



H1Z2Z2-K

Solar Cables



DESCRIPTION

For long-term use in demanding environments The H1Z2Z2-K complies with DIN EN 50618 (VDE 0283-618) and is specifically designed for the cabling of photovoltaic systems. It can be installed permanently or used flexibly - indoors, outdoors, in industrial facilities, agricultural operations, or even in hazardous (explosive) areas. The cable is UV-, ozone- and water-resistant (AD7) and can be laid directly in the ground. Construction and technical features The finely stranded tinned copper conductor (class 5) is double protected by cross-linked insulation and a cross-linked outer sheath made of polyolefin copolymer - halogen-free, flame-retardant, and highly abrasion-resistant. The cable is designed for a maximum conductor temperature of 120 °C and remains reliably flexible even at -40 °C (fixed installation). Its low smoke emission and high resistance to mechanical and thermal stress ensure safe, long-term operation. Key features at a glance Halogen-free, flame-retardant, UV- and ozone-resistant Short-circuit and earth fault proof according to VDE-AR-E 2283-4 Approved for indoor, outdoor and hazardous (explosive) areas Suitable for direct burial CPR performance class: Eca

TECHNICAL DATA

Maximal operating conductor temperature (°C)	120 °C	Maximal short-circuit temperature (°C)	+250 Max. 5 sec. °C
Minimal temperature for laying (°C)	-25 °C	Operating temperature range (°C)	-40/+90 °C
Rated voltage (kV)	AC: 1000/1000 V DC: 1500 V kV	Shape of conductor	RM
Test voltage (kV)	6,5 AC, 15 DC (5 min.) kV		



CROSS-SECTION DATA — AC: 1000 / 1000 V DC: 1500 V

Cores & CS	Cond.	Shape	RI [Ohm/km]	Rbv [mm]	Ø [mm]	G [kg/km]
1x1,5		RM	13.7	22	4.5	33
1x2,5		RM	8.21	24	4.9	41
1x4		RM	5.09	26	5.5	57
1x6		RM	3.39	30	5.9	73
1x10		RM	1.95	35	6.9	110
1x16		RM	1.24	40	8	170
1x25		RM	0.795	50	10	260
1x35		RM	0.565	56	11	360
1x50		RM	0.393	60	13.2	500