

SOLAR CABLE FOR PV SYSTEM

TÜV EN50618 H1Z2Z2-K and IEC 62930 DC 1.5KV Cca COMBUSTION GRADE

FRCABLE TÜV EN50618 H1Z2Z2-K 62930 IEC 131 1*mm² HALOGEN FREE LOW SMOKE DC 1.5KV Cca COMBUSTION GRADE
<http://www.fr-cable.com>



Advantages

- ◆ E-beam cross-linked compounds
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow
- ◆ Flexibility under cold conditions
- ◆ Long usable life, expected usable life over 25 years
- ◆ Applicable to all common connectors
- ◆ Reaction to fire CPR: Cca -s1a, d0, a2 according to EN 50575(2.5 to 25mm²)

Application

In a solar power system of rated voltage $U_0=1.5KV$, PV cables are used to connect between solar panels and inverters.

Construction

- ◆ Conductor : Soft tinned annealed copper according to IEC 60228, class 5
- ◆ Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds Cca combustion grade
- ◆ Jacket : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking, Cca combustion grade
- ◆ Jacket color : All the chromatographic

Electrical performance

- ◆ Rated Voltage : $U_0=1.5kV$ DC
- ◆ Test Voltage : 6.5kV AC 5min

Thermal performance

- ◆ Operation temperature : -40°C ~ +120°C
- ◆ Ambient temperature : -40°C ~ +90°C
- ◆ Maximum short circuit temperature : 250°C

Bending radius

- ◆ Fixed setting : $>4 \times \varnothing$
- ◆ Moves on occasion : $>5 \times \varnothing$

Material characteristics / standard

- ◆ Fireproof performance : EN 60332-1-2
- ◆ Smoke emission : EN 61034-1; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV EN50618
- ◆ Applied standard: TÜV EN50618
- ◆ Reaction to fire CPR: EN 50575

Article Number	Color	conductor cross-section(mm ²)	N/mm	Insulation Thickness(mm)	Jacket Thickness(mm)	OD.(mm)	Max.mΩ/m	Ampacity(A)
FREN03-4	B/R	1*4.0	56/0.28	0.75	0.85	5.6±0.2	5.09	55
FREN04-3	B/R	1*6.0	84/0.28	0.75	0.85	6.2±0.2	3.39	70