

SUNKEAN

Project LIST

SUNKEAN CABLE CO., LTD.
WUXI SUN KING ENERGY TECHNOLOGY CO., LTD.

SUNKEAN.com

PHOTOVOLTAIC

SCENE: COMMERCIAL & INDUSTRIAL
LOCATION: MALAYSIA



TIGER

■ Solar Cable ■ 30km



Federal Oats Mills

■ Solar Cable ■ 30km



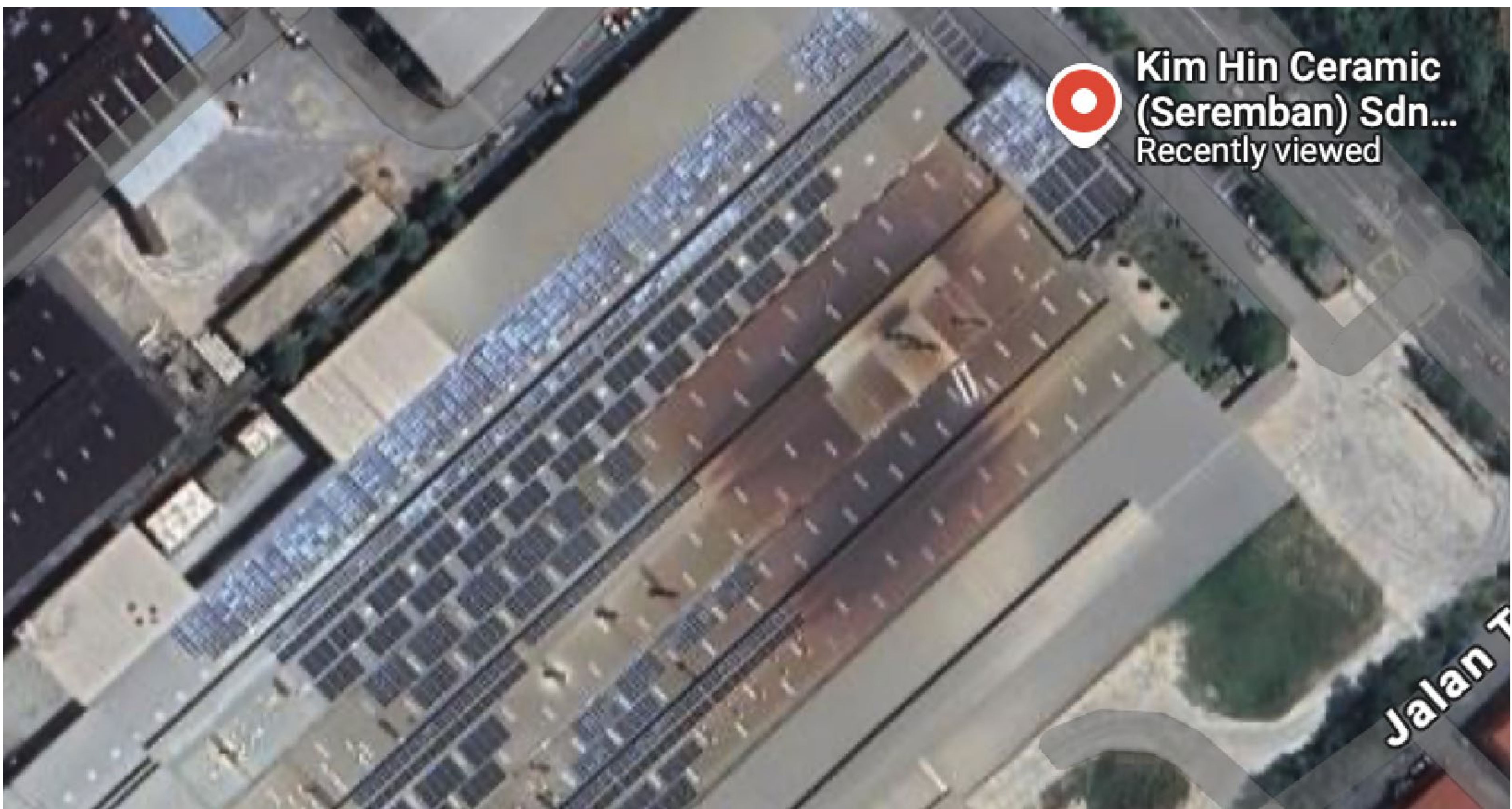
CE Technology

■ Solar Cable ■ 40km



Columbia Asia Hospital

■ Solar Cable ■ 18km



Kim Hin Seremban

■ Solar Cable ■ 47km

PHOTOVOLTAIC

SCENE: COMMERCIAL & INDUSTRIAL
LOCATION: MALAYSIA



KJM Aluminium

■ Solar Cable ■ 63km



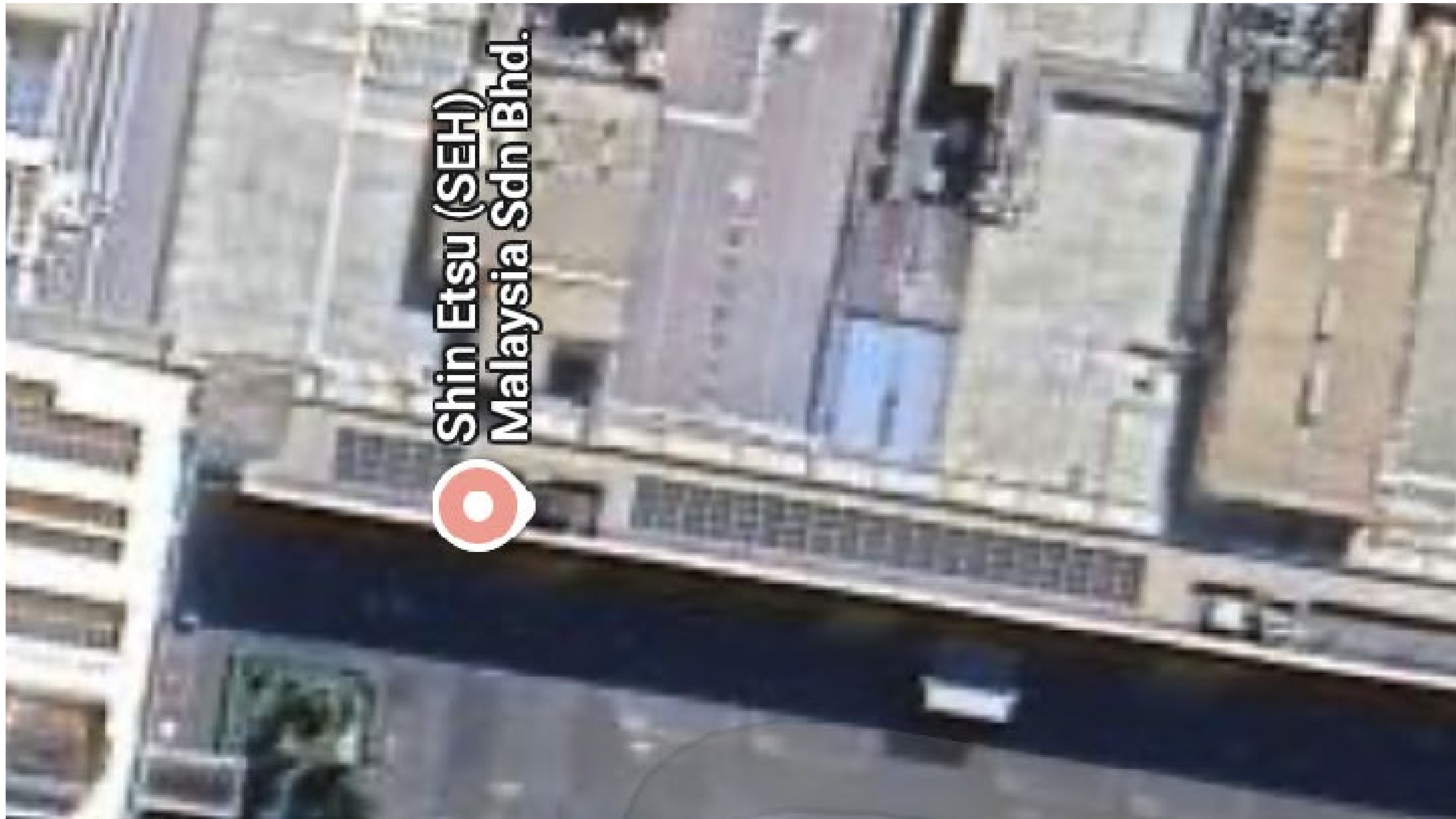
Mydin Seremban

■ Solar Cable ■ 9km



SAM Penang

■ Solar Cable ■ 27km



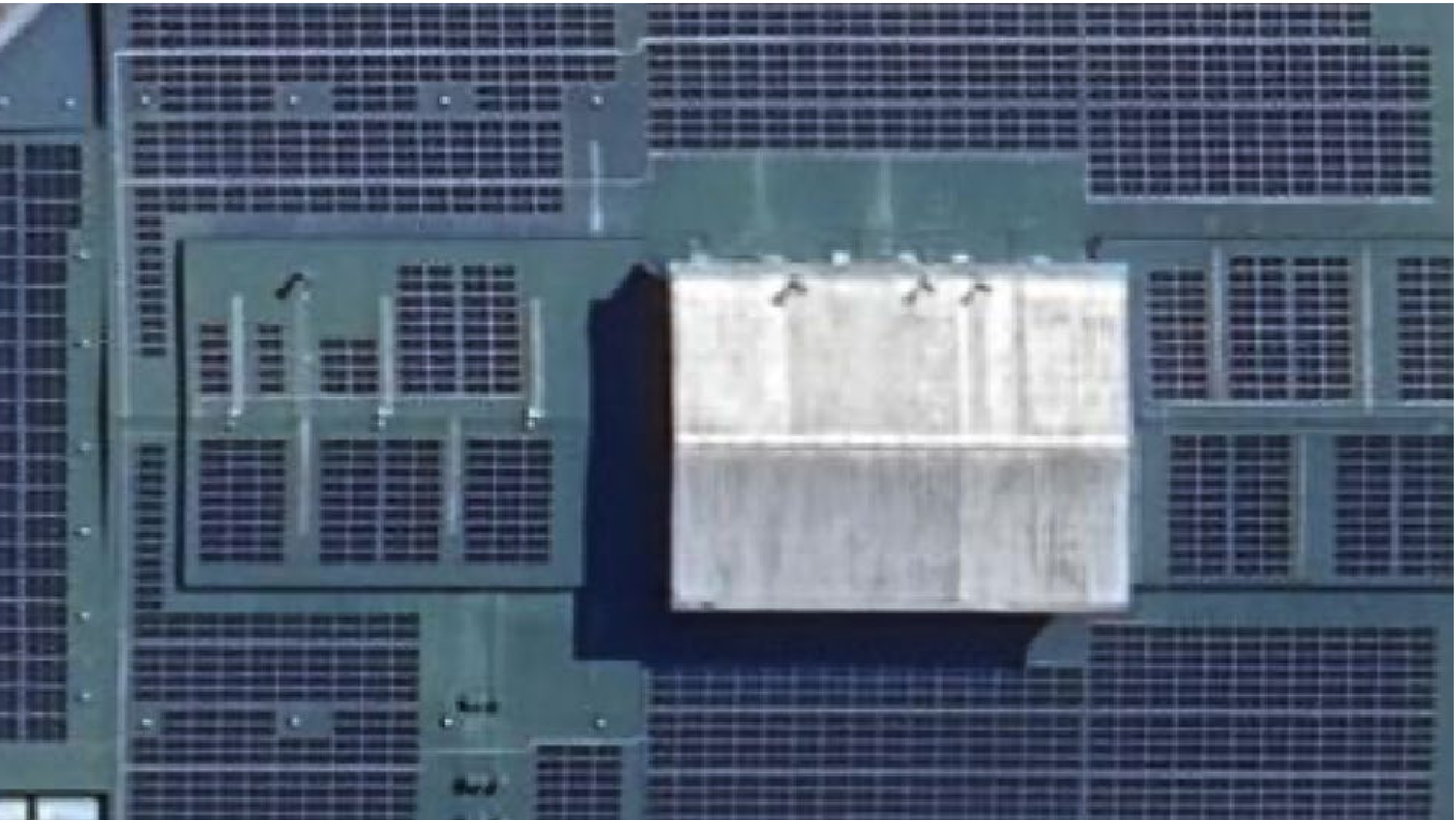
Shin Etsu

■ Solar Cable ■ 14km



Sunshine Bread

■ Solar Cable ■ 34km



Huan Hsin

■ Solar Cable ■ 70km

PHOTOVOLTAIC

SCENE: COMMERCIAL & INDUSTRIAL
LOCATION: MALAYSIA



Scientex Great Wall Ipoh

■ Solar Cable ■ 347km

Samtec Asia Pacific Penang,
Samtec Plating Johor

■ Solar Cable ■ 40km



PHOTOVOLTAIC

SCENE: CARPORT
LOCATION: MALAYSIA

SUNKEAN



AEON carport 3MW

■ Solar Cable ■ 50km

AEON carport 500kW

■ Solar Cable ■ 10km



PHOTOVOLTAIC

SCENE: COMMERCIAL & INDUSTRIAL
LOCATION: JAPAN



GLP Sagamihara I 2.7MW

■ Solar Extension Cable ■ 44.94km



GLP Nagareyama D 2.8MW

■ Solar ExtensionCable ■ 133.315km

PHOTOVOLTAIC

SCENE: GROUND
LOCATION: MALAYSIA



Solar Citra 10.95MW

■ Solar Cable ■ 190km



Beaufort, Sabah 7MW

■ Solar Cable ■ 77km

PHOTOVOLTAIC

SCENE: GROUND
LOCATION: JAPAN



Pacifico Energy Iwaki Mega 42.3MW

■ Solar Cable ■ 1404.325km



Matsushima Donguri 50MW

■ Solar Cable ■ 271.92km



Tochigi Power Station 13MW

■ Solar Cable ■ 102.4km



CS Ibaraki Kasama Oigo 2.2MW

■ Solar Cable ■ 80km



Onikobari 147MW

■ Solar Cable ■ 1120km



FSJ Hita 21MW

■ String Harness ■ 262.802km

PHOTOVOLTAIC

SCENE: GROUND
LOCATION: JAPAN

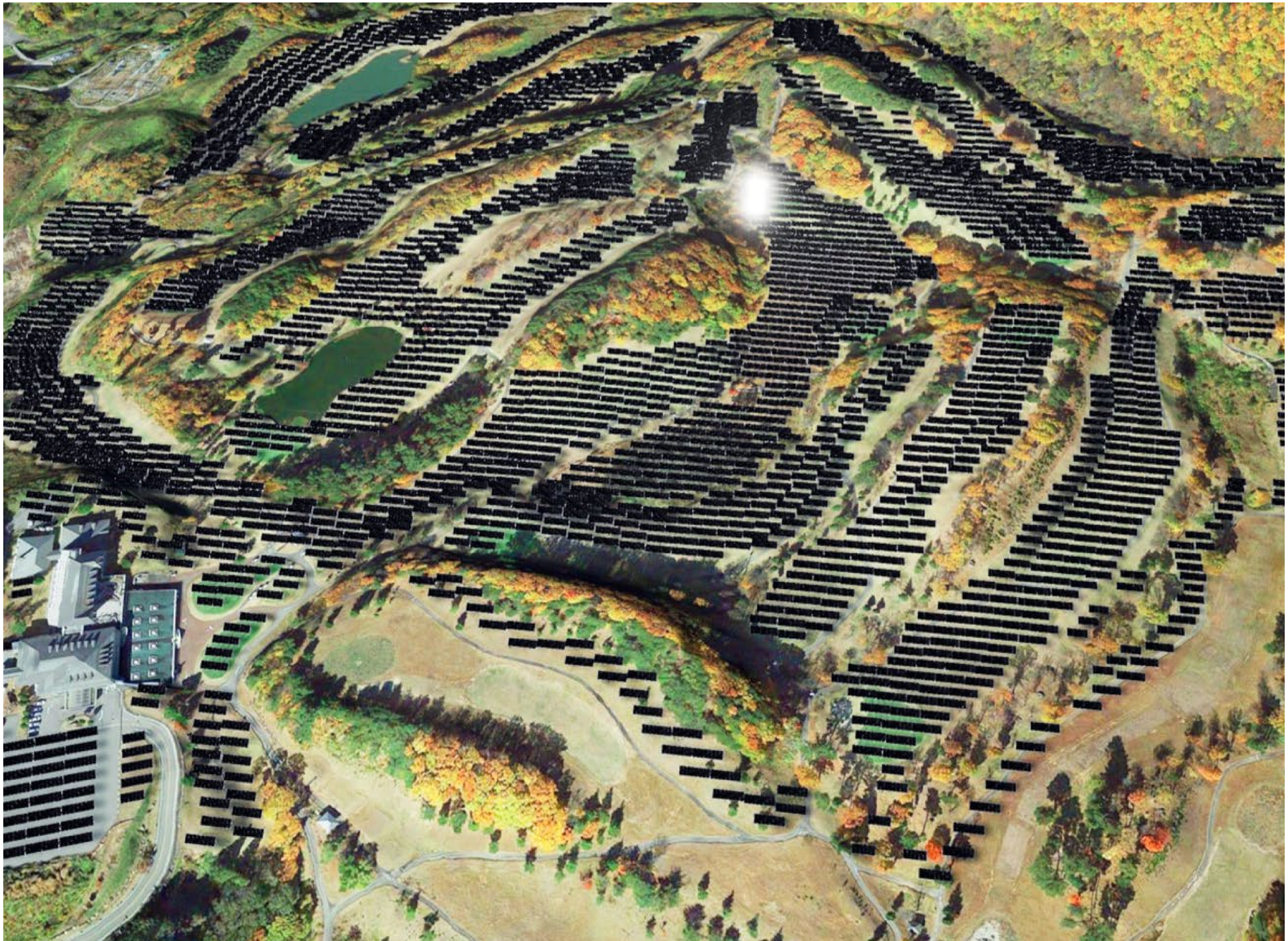


Power Plant Tsunamase 50MW

■ Solar Cable ■ 130km

Bandai Solar Power Plant 25.2MW

■ Solar Cable ■ 213.156km



