

## Solar Cable for PV system

TÜV EN50618 H1Z2Z2-K AND IEC 62930 DC 1.5KV

QPOWER TÜV EN50618 H1Z2Z2-K 62930 IEC 131 1x\*mm<sup>2</sup> HALOGEN FREE LOW SMOKE DC 1.5KV



### 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 : XLPO, flame retardant, halogen free, E-Beam cross-linked compounds
- Jacket : XLPO, 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 :  $U_s=1.5kV$  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 <sup>2</sup> )	N/mm	INSULATION THICKNESS (mm)	JACKET THICKNESS (mm)	OD. (mm)	MAX.mΩ/m	AMPACITY (A)
QPW-1-4	B/R	1x4.0	56/0.285±0.015	≥0.7	≥0.8	5.6±0.2	≤5.09	55
QPW-1-6	B/R	1x6.0	84/0.285±0.015	≥0.7	≥0.8	6.3±0.2	≤3.39	70