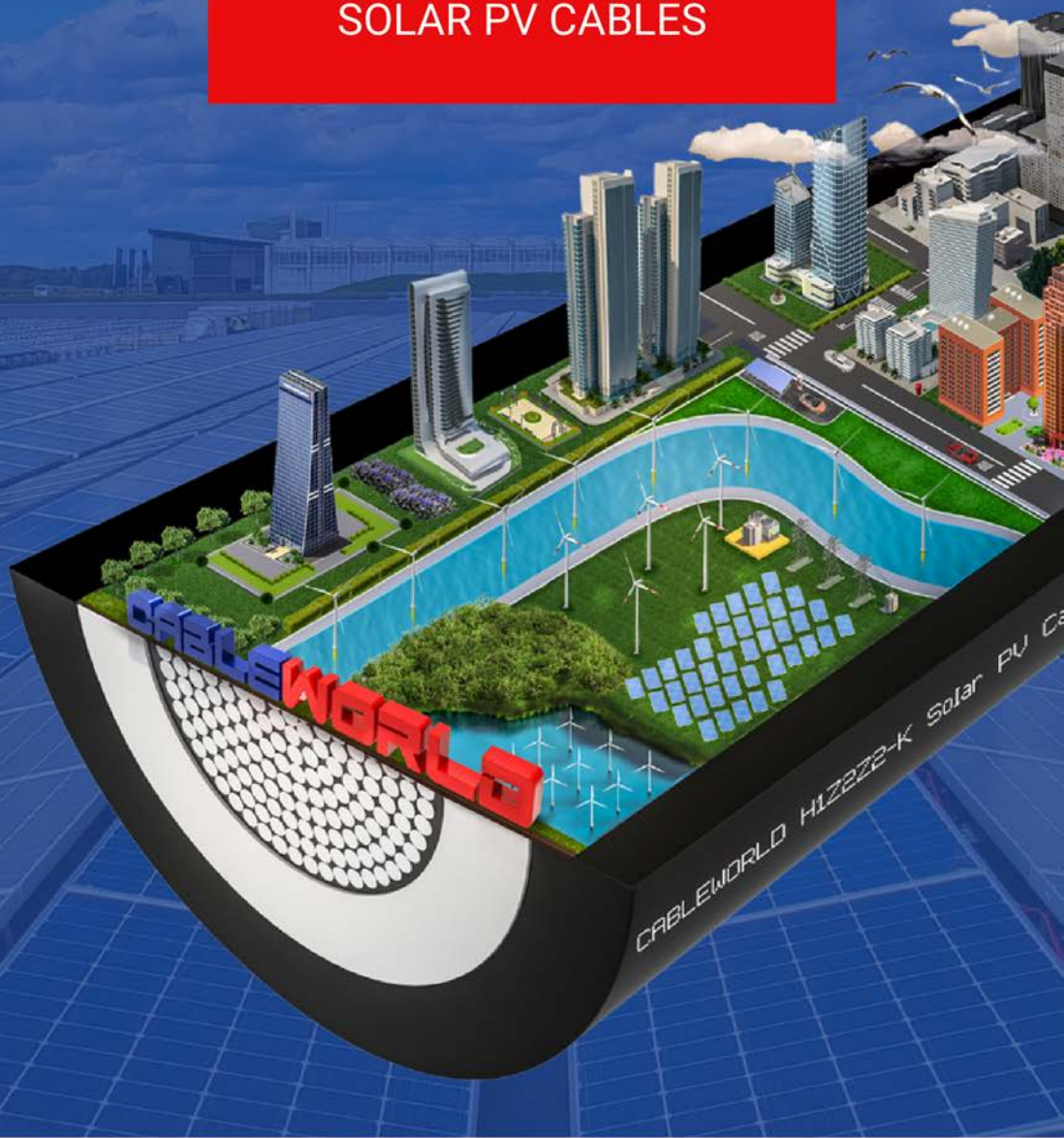


# H1Z2Z2-K

## SOLAR PV CABLES



**CABLEWORLD**  
SUPPLIERS OF ELECTRICAL CABLES & ACCESSORIES





# CABLEWORLD

SUPPLIERS OF ELECTRICAL CABLES & ACCESSORIES

Cableworld Ltd are independent stockists and distributors of a wide range of electrical cables and accessories to relevant international standards.

Established for over 25 years, we are experienced in servicing a diverse range of customers from electrical wholesalers, distributors, end users and installers.

With over 100 years of in house experience in project management and customer service combined with our strategic supplier relationships, our customers are assured of the right products on time at the right price.