PHOTOVOLTAIC

SCENE: GROUND
LOCATION: JAPAN

SUNKEAN



Shiraishi Solar Farm 162MW

■ String Harness ■ 2545set



Yonehara Solar Power Plant 31.65MW

■ String Harness ■ 1122set



Suimei Solar Park 52MW

■ Solar Cable ■ 150km

PHOTOVOLTAIC

SCENE: GROUND
LOCATION: CHILE

SUNKEAN



Valparaíso Region Solar Farm 95.2MW

■ Solar Cable ■ 2100km

ENERGY STORAGE



Papago, USA 1200MW

■ Energy Storage Harness ■ 25360set



Crimson, USA 350MW

■ Energy Storage Harness ■ 8115set



Borden county, USA 250MW

■ Energy Storage Harness ■ 6085set



Summerfield, Austial 480MW

■ Energy Storage Harness ■ 10160set



Tongli, China 200MW

■ Energy Storage Harness ■ 5060set



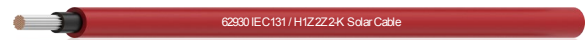
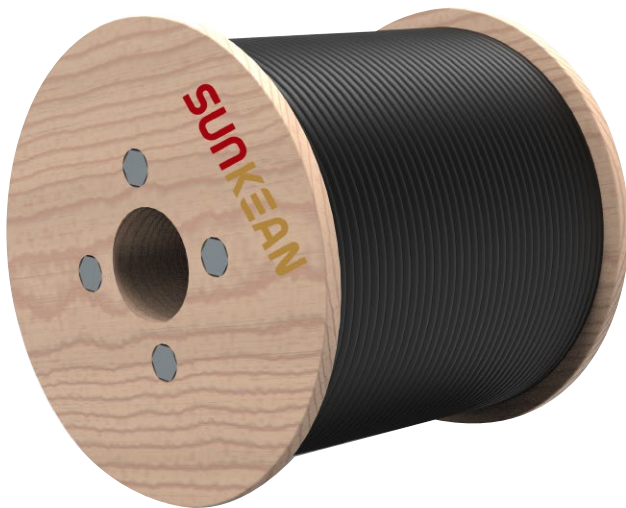
Qinghai Geermu, China 400MW

■ Energy Storage Harness ■ 13160set

62930 IEC131 H1Z2Z2-K Solar Cable

AD8 Water Resistance

CPR Dca



Single core solar cable



Twin core solar cable

SUNKEAN provides a number of additional advantages in comparison to conventional solar cables:



TÜV certification acc. to EN 50618 (H1Z2Z2-K)
TÜV certification acc. to EN 50575
TÜV certification acc. to IEC 62930 (62930 IEC 131)
TÜV certification acc. to 2 PfG 1169/08.07



Water resistance AD8



Voltage rating 1.500 V_{DC} (max. 1.800 V_{DC})



Flammability class Dca acc. CPR



Consecutive meter marking



Higher insulation resistance



Higher UV-stability



Higher mechanical stability

Technical Data Sheet



About Us

SUNKEAN specializes in the development and production of high-quality components for photovoltaic systems. As a connection solution provider, we supply solar cables, battery cables, wire harness, PV connectors, cabling system etc. All products are certified by TUV, CE, UL, RoHS.

Rely on years of proven experience, professional technical expertise, strict quality control and considerate service, we have established the warm business relationships with the distributors, EPCs, wholesalers and installers all over the world.

