KUKA CABLE
SMART PRODUCTION GLOBE

Part No.: PV562940

DESCRIPTIONS

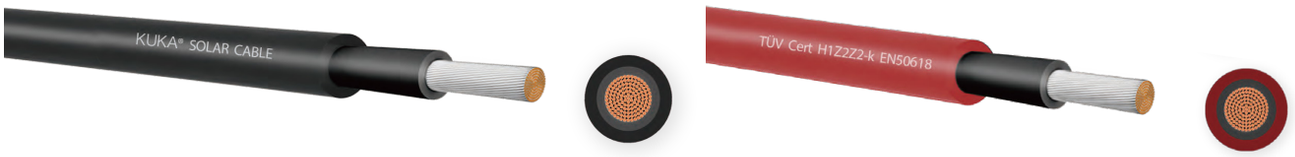
4mm² H1Z2Z2-K Solar Cable TÜV 1500V, for photovoltaic power applications.

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 4 mm²
  - Stranding 56*0.29 ± 0.008mm
  - Diameter 2.6mm
- **Insulation** XLPO, flame retardant, halogen free, electron-beam cross-linked
  - Thickness 0.7mm
  - Color Black
- **Jacket** XLPO, flame retardant, halogen free, electron-beam cross-linked
  - Thickness 0.8mm
  - Color Black or Red

Outer Diameter: 5.5mm ± 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
- Water resistance AD8 immersion
- 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 ≤ 0.164 Ω/km
- Test Voltage (AC) AC 6.5kV, 50Hz, 5 min
- max. permitted voltage 1.8kV DC
- Insulation resistance 1000MΩ/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	55	52	44	36

Conversion Factors v.s Different Ambient Temperature

Ambient Temperature/ °C	Up to 60	70	80	90	100	110
Conversion Factor	1.00	0.92	0.84	0.75	0.61	0.44

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