

FR CABLE®

SOLAR CABLES DC 1500V

TÜV EN50618 (H1Z2Z2-K) / IEC 62930

Approvals :

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

Features:

- Electron Beam Cross-Linked compound, XLPE/XLPE.
- Resistance against UV, Ozone, Fluids, Oil, Salt & General Weathering.
- Halogen Free, Flame Retardant, Low Smoke Emission.
- 25 years of lifetime expectancy.
- Applicable to all major PV Connectors.
- Higher water resistance.



APPLICATION RANGE

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

CONSTRUCTION

Conductor: Fine wire, Stranded tin-plated copper according to IEC 60228, class 5
Insulation: XLPE, E-Beam cross-linked compound, flame retardant, halogen free
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 1×**mm² HALOGEN FREE LOW SMOKE DC 1.5KV R 50334055 with meter marking



TECHNICAL CHARACTERISTICS

Voltage Rating: DC 1.5KV AC 1.0KV
Max permitted operating voltage: DC 1.8KV
Test Voltage: 6.5KV AC / 15KV DC (5 minutes water bath, 20±5°C)

Minimum Bending radius

Fixed: >4 x Ø
Flexing: >5 x Ø

TEMPERATURE RANGE

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

MATERIAL PROPERTIES

Flame-retardant: EN 60332-1-2 / IEC 60332-1-2
Smoke emission: EN 61034-2
Halogen-free: EN 50525-1

PACKAGING

Coil: 100m, 250m, 300m
Drum: 500m, 1000m, 2000m, 3000m
Other packaging is available on request

Aarticle No.	Color	Cross-section	Construction	Insulation Thickness	Sheath Thickness	O. D.	Max. resistance	Rated Current
		mm²	nxØ (mm)	(mm)	(mm)	(mm)	Ω/km	A
FREI041	Black	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
FREI042	Red	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
FREI061	Black	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
FREI062	Red	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
FREI101	Black	10.0	77/0.395	0.70	0.80	7.20±0.20	1.95	98
FREI102	Red	10.0	77/0.395	0.70	0.80	7.20±0.20	1.95	98