

# PhotoVoltaic / Solar Cable H1Z2Z2-K (1.5kV DC)

H1Z2Z2-K 1x2.5 mm<sup>2</sup>

## Contact

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Nexans Ref.: 10575634

Country Ref.: TR

1.5 kV DC Voltage, single core solar cables

## DESCRIPTION

### Application:

These state-of-art AC 1.0/1.0 and DC 1.5kV cross-linked cables offer exceptional performances, easy installation and long-term reliability for solar plant. They link photovoltaic panels for Utility-Scale solar plants or rooftops, and also connect them to the array box (if existing), or potentially to the inverter.

Designation: H1Z2Z2-K

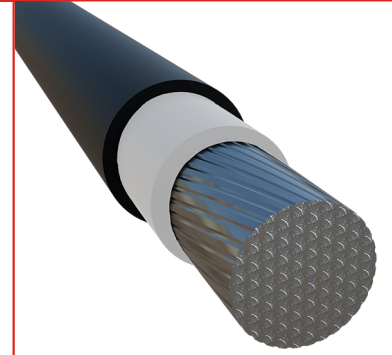
Standard: EN 50618

**Current Rating Temperature**

**Ambient temperature = 60°C**

**Maximum conductor temperature = 120°C**

**Water Resistant to AD8 According to EN 50525-2-21, Annex E**



## STANDARDS

International EN 50618



Halogen free  
IEC 60754-1



Conductor flexibility  
Flexible class 5



Rated Voltage U<sub>o</sub>/U  
(U<sub>m</sub>)  
1.0/1.0 (1.2) kV AC  
1.5/1.5 (1.8) kV DC



Flame retardant  
IEC 60332-1-2



Operating temp.  
-40 ... 90 °C



Smoke density  
IEC 61034



Gases corrosivity  
IEC 60754-2



Max. conductor  
temp.in service  
120 °C

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Tin Coated Copper Class 5 acc. To EN 60228
Insulation	Cross-linked (XL) HFFR acc. to EN 60811 and EN 60216-1-2
Halogen free	IEC 60754-1
Conductor flexibility	Flexible class 5
Outer sheath	Cross-linked (XL) HFFR acc. to EN 60811 and EN 60216-1-2
Sheath colour	Black

### Dimensional characteristics

Number of cores	1
Conductor cross-section	2.5 mm <sup>2</sup>
Nominal outer diameter	5.0 mm
Approximate weight	40 kg/km
Conductor diameter (mm)	
Nominal insulation thickness	0.7 mm
Nominal outer sheath thickness	0.8 mm

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC
Max. DC resistance of the conductor at 20°C	8.21 Ohm/km
Permissible current rating in air 60°C	41 A
Permissible current rating on a tray 60°C	39 A

### Usage characteristics

Flame retardant	IEC 60332-1-2
Operating temperature, range	-40 ... 90 °C
Short-circuit max. conductor temperature	250 °C
Smoke density	IEC 61034
Gases corrosivity	IEC 60754-2
Max. conductor temperature in service	120 °C
Ozone resistance	EN 50396:2005
Resistance to vibrations	Condition AH 3 (sever industrial conditions) acc. to HD 60364-5-52
U.V resistance	EN 50289-4-17 method A, for 720h. Nexans prestige test 4000h
Water proof	Passed 100 days 50°C water immersion test of EN 50525-2-21 annex D and E
Weather resistance	Excellent