

FRCABLE®

SOLAR DC CABLES EN/UL

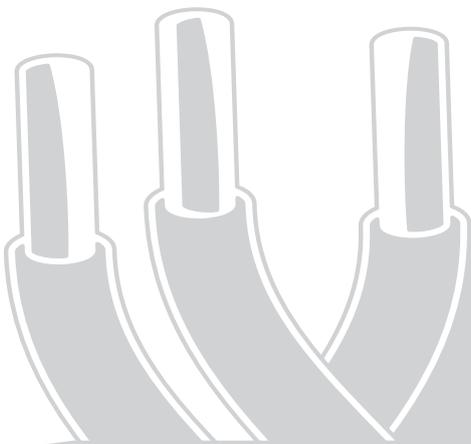
UL 4703, TÜV EN 50618, IEC 62930 approval

Approvals:

- TÜV EN50618 File No.: R 50334055
- IEC62930 File No.: R 50444396
- UL4703 File No.: E 332231

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.
- UL 4703, EN 50618, IEC 62930, worldwide approved.



APPLICATION RANGE

The FRCABLE® DC Solar cable is UL4703, EN50618 and IEC 62930 certified and designed for the connection of photovoltaic panels. Engineered to withstand harsh outdoor environments, the 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



TECHNICAL CHARACTERISTICS

Voltage Rating: DC 1.5KV

Max permitted operating voltage: DC 1.8KV

Max voltage: DC 2KV (UL)

Minimum Bending radius

Fixed: >4 x \varnothing

Flexing: >5 x \varnothing

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, UL-VW-1

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 nx \varnothing (mm)	Insulation Thickness (mm)	Sheath Thickness (mm)	O. D. (mm)	Max. resistance Ω /km
		mm ²	AWG					
FREIU041	Black	4.0	12	56/0.28	1.14	0.76	6.29±0.20	5.09
FREIU042	Red	4.0	12	56/0.28	1.14	0.76	6.29±0.20	5.09
FREIU061	Black	6.0	10	84/0.28	1.14	0.76	6.82±0.20	3.39
FREIU062	Red	6.0	10	84/0.28	1.14	0.76	6.82±0.20	3.39
FREIU101	Black	10.0	8	77/0.40	1.39	0.76	8.26±0.20	1.95
FREIU102	Red	10.0	8	77/0.40	1.39	0.76	8.26±0.20	1.95