

DESCRIPTIONS

10mm² H1Z2Z2-K Solar Cable TÜV 1500V, for photovoltaic power Direct Current

(DC) . STANDARDS

TÜV EN50618 **H1Z2Z2-K** file No.: R 50546675 & **IEC62930** file No.: R 50546688

CABLE CONSTRUCTION

Drawing:



- **Conductor**

Size10mm²

Stranding142\*0.285 ± 0.005mm

Diameter4.4mm ± 0.04mm
- **Insulation**

XLPO, electron-beam cross-linked, LSHF

Thickness0.7mm ± 0.04mm

ColorBlack ○
- **Jacket**

XLPO, electron-beam cross-linked, LSHF

Thickness0.8mm ± 0.04mm

ColorBlack ○ or Red ●

Outer Diameter: 7.5mm ± 0.2mm

MECHANICAL FEATURE

- Minimum Bending radius

Fixed: 4 x Overall Diameter; Flexing: 5 x Overall Diameter
- Temperature range

-40 °C to +90 °C, Max. temp. at conductor +120 °C
- Weather /UV resistance

EN 50289-4-17
- Ozone resistance

EN 50396, cl. 8.1.3
- Halogen free

EN 60754-1
- Flame-resistant test

EN 60332-1-2
- Short circuit temperature

250°C for 5 s
- Anticipated service life

30 years
- CPR

Cca s1a,d1,a1

ELECTRICAL PARAMETER

- Rated voltage DC: 1.5/1.5kV; AC: 1.0/1.0 kV

■ Max. permitted voltage1.8kV DC
- Conductor Resistance at 20°C ≤ 1.95 Ω/km

■ Min. Insulation resistance at 20°C 420MΩ/km
- Test Voltage (AC) AC 6.5kV, 50Hz, 5 min

■ Spark test AC 10kV

■ Current carrying capacity at 120 °C (Ambient temperature 60 °C):

| Condition                    | Exposed                                                                             | On surfaces without contact                                                         | On surfaces with contact                                                              | In conduit, pipe, duct                                                                |
|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                              |  |  |  |  |
| Current carrying capacity/ A | 98                                                                                  | 93                                                                                  | 79                                                                                    | 61                                                                                    |

Printing & Packing

- Printing: SHANGHAI KUKA CABLE H1Z2Z2-K EN50618 & 62930 IEC 131 1X10mm² 1500V DC XLPO/XLPO

HALOGEN FREE LOW SMOKE Cca s1a,d1,a1 SOLAR CABLE+ + Meter mark
- Packing: 500M/Drum, 12drums/pallet, 20pallets/20FCL (120KM )

■ Customized printing and delivering in other ways.