



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
RoHS-compliant	ja

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).

Note

- fire behaviour - Dca - s2, d2
- 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

Product table

product name	Weight ca. [kg]	Cu-weight [kg_km]	Outer-Ø ca. [mm]	Outer sheath colour
Solar 1 x 4 EN50618 H1Z2Z2-K 1/1 kV bk	58,20	38,40	5,40	black
Solar 1 x 4 EN50618	58,20	38,40	5,40	red
Solar 1 x 4 EN50618 H1Z2Z2-K 1/1 kV bl	58,20	38,40	5,40	blue
Solar 1 x 6 EN50618 H1Z2Z2-K 1/1 kV bk	79,40	57,60	6,20	black
Solar 1 x 6 EN50618 H1Z2Z2-K 1/1 kV rd	79,40	57,60	6,20	red
Solar 1 x 6 EN50618 H1Z2Z2-K 1/1 kV bl	79,40	57,60	6,20	blue
Solar 1 x 10 EN50618 H1Z2Z2-K 1/1 kV bk	128,40	96,00	7,40	black
Solar 1 x 10 EN50618 H1Z2Z2-K 1/1 kV rd	128,40	96,00	7,40	red
Solar 1 x 10 EN50618 H1Z2Z2-K 1/1 kV bl	128,40	96,00	7,40	blue
Solar 1 x 16 EN50618 H1Z2Z2-K 1/1 kV bk	184,50	153,60	10,10	black
Solar 1 x 16 EN50618 H1Z2Z2-K 1/1 kV rd	184,50	153,60	10,10	red
Solar 1 x 16 EN50618 H1Z2Z2-K 1/1 kV bl	184,50	153,60	10,10	blue