Cert. No: 1696  
ISO9001: 2015



**30 YEAR  
WARRANTY**

**EXP.  
LIFESPAN  
30 YEARS**

**CABLEWORLD**

**CABLEWORLD**

**CABLEWORLD**

**CABLEWORLD**

# H1Z2Z2-K

## SOLAR CABLE

**LENGTHS:** 25m, 50m, 100m, 250m, 500m, 1000m

**SIZES:** 4.0mm, 6.0mm, 10.0mm

**COLOURS:** Black, Red, Brown and Grey

**MC4 Equivalent Male & Female Connectors Also Available**

**ALL AVAILABLE FROM STOCK FOR NEXT DAY DELIVERY**

H1Z2Z2-K Solar Cable is TUV and EN certified and designed for the connection of photovoltaic panels. This extremely versatile single conductor cable is designed to meet the varying needs of the solar industry. Highly flexible, compatible with all brands of connectors and suitable for wet, damp and humid applications.

**CABLEWORLD**  
SUPPLIERS OF ELECTRICAL CABLES & ACCESSORIES



**Electron Beam  
Cross Linked**



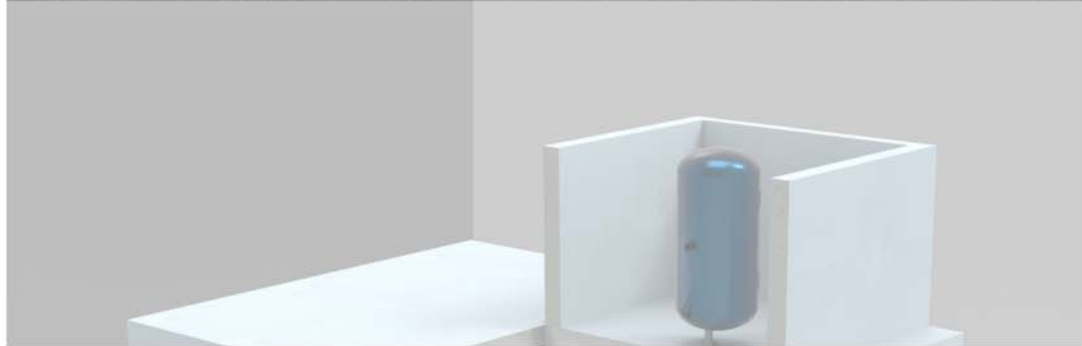
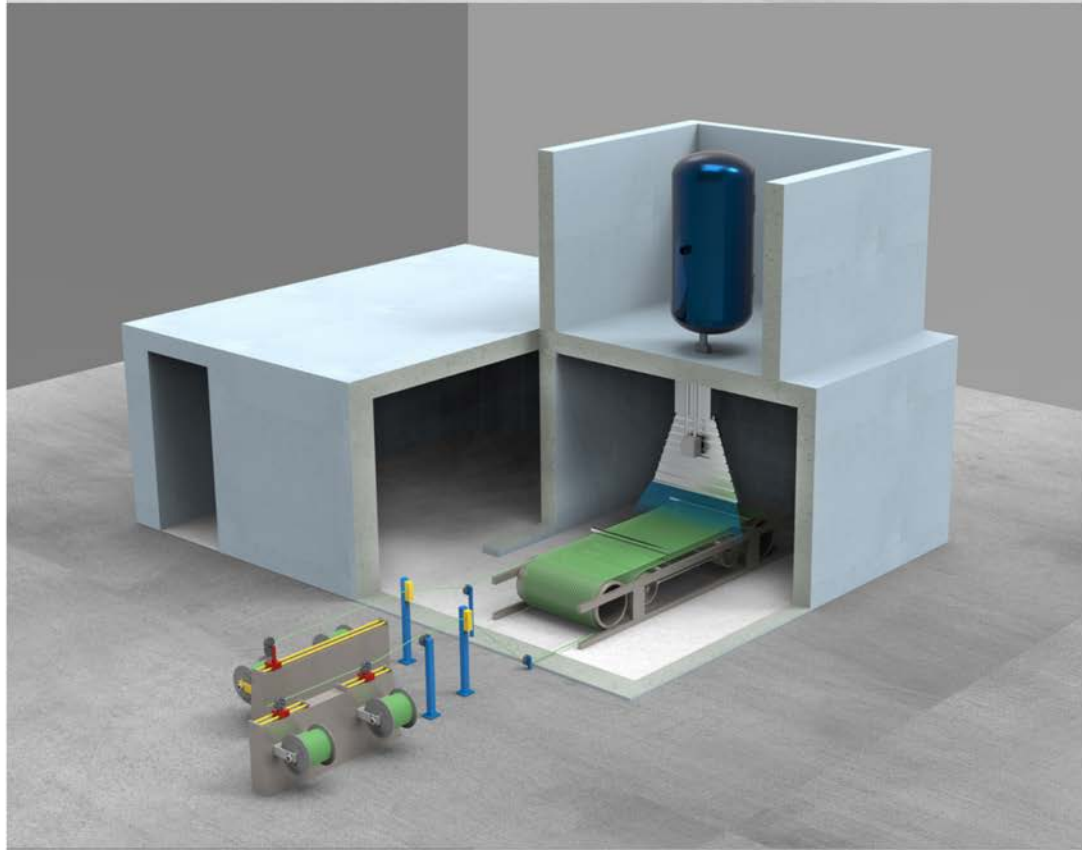
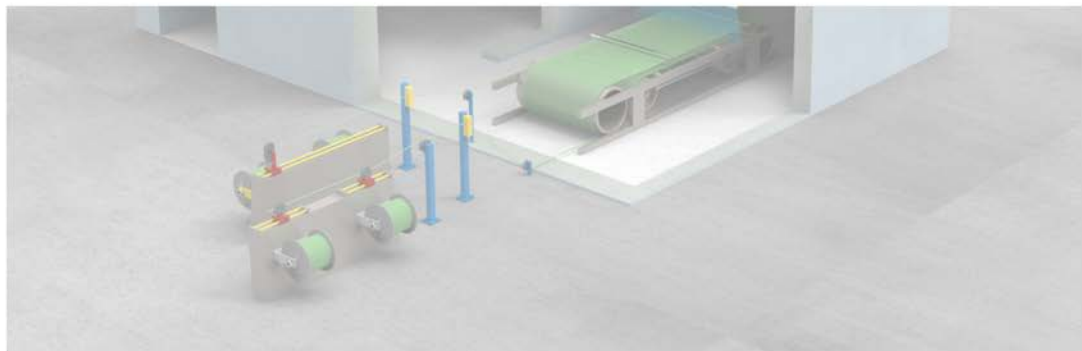
**TUV Certified**



