

Nexans PV DC Solar Cable H1Z2Z2-K (1.5/1.8kV DC)

H1Z2Z2-K

TCu FLEX/XLPE FLEX/XLPE FLEX 1.0/1.0 (1.2) kV AC, 1.5/1.5 (1.8) kV DC EN 50618, IEC 62930

DESCRIPTION

PV cables are designed to comply with the international standards of the solar plants.

They are dedicated to the photovoltaic system direct current (D.C.) side with a nominal D.C. voltage of 1.5 kV and a maximum D.C. voltage of 1.8 kV.

These cables are suitable for permanent outdoor long term use, under variable and harsh climate conditions. They are designed and tested to operate at a normal maximum conductor temperature of 90°C and for 20,000 hours up to 120°C.

Therefore, the expected period use is 30 to 40 years under normal usage conditions

DESCRIPTION

Application

These cables 1.5kV D.C. crosslinked 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:** H1Z2Z2K
- **Standard:** EN 50618:2014, IEC 62930
- **Rated voltage:** 1.0/1.0 (1.2) kV AC, 1.5/1.5 (1.8) kV DC

Design

- Single core solar cable with low smoke, halogen free, crosslinked insulation and sheath.

Recommended Use

- Renewable Energies; Solar Plants.
- Intended for permanent use outdoor and indoor.
- Installation can be fixed or free movable / free hanging, and also in cable trays and conduits.

CHARACTERISTICS

Construction characteristics

Conductor shape

Circular

Dimensional characteristics

Number of cores

1



STANDARDS

International EN 50618

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PV H1Z2Z2-K CABLE (1.5KV DC)

Country Ref.	Cross section [mm ²]	Nom. insulation thick. [mm]	Nom. outer sheath thick. [mm]	Nom. overall diam. [mm]	Approx. weight [kg/km]	Max. DC Resist. Cond. 20°C [Ohm/km]	Ampacity [A]	Sheath colour
SH1Z2Z2 1*2.5//PV	2.5	0.7	0.8	4.9	40	8.21	41.0	Black
SH1Z2Z2 1*4//PV	4	0.7	0.8	5.4	55	5.09	50.0	Black
H1Z2Z2-K 1*4//MAT	4	0.7	0.8	5.4	55	5.09	50.0	Black
SH1Z2Z2 1*4//PV-R	4	0.7	0.8	5.4	55	5.09	50.0	Red
SH1Z2Z2 1*6//PV	6	0.7	0.8	6.0	75	3.39	70.0	Black
H1Z2Z2-K 1*6//INEO	6	0.7	0.8	6.0	75	3.39	70.0	Black
H1Z2Z2-K 1*6//MAT	6	0.7	0.8	6.0	75	3.39	70.0	Black
SH1Z2Z2 1*6//PV-R	6	0.7	0.8	6.0	75	3.39	70.0	Red
SH1Z2Z2 1*10//PV	10	0.7	0.8	7.1	118	1.95	98.0	Black
SH1Z2Z2 1*10//PV-R	10	0.7	0.8	7.1	118	1.95	98.0	Red
SH1Z2Z2 1*16//PV	16	0.7	0.9	8.6	178	1.24	132.0	Black
SH1Z2Z2 1*16//PV-R	16	0.7	0.9	8.6	178	1.24	132.0	Red
SH1Z2Z2 1*25//PV	25	0.9	1.0	10.5	267	0.795	176.0	Black
H1Z2Z2-K 1*25//PV-	25	0.9	1.0	10.5	267	0.795	176.0	Black
SH1Z2Z2 1*25//PV-R	25	0.9	1.0	10.5	267	0.795	176.0	Red
SH1Z2Z2 1*50//PV	50	1.0	1.2	13.7	654	0.393	276.0	Black
SH1Z2Z2 1*70//PV	70	1.1	1.2	16.0	698	0.277	347.0	Black
SH1Z2Z2 1*70//MAT	70	1.1	1.2	16.0	698	0.277	347.0	Black
SH1Z2Z2 1*95//PV	95	1.1	1.3	18.0	883	0.21	416.0	Black
SH1Z2Z2 1*95//PV-R	95	1.1	1.3	18.0	883	0.21	416.0	Red
SH1Z2Z2 1*120//PV	120	1.2	1.3	20.0	1180	0.164	488.0	Black
SH1Z2Z2 1*120//PV-R	120	1.2	1.3	20.0	1180	0.164	488.0	Red
SH1Z2Z2 1*150//PV	150	1.4	1.4	21.0	1484	0.132	566.0	Black

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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SH1Z2Z2 1*150//PV-R	150	1.4	1.4	21.0	1484	0.132	566.0	Red
SH1Z2Z2-K 1*185//PV	185	1.6	1.6	25.0	1821	0.108	644.0	Black
SH1Z2Z2 1*185//PV-R	185	1.6	1.6	25.0	1821	0.108	644.0	Red
SH1Z2Z2 1*240//PV	240	1.7	1.7	27.5	2366	0.0817	775.0	Black
SH1Z2Z2 1*240//PV-R	240	1.7	1.7	27.5	2366	0.0817	775.0	Black