

TECSUN (PV) H1Z2Z2-K 1X6

Solar cable H1Z2Z2 K



APPLICATION

TECSUN is a solar cable type H1Z2Z2-K for PV systems, specifically to connect solar panels to converters. This PV cable is suitable for indoor and outdoor use, as well as for underground installation and is used in building installations, residential constructions, and installations for sustainable and renewable energy.

The TÜV and VDE certificates of this cable guarantee its **high quality and long service life**. Since the non-armoured installation cable is compatible with default socket connections, the installer can **install it quickly**.

This cable has unique direct-bury and floatin application properties, provided that the installer protects it against damage.

CERTIFICATIONS AND DESIGN STANDARDS



EN 50618	Electric cables for photovoltaic systems
EN 60332-1-2	Vertical flame propagation for a single insulated wire or cable
EN 60811-402	Water absorption tests
EN 60811-505	Elongation at low temperature for insulations and sheaths
EN 50396	Non electrical test methods for low voltage energy cables
EN 60811-504	Bending tests at low temperature for insulation and sheaths
EN 60811-503	Shrinkage test for sheaths
EN 60811-506	Impact test at low temperature for insulations and sheaths
EN 60811-508	Pressure test at high temperature for insulation and sheaths
EN 60811-404	Mineral oil immersion tests for sheaths
EN 61034-2	Measurement of smoke density of cables
EN 50289-4-17	Test methods for UV resistance evaluation of the sheath

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	HEPR rubber
Material outer sheath	EVA rubber

Nominal voltage U ₀ [V]	1,000
Nominal voltage U [V]	1,000
Nominal voltage DC U [V]	1,500
Max. voltage DC U _m [V]	1,800
Test voltage [kV]	6.5
Rated voltage U ₀ /U (U _m)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Permitted cable outer temperature after assembling without vibration (min) [°C]	-40
Permitted cable outer temperature after assembling without vibration (max) [°C]	60
Permitted cable outer temperature during assembling/handling (min) [°C]	-25

We reserve the right to change the data as a result of product development and/or changes in product standard.

Bending radius (rule)

Acc. to DIN EN 50565-1, table 3:
3 X D fixed installation

PRODUCT PROPERTIES

Conductor category	Class 5 = flexible
Shape of conductor	Round
Nominal cross section conductor [mm ²]	6
Number of cores	1
With protective conductor	No
Colour outer sheath	Blue
Nominal outer diameter [mm]	6.1
Current carrying capacity [A]	67
Conductor resistance at 20° C [Ohm/km]	3.39
Short circuit current conductor (1sec) [kA]	0.86
Current carrying capacity in air [A]	70
Cable weight [kg/km]	80
Min. bending radius during installation [mm]	40
DOP number	1016009

Current load in air - single cable free in air, ambient temperature 60°C
 Current load - single cable on surface, ambient temperature 60°C

Item name	EAN-code (GTIN)	Packaging type	Standard packaging quantity
TECSUN(PV) H1Z2Z2-K 1X6 BL 1/1KV	08711401140784	Drum	500
TECSUN(PV) H1Z2Z2-K 1KVBU 1X6 MM2 D	08711401147653	Without packaging	1