**Water Resistant  
AD8 Submersion**

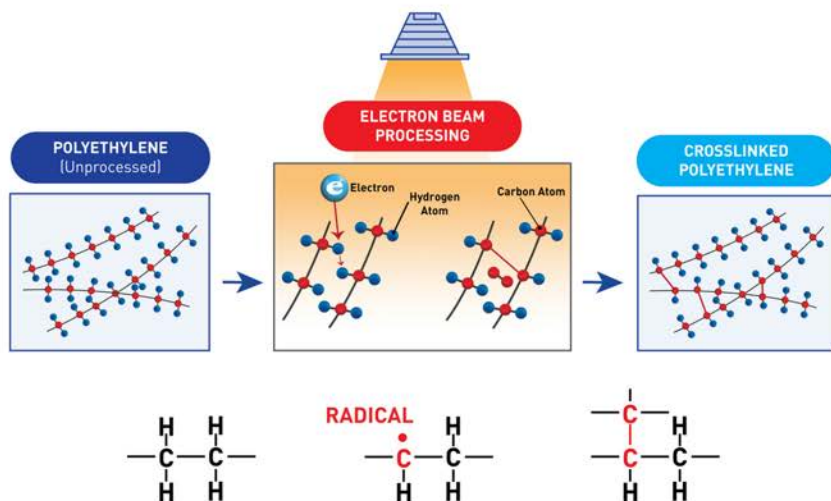


**CPR Compliant**





# ELECTRON BEAM CROSS LINKING



Electron beam cross-linking is a process that enhances cable properties by exposing them to high-energy electron beams. It induces cross-linking of polymer molecules, improving insulation and mechanical strength. Benefits include increased thermal stability, allowing cables to withstand higher temperatures, and enhanced resistance to chemicals and aging. The process also improves tensile strength, abrasion resistance, and flexibility, making the cables more durable. Electron beam cross-linking extends cable lifespan, enhances reliability, and makes them suitable for demanding applications.



