SPECIALCAVI **BALDASSARI**

**SOLAR ENERGY**

# H1Z2Z2-K Max 1.2kV A.C. - 1.8kV D.C.

Marking: <meters> <HAR> IEMMEQU H1Z2Z2-K <formation> SPECIALCAVI BALDASSARI <year> <lot>

## MANUFACTURING CHARACTERISTICS

**Cores:**
Stranded flexible tinned copper conductor, class 5
**Insulation:**
LSZH cross-linked rubber compound
**Outer sheath:**
Special LSZH cross-linked rubber compound, UV resistant
**Colours:**
*Core identification:*
White
*Outer sheath colour:*
Black *or* Red

## ELECTRICAL CHARACTERISTICS

**Cores operating voltage**:
*Nominal operating voltage:*
1.0kV A.C - 1.5kV D.C. (also to earth)
*Max operating voltage:*
1.2kV A.C - 1.8kV D.C. (also to earth)
**Outer sheath operating voltage:**
*Nominal operating voltage:*
1.0kV A.C - 1.5kV D.C. (also to earth)
*Max operating voltage:*
1.2kV A.C - 1.8kV D.C. (also to earth)
**Testing voltage:** 15 kV D.C.

## STANDARD

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 metodo 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

## TEMPERATURE

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

## ON REQUEST

- Galvanized steel braid armour
- Galvanized steel wires armour
- Steel tape armour

## LAYING CONDITIONS


Minimum installation temperature -25°C

Laying operation bending radius d4


Max tensile stress: 15N/mm² of the copper cross-section(fixed laying); 50N/mm² (installation)


Fixed laying


In open air


In duct or cable tray


In buried trough


Buried with protection


In buried duct


Directly buried

## APPLICATIONS

Halogen free single core cable suitable for connection of the various elements of the photovoltaic and solar systems.
The H1Z2Z2-K cable has an excellent resistance to UV rays and atmospheric conditions.
The operation of the cable is estimated at about 25 years (EN 50618) and the period for its use at a maximum conductor temperature of 120°C and a maximum ambient temperature of 90°C is limited to 20000 hours.
For fixed installation both indoor and outdoor, without protection, it can also be installed in raceways and conduits either visible or covered. **Suitable for installation directly underground or buried in tubes underground.**

◁HAR▷

Max 1.2kV A.C. - 1.8kV D.C.

# H1Z2Z2-K

| PART NUMBER [n°] | FORMATION [n° x mm²] | OUTER Ø[1] [mm] | WEIGHT[1] [kg/km] | MAX ELECTRICAL RESISTANCE AT 20°C [Ohm/km] |
|---|---|---|---|---|
| SO15001 | 1 X 1.50 | 4.4 | 31 | 13.7 |
| SO25001 | 1 X 2.50 | 4.8 | 42 | 8.21 |
| SO40001 | 1 X 4.00 | 5.3 | 55 | 5.09 |
| SO60001 | 1 X 6.00 | 6.0 | 76 | 3.39 |
| SO100001 | 1 X 10.00 | 7.3 | 121 | 1.95 |
| SO160001 | 1 X 16.00 | 8.3 | 177 | 1.24 |
| SO250001 | 1 X 25.00 | 10.2 | 271 | 0.795 |
| SO350001 | 1 X 35.00 | 11.2 | 360 | 0.565 |
| SO500001 | 1 X 50.00 | 13.0 | 500 | 0.393 |
| SO700001 | 1 X 70.00 | 14.9 | 690 | 0.277 |
| SO950001 | 1 X 95.00 | 16.7 | 905 | 0.210 |
| SO1200001 | 1 X 120.00 | 18.4 | 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.