



H1Z2Z2-K
Photovoltaic cable EN50618
Dca-s2,d2,a1



Description

Single-core flexible cable is suitable for photovoltaic and solar systems with cross-linked polymer insulation and halogen-free outer sheath. Expected period of use under normal conditions is at least 25 years. The cable is suitable for the interconnection of the various elements of photovoltaic systems, suitable for fixed installations outdoors and indoors, also suitable for direct ground laying (the rodent resistance can be optimized by using protective tubes).

Technical attributes

Standards	EN 50618
Conductor material	Cu, tinned
Conductor type	flexible
Conductor standard	DIN VDE 0295/IEC 60228
Conductor category	5
Core insulation	halogen-free, cross-linked polymer
Core colours	light grey
Outer sheath	halogen-free, cross-linked polymer
Outer sheath colour	black - red - blue
Temperature range min.	-40 °C
Temperature range max.	+90 °C
Temperature at conductor max. (20.000 h)	+120 °C
Nominal voltage U ₀ /U	1,0/1,0 kV (AC)
Test voltage	6,5 kV (AC)
Max. voltag U _m	1,8 kV (DC)
Minimum bending radius, fixed installation	5 x cable-Ø
Fire behaviour	Dca - s2, d2, a1
RoHS-compliant	yes

NOTE

- fire behaviour - Dca - s2, d2, a1
- halogen-free EN 50525-1 Annex B (EN 50267-2-1, EN 50267-2-2, IEC 60754-1, IEC 60754-2)
- low smoke emission IEC 61034, EN 61034 (light transmittance > 60%)
- ozone-resistant EN 60811-403 Test Method A, EN 50396 clause 8.1.3 Test Method B
- UV-resistant EN 50618 Annex E, EN 50289-4-17 (Method A), EN ISO 4892-1 /-2 tensile strength and elongation at break after 720h (360 Cycles) of exposure to UV lights
- flame-retardant IEC/EN 60332-1-2
- water-resistant AD8 category



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KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM ²	mm ²	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
40V025HSW	H1Z2Z2-K 1/1kV BLACK	2,5	5,0	24,0	44
40V025HRT	H1Z2Z2-K 1/1kV RED	2,5	5,0	24,0	44
40V025HBL	H1Z2Z2-K 1/1kV BLUE	2,5	5,0	24,0	44
40V040HSW	H1Z2Z2-K 1/1kV BLACK	4	5,4	38,4	58,2
40V040HRT	H1Z2Z2-K 1/1kV RED	4	5,4	38,4	58,2
40V040HBL	H1Z2Z2-K 1/1kV BLUE	4	5,4	38,4	58,2
40V060HSW	H1Z2Z2-K 1/1kV BLACK	6	6,2	57,6	79,4
40V060HRT	H1Z2Z2-K 1/1kV RED	6	6,2	57,6	79,4
40V060HBL	H1Z2Z2-K 1/1kV BLUE	6	6,2	57,6	79,4
40V100HSW	H1Z2Z2-K 1/1kV BLACK	10	7,4	96,0	128,4
40V100HRT	H1Z2Z2-K 1/1kV RED	10	7,4	96,0	128,4
40V100HBL	H1Z2Z2-K 1/1kV BLUE	10	7,4	96,0	128,4
40V160HSW	H1Z2Z2-K 1/1kV BLACK	16	10,1	153,6	184,5
40V160HRT	H1Z2Z2-K 1/1kV RED	16	10,1	153,6	184,5
40V160HBL	H1Z2Z2-K 1/1kV BLUE	16	10,1	153,6	184,5

*The products and information presented here are for technical calculation only.
 They are subject to technical progress and in no way represent the ability of shipment.
 Outer diameters are approximately.*