# H1Z2Z2-K

SOLAR CABLE



## DESCRIPTION

**Conductor:** Annealed Tinned Copper (APC Optional) according to IEC 60228, Class 5 or as per customer order

**Insulation:** EBXL - XLPO 120°C (Colour White, Red & Black) Other colours as per customer order

**Jacket:** Low smoke zero halogen (LSOH)

## APPLICATION

H1Z2Z2-K Solar Cable is **TUV and EN certified** and designed for the connection of photovoltaic panels. This extremely versatile single conductor cable is designed to meet the varying needs of the solar industry. Highly flexible, compatible with all brands of connectors and suitable for wet, damp and humid applications.

## FEATURES

- High volume resistance even after long term period in water.
- Resistance against UV, Water, Ozone, Fluids, Oil, Salt & General Weathering.
  - Electron Beam Cross Linked
- Halogen Free, Flame Retardant, Low Smoke Emission
- Permanent water contact AD8 acc. IEC 60364-5-51, 1 mtr. in max. submersion depth at temperature of widely unmoved water between 5°C and 40°C
  - Expected cable life 30 years.
- Water Resistant AD 8 to meet as per IEC 60364-5-51 & IEC 60529
  - RoHS compliant as per EU norms

## TECHNICAL DATA

<b>Temperature Range:</b>	-40°C to +120°C
<b>Max. Temp. at Conductor:</b>	120°C (20,000h)
<b>Test Voltage:</b>	6500V AC for 5 minutes
<b>Insulation Resistance:</b>	EN 50395
<b>Test &amp; Voltage Test:</b>	1.0/1.0kV AC, 1.5/1.5 kV DC
<b>Rated Voltage</b>	
<b>Max. Voltage:</b>	1.8 kV DC
<b>Short Circuit Temp:</b>	+280°C
<b>Halogen Free:</b>	EN50525-1
<b>Water Resistance:</b>	<b>AD8 Submersion</b>
<b>Flame Retardant:</b>	EN 60332-1-2
<b>Low Smoke Emission:</b>	EN 61034-2
<b>UV and Weathering Resistance:</b>	EN 50618, EN 50289-4-17
<b>Flame Retardant:</b>	EN60332-1-2
<b>Resistance against Acid and Alkaline:</b>	EN 60811-404
<b>Resistance to Fire:</b>	<b>Eca approval (from BASEC &amp; TUV)</b>
<b>Shrinkage Test on Sheath:</b>	EN 60811-503
<b>Dynamic Penetration Test:</b>	EN 50618
<b>Expected Life Period:</b>	30 years (according EN 60216)
<b>Product Warranty:</b>	30 years
<b>Cold Resistance:</b>	EN 50618, EN 60811-504, EN 60811-505
<b>Min Bending Radius:</b>	(i) Cable OD x 4 for OD ≤ 8.0 mm (ii) Cable OD x 5 for 8.0 ≤ OD ≤ 12.0 mm (iii) Cable OD x 6 for OD >12.0 mm



# H1Z2Z2-K

## SOLAR CABLE



CROSS SECTION AREA	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH	CABLE DIAMETER (MAX.)	MAX. DC CONDUCTOR RESISTANCE AT 20°C	CABLE WEIGHT (NOM.)	CURRENT RATING (A)		
						AT 60°C IN AIR	SINGLE CABLE ON SURFACE	2 CABLES ADJACENT ON SURFACE
mm <sup>2</sup>	mm	mm	mm	Ω/Km	Kg/Km			
1.5	0.7	0.8	5.4	13.7	37	35	32	24
2.5	0.7	0.8	5.9	8.21	45	41	39	33
4	0.7	0.8	6.6	5.09	58	55	52	44
6	0.7	0.8	7.4	3.39	78	70	67	57
10	0.7	0.8	8.8	1.95	125	98	93	79
16	0.7	0.9	10.1	1.24	175	132	125	107
25	0.9	1.0	12.5	0.795	274	176	167	142
35	0.9	1.1	14.0	0.565	368	218	207	176
50	1.0	1.2	16.3	0.393	511	276	262	221
70	1.1	1.2	18.7	0.277	690	347	330	278
95	1.1	1.3	20.8	0.210	908	-	-	333
120	1.2	1.3	22.8	0.164	1127	-	-	390
150	1.4	1.4	25.5	0.132	1406	-	-	453
185	1.6	1.6	28.5	0.108	1741	-	-	515
240	1.7	1.7	32.1	0.0817	2227	-	-	620
300	2.4	2.4	32.6	0.0654	2925	-	-	714
400	2.6	2.6	36.8	0.0495	3800	-	-	795

ALL FIGURES QUOTED ARE APPROXIMATE

E&OE. Manufacturers reserve the right to amend the specification without prior notice.

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Cert. No. 1636  
ISSUED: 2015





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