

DATASHEET

TÜV EN50618 H1Z2Z2-K IEC 62930 -4.0mm² Photovoltaic Cable

APPLICATION

TÜV EN50618 and IEC 62930 certified, FRCABLE's® DC solar cable, is specifically designed to connect photovoltaic panels. Engineered to withstand harsh outdoor environments. The H1Z2Z2-K cable features superior UV resistance, ozone resistance, and water resistance, ensuring a reliable and long-lasting connection within your solar power system.

CHARACTERISTICS

Voltage Rating: AC 1.0Kv / 1.5Kv DC

Maximum Voltage : 1800V / 1.8KV DC

Test Voltage : Test Voltage: 6,5KV AC / 15KV DC
(5 minutes water bath, 20±5°C)

Bending radius

- Fixed setting : >4 x ϕ
- Moves on occasion : >5 x ϕ

Temperature Range

- Ambient temperature : -40°C ~+90°C
- Max. conductor temperature : 120°C
- Maximum short circuit temperature : 250°C

CONSTRUCTION

Conductor : Fine wire, Stranded tin-plated copper according to IEC 60228, class 5

Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds

Sheath : XLPE, E-Beam cross-linked compound, flame retardant, halogen free, UV and ozone resistant

Sheath Color : Black/Red

Marking: FRCABLE EN50618 H1Z2Z2-K 62930 IEC 131 1x4.0mm² HALOGEN FREE LOW SMOKE DC 1.5KV R 50334055 with meter marking

APPROVALS

- TÜV EN50618 *File No.: R 50334055*
- IEC62930 *File No.: R 50444396*
- RoHS & Reach conform

MATERIAL PROPERTIES

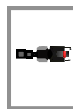
- **Flame-retardant:** : EN 60332-1-2
- **Smoke Emission:** EN 61034-2
- **Halogen-free:** EN 50525-1



Resistance against UV, Ozone, Fluids, Oil, Salt & General Weathering.



Suitable for direct burial



Applicable to all Common Connectors



Water Resistance : AD8



25 years lifetime expectancy.

PACKAGING

Coil: 100m, 250m, 300m

Drum: 500m, 1000m, 2000m, 3000m

Other packaging available on request on request

DIMENSIONS

Article No.	Color	Cross-section mm ²	Construction nxø (mm)	Insulation Thickness (mm)	Sheath Thickness (mm)	O. D (mm)	Max. resistance Ω/km
FREI041	Black	4.0	56x0.28	0.70	0.90	5.60±0.20	5.09
FREI041	Red	4.0	56x0.28	0.70	0.90	5.60±0.20	5.09

**Photovoltaic H1Z2Z2-K/4MM Solar Cable By FRCABLE**[Visit Our Website](#)[Download Certificates](#)

This datasheet provides general information for reference purposes only.
The specifications are subject to change without prior notice.