

TÜV H1Z2Z2-K Solar PV Cable (1500V DC)

DATA SHEET



APPLICATIONS

H1Z2Z2-K acc. to EN 50618, are intended for use in PV Systems.

STANDARDS

EN 50618

CONSTRUCTION

Conductor	Stranded Tinned Copper Class 5 Acc. to EN 60228
Insulation	XLPO (Cross-linked Polyolefin)
Color	Black
Jacket	XLPO (Cross-linked Polyolefin)
Color	Black Red

CHARACTERISTICS

Rated voltage	DC U ₀ /U: 1,5/1,5 kV Max. 1,8/1,8 kV AC U ₀ /U: 1,0/1,0 kV
Test voltage	6500 VAC (5 Min) Acc. to EN 50395
Minimum bending radius	Fixed 5x Outer-Ø Acc. to EN 50565-1
Temperature range	Fixed -40°C to +90°C
Max. conductor temperature	120°C (20000h) Acc. to EN 60216-1+2
Water Resistance	AD7
Service Life	30 Years Acc. to EN 60216-1
CPR rating	Dca

TESTS

Halogen-free	EN 60754-2
Flame-retardant	EN 60332-1-2
Smoke density	EN 61034-1+2
UV-resistant	EN 50618 Appendix E
Ozone-resistant	EN 50618
Weather-resistant	EN 50618 Appendix E
Water-resistant	EN 50525-2-21 Appendix E EN
DC Voltage resistance of the insulation	50618 Tab. 2
Certifications	TÜV Rheinland (No.50586091)

Cross Section (mm ²)	Max. Outer Diameter(mm)	Max. DC Resistance (20°C) (Ohm/Km)	Current carrying capacity acc. to method of installation			Delivery Length (m)
			Single Cable free in air (A)	Single Cable on a Surface (A)	Two loaded cables touching on a surface (A)	
4,00	5,2-5,9	5,09	55	52	44	500
6,00	5,8-6,4	3,39	70	67	57	500
10,00	6,9-7,7	1,95	98	93	79	500
16,00	9,7-10,4	1,24	132	125	107	500