

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
- ◆ Anti-bite from rodent animals

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, Add the material of anti-rat.
- ◆ 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	56/0.285	0.95	0.8	6.0	5.09	4.85	55
FREN04-3	B/R	1*6.0	84/0.285	1.02	0.9	6.87	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