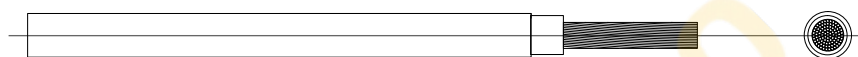


# TOPSOLAR® PV H1Z2Z2-K

TÜV solar PV cable.

BASED ON: EN 50618 / IEC 62930 / UTE C 32-502

## DESIGN



### Conductor

Class 5 (flexible) tinned copper, based on EN 60228 and IEC 60228.

### Insulation

Low smoke zero halogen (LSZH) cross linked rubber insulation.

### Outer sheath

Low smoke zero halogen (LSZH) cross linked rubber outer sheath, red or black colour.

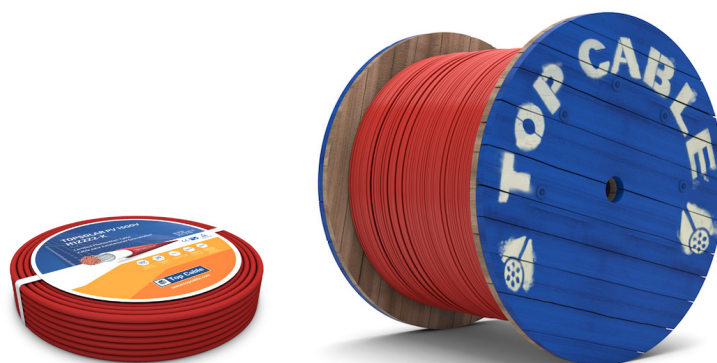
## APPLICATIONS

The Topsolar® PV H1Z2Z2-K cable, which is TÜV certified according to IEC 62930 and EN 50618, is suitable for both fixed and mobile solar installations (solar farms, rooftop solar installations and floating plants).

It is a highly flexible cable compatible with all major connectors and specially designed for the connection of photovoltaic panels. This versatile single-conductor cable is designed to meet the varying needs of the solar industry. Suitable for wet, damp and humid locations.

- Solar PV installations - string cable.

PV WIRE ALSO  
AVAILABLE



## FEATURES



### Electrical performance

Low voltage 1,5/1,5 1kV (1,8) kV DC.  
1,0/1,0 kV ( $U_0/U$ ).



### Based on

EN 50618/ IEC 62930 / UTE C 32-502.



### Standards and approvals

TÜV / RETIE / CE / RoHS.



### CPR (Construction Products Regulation)

$C_{ca}$  -s1b, d2, a1.



### Thermal performance

Maximum service temperature: 120°C.  
Maximum short-circuit temperature: 250°C (max. 5 s).  
Minimum service temperature: -40°C (fixed and protected installations).



### Fire performance

Flame non-propagation based on EN 60332-1 and IEC 60332-1-2.  
Fire non-propagation based on EN 50399.  
Reaction to fire CPR:  $C_{ca}$  -s1b, d2, a1, according to EN 50575.  
LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.  
Low smoke emission based on EN 61034 and IEC 61034: Light transmittance > 60%.  
Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.



### Mechanical performance

Minimum bending radius: x5 cable diameter.  
Impact resistance: AG2 Medium severity.



### Chemical performance

Chemical & Oil resistance: Excellent.  
Grease & mineral oils resistance: Excellent.

**UV** UV Resistant based on EN 50618.

**O<sub>3</sub>** Ozone resistant based on EN 50618.



### Water performance

Water presence: AD8 submerged.



### Other

Meter by meter marking.  
Estimated lifetime 25 years based on EN 50618.  
 Optional: rodent proof and termite proof.



### Installation conditions

Open Air.  
Buried.  
On conduit.



### Packaging

Available in rolls (lengths of 100 m) and reels.

## SOLAR CABLES

TOPSOLAR® PV  
H1Z2Z2-K



TOPSOLAR® PV  
H1Z2Z2-K DUAL



TOPSOLAR® PV  
AL 1500 V



TOPSOLAR® PV  
AL 2kV PV WIRE





# TOPSOLAR<sup>®</sup> PV H1Z2Z2-K

## Dimensions & admissible intensities

| Cross section (mm <sup>2</sup> ) | Diame-ter (mm) | Weight (Kg/km) | Open air (A) | Int. on surface (A) | Int. adjoining to surface (A) | Voltage drop (V/A·km) |
|----------------------------------|----------------|----------------|--------------|---------------------|-------------------------------|-----------------------|
| 1 x 1,5                          | 4,6            | 35             | 30           | 29                  | 24                            | 38,2                  |
| 1 x 2,5                          | 5,0            | 45             | 41           | 39                  | 33                            | 23,0                  |
| 1 x 4                            | 5,4            | 60             | 55           | 52                  | 44                            | 14,3                  |
| 1 x 6                            | 6,0            | 80             | 70           | 67                  | 57                            | 9,49                  |
| 1 x 10                           | 7,0            | 120            | 98           | 93                  | 79                            | 5,46                  |
| 1 x 16                           | 8,2            | 180            | 132          | 125                 | 107                           | 3,47                  |
| 1 x 25                           | 10,2           | 280            | 176          | 167                 | 142                           | 2,23                  |
| 1 x 35                           | 11,5           | 375            | 218          | 207                 | 176                           | 1,58                  |
| 1 x 50                           | 13,3           | 525            | 276          | 262                 | 221                           | 1,10                  |
| 1 x 70                           | 15,0           | 720            | 347          | 330                 | 278                           | 0,772                 |
| 1 x 95                           | 17,0           | 930            | 416          | 395                 | 333                           | 0,585                 |
| 1 x 120                          | 18,7           | 1.175          | 488          | 464                 | 390                           | 0,457                 |
| 1 x 150                          | 21,0           | 1.475          | 566          | 538                 | 453                           | 0,368                 |
| 1 x 185                          | 23,5           | 1.805          | 644          | 612                 | 515                           | 0,301                 |
| 1 x 240                          | 26,3           | 2.345          | 775          | 736                 | 620                           | 0,228                 |

Maximum current capacity according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalogue.

Top Cable reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

For more information please contact [sales@topcable.com](mailto:sales@topcable.com)