

--DESCRIPTIONS

CU(T)/XLPO/XLPO H1Z2Z2-K DC Solar Cable

--VOLTAGE

1000V/1500V(U_0/U)

1800V(U_m)

--APPLICATION

Updated harmonised (H1Z2Z2-K) European standard solar cable intended for the interconnection within photovoltaic systems, such as panel arrays. Suitable for fixed installations, internal and external, within conduit or systems. Impact tested-Suitable for. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment. Water resistant too.

--CONSTRUCTION

Conductor

-Class 5 flexible tinned copper conductor Acc.to EN 60228

Insulation

-Halogen-free cross-linked compound (XLPO)

Sheath

--Halogen-free cross-linked, flame retardant compound (XLPO)

--STANDARD

TUV EN50618; 62930 IEC 131; 2PFG:1169 PV1-F

CE; CPR; ISO 9001;

--SIZE

Single core: 1.5~150mm²

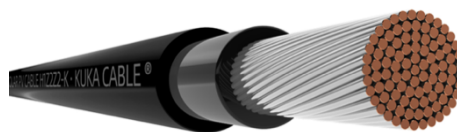
Twin core: 2x1.5~50mm²

--COLOR

-Insulation: Black,White

-Sheath: Black, Red, Blue

Or Customized



--TEMPERATURE

Conductor maximum operating temp: +120°C(20000h) Acc.to EN

60216-1+2

Ambient (Fixed) temperature: -40°C~+90°C

--BENDING

Minimum bending radius

-Dynamic: 5xD

-Static: 4XD

--OTHER

Spark test: 10,000 VAC

Test voltage: 6,500 VAC (5 Min) Acc.to EN 50395

Insulation Resistance at 20°C : ≥ 1,000 MΩ/km Acc.to EN 50618

Tab.2

Ozone resistant: EN60811-403 Method A: EN 50396 8.1.3 Method

B / EN50618

Weathering/UV resistance: EN 50289-4-17/EN 50618 Appendix E

Water-resistant: EN 50525-2-21 Appendix E

Halogen free: EN 60754-2

Flame retardant: EN 60332-1-3:2004+A1:2015 (or IEC60332-3-25:2018, CPR-Cca,Dca)

Smoke density: EN 61034-1+2

Shortage circuit temperature: 250°C for 5s

Anticipated service life: 30 years Acc.to EN 60216-1



SINGLE CORE SOLAR CABLE STRUCTURE DATA SHEET--1

Cable size (mm ²)	Conductor structure (Number/Wire O.D mm)	Insulation nominal thickness (mm)	Insulation nominal thickness (mm)	O.D (mm)	weight kg/km	20°C Max conductor resistance (Ω/km)
1x1.5	30/0.24	0.7	0.8	4.6	36	13.7
1x2.5	49/0.24	0.7	0.8	5.0	46	8.21
1x4	56/0.28	0.7	0.8	5.5	59	5.09
1x6	84/0.28	0.7	0.8	6.0	78	3.39
1x10	142/0.28	0.7	0.8	7.5	135	1.95
1x16	238/0.28	0.7	0.9	8.9	190	1.24
1x25	375/0.28	0.9	1.0	11.2	285	0.795
1x35	520/0.28	0.9	1.1	12.4	385	0.565
1x50	750/0.28	1.0	1.2	14.8	540	0.393
1x70	1085/0.28	1.1	1.3	16.8	740	0.277
1x95	760/0.38	1.1	1.3	18.0	965	0.210
1x120	950/0.38	1.2	1.3	19.1	1210	0.164
1x150	1190/0.38	1.4	1.4	21.4	1495	0.132

TWIN CORE SOLAR CABLE STRUCTURE DATA SHEET--2

Cable size (mm ²)	Conductor structure (Number/Wire O.D mm)	Insulation nominal thickness (mm)	Insulation nominal thickness (mm)	O.D (mm)	weight kg/km	20°C Max conductor resistance (Ω/km)
2x1.5	30/0.24	0.7	0.8	4.5*9.4	72	13.7
2x2.5	49/0.24	0.7	0.8	5.0*11.0	92	8.21
2x4	56/0.28	0.7	0.8	5.5*11.4	116	5.09
2x6	84/0.28	0.7	0.8	6.0*12.4	156	3.39
2x10	142/0.28	0.8	1.0	7.5*15.5	260	1.95
2x16	238/0.28	0.8	0.9	8.9*18.0	380	1.24
2x25	375/0.28	0.9	1.1	11.2*23.4	570	0.795
2x35	520/0.28	1.0	1.1	12.4*25.8	770	0.565
2x50	760/0.28	1.25	1.2	14.8*30.8	1080	0.393
2x70	1085/0.28	1.2	1.3	16.8*35.3	1480	0.277
2x95	760/0.38	1.2	1.3	18.0*38.0	1930	0.210



AMPACITY OF SOLAR CABLE--3

Arrangement	Free air	Surface	Loading touching
Section	Ampacity		
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

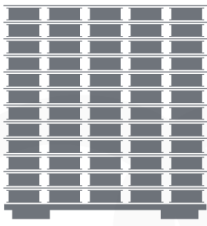
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General as: SHANGHAI KUKA CABLE TÜV EN50618 IEC 131 H1Z2Z2-K (size)1500V DC (IEC62930/EN50618) HALOGEN FREE LOW SMOKE CE (Production batch number) SOLAR CABLE (Meter Mark)

Or Customized.



--PACKING(4mm²/6mm²)

Meter / roll or drum	50m	100m	500m	1000m
Drums or rolls / pallet	300 (5*5*12)	176(4*4*11)	27(3*3*3)	12(2*2*3)
Front view				
Top-down view				
Pallets/ 20ft container	20	20	20	20
Container Loading Perspective	