



# H1Z2Z2-K

Photovoltaic Solar Cable

## APPLICATION

For free and stationary or for freely suspended outdoor and indoor cabling between the solar modules, or between the module strings and the DC/AC inverter, for example in line with HD 60364-7-712 on PV systems, and EN 50618 on H1Z2Z2-K cable type, etc....; Short circuit and earth fault protected per EN 50618, Annex A, and per HD 60364-5-52 Photovoltaic systems with DC system voltage up to 1800 V to ground. As per EN 50618, Annex A, They are intended for permanent use outdoor and indoor, for free movable, free hanging and fixed installation. Installation also in conduits and trunkings on, in or under plaster as well as in appliances. Suitable for the application in/at equipment with protective insulation (protection class II). AD8: Permanent water contact and submersion down to 1 metre in water depth.

## CONSTRUCTION

Conductors: Tinned copper conductor, class 5  
 Insulation: Halogen-free cross-linked compound  
 Sheath: Halogen-free cross-linked, flame retardant compound, UV resistant acc. to:  
 - ISO 4892-1 - General guidance  
 - ISO 4892-2 - Xenon-arc lamps  
 - ISO 4892-3 - Fluorescent UV lamps

## CORE IDENTIFICATION

Outer Sheath Colour:

● Black OR ● Red

*Other colours available on request*

## TECHNICAL CHARACTERISTICS

Test voltage: 6,5 kV  
 Rated voltage: 1/1 kV AC, 1,5/1,5 kV DC  
 Max. voltage: 1,8 kV  
 Min. temp. for cable laying: -25°C  
 Working temperature: -40°C to 90°C  
 Working temp. of max. 20000h: 120°C  
 Max. short-circuit temperature: 250°C  
 Min. bending radius: 4xD  
 Water Resistant: AD8  
 Flame retardant: EN 60332-3-24/VDE 0482-266-2-4  
 Halogen content: EN 60754-1, EN 60754-2

## STANDARD

EN 50618

## CERTIFICATION



NOMINAL CROSS-SECTION	MAX. RESISTANCE AT 20°C	MAX. RESISTANCE AT 90°C	NOM. THICKNESS OF INSULATION	NOM. THICKNESS OF SHEATH	SINGLE CABLE IN AIR	SINGLE CABLE ON SURFACE	TWO CABLES ADJACENT ON SURFACE	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm²	Ω/km	Ω/km	mm	mm	A	A	A	mm	kg/km
1x1,5	13,7	17,468	0,7	0,8	30	29	24	4,6	36
1x2,5	8,21	10,468	0,7	0,8	41	39	33	5,0	46
1x4	5,09	6,490	0,7	0,8	55	52	44	5,6	62
1x6	3,39	4,322	0,7	0,8	70	67	57	6,1	82
1x10	1,95	2,486	0,7	0,8	98	93	79	7,1	125
1x16	1,24	1,581	0,7	0,9	132	125	107	8,5	190
1x25	0,795	1,013	0,9	1,0	176	167	142	10,4	285
1x35	0,565	0,720	0,9	1,1	218	207	176	11,5	385
1x50	0,393	0,501	1,0	1,2	276	262	221	13,7	540
1x70	0,277	0,353	1,1	1,2	347	330	278	15,8	740
1x95	0,210	0,267	1,1	1,3	416	395	333	17,3	965
1x120	0,164	0,209	1,2	1,3	488	464	390	19,1	1210
1x150	0,132	0,168	1,4	1,4	566	538	453	21,4	1495
1x185	0,108	0,137	1,6	1,6	644	612	515	24,9	1885
1x240	0,082	0,104	1,7	1,7	775	736	620	27,3	2395

