

FRCABLE®

SOLAR CABLES DC 1500V

TÜV EN50618 (H1Z2Z2-K) / IEC 62930

AD8 water resistance

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.
- AD8 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.

CONSTRUCATION

- 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
- AD8 water resistance. 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
- 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

Part No.	Color	Cross-section	Construction	Insulation Thickness	Sheath Thickness	O. D.	Max. resistance	Rated Current
		mm²	nxØ (mm)	(mm)	(mm)	(mm)	Ω/km	A
FREIAD041	Black	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
FREIAD042	Red	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
FREIAD061	Black	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
FREIAD062	Red	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
FREIAD101	Black	10.0	77/0.40	0.70	0.80	7.20±0.20	1.95	98
FREIAD102	Red	10.0	77/0.40	0.70	0.80	7.20±0.20	1.95	98