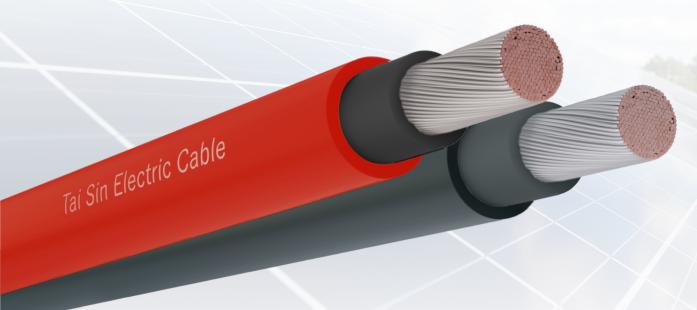
TAI SIN SOLAR PHOTOVOLTAIC (PV) CABLE



*Actual colour of cable may appear differently on different screens and on print.

WHY USE SOLAR CABLES?

Electricity from renewable energy is the future and solar is one of the purest form. Solar Energy is not only sustainable, it leaves no carbon foot print compared to fossil fuels causing pollution and negative environmental impact.

As long as the Sun continues to rise and set everyday, its energy can be harnessed.

APPLICATION

Tai Sin Solar PV cable (also known as H1Z2Z2-K) is certified according to IEC 62930 and EN 50618.

It is suitable for use in both indoor and outdoor photovoltaic power supply system such as but not limited to solar farms, roof-top solar and floating platform.

It is flexible making installation easy and is compatible with most major connectors for solar panels.

Copper Wire Braided Screened is optional protection against rodent or mechanical impact.

To have this solar cable with fire resistant properties is also available upon request.

BENEFITS OF TAI SIN SOLAR PV CABLES

- Low smoke zero halogen giving no toxic combustible gases in the event of fire
- Reduce flame propagation
- Electron beam cross-linked compounds
- UV resistant, ozone and hydrolysis resistant
- Flexible installation
- Long service life of more than 25 years at 90°C.
- Compatible with most connectors for solar panels

TAI SIN ELECTRIC CABLES (VN) CO LTD

No 20, VSIP II Street 2, Vietnam-Singapore Industrial Park 2 Hoa Phu Ward, Thu Dau Mot City, Binh Duong Province, Vietnam



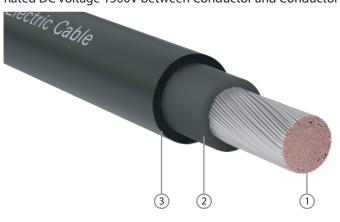
WE'RE MORE THAN CABLES

- **(**84) 274 3635 088 (84) 274 3635 077 🕀 www.taisin.com.vn
- 🔀 sales@taisin.com.vn

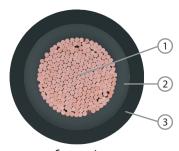
FRT-HH-PV (H1Z2Z2-K)

TCU / HFFR / HFFR (SINGLE CORE)

HFFR Insulated, HFFR Sheathed Photovoltaic Cable, Rated DC voltage 1500V between Conductor and Conductor & Earth







Component 1. Tinned Annealed Copper Wire (Class 5) 2. Cross-linked Polyolefin (HFFR) 3. Cross-linked Polyolefin (HFFR) sheath

CONSTRUCTION Conductor:	Tinned Annealed Flexible Copper Wire, Class 5	REFERENCE STANDARDS Design Specification:	BS EN50618, IEC62930		
la sulation		Conductor:	IEC60228, BS EN60228		
Insulation:	Cross-linked Polyolefin (HFFR)	Flame Retardancy:	IEC60332-3-24, BS EN60332-3-24		
Insulation Colour:	Black / Natural	Low Smoke Zero Halogen:	IEC61034-2, BS EN61034-2		
Outer Sheath:	Cross-linked Polyolefin (HFFR) with Anti-Termite Characteristic and UV Resistant		IEC60754-1, IEC60754-2 BS EN60754-1, BS EN60754-2		
Outer Sheath Colour:	Black or Red / Other colour upon request	INSTALLATION REFERENCE Min. Bending Radius (mm):	6 x cable overall diameter		
Optional:	Copper Wire Braided Screen;	3			
	Fire Resistant option upon request	Max. Pulling Tension (N/mm ²):	15		
ELECTRICAL CHARACTERISTICS	·				
Operating Voltage:	1500Vdc Conductor / Conductor & Earth				

Operating Voltage:	1500Vdc Conductor / Conductor & Eart
Operating Temperature:	-15°C to 90°C Max. temp. at conductor +120°C
Final Short Circuit Temperature:	250°C
Test Voltage:	6.5kV for 5 minutes

							Current Carrrying Capacity				
	onductor Con Area Dia	Approx Conductor Diameter (mm)	Insulation Thickness	Overall Sheath Thickness	Approx Cable Overall Diameter	Approx Cable Weight	Single Cable free in air (A)	Single Cable on a surface (A)	Two Loaded Cables Touching on a surface (A)	Minimum Insulation Resistance at Ambient (MΩ.km)	Maximum Conductor Resistance at 20°C (Ω/km)
	(mm²)		(mm)	(mm)	(mm)	(kg/km)				(10122-1411)	
SINGLE CORE	1 x 1.5	1.5	0.7	0.8	4.7	33	30	29	24	860	13.7
	1 x 2.5	1.9	0.7	0.8	5.1	44	41	39	33	690	8.21
	1 x 4	2.5	0.7	0.8	5.7	60	55	52	44	580	5.09
	1 x 6	3.0	0.7	0.8	6.2	79	70	67	57	500	3.39
	1 x 10	3.9	0.7	0.8	7.1	118	98	93	79	420	1.95
	1 x 16	5.6	0.7	0.9	9.0	187	132	125	107	340	1.24
	1 x 25	7.2	0.9	1.0	11.9	306	176	167	142	340	0.795
	1 x 35	9.0	0.9	1.1	13.3	409	218	207	176	290	0.565
	1 x 50	10.1	1.0	1.2	14.9	546	276	262	221	270	0.393
	1 x 70	11.9	1.1	1.2	16.9	738	347	330	278	250	0.277
	1 x 95	13.9	1.1	1.3	19.1	974	416	395	333	220	0.210
	1 x 120	15.6	1.2	1.3	21.0	1209	488	464	390	210	0.164
	1 x 150	17.6	1.4	1.4	23.6	1508	566	538	453	210	0.132
	1 x 185	19.4	1.6	1.6	26.2	1858	644	612	515	200	0.108
	1 x 240	22.1	1.7	1.7	29.3	2361	775	736	620	200	0.0817