

TÜV EN50618 H1Z2Z2-K DC 1.5KV

Solar Cable for PV system

FRCABLE TÜV EN50618 H1Z2Z2-K DC 1.5KV 1×*mm <http://www.fr-cable.com>

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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

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
- ◆ Jacket : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : All the chromatographic

Electrical performance

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

Thermal performance

- ◆ Operation temperature : $-40^{\circ}C \sim +120^{\circ}C$
- ◆ Ambient temperature : $-40^{\circ}C \sim +90^{\circ}C$
- ◆ Maximum short circuit temperature : $250^{\circ}C$

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

| Article Number | Color | conductor cross-section(mm ²) | N/mm | Insulation Thickness(mm) | Jacket Thickness(mm) | OD.(mm) | Max.mΩ/m | Ca.mΩ/m | Ampacity(A) |
|----------------|-------|---|---------|--------------------------|----------------------|---------|----------|---------|-------------|
| FREN01 | B/R | 1*1.5 | 30/0.25 | 0.9 | 1.1 | 5.58 | 13.7 | 13.7 | 30 |
| FREN02-2 | B/R | 1*2.5 | 49/0.25 | 0.85 | 0.9 | 5.54 | 8.21 | 7.5 | 41 |
| FREN03-4 | B/R | 1*4.0 | 56/0.28 | 0.90 | 0.7 | 5.6 | 5.09 | 4.85 | 55 |
| FREN04-3 | B/R | 1*6.0 | 84/0.28 | 1.02 | 0.7 | 6.5 | 3.39 | 3.28 | 70 |
| FREN05-2 | B/R | 1*10.0 | 80/0.4 | 0.7 | 0.8 | 7.13 | 1.95 | 1.75 | 98 |
| FREN06 | B/R | 1*16.0 | 128/0.4 | 1.1 | 1 | 9.42 | 1.24 | 1.15 | 132 |
| FREN07 | B/R | 1*25.0 | 196/0.4 | 1.1 | 1 | 11.40 | 0.795 | 0.72 | 176 |
| FREN08 | B/R | 1*35.0 | 276/0.4 | 1.1 | 1 | 12.83 | 0.57 | 0.52 | 218 |
| FREN09 | B/R | 1*50.0 | 235/0.5 | 1.0 | 1.2 | 14.0 | 0.393 | 0.388 | 260 |