

## SOLAR CABLES DC 1500V

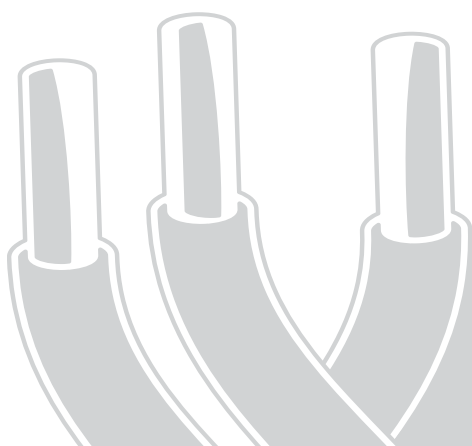
## TÜV EN 50618 (H1Z2Z2-K) / IEC 62930

### Standards:

- TÜV EN 50618
- IEC 62930
- Conforms to RoHS & Reach

### Features:

- Electron-beam cross-linked compound (XLPE/XLPE).
- Resistant to UV, ozone, fluids, oil, salt, and general weathering.
- Halogen-free, flame-retardant, low-smoke emission.
- 25-year life expectancy.
- Compatible with all major PV connectors.
- Highly water-resistant.



## Application range:

The Photonic Universe DC Solar cable is TÜV EN50618 and IEC 62930 certified and designed for the connection of photovoltaic panels. Engineered to withstand harsh outdoor environments, the H1Z2Z2-K cable boasts superior UV resistance, ozone resistance, and water resistance, ensuring a reliable and long-lasting connection within your solar power system.

## Configuration:

**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 Colour:** Black/Red

**Marking:** PHOTONIC UNIVERSE EN50618 H1Z2Z2-K 62930 IEC 131 1×\*\*mm<sup>2</sup> HALOGEN FREE LOW SMOKE DC 1.5KV



## Technical characteristics:

**Voltage Rating:** DC 1.5kV AC 1.0kV

**Max permitted operating voltage:** DC 1.8kV

**Test Voltage:** 6.5kV AC / 15kV DC (5 minutes water bath, 20±5°C)

## 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

**Smoke emission:** EN 61034-2

**Halogen-free:** EN 50525-1

## Packaging:

**Coils:** 50m, 100m, 250m

**Drums:** 500m, 1000m, 2000m, 3000m

Other packaging available on request

Product Code	Colour	Cross-section	Configuration	Insulation Thickness	Sheath Thickness	O. D.	Max. resistance	Rated Current
		mm <sup>2</sup>	nxØ (mm)	(mm)	(mm)	(mm)	Ω/km	A
SCAB25B	Black	2.5	49/0.25	0.70	0.90	5.50±0.20	8.21	41
SCAB25R	Red	2.5	49/0.25	0.70	0.90	5.50±0.20	8.21	41
SCAB40B	Black	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
SCAB40R	Red	4.0	56/0.28	0.70	0.90	5.60±0.20	5.09	55
SCAB60B	Black	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
SCAB60R	Red	6.0	84/0.28	0.70	0.90	6.20±0.20	3.39	70
SCAB100B	Black	10.0	77/0.40	0.70	0.80	7.20±0.20	1.95	98
SCAB100R	Red	10.0	77/0.40	0.70	0.80	7.20±0.20	1.95	98