

H1Z2Z2-K

SOLAR ENERGY CPR Eca

Model Product: 395 - 20240307

general
CAVI s.p.a.



**UK
CA**

LSOH special compound isolation reticulated
Halogen Free Sheath cross-linked special compound
Flexible conductor TINNED copper, class 5.

STANDARDS

CEI EN 50618
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

SINGLE CORE FLEXIBLE CABLES, SUITED FOR PHOTOVOLTAIC AND SOLAR SYSTEM WITH CROSSLINKED POLYMER LSOH INSULATION AND HALOGEN FREE SHEATH. TESTED FOR MORE 25 YEARS LONG LIFE. THESE CABLES CAN BE USED UP TO 1800 Vcc TO THE GROUND CONTACT

Nominal voltage U0: 1000V(AC) 1500V(DC)

Nominal voltage U: 1000V(AC) 1500V(DC)

Test voltage: 6500 V AC

Maximun voltage Um: 1200V(AC) 1800V(DC Anche verso Terra)

Maximun operating temperature: +90°C +120°C sul conduttore

Maximun short circuit temperature: +250°C/5s

Minimum installation and laying temperature: -40°C to +90°C

Min. operating temperature (without mechanical shocks): -40°C

COMMON FEATURES

For the interconnection of the various elements of photovoltaic systems , suitable for fixed installations outside and inside, unprotected pipes within sight or cased out, or similar closed system CPR approved. Ozone-resistant according to EN50396. UV-resistance according to HD605/A1. The cable is tested for durability according to EN 60216 (indicated also in 2P fg 169/08.2007) Standard interpretation under continuous use temperature 120°C for 20000h (= 2.3, years) continuous use temperature 90°C (= 30 years For direct or indirect underground wiring. Power and control use outdoor applications.

SPECIAL FEATURES:

Water resistant AD8 as per CEI EN 50525-2-21

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):

Diameter	8	12	20	> 20
Terminal	2D	3D	4D	4D
Fixed	3D	3D	4D	4D

Maximum pulling stress: Maximum tensile load: 15N/mm²;

PACKING

100mt. rings in thermo foil or drums with quality to agree.

CORE COLOURS

Single core: Light-Grey

SHEATH COLOUR

Black, Red, Blue

INK MARKING

GENERAL CAVI- Eca - IEMMEQU - <HAR> H1Z2Z2-K YEAR progressive length.

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Cores number	Nominal Section	Approx conductor diameter	Insulation medium thickness	Maximum external diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities 60°C	Current carrying burried 20°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	2.5	2.0	0.7	5.4	42.5	8.21	41	32
1x	4 #	2.5	0.7	6.6	58.2	5.09	55	41
1x	6 #	3.0	0.7	7.4	79.4	3.39	70	52
1x	10 #	3.9	0.7	8.8	128.4	1.95	98	70
1x	16 #	5.0	0.7	10.1	184.5	1.24	132	91
1x	25	6.4	0.9	12.5	276.8	0.795	176	118
1x	35	7.7	0.9	14.0	368.8	0.565	218	144
1x	50	9.2	1.0	16.3	557	0.393	276	178
1x	70	11.0	1.1	18.7	767	0.277	347	218
1x	95	12.5	1.1	20.8	989.6	0.210	416	258
1x	120	14.2	1.2	22.8	1232.8	0.164	488	298
1x	150	15.8	1.4	25.5	1540	0.132	566	386
1x	185	17.5	1.6	28.5	1833	0.108	644	515
1x	240	20.1	1.7	32.1	2450	0.0817	775	620
1x	300*	23.9	1.8	35.0	2950	0.0641	855	709

#TUV

*NO IMQ