Why Choose Us

- ✓ Production visualization service (Provide production schedule, delivery and loading diagram)
- ✓ Cable pre-assembly service
- ✓ Pre-sale and after-sale service to escort the order
- ✓ Short lead time
- ✓ Worldwide deliveries at favourable terms
- ✓ High quality and long life time (25 years acc. to EN 50618)
- ✓ High flexibility and bending capability
- ✓ Compatibility to all common connectors
- ✓ Colors: Optional Color
- ✓ Packaging: 100m/roll, 500m/roll, 1000m/drum

Characteristics

Conductor	Tinned stranded copper, comply with IEC60228, EN60228, VDE0295, Class 5
Insulation Material	XLPO
Insulation Color	Optional color
Sheath Material	XLPO
Sheath Color	Optional color
Voltage Rating	DC: 1500V
Test Voltage	6500V AC
Temperature Rating	Rated: -40°C to +90°C Max.conductor temp: +120°C Short Circuit: +250°C
Minimum Bending Radius	Ø ≤ 12mm 4 x overall diameter Ø > 12mm 10 x overall diameter
Testing Standard	Smoke Density Test: transmittance≥60% EN50618 Cold Bending Test: -40°C±2°C no crack EN60811-504
Reference Standard	EN50618 & IEC62930
Protection level against water ingress	AD8

Cable Name	Cross Section (mm ²)	Construction (No./mm)	Insulation O.D. (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
62930 IEC131/ H1Z2Z2-K	2.5	49/0.25	3.50	5.20	8.21
	4.0	52/0.30	3.85	5.50	5.09
	6.0	78/0.30	4.45	6.10	3.39
	10	77/0.40	5.50	7.20	1.95
	16	126/0.40	6.90	8.80	1.24
	25	196/0.40	8.70	10.80	0.795
	35	276/0.40	10.00	12.40	0.565

Certificate

Certificate of constancy of performance		TÜVRheinland
according to Regulation (EU) No. 305/2011		
Certificate No.:	1008-CPR-MC 6926647 0001	
Report No.:	WU23ALNN 001	
Applicant:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA	
Manufacturer:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA	
Manufacturing plant:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA	
Product:	Photovoltaic cable family	
Identification:	H18222-R (62930 IEC 131) 1x2,5mm ² to 1x35mm ² Intended use: Electric Cables for general applications FFC Report No.: WU23207F 001	
System of assessment and verification:	1+	
Tested according to:	EN 50755:2014+A1:2016	
This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above. This certificate was first issued on 2023-05-10 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body.		
Certification Body Ferenc Schmidt TÜV Rheinland InterCert Kft. Product Certification Body — H-1143 Budapest, Gizella út 51-57 — www.tuv.com Product certification body accredited by NAH under No. NAH-6-0053/2018/K, Notified Body No. 1008 Validity of certificate can be checked on www.CERTIPEDIA.com		
Date of issue:	Budapest, 2023-05-10	

Zertifikat		Certificate		TÜVRheinland
Zertifikat Nr. / Certificate No.:	R 50477532	Blatt / Sheet:	0001	
Ihr Zeichen / Client Reference:	W.D.S.	Unser Zeichen / Our Reference:	01-WSN-60407191 001	Ausstellungsdatum / Date of Issue: 14.08.2020
Genehmigungsinhaber / License Holder:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China		Fertigungsstätte / Manufacturing Plant: SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China	
Prüfzeichen / Test Mark:	 Type Approved Safety Register Production Surveillance www.tuv.com ID: 111122759		Geprüft nach / Tested acc. to: EN 50618:2014	
Zertifiziertes Produkt (Geräteidentifikation) / Certified Product (Product Identification):		Lizenzentgelte - Einheit / License Fee - Unit:		
Cable (Electric Cables for Photovoltaic Systems)				
Type Designation: H18222-R 1x1,5...35mm ² SUNKEAN CABLE CO., LTD.		5		
Rated Voltage: DC 1,5kV AC 1,0/1,0kV				
Ambient Temperature: -40°C to +90°C				
Max. Temperature at Conductor: 120°C		5		
ANLAGE (Appendix): 1.0				
Das Zertifikat liegt unsere Prüf- und Zertifizierungsanordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfverfahren. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich beachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standard and testing requirements as indicated above, any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.				
TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 email: cert-safety@tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety				
Zertifizierungsstelle Kenny Shi				

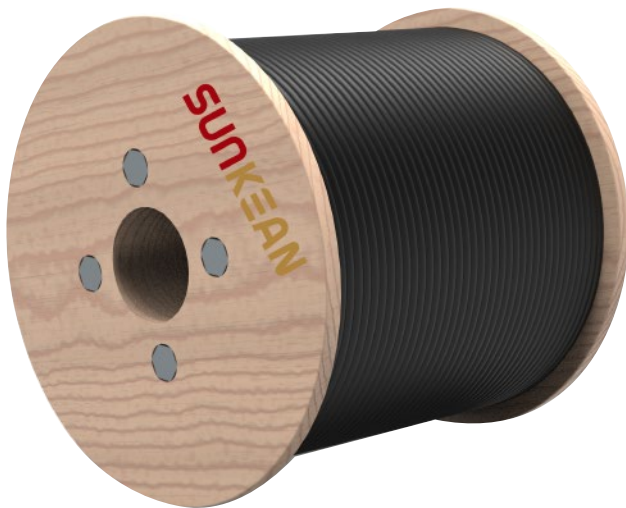
Zertifikat		Certificate		TÜVRheinland
Zertifikat Nr. / Certificate No.:	R 50477533	Blatt / Sheet:	0001	
Ihr Zeichen / Client Reference:	W.D.S.	Unser Zeichen / Our Reference:	01-WSN-60407192 001	Ausstellungsdatum / Date of Issue: 10.09.2020
Genehmigungsinhaber / License Holder:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China		Fertigungsstätte / Manufacturing Plant: SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China	
Prüfzeichen / Test Mark:	 Type Approved Safety Register Production Surveillance www.tuv.com ID: 111122759		Geprüft nach / Tested acc. to: IEC 62930:2017	
Zertifiziertes Produkt (Geräteidentifikation) / Certified Product (Product Identification):		Lizenzentgelte - Einheit / License Fee - Unit:		
Cable (Electric Cables for Photovoltaic Systems)				
Type Designation: 2043900		12		
Code Marking: 62930 IEC 131 SUNKEAN CABLE CO., LTD.				
Additional Marking: HALOGEN FREE LOW SMOKE				
Scope of Sizes: 1x1,5...35mm ²				
Rated Voltage: DC 1,5kV				
Max. Storage Temperature: +45°C				
Min. Temperature for Installation and Handling: -25°C				
Max. Temperature at Conductor: 120°C		12		
ANLAGE (Appendix): 1.0				
Das Zertifikat liegt unsere Prüf- und Zertifizierungsanordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfverfahren. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich beachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standard and testing requirements as indicated above, any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.				
TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 email: cert-safety@tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety				
Zertifizierungsstelle Hao Zhang				

Certificate		TÜVRheinland
Certificate no.:	T 50477531 01	
License Holder:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China	
Manufacturing Plant:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China	
Test report no.:	WSN 60407190 001	Client Reference: W.D.S.
Tested to:	2 PFG 1169/08.07	
Certified Product:	Cables for Photovoltaic-Systems	License Fee - Units:
Type Designation:	PV1-P 1x1,5...35mm ² PV1-F 2x1,5...35mm ²	12
Rated Voltage:	DC 1,0kV AC U ₀ /U _i 0,6/1kV	
Ambient Temperature:	-40°C to +90°C	
Max. Temperature at Conductor:	120°C	
Mark of Origin:	SUNKEAN CABLE CO., LTD.	
Remark:	This certificate is not valid for EU since 27.10.17.	
ANLAGE (Appendix):	1.0	
Licensed Test mark:	 TÜV Rheinland (China) Ltd. Signature Kenny Shi	
Date of Issue:	26/08/2020	
TÜV Rheinland (China) Ltd. No. 01028-08, Floor 7 and No. 01042-08, Floor 11, AVIC Building, No.108, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China Tel.: +86 10 6508 6660 Fax: +86 10 6505 6667 E-mail: info@tuv.china.tuv.com http://www.tuv.com		

62930 IEC131 H1Z2Z2-K Solar Cable

AD7 Water Resistance

CPR Dca



Single core solar cable



Twin core solar cable

SUNKEAN provides a number of additional advantages in comparison to conventional solar cables:



TÜV certification acc. to EN 50618 (H1Z2Z2-K)
TÜV certification acc. to EN 50575
TÜV certification acc. to IEC 62930 (62930 IEC 131)
TÜV certification acc. to 2 PfG 1169/08.07



Water resistance AD7



Voltage rating 1.500 V_{DC} (max. 1.800 V_{DC})



Flammability class Dca acc. CPR



Consecutive meter marking



Higher insulation resistance



Higher UV-stability



Higher mechanical stability

Technical Data Sheet



About Us

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Rely on years of proven experience, professional technical expertise, strict quality control and considerate service, we have established the warm business relationships with the distributors, EPCs, wholesalers and installers all over the world.

Why Choose Us

- ✓ Production visualization service (Provide production schedule, delivery and loading diagram)
- ✓ Cable pre-assembly service
- ✓ Pre-sale and after-sale service to escort the order
- ✓ Short lead time
- ✓ Worldwide deliveries at favourable terms
- ✓ High quality and long life time (25 years acc. to EN 50618)
- ✓ High flexibility and bending capability
- ✓ Compatibility to all common connectors
- ✓ Colors: Optional Color
- ✓ Packaging: 100m/roll, 500m/roll, 1000m/drum

Characteristics

Conductor	Tinned stranded copper, comply with IEC60228, EN60228, VDE0295, Class 5
Insulation Material	XLPO
Insulation Color	Optional color
Sheath Material	XLPO
Sheath Color	Optional color
Voltage Rating	DC: 1500V
Test Voltage	6500V AC
Temperature Rating	Rated: -40°C to +90°C Max.conductor temp: +120°C Short Circuit: +250°C
Minimum Bending Radius	Ø ≤ 12mm 4 x overall diameter Ø > 12mm 10 x overall diameter
Water resistant acc.to Presence of water&Voltage test on completed cable with a.c	IEC60529:1989+A1:1999 IPX7 Height of immersion 1m 23°C×30min, 6.5kVAC×5min
Reference Standard	EN50618 & IEC62930
Protection level against water ingress	AD7

Cable Name	Cross Section (mm ²)	Construction (No./mm)	Insulation O.D. (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
62930 IEC131/ H1Z2Z2-K	1.5	30/0.25	3.05	4.70	13.7
	2.5	49/0.25	3.50	5.20	8.21
	4.0	56/0.285	3.85	5.50	5.09
	6.0	84/0.285	4.45	6.10	3.39
	10	77/0.40	5.50	7.20	1.95
	16	126/0.40	6.90	8.80	1.24
	25	196/0.40	8.70	10.80	0.795
	35	276/0.40	10.00	12.40	0.565

