

TC/XLPO/XLPO 1500V DC



APPLICATIONS

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

STANDARDS

EN 50618 H1Z2Z2-K, 62930 IEC 131, 2PFG:1169 PV1-F

CONSTRUCTION

Conductor	Stranded Tinned Copper Class 5 Acc. to EN 60228
Insulation	XLPO (Cross-linked Polyolefin)
Color	Black
Jacket	XLPO (Cross-linked Polyolefin) + Anti-Rodent Anti-Termite Material
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
Service Life	30 Years Acc. to EN 60216-1

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
DC Voltage resistance of the insulation	EN 50618 Tab. 2
Certifications	TÜV Rheinland (No.50546675)

ELECTRICAL DATA

No. of Cores x Cross Section mm ²	AWG (approx.)	Conductor O.D. mm	Insulation O.D. mm	Jacket O.D. mm	Conduct Resistance at 20°C		Weight (approx.) kg/km
					Max. Ω/km		
1x4	12	2.50	3.9	5.5	5.09		59
1x6	10	3.00	4.4	6.0	3.39		78
1x10	8	4.40	6.0	8.0	1.95		101