Solar Cable - PV cable - H1Z2Z2-K

4 mm and 6 mm single-core solar cable: Especially designed to connect solar panels for permanent junction boxes and inverters. Good abrasion and ozone resistant flame-retardant properties. Halogen-free oil-resistant, reduced diameter and outstanding flexibility.

TÜVRheinland®
Precisely Right.

STANDARDS
EN 50618
CERTIFICATES
CE

TECHNICAL DATA

Chemical properties	
Halogen-free	acc. to EN 50525-1 Annex B (EN 50267-2-1, EN 50267-2-2, IEC 60754-1, IEC 60754-2)
Low Smoke Emission	acc. to IEC 61034, EN 61034 (Light Transmittance > 60%)
Weather resistance	Ozone resistance:
	acc. to EN 60811-403 Test Method A, EN 50396 clause 8.1.3 Test Method B
	Weathering/UV resistance:
	acc. to EN ISO 4892-1 and 4892-3 (Method A)tensile strength and elongation at break after 840h (70 Cycles) of exposure to UV lights
Acid and alkaline resistance	acc. to EN 50618:2014 Annex B: 7 days, 23° C (N-Oxalic Acid, N-Sodium Hydroxide) as for EN 60811-404
Mechanical properties	
	for insulation and sheath before ageing acc. to EN 50618 Annex B (test acc. To EN 60811-501).
	tensile strength ≥ 8 N/mm²
	elongation at break for insulation and sheath ≥ 125 %
Shrinkage test on sheath	acc. to EN 50618, Table 2: <2% (test acc. to EN 60811-503).
Durability of Print	acc. to EN 50618 (test acc. to EN 50396)
Direct Burial	Impact test resistance of single conductor type USE and USE-2 cables (tested acc. to UL854)
	Rodent resistance safety can be optimized by utilizing protective hoses and cables with spinning or braid metallic coatings
Water resistance	AD8 category
	Tested with successful acc. to EN 50525-2-21 “Annex E” (after immersion for 100 days / 2.400 h to 50°C):
Long term resistance of insulation to d.c	acc. to EN 50618, Table 2 test acc. to EN 50395 clause 9:
	Cable immersed in water containing 1% NaCl for 240h ; water temperature: 85°C ± 5; Voltage applied: 1.8 kV D.C.
Thermal properties	
Lifetime	acc. to EN 50618 : 25 years
	the cables are designed to operate at a normal max 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. (test according to EN 60216-1 and EN 60216-2)
Max.short circuit temperature	250°C (for 5 sec.)
Resistance to cold	EN 50618, Table 2:
	Cold Bending Test at -40°C acc. to EN 60811-504;
	Cold Elongation Test at -40°C acc. to EN 60811-505;
	Cold Impact Test at -40°C acc. to EN 50618 Annex C and EN 60811-506.
	Damp-Heat Test Acc. to EN 50618, Table 2 (test acc. to EN 60068-2-78) : 90°C for 1.000h and min. 85% humidity