Certificate

Zertifikat		Certificate		TÜVRheinland	
Zertifikat Nr. / Certificate No.	R 50477533	Blatt / Sheet	0001		
Das Zeichen / Client Reference	01-WSN-60407192 001	Ausstellungsdatum / Date of Issue	10.09.2020		
Genehmigungsinhaber / License Holder		Fertigungsstelle / Manufacturing Plant			
SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China		SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China			
Prüfzeichen / Test Mark	Geprüft nach / Tested acc. to				
	IEC 62930:2017				
Zertifiziertes Produkt (Certificate Identification)		Lizenzentgelt - Einheit / License Fee - Unit			
Cable (Electric Cables for Photovoltaic Systems)		12			
Type Designation	2043900				
Code Marking	62930 IEC 131				
Additional Marking	SUNKEAN FRES LOW SPOKE				
Scope of Size	1X1,5...35mm²				
Rated Voltage	DC 1,5kV				
Max. Storage Temperature	+45°C				
Min. Temperature for Installation and Handling	-25°C				
Max. Temperature at Conductor	120°C				
ANLAGE (Appendix): 1.0					
Das Zertifikat liegt unsere Prüf- und Zertifizierungsergebnisse zugrunde und es bestätigt die Konformität des Produkts mit den europäischen Standards und Prüfverfahren. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich beachtet werden. Die Einhaltung der europäischen Produkte wird durch die Zertifizierung bestätigt. Das Zertifikat ist basierend auf der Prüfung und Konformitätsprüfung und stellt die Konformität des Produkts mit den Standards und Prüfverfahren dar. Die Einhaltung der europäischen Anforderungen ist in der Anlage 1.0 festgelegt. Die Einhaltung der europäischen Anforderungen ist in der Anlage 1.0 festgelegt. TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel: +49 221 886-171 email: cert@tuev-rheinland.com Fax: +49 221 886-3033 http://www.tuev-rheinland.com					

Zertifikat		Certificate		TÜVRheinland	
Zertifikat Nr. / Certificate No.	R 50477532	Blatt / Sheet	0001		
Das Zeichen / Client Reference	01-WSN-60407191 001	Ausstellungsdatum / Date of Issue	14.08.2020		
Genehmigungsinhaber / License Holder		Fertigungsstelle / Manufacturing Plant			
SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China		SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi Jiangsu P.R. China			
Prüfzeichen / Test Mark	Geprüft nach / Tested acc. to				
	EN 50618:2014				
Zertifiziertes Produkt (Certificate Identification)		Lizenzentgelt - Einheit / License Fee - Unit			
Cable (Electric Cables for Photovoltaic Systems)		5			
Type Designation	R1222-K 1X1,5...35mm²				
Rated Voltage	DC 1,5kV				
Ambient Temperature	-40°C to +90°C				
Max. Temperature at Conductor	120°C				
ANLAGE (Appendix): 1.0					
Das Zertifikat liegt unsere Prüf- und Zertifizierungsergebnisse zugrunde und es bestätigt die Konformität des Produkts mit den europäischen Standards und Prüfverfahren. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich beachtet werden. Die Einhaltung der europäischen Produkte wird durch die Zertifizierung bestätigt. Das Zertifikat ist basierend auf der Prüfung und Konformitätsprüfung und stellt die Konformität des Produkts mit den Standards und Prüfverfahren dar. Die Einhaltung der europäischen Anforderungen ist in der Anlage 1.0 festgelegt. Die Einhaltung der europäischen Anforderungen ist in der Anlage 1.0 festgelegt. TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel: +49 221 886-171 email: cert@tuev-rheinland.com Fax: +49 221 886-3033 http://www.tuev-rheinland.com					

Certificate of constancy of performance		according to Regulation (EU) No. 305/2011		TÜVRheinland	
Certificate No.:	1008-CPR-MC-6926647 0001				
Report No.:	H023ALAN 001				
Applicant:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA				
Manufacturer:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA				
Manufacturing plant:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, 214029 Wuxi, Jiangsu, CHINA				
Product:	Photovoltaic cable family				
Identification:	H1222-K (62930 IEC 131) 1x2,5mm² to 1x35mm²				
Intended use:	Electric Cables for general applications				
FFC Report No.:	H0232D7Y 001				
System of assessment and verification:	1+				
Tested according to:	EN 50575:2014+A1:2016				
This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above. This certificate was first issued on 2023-05-10 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body. Certification Body Date of issue: Budapest, 2023-05-10 TÜV Rheinland InterCert Kft., Product Certification Body — H-1143 Budapest, Galla (H) 81-87 — www.tuv.com Product certification body accredited by MAH under No. NAH-6-0053/2018/K, Notified Body No. 1008 Validity of certificate can be checked on www.CERTIPEDIA.com					

Prüfbericht - Produkte		Test Report - Products		TÜVRheinland	
Prüfbericht-Nr. / Test report no.:	CN220X3B 001	Auftrags-Nr. / Order no.:	244455160	Seite 1 von 3 / Page 1 of 3	
Kunden-Referenz-Nr. / Client reference no.:	N/A	Auftragsdatum / Order date:	13.10.2022		
Auftraggeber / Client:	SUNKEAN CABLE CO., LTD. 17-9 South Changjiang Road, Xinwu District, Wuxi, Jiangsu, P.R. China				
Prüfgegenstand / Test item:	Electric Cables for Photovoltaic Systems				
Bezeichnung / Typ-Nr. / Identification / Type no.:	62930 IEC 131 1X4mm² & 62930 IEC 131 1X10mm²				
Auftragsinhalt / Order content:	Issuing TÜV test report				
Prüfgrundlage / Test specification:	IEC 62930:2017 Electric cables for photovoltaic systems with a voltage rating of 1.5 kV DC IEC 60529:2013 Degree of protection provided by enclosures (IP Code)				
Wareneingangdatum / Date of sample receipt:	15.10.2022				
Prüfmuster-Nr. / Test sample no.:	TN22-4211E-TN22-4212E				
Prüfzeitraum / Testing period:	17.10.2022 - 20.10.2022				
Ort der Prüfung / Place of testing:	See Other below for details				
Prüflaboratorium / Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.				
Prüfergebnis / Test result:	Pass				
geprüft von / tested by:	Jingjing Wang	genehmigt von / authorized by:	Bo Liu/TC		
Datum / Date:	2022-10-26	Ausstellungsdatum / Issue date:	2022-10-27		
Stellung / Position:	Jingjing Wang/PE				
Sonstiges / Other:	Place of testing: Shanghai Intelligent Service and Technology Co., Ltd. - East zone, Building 14, No. 1000, Jinhai Road, Pudong New District, Shanghai, P.R. China				
Zustand des Prüfgegenstandes bei Anlieferung / Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt / Test item complete and undamaged				
Legende: Pass = entspricht o.g. Prüfungsanforderung / Pass = corresponds to test specifications / Fail = entspricht nicht o.g. Prüfungsanforderung / Fail = does not correspond to test specifications / N/A = nicht anwendbar / N/A = not applicable / NT = nicht getestet / NT = not tested Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugeweiht vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the o.g. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. TÜV Rheinland (Shanghai) Co., Ltd. No. 1177, 1178, Lane 777 West Guangsheng Road, Jingtan District, Shanghai, China Mail: service@tuev-rheinland.com Web: www.tuev.com					



CPR, Construction Products Regulation



What is it and how does it affect electrical cables?

What is the CPR?

The CPR (Construction Product Regulation) is a regulation issued by the European Union, in force since 1st July 2016. The purpose of the CPR is to:

- Ensure the harmonisation across Europe of the materials used in construction
- Achieve higher safety levels for fire and dangerous substances in materials used in construction
- Provide greater clarity and traceability of products used in construction

Construction Works - Definition

The CPR states that power control and data telecommunications cable is subject to the rules when installed in "Construction Works". Construction Works as defined by the CPR refer to any permanent or temporary building or civil engineering work.

✓ Public Locals

✓ Civil engineering works

✓ Households

✓ Connecting facilities

Why CPR?



In the case of cables, whose standard application is developed in EN 50575. CPR affects only those power cables, telecommunications, data and control, to be incorporated in construction works permanently. The benefits of the cables which will be regulated by the CPR are:



Reaction to fire:

Contribution of a cable (by decomposition of the component materials during a fire) to the spread of it.



Fire resistance:

Ability of a cable to maintain its performance under fire condition.



Emissions of hazardous substances:

Examine the acid gases during a fire.

The new classes

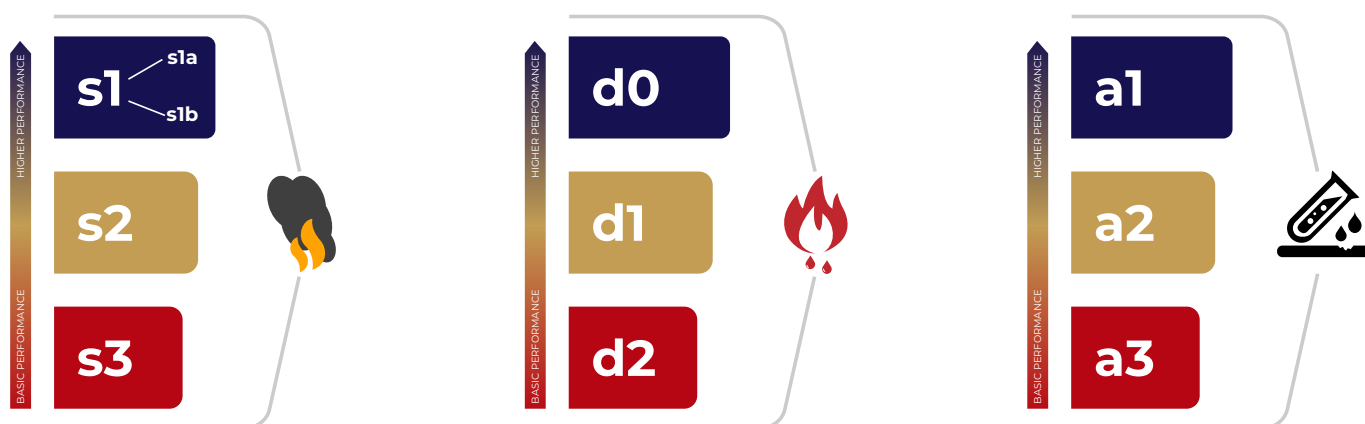


At present time national regulations have been established across Europe specifying CPR Classes between Eca and B2ca. The industry is accordingly supplying products with this range of performance.

Additional Classification Levels: s, d, a.

