

H1Z2Z2-K C_{ca} – s1, d2, a1

Solar cable, 1 kV (AC) 1,5 kV (DC)
+90 °C service temperature, low smoke, zero halogen, fire retardant, UV resistant, waterproof
EN 50618, IEC 62930 and EN 50575

Application

Zero halogen, flexible single core power cable with improved fire characteristics for use in photovoltaic systems. For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter. The expected period of use under normal usage conditions as specified in the standard EN 50618 is at least 25 years. The cables are designed to operate at a normal maximum conductor temperature of 90 °C, but for a maximum of 20 000 hours a max. conductor temperature of 120 °C at a max. ambient temperature of 90 °C is permitted. Suitable for immersed installations (AD7) – for submerged installations (AD8) cables on request.

Construction



1. Conductor: Copper conductor, tinned, flexible (class 5)
2. Insulation: Cross-linked, halogen free
3. Outer sheath: Cross-linked, halogen-free, black, red or blue

Technical information

Rated voltage	AC U ₀ /U	1,0/1,0 kV
	DC U ₀ /U	1,5/1,5 kV
	DC U _{max}	1,8 kV
Max. permissible temperature at conductor		120°C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Ambient temperature		-40 °C till +90 °C
Min. bending radius mm		5 x outer diameter in mm
Safety parameters		
Reaction to fire		EN 50399 C _{ca} – s1, d2, a1
Halogen free		EN 50525-1, Annex B
Additional parameters		
UV resistance		EN 50618
Water resistance		AD7 (immersion) on request AD8 (submersion)

N° of cores and cross section mm ²	Outer-diameter approx. mm	Weight approx. kg/km	Current carrying capacity in free air A*	Current carrying capacity on surfaces A*
1 x 4	5,4	60	55	52
1 x 6	6,0	80	70	67
1 x 10	7,0	120	98	93
1 x 16	8,2	180	132	125
1 x 25	10,2	280	176	167

*ambient temperature of 60 °C

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.

All information is for guidance only without liability. Subject to change without notice.

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