



## H1Z2Z2-K



Marking: CE 2479 SPECIALCAVI BALDASSARI H1Z2Z2-K &lt;formation&gt; IEMMEQU HAR &lt;lot&gt; &lt;year&gt; DCA-S2,D2,A1



## MANUFACTURING CHARACTERISTICS

**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

## ON REQUEST

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

## 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.\*\*

## 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

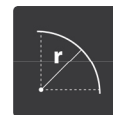
## TEMPERATURES

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

## LAYING CONDITIONS



Minimum installation temperature -25°C



Min. bending radius d4

Max tensile stress: 15 N/mm<sup>2</sup> of the copper cross-section fixed laying; installation 50N/mm<sup>2</sup>

Fixed laying



In open air



In duct or cable tray



In buried trough



Buried with protection



In buried duct



Directly buried



Outside



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 and outside laying is permitted. Presence of water: condition AD8 (adapted to EN 50525-2-21).

PART NUMBER [n°]	FORMATION [n° x mm <sup>2</sup> ]	OUTER DIAMETER <sup>1</sup> [mm]	WEIGHT <sup>1</sup> [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

<sup>1</sup> According to in-stock availability, cable which must be produced on request and minimum quantity  
<sup>2</sup> Unless otherwise specified, the values for weight and diameter are indicative.  
 Note: other values, if available and released for publication, are available on request.