Three Additional Classification Levels Have Been Established Regarding:

- The amount of smoke produced (s)
- The particles released by the cable during combustion (d)
- The acidity – or toxicity – of the smoke (a)



Cca-S1a, d0,a2

Dca-s2,d2,a2

SMOKE OPACITY

s1: Little production and slow propagation of smoke

s1a: S1 with visibility over 80% (UNE-EN 61034-2)

s1b: S1 with visibility over 60% and below 80%(UNE-EN 61034-2)

s2: Intermediate values of production and propagation of smoke

s3: Neither s1 or s2

FALL OF DROPLETS DURING COMBUSTION

d0: No fall of droplets or flamed particles (UNE-EN 50399)

d1: Fall of droplets and inflamed particles that persist for less than 10 seconds (UNE-EN50399)

d2: Neither d0 or d1

SMOKE ACIDITY

a1: Low acidity (UNE-EN 60754-2 conductivity <2,5ms/mm y pH > 4.3)

a2: Intermediate values of acid (UNE-EN 60754-2 conductivity <10 ms/mm y pH > 4.3)

a3: Neither a1 or a2

Summary of CPR classification

This new European classification system enables the easy comparison of different products in order to select the most suitable cable for each type of installation.

Class	Main classification criteria			Additional criteria		
	UNE-EN 50399 (heat emission, firegrowth rate)	UNE-EN 50399 (Non-propagation of fire)	UNE-EN 60332-1 (Non-propagation of fire)	UNE-EN 50399/ 61034-2 s → Smoke emission	UNE-EN 50399 d → Flamed particles	UNE-EN 60754-2 a → Acidity
B2	+++	+++	+++	Sl a+++++ Sl b++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
C	++	++	+++	Sl a+++++ Sl b++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
D	++		+++	Sl a+++++ Sl b++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
E			+++			

Where to apply?

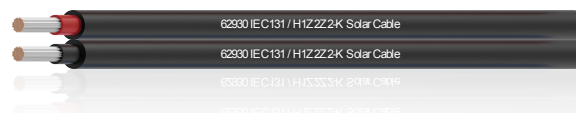
Based on the risk of fire, here we provide some suggestions about how to apply the CPR-compliant cables in proper environment or circumstances. The below chart shows the use of applications by different risk of fire level.

Class	Risk of fire	Insulation Place (Enviroment Example)
B2	Very High	Hospital, Tunnel, Underground railways, High rises buildingwith large of occupants
C	High	Airports, Shopping Center, Public Building, Escape routes
D	Medium	Commercial premises, Large office, Large storehouses
E	Low	Single residential, Industrial premises, Small store buildingwith few occupants

62930 IEC131 H1Z2Z2-K Solar Cable



Single core solar cable



Twin core solar cable

SUNKEAN provides a number of additional advantages in comparison to conventional solar cables:



Voltage rating 1.500 V_{DC} (max. 1.800 V_{DC})



Consecutive meter marking



Higher UV-stability



Higher water resistance



Flammability class acc. CPR



Higher insulation resistance



Higher mechanical stability

Characteristics



Conductor	Tinned stranded copper, comply with IEC60228, EN60228, VDE0295, Class 5	Temperature Rating	Rated: -40°C to +90°C Max.conductor temp: +120°C Short Circuit: +250°C
Insulation Material	XLPO	Minimum Bending Radius	Ø ≤ 12mm 4 x overall diameter Ø > 12mm 10 x overall diameter
Insulation Color	Optional color	Testing Standard	Smoke Density Test: transmittance≥60% EN50618 Cold Bending Test: -40°C±2°C no crack EN60811-504
Sheath Color	XLPO	Reference Standard	EN50618 & IEC62930
Voltage Rating	DC: 1500V		
Test Voltage	6500V AC		

Certificate

Certificate of constancy of performance
according to Regulation (EU) No. 305/2011

Certificate No.: 1008-CPR-MC 6926647 0001

Report No.: R012361001

Applicant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Manufacturer: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Manufacturing plant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Product: Photovoltaic cable family

Identification: H12222-K (62930 IEC 131) 1x2,5mm² to 1x35mm²
Intended use: Electric Cables for general applications
FFC Report No.: H1231074 001

System of assessment and verification: 1+
Tested according to: EN 50575:2014+A1

Certification Body
TÜV Rheinland InterCert KRL - Product Certification Body — H-143 Budapest, Gzella út 51-57. — www.tuv.com
Notified Body No. 1008
Validity of certificate can be checked on www.CERTIFIPIIDA.com

Date of issue: Budapest, 2021-09-09
Ferenc Schmitt

Annex to certificate No. 1008-CPR-MC 6926647 0001
Page 1/1

Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi osztály / Reaction to Fire classification
H12222-K (62930 IEC 131) 1x2,5 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x4 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x6 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x10 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x16 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x25 mm ²	SUNKEAN	Cca-s1a, d0, a2
H12222-K (62930 IEC 131) 1x35 mm ²	SUNKEAN	Cca-s1a, d0, a2

Certification Body
TÜV Rheinland InterCert KRL - Product Certification Body — H-143 Budapest, Gzella út 51-57. — www.tuv.com
Notified Body No. 1008
Validity of certificate can be checked on www.CERTIFIPIIDA.com

Date of issue: Budapest, 2021-09-09
Ferenc Schmitt

Zertifikat Certificate

Zertifikat Nr. / Certificate No.: R 50477533 **Blatt / Sheet:** 0001

Der Ziehende / Client Reference: W.D.S. **Unser Zertifikat / Our Reference:** 01-NSW-60407192 001 **Anstellungsdatum / Date of Issue:** 10.09.2020

Gewerbekunde / Customer: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, Wuxi, Jiangsu, P.R. China

Fertigstellungs- / Manufacturing Plant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, Wuxi, Jiangsu, P.R. China

Produkt / Product: Photovoltaic cable family

Copyright nach / Total cost in: IEC 62930:2017

Zertifizierter Produkt (Certificate/Identification): Cable (Electric Cables for Photovoltaic Systems)

Lizenzierung - Einheit / License Fee - Unit: 12

Typ / Designation: 2043300

Code Marking: 62930 IEC 131

Additional Marking: SUNKEAN CABLE CO., LTD.

Scope of Size: 1x1,5...35mm²

Rated Voltage: DC 1,5kV

Max. Storage Temperature: +45°C

Min. Temperature for Installation and Handling: -25°C

Max. Temperature at Conductor: 125°C

ANLAGE (Appendix): 1.0

TÜV Rheinland LGA Products GmbH, Villstr. 2, 90431 Nürnberg
Tel.: +49 (0) 911 894-111, e-mail: service@tuev.com
Fax: +49 (0) 911 894-1933, <http://www.tuev.com>

▲ Cca-s1a, d0, a2

▲ IEC 62930

Certificate of constancy of performance
according to Regulation (EU) No. 305/2011

Certificate No.: 1008-CPR-MC 6926647 0001

Report No.: R012361001

Applicant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Manufacturer: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Manufacturing plant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, 214029 Wuxi, Jiangsu, P.R. China

Product: Photovoltaic cable family

Identification: H12222-K (62930 IEC 131) 1x2,5mm² to 1x35mm²
Intended use: Electric Cables for general applications
FFC Report No.: H0332079 001

System of assessment and verification: 1+
Tested according to: EN 50575:2014+A1:2016

Certification Body
TÜV Rheinland InterCert KRL - Product Certification Body — H-143 Budapest, Gzella út 51-57. — www.tuv.com
Product certification body accredited by NAIH under No. NAH-4-0052010K, Notified Body No. 1008
Validity of certificate can be checked on www.CERTIFIPIIDA.com

Date of issue: Budapest, 2023-05-10
Ferenc Schmitt

Annex to certificate No. 1008-CPR-MC 6926647 0001
Page 1/1

Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi osztály / Reaction to Fire classification
H12222-K (62930 IEC 131) 1x2,5 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x4 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x6 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x10 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x16 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x25 mm ²	SUNKEAN	Dca-s2, d2, a2
H12222-K (62930 IEC 131) 1x35 mm ²	SUNKEAN	Dca-s2, d2, a2

Certification Body
TÜV Rheinland InterCert KRL - Product Certification Body — H-143 Budapest, Gzella út 51-57. — www.tuv.com
Notified Body No. 1008
Validity of certificate can be checked on www.CERTIFIPIIDA.com

Date of issue: Budapest, 2023-05-10
Ferenc Schmitt

Zertifikat Certificate

Zertifikat Nr. / Certificate No.: R 50477533 **Blatt / Sheet:** 0001

Der Ziehende / Client Reference: W.D.S. **Unser Zertifikat / Our Reference:** 01-NSW-60407191 001 **Anstellungsdatum / Date of Issue:** 14.08.2020

Gewerbekunde / Customer: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, Wuxi, Jiangsu, P.R. China

Fertigstellungs- / Manufacturing Plant: SUNKEAN CABLE CO., LTD.
17-9 South Changjiang Road, Ximou District, Wuxi, Jiangsu, P.R. China

Produkt / Product: Photovoltaic cable family

Copyright nach / Total cost in: EN 50618:2014

Zertifizierter Produkt (Certificate/Identification): Cable (Electric Cables for Photovoltaic Systems)

Lizenzierung - Einheit / License Fee - Unit: 5

Typ / Designation: H12222-K 1x1,5...35mm²

Code Marking: SUNKEAN CABLE CO., LTD.

Rated Voltage: DC 1,5kV

Ambient Temperature: -40°C to +90°C

Max. Temperature at Conductor: 120°C

ANLAGE (Appendix): 1.0

TÜV Rheinland LGA Products GmbH, Villstr. 2, 90431 Nürnberg
Tel.: +49 (0) 911 894-111, e-mail: service@tuev.com
Fax: +49 (0) 911 894-1933, <http://www.tuev.com>

▲ Dca-s2, d2, a2

▲ EN50618

SUNKEAN

SUNKEAN CABLE CO., LTD.

Connections Solution Provider



Contents

01 | Company Overview

02 | Company Strengths

03 | Product Portfolio

04 | Projects Display

Overview

SUNKEAN connects reliable future

01.

About Us

PV Solar, Energy Storage, and EV Charging Cabling Solutions Provider

Unlocking the potential of renewable energy, SUNKEAN stands as your trusted partner. Since 2013, we've honed expertise in solar, energy storage, and charging technologies. Our cutting-edge manufacturing and rigorous quality control ensure unmatched reliability. From solar, energy storage, to charging, SUNKEAN delivers excellence at every turn.

TOP3

Market share in Malaysia, Japan, and Australia.

