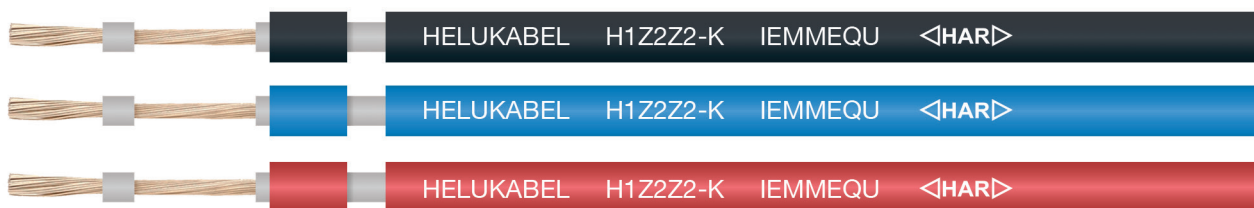


H1Z2Z2-K

flexible, single core, halogen free, EN 50618



TECHNICAL DATA

Cable for PV system acc. to EN 50618

Temperature range	fixed -40°C to +90°C ¹
Max. temperature at conductor	+120°C
Max. temperature at conductor (short circuit)	+250°C for 5s
Nominal voltage	U ₀ /U 1000/1000 V AC U ₀ /U 1500/1500 V DC max. permissible voltage 1800 V DC
Test voltage	6,5 kV AC
Minimum bending radius	fixed: 3x Ø cable
CPR acc. to EN 50575 Certification	Eca (no. 18048835 is not CPR class) IEMMEQU <HAR>

Cable life:

¹⁾ Continuous operation at + 90 °C on the conductor and an ambient temperature of up to + 60 °C ensures at least 25 years of service life, while at + 120 °C on the conductor and a maximum ambient temperature of + 90 °C, the service life is shortened to 20,000 h, i.e. about 2 years and 3 months.

²⁾ Direct burial in the ground shortens the service life of the cable.

CABLE STRUCTURE

- Tinned copper, fine wire conductor cl.5 to DIN VDE 0295/IEC 60228
- Core insulation: special halogen free cross-linked compound
- Insulation color: light gray
- Sheat: special halogen free cross-linked compound
- Sheath color: see table below
- Length marking: in metres

PROPERTIES

- Resistant to: UV radiation, weathering effects, ozone
- Meets the requirements of the 2nd class of protection in protection against electric shock
- Used for outdoor and indoor installations
- Suitable for direct burial in the ground², but it is recommended to be installed in protective pipes
- Cable lifetime min. 25 years

TESTS

- Flame-retardant acc. to IEC 60332-1-2
- Halogen-free acc. to DIN VDE 0285-525-1/DIN EN 50525-1 and DIN EN 50267-2/IEC 60754
- Smoke density acc. to DIN VDE 0482-1034-1+2/ DIN EN 61034-1+2/IEC 61034-1+2
- UV-resistance acc. to DIN VDE 0283-618/DIN EN 50618 appendix E
- Ozone resistant acc. to DIN VDE 0473-811-403/ DIN EN 60811-403: method A
- Resistant to high humidity at +90°C acc. to DIN VDE 0283-618/ DIN EN 50618
- Cable life in acc. to DIN VDE 0283-618/DIN EN 50618

APPLICATION

Cable H1Z2Z2-K is used for cabling PV system.

Part no.	No. cores x cross-sec mm ²	Sheath color	Outer ø app. mm	Cu wieght kg / km	Weight app. kg / km	No. AWG
18048835	1x2,5	black	5,4	24,0	42,5	14
18048769	1x4	black	6,6	38,4	58	12
18048770	1x4	red	6,6	38,4	58	12
18048849	1x4	blue	6,6	38,4	58	12
18048771	1x6	black	7,4	57,6	79	10
18048772	1x6	red	7,4	57,6	79	10
18048850	1x6	blue	7,4	57,6	79	10
18048828	1x10	black	8,8	96,0	128	8
18048829	1x10	red	8,8	96,0	128	8