KUKA CABLE
SMART PRODUCTION GLOBE

Part No.: PV842960

DESCRIPTIONS

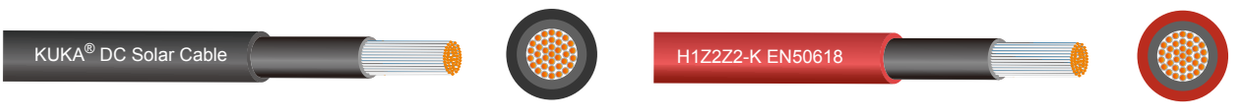
6mm² H1Z2Z2-K Solar Cable TÜV 1500V, for photovoltaic power Direct Current (DC) .

STANDARDS

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

CABLE CONSTRUCTION

Drawing:



- **Conductor** Class 5 flexible tinned copper, acc. to DIN VDE 0295 / IEC EN 60228
  - Size 6mm²
  - Stranding 84*0.285 ± 0.005mm
  - Diameter 3.0mm ± 0.04mm
- **Insulation** XLPO, electron-beam cross-linked, LSHF
  - Thickness 0.7mm ± 0.04mm
  - Color Black
- **Jacket** XLPO, electron-beam cross-linked, LSHF
  - Thickness 0.8mm ± 0.04mm
  - Color Black or Red

Outer Diameter: 6.0mm ± 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
- Approvals EN50618 H1Z2Z2-K & IEC62930

ELECTRICAL PARAMETER

- Rated voltage DC: 1.5/1.5kV; AC: 1.0/1.0 kV
- Conductor Resistance at 20°C ≤ 3.39 Ω/km
- Test Voltage (AC) AC 6.5kV, 50Hz, 5 min
- Max. permitted voltage 1.8kV DC
- Min. Insulation resistance at 20°C 500MΩ/KM
- 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	70	67	57	44

Printing & Packing

- Printing: SHANGHAI KUKA CABLE H1Z2Z2-K EN50618 & 62930 IEC 131 1X6mm² 1500V DC XLPO/XLPO HALOGEN FREE LOW SMOKE SOLAR CABLE+ + Meter mark
- Packing: 500M/roll, 27rolls/pallet, 20pallets/20FCL (270KM)
- Customized printing and delivering in other ways.