Key Stats



Wuxi, CN

Headquarters



80+

Proprietary
intellectual properties



60+

International
Certifications



19000m²

Factory area



500km

Cable Daily
Output



200000set

Harness Monthly
Output

Vision

Becoming the Global Leader
in Connection Solutions

Mission

CONNECTS
RELIABLE FUTURE

World class

Manufacturer of sustainable energy connectivity solutions

Values

- Customer Success · Hard Work and Dedication
- Self-Reflection · Openness and Progress · Integrity and Trustworthiness · Teamwork

Company mission

Providing Better Connection Solutions for Sustainable Energy

Global

Promoting green and sustainable development to achieve the "Dual Carbon" goals

Branch Offices



Milestones

2013

SUNKEAN Founded

Headquartered in Wuxi, China, marking a new beginning in the new energy cable industry

2017

Built Core Manufacturing Facility

Established a state-of-the-art cable factory, focusing on photovoltaic (PV) cables, energy storage solutions, string harnesses, and cabling systems

2020

Production Capacity Doubled

Factory size doubled, production capacity increase

2015

Entered the Japanese Market

Successfully penetrated the Japanese market and established long-term cooperation with a leading distributor

2018

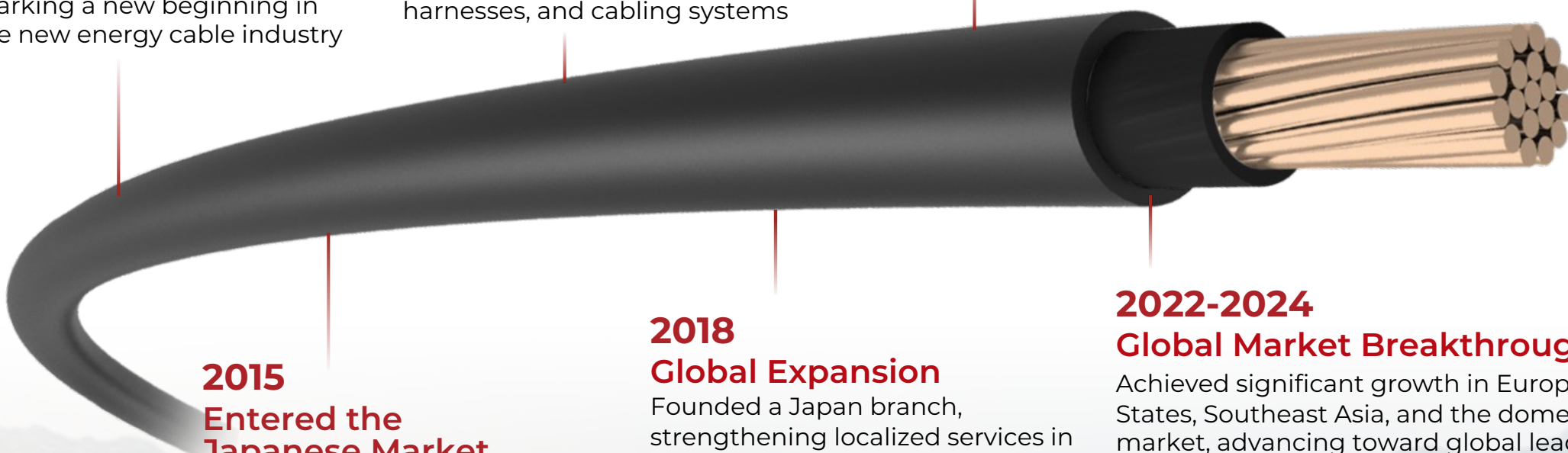
Global Expansion

Founded a Japan branch, strengthening localized services in the Asia-Pacific market

2022-2024

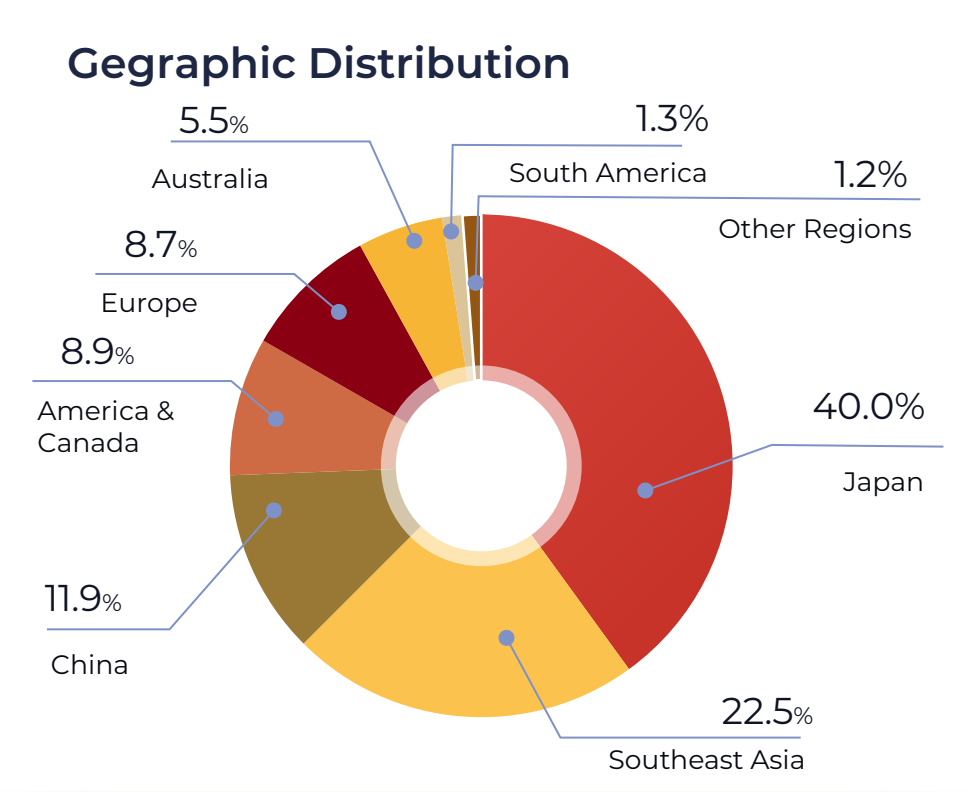
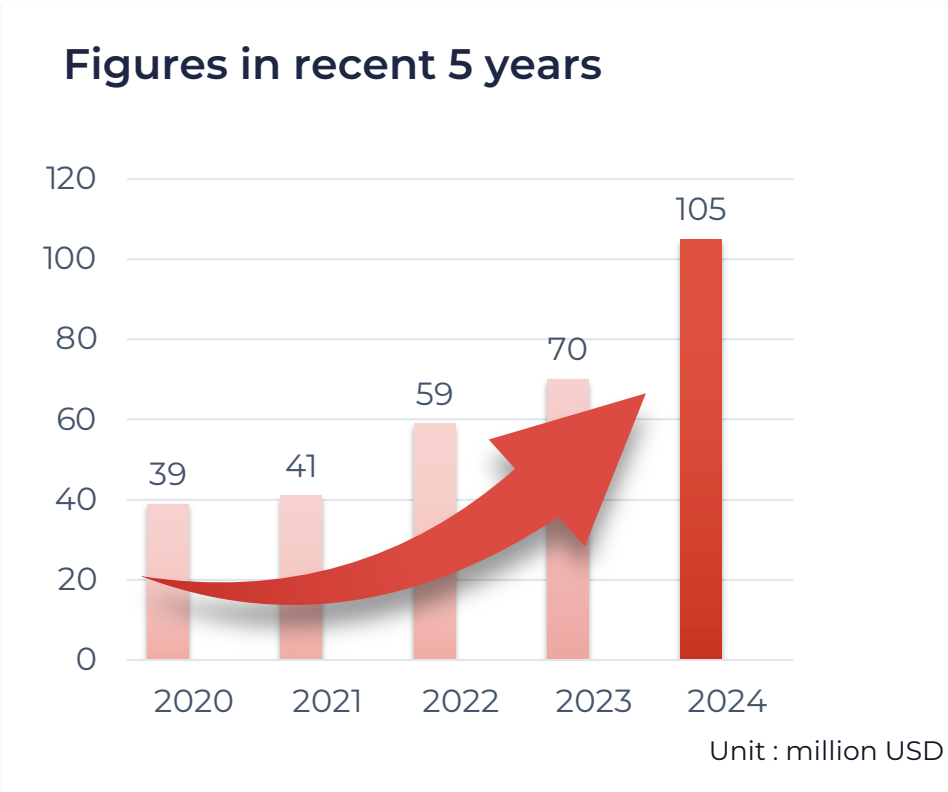
Global Market Breakthrough

Achieved significant growth in Europe, the United States, Southeast Asia, and the domestic Chinese market, advancing toward global leadership.



Financial Performance

SUNKEAN is convinced that the best product quality warranty is that "the longevity of the enterprise should be longer than that of its products".
SUNKEAN has maintained an excellent financial performance and joins hands with customers and partners in the long run.



Expertise that Powers Connections

A dynamic team dedicated to delivering safer, greener, and smarter energy connections for a sustainable future.



Our team comprises seasoned professionals with extensive expertise in the cable, wire harness, photovoltaic, and energy storage industries.

15+

years average industry expertise

50+

global projects supported annually

Engineers with decades of **experience** in designing and manufacturing high-performance cables

Specialists in **energy storage and photovoltaic systems**, driving new possibilities in sustainable energy

Professionals experienced in connecting industries and markets across the globe

Strengths

SUNKEAN connects reliable future

02.

Enterprise qualification

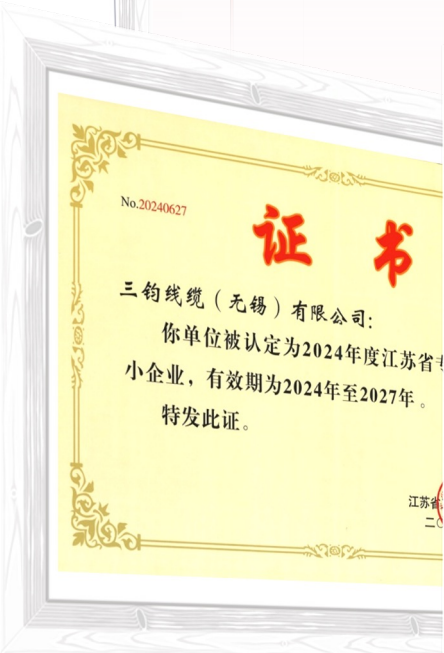
Member of Wire and
Cable Industry Association

Specialization and
Innovation Certificate

Wuxi Engineering
Research Center Certificate

High-tech
enterprise certification

TÜV AQM
PV Cable Award



Patents and certificates

Proprietary
Intellectual Properties

80+

International
Product Certifications

60+

Pioneering Excellence, Globally Recognized

With multiple global first certifications, SUNKEAN's products stand as a testament to our unmatched innovation and industry expertise.



TÜV 2750
Floating PV Certification
First Certification Nationwide
in China

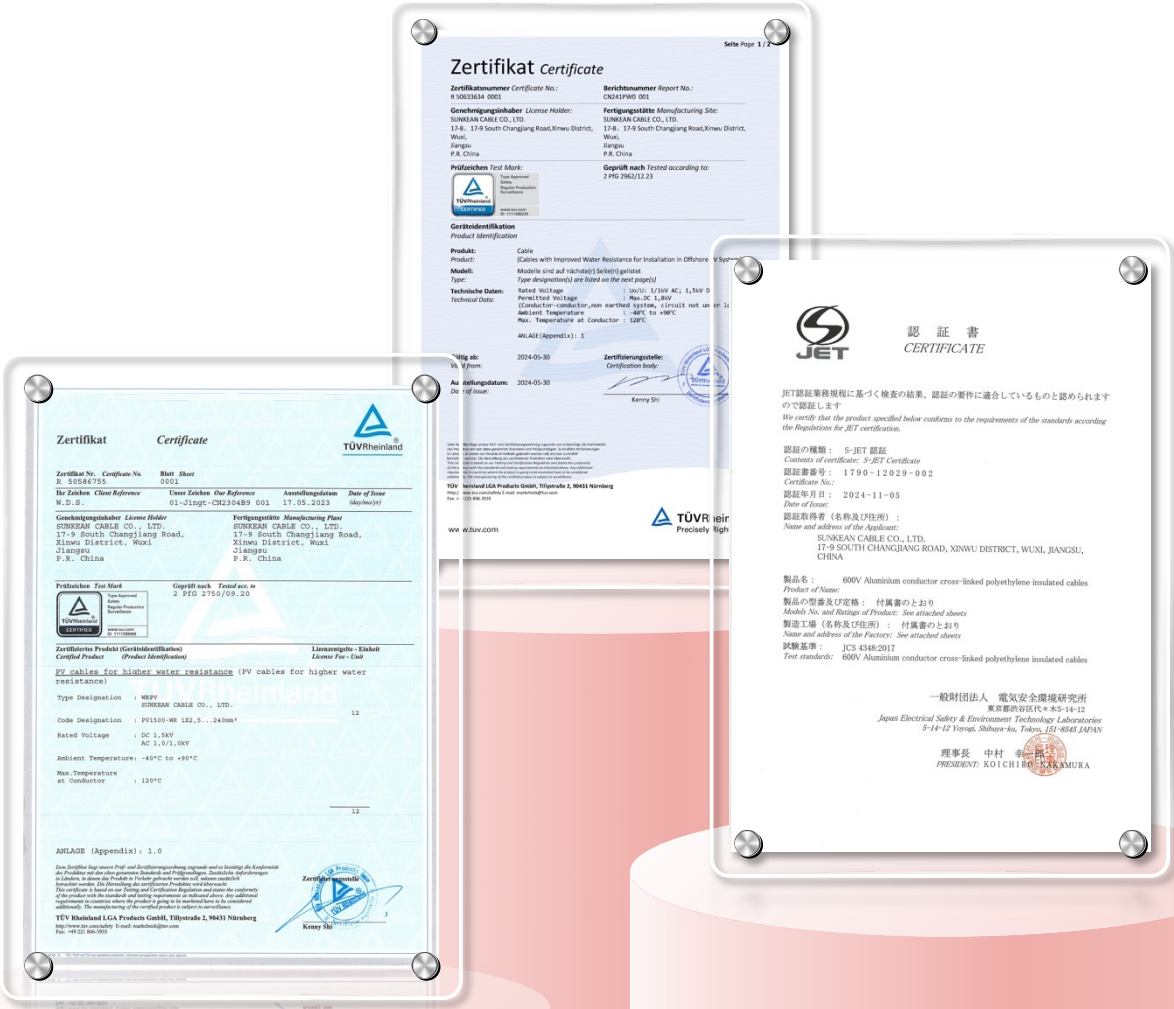


TÜV 2962
**Floating PV
Certification**

Among the First Certifications
Nationwide in China



**600V AL-CV & CVT
Certification**
The World's First
Certification



Certificates

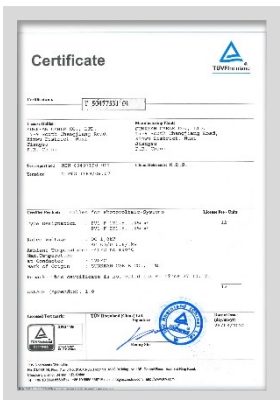
UL Standard



C(UL) Standard



TÜV Standard



Certificates

RETIE

CE

ETL

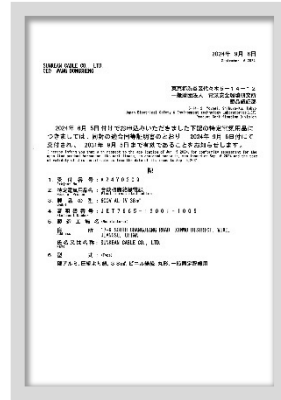
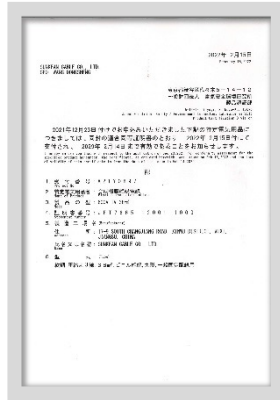
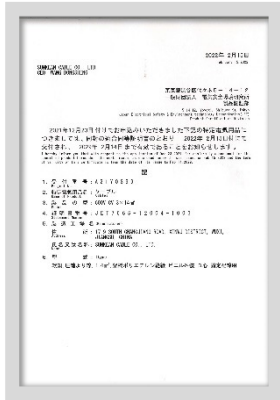
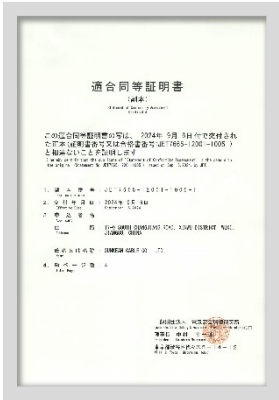
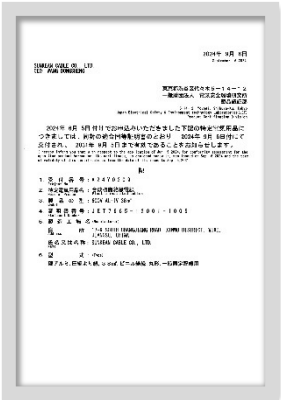
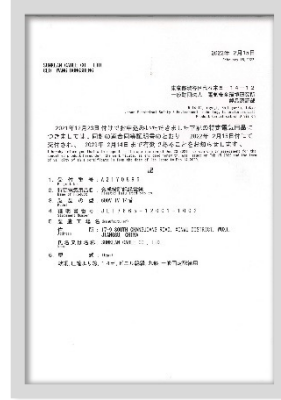
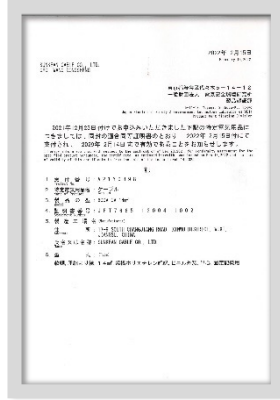
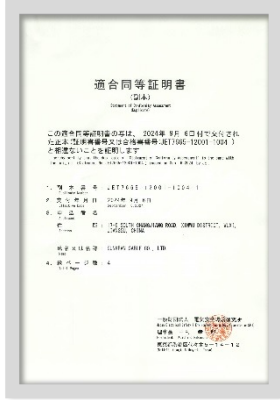
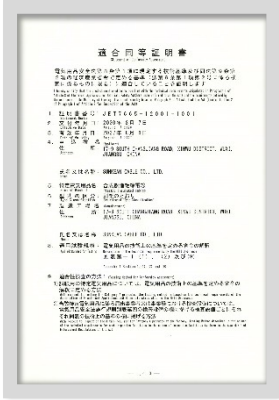
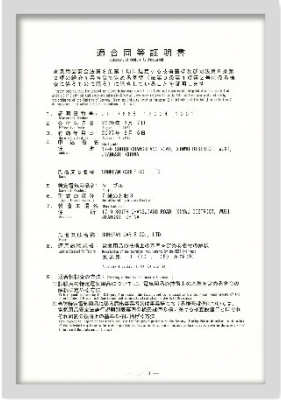
CQC

TÜV SÜD



Certificates

PSE Standard



PSE Standard

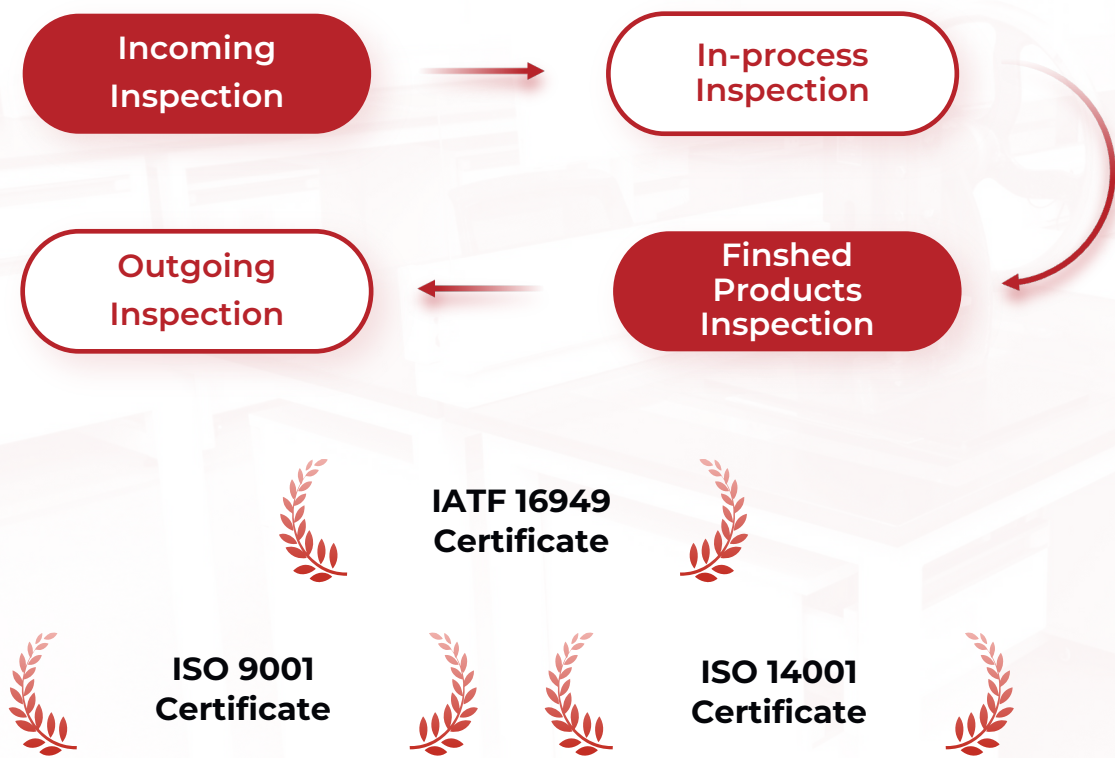


S-JET Standard



Quality Inspection and Testing

During the production process, we strictly follow the requirements of ISO 9001 quality management system for quality control and inspect and test each process. We use advanced testing equipment and technology, including high voltage testing, insulation resistance testing, appearance inspection, etc., to ensure that the products meet the requirements of various international standards.



Factory View



Cable Factory Strength

We have advanced production equipment and process flow to meet the needs of orders of different sizes and complexities.

Factory Area **10000m²**

6 insulation extrusion lines

12 rewinding process lines

2 complete extrusion-cabling lines

Monthly production capacity **15,000km**

Factory View

Harness Factory *Strength*

Our production plants are carefully designed and optimized, with efficient production lines and strict quality control systems to ensure a stable supply and consistency of products.

Factory Area **9000m²**

53 injection molding machines

10 wire cutting machines

12 crimping machines

12 nut machines

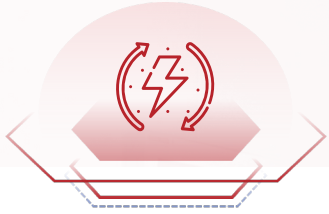
4 welding machines

3 coiling machines

Monthly production capacity **200,000set**



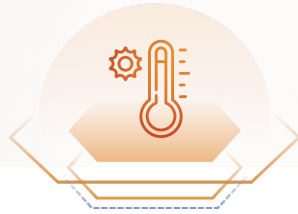
Uncompromising Quality, Proven in Every Test



Electrical Performance Testing

- Insulation Resistance
- Conductor Resistance
- Withstand voltage
- Long-Term Insulation
- DC Withstanding
- Temperature Rise

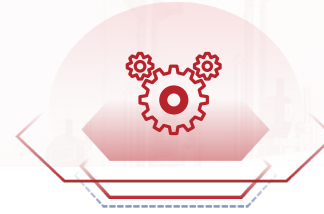
.....



Thermal Performance Testing

- Aging
- High Temperature and Humidity
- Thermal Elongation
- Thermal Deformation
- Thermal Shock

.....



Mechanical Performance Testing

- Low-Temperature Bending
- Low-Temperature Tensile
- Plastic Film Brittleness Test at Low Temperatures
- Oil Resistance

.....



Combustion Performance Testing

- IEC60332-1 Combustion
- JISC3005 Inclined Combustion
- FT-1 Combustion
- VW-1 Combustion

.....

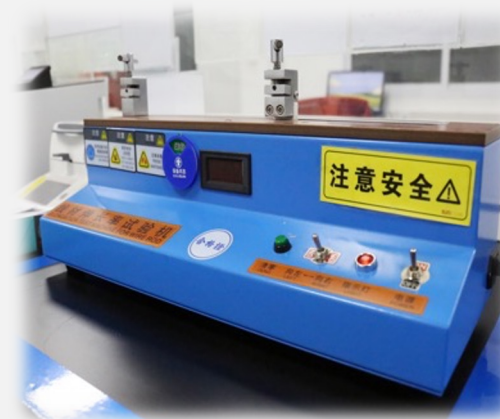
Advanced testing equipment ensures the durability of products in various environments.

Cable Inspection Equipment (Partial)



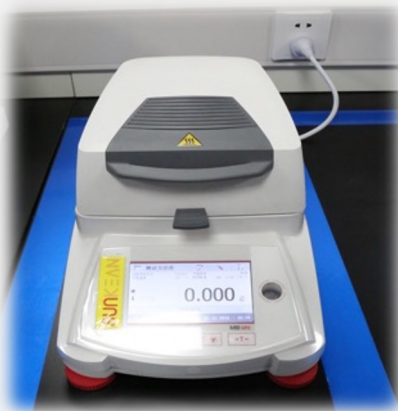
Electronic Densitometer

Test item:
Rubber Material Density Test



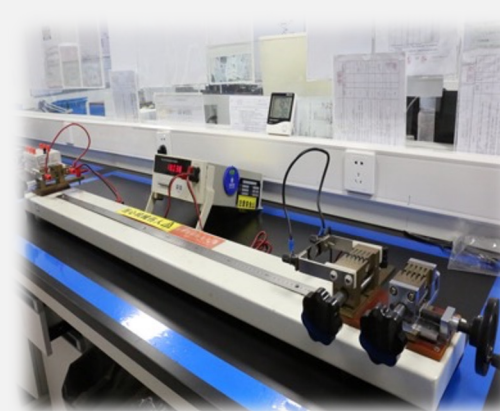
Elongation Testing Machine

Test item:
Conductor Elongation Test



Moisture Analyzer

Test item:
Rubber Material Moisture Test



DC Resistance Bridge

Test item:
Conductor Resistance

Cable Inspection Equipment (Partial)



Projector

Test item:

- Minimum Insulation & Sheath Thickness
- Average Insulation & Sheath Thickness
- Concentricity
- Ovality (or Eccentricity, in some contexts)



Diameter Gauge

Test item:

Single Conductor Wire Diameter Measurement



Low-Temperature Chamber

Test item:

- Low-Temperature Bending Test
- Low-Temperature Tensile Test
- Cold Elongation Test



Aging Chamber

Test item:

- Mutual Influence Test
- Indentation Resistance Test
- Sheath Heat Shrinkage Test
- Heat Elongation Test
- Thermal Life Test

Cable Inspection Equipment (Partial)



Thermal deformation testing

Test item:

- Thermal deformation experiment
- Damp Heat Test



Temperature and humidity test chamber

Test item:

- High Temperature and High Humidity Test
- High and Low Temperature Cycling Test
- Double 85% Test (refers to 85° C and 85% relative humidity test, commonly used for reliability testing)



Thermal shock test chamber

Test item:

Thermal Shock Test



Combustion Test Machine

Test item:

- IEC 60332-1 Combustion Test
- JIS C 3005 Inclined Combustion Test
- FT-1 Combustion Test
- VW-1 Combustion Test

Cable Inspection Equipment (Partial)



Low-temperature brittleness tester

Test item:
Low-Temperature Brittleness of Plastic Sheets



Constant temperature oil bath

Test item:
Oil Resistance Test



Tensile strength and elongation tester

Test item:
Conductor Tensile Strength Test



Withstand voltage tester

Test item:

- Withstanding Voltage Test
- Long-Term Insulation Resistance Test under DC Voltage

Harness Inspection Equipment (Partial)



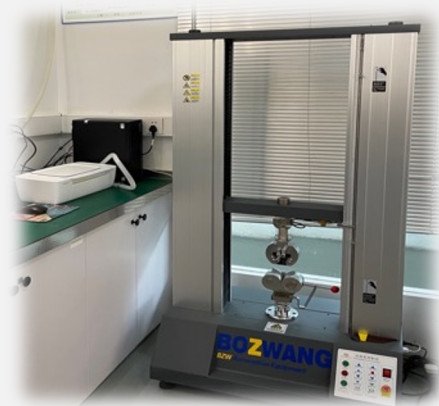
Temperature rise tester

Test item:
Temperature Rise Test



Cross-section analyzer

Test item:
Cross-Sectional Analysis



Tensile testing machine

Test item:

- Tensile Strength of Terminal
- Post-Riveting Tensile Strength
- Connector Tensile Strength Test



X-ray

Test item:

- Connector Crimping Condition
- Connection Condition Between Inner and Outer Molds
- Presence of Bubbles Inside Injection-Molded Parts

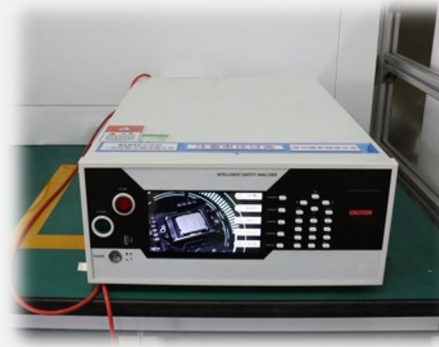
Harness Inspection Equipment (Partial)



Internal Resistance Tester

Test item:

- Internal Resistance Test
- Continuity Test



Insulation resistance tester

Test item:

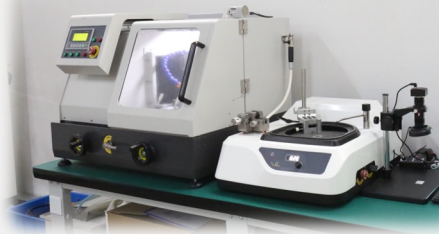
- Insulation Resistance Test in Water
- Withstanding Voltage Test
- Waterproof Test



AC, DC overload equipment

Test item:

- Overload Test



Cross-Section Analyzer

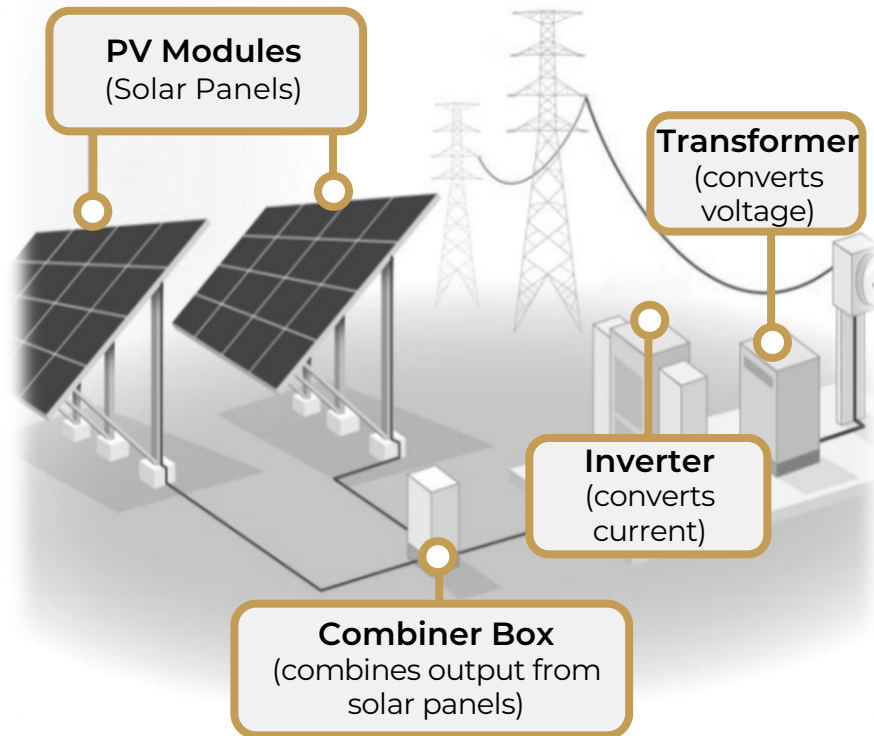
Test item:

- Copper-Aluminum Tube, Splice Sleeve, Connector and Fuse Crimping Test
- Crimp Cross-Section Compression Ratio

Product SUNKEAN connects reliable future 03.

Solar Connection Solution

SUNKEAN solar connection product solution that transfers power from solar panels to the