

FR CABLE®

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.

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



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 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, 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	Insulation Thickness	Sheath Thickness	O. D.	Max. resistance
		mm²	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