



Solar Cable

ZZ-F/H1Z2Z2-K

TÜV & EN solar PV string cable.

EN 50618 / TÜV 2Pfg 1169-08 / UTE C 32-502

DESIGN

Conductor

Class 5 (flexible) tinned copper, based on EN 60228 and IEC 60228.

Insulation

Low smoke zero halogen (LSZH) rubber

Outer sheath

Low smoke zero halogen (LSZH) rubber, red or black colour.



E_{ca}

APPLICATIONS

ZZ-F / H1Z2Z2-K is a solar PV cable, TÜV & EN certified, specially designed for the connection of photovoltaic panels. This versatile single-conductor cable is designed to meet the varying needs of the solar industry. Highly flexible cable, compatible with all major connectors. Suitable for wet, damp and humid locations.



CHARACTERISTICS



Electrical performance

LOW VOLTAGE 1,5/1,5 1KV · (1,8) kV DC.



Standard

EN 50618/ TÜV 2Pfg 1169-08 / UTE C 32-502.



Approvals

CE
TÜV
EN
RoHS



E_{ca}



Thermal performance

Maximum service temperature: 120°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C.



Fire performance

Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.

LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.

Low smoke emission based on UNE-EN 61034 and IEC 61034: Light transmittance > 60%

Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.

Reaction to fire CPR: Eca, according to EN 50575.



Mechanical performance

Minimum bending radius: x3 cable diameter.
Impact resistance: AG2 Medium severity.



Chemical performance

Chemical & Oil resistance: Excellent.
Grease & mineral oils resistance: Excellent.



UV Resistant

UV Resistant based on EN 50618 and TÜV 2Pfg 1169-08.



Water performance

Water presence: AD8 submerged.



Estimated Lifetime

Estimated lifetime 30 years based on UNE-EN 60216-2.



Other

Meter by meter marking.



Installation conditions

Open Air.
Buried.



Applications

Solar PV installations - strings cable.

DESIGN

Cross section (mm ²)	Diameter (mm ²)	Weight (kg/km)	Open Air (A)	Inst. on surface (A)	Inst. adjoining to surface	Voltage drop (V/A · km)
1 x 2,5	4,8	42	41	39	33	23,0
1 x 4	5,3	57	55	52	44	14,3
1 x 6	5,9	76	70	67	57	9,49
1 x 10	7,0	120	98	93	79	5,46
1 x 16	8,2	179	132	125	107	3,47
1 x 25	10,8	294	176	167	142	2,23
1 x 35	11,9	390	218	207	176	1,58

