

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

H1Z2Z2-K 1x25 mm²

Contact

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Nexans Ref.: 10575651

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

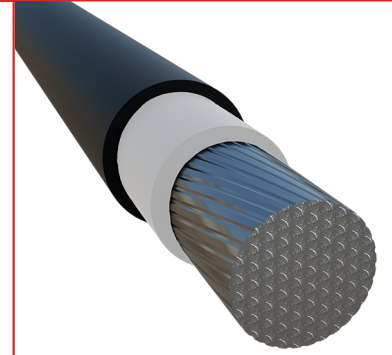
Standard: EN 50618

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_o/U
(U_m)
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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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	25 mm ²
Nominal outer diameter	10.9 mm
Approximate weight	280 kg/km
Conductor diameter (mm)	
Nominal insulation thickness	0.9 mm
Nominal outer sheath thickness	1.0 mm

Electrical characteristics

Rated Voltage U ₀ /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	0.795 Ohm/km
Permissible current rating in air 60°C	176 A
Permissible current rating on a tray 60°C	167 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

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