TOPSOLAR® PV H1Z2Z2-K

TÜV solar PV cable.

ACCORDING TO: EN 50618 / IEC 62930 / UTE C 32-502

100% Green Energy Cable Production



Cca

APPLICATION

The TOPSOLAR® PV H1Z2Z2-K cable, which is TÜV certified according to EN 50618 and AENOR certified according to IEC 62930, it is suitable for both fixed and mobile solar installations (solar farms, rooftop solar installations and floating plants).
It is a highly flexible cable compatible with all major connectors and specially designed for the connection of photovoltaic panels.
This versatile single-conductor cable is designed to meet the varying needs of the solar industry.
Suitable for wet, damp and humid locations.

- Solar PV installations string cable.

CONSTRUCTION

Conductor
Electrolytic annealed tinned copper conductor class 5 (flexible) according to IEC 60228 and EN 60228.

Insulation
Halogen free cross linked rubber insulation.
Insulation requirements according to table B1 in Annex B of EN 50618 and IEC 62930.

Outer sheath
Halogen free cross linked flexible rubber outer sheath.
Outer sheath requirements according to table B1 in Annex B of EN 50618 and IEC 62930.
Red or black colour.

CHARACTERISTICS

Electrical performance
Low voltage: 1,5/1,5 (1,8) kV DC.
1,0/1,0 kV AC.

Thermal performance
Maximum service temperature: 120°C during 20.000 h.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (fixed and protected installations).

Fire performance
Flame non-propagation according to EN 60332-1-2 / IEC 60332-1-2.
Fire non-propagation according to EN 50399.
Reaction to fire CPR: C_{ca}-s1b, d2, a1, according to EN 50575.
LSHF (Low Smoke Halogen Free) according to EN 60754-1 / IEC 60754-1.
Low smoke emission according to EN 61034 / IEC 61034:
Light transmittance > 60%.
Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Mechanical performance
Minimum bending radius:
4x cable diameter (cable diameter ≤ 8 mm)
5x cable diameter (8 < cable diameter ≤ 12 mm)
6x cable diameter (cable diameter > 12 mm).
Impact resistance: AG2 Medium severity.

Environmental performance
Chemical & Oil resistance: Excellent.
Grease & mineral oils resistance: Excellent.
Ozone resistant according to EN 50618.
UV Resistant according to EN 50618.
Water resistance: AD8 Submersion.

Installation conditions
Open Air.
Buried.
In conduit.

STANDARDS / COMPLIANCE

According to
EN 50618/ IEC 62930 / UTE C 32-502

Standards and approvals
TÜV (from 2.5 to 25mm² in Black and Red) / RETIE / AENOR/ RoHS / CE

CPR (Construction Products Regulation)
C_{ca}-s1b, d2, a1

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