectional Area	Current-Carrying Capacity		
	Single Cable		Two Loaded Cables
	Free in air	On a surface	Touching, on a surface
mm ²	A	A	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
50	276	262	221
70	347	330	278
95	416	395	333
120	488	464	390
150	566	538	453
185	644	612	515
240	775	736	620

Note : The expected period of use at maximum conductor temperature of 120°C and at a max. ambient temperature of 90°C is limited to 20000 hrs.
For rating factors of ambient temperature other than 60°C, please refer to Table 5 (Page 44)

Table 5 : Current Rating Conversion Factors for Other Ambient Temperature

[H1Z2Z2-K / 62930 IEC 131 Cables]

Ambient Temperature (°C)	Conversion Factor
up to 60	1.00
70	0.92
80	0.84
90	0.75