H1Z2Z2-K

LSZH

Marking: CE 2479 SPECIALCAVI BALDASSARI H1Z2Z2-K <formation> IEMMEQU HAR <lot> <year> DCA-S2,D2,A1

Conductor:
Flexible tinned copper, class 5
Insulation:
LSZH cross-linked elastometric compound
Outer sheath:
Special LSZH cross-linked elastometric compound, UV resistant
Colours:
Cores identification:
White
Outer sheath colour:
Black or Red (based on RAL 9005 or 3000)

ELECTRICAL CHARACTERISTICS

Operating voltage:
Nominal operating voltage:
1.0kV AC - 1.5kV DC (also to earth)
Maximum operating voltage:
1.2kV AC - 1.8kV DC (also to earth)
Outer sheath operating voltage:
Nominal operating voltage:
1.0kV AC - 1.5kV DC (also to earth)
Maximum operating voltage:
1.2kV AC - 1.8kV DC (also to earth)
Testing voltage: 15 kV DC

STANDARDS

EN 50618
EN 60228 EN 50395
EN 50618
EN 50618 EN 50395 EN 62230
EN 50618 EN 50396 EN 60228
EN 60811-401 EN 50618
EN 60811-504 EN 60811-505 EN 60811-506 EN 50618
EN 60811-403 EN 50396 EN 50618
EN 50618 EN 50289-4-17 type A
EN 50618
EN 60068-2-78
EN 60811-503
EN 60332-1-2
EN 61034-2 (LT≥60%)
EN 50525-1
EN 50618 EN 60216-1 EN 60216-2

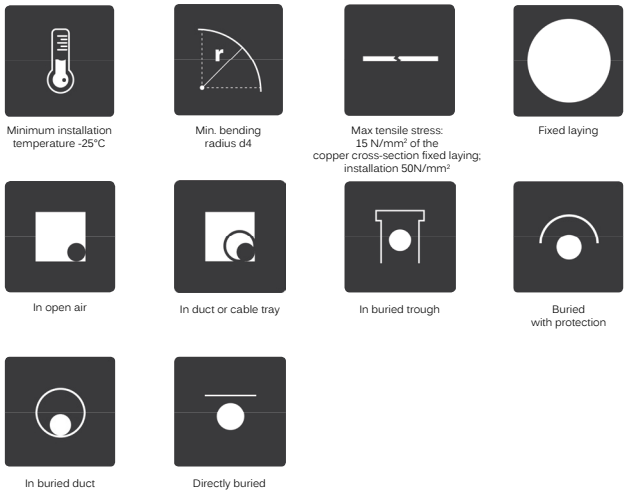
REACTION TO FIRE CLASS

EN 50575:2016 D_{ca}- s2, d2, a1

TEMPERATURES

Minimum working temperature: -40°C
Maximum working temperature: +90°C
Maximum short circuit temperature: +250°C

LAYING CONDITIONS



APPLICATIONS

Cable conforms to the requirements in the Construction Products Regulations (CPR EU 305/11), aimed at limiting the production and diffusion of fire and smoke.
Single-core halogen free cable suitable for interconnecting various components in solar and photovoltaic systems.
H1Z2Z2-K cable has an excellent resistance to UV rays and weather conditions.
The cable is estimated to operate about 25 years (EN 50618). The period expected for its use at 120°C maximum core temperature and at 90°C maximum ambient temperature is limited to 20.000 hours.
Suitable for fixed laying outdoors and inside buildings, without protection or inside visible or embedded pipes.**

HAR

H1Z2Z2-K

**APPLICATIONS

Suitable for applications not covered by CPR Regulations and for installations in a closed environment, excluding cases with specific initiation/propagation fire hazards where is recommended the use of cables with higher fire response performance (at least Cca-s3,d1,a3).
Direct or indirect underground laying is permitted. Presence of water: condition AD8 (adapted to EN 50525-2-21).

PART NUMBER [n°]	FORMATION [n° x mm²]	OUTER DIAMETER[1] [mm]	WEIGHT[1] [kg/km]	MAX. ELECTRICAL RESISTANCE AT 20°C [Ohm/km]
SO40001ZNE	1 X 4.00	5.5	55	5.09
SO40001ZRO	1 X 4.00	5.5	55	5.09
SO60001ZNE	1 X 6.00	6.1	76	3.39
SO60001ZRO	1 X 6.00	6.1	76	3.39
SO100001ZNE	1 X 10.00	7.1	121	1.95
SO100001ZRO	1 X 10.00	7.1	121	1.95
SO160001ZNE	1 X 16.00	8.3	177	1.24
*SO160001ZRO	1 X 16.00	8.3	177	1.24
*SO250001ZNE	1 X 25.00	10.2	271	0.795
*SO250001ZRO	1 X 25.00	10.2	271	0.795
*SO350001ZNE	1 X 35.00	11.4	360	0.565
*SO350001ZRO	1 X 35.00	11.4	360	0.565
*SO500001ZNE	1 X 50.00	13.6	500	0.393
*SO500001ZRO	1 X 50.00	13.6	500	0.393
*SO700001ZNE	1 X 70.00	15.2	690	0.277
*SO700001ZRO	1 X 70.00	15.2	690	0.277
*SO950001ZNE	1 X 95.00	17.1	905	0.210
*SO950001ZRO	1 X 95.00	17.1	905	0.210
*SO1200001ZNE	1 X 120.00	18.8	1135	0.164
*SO1200001ZRO	1 X 120.00	18.8	1135	0.164

* According to in-stock availability, cable which must be produced on request and minimum quantity
[1] Unless otherwise specified, the values for weight and diameter are indicative.
Note: other values, if available and released for publication, are available on request.

ON REQUEST

- Galvanized steel braid armour; reaction to fire class Eca
- Aluminium conductor; reaction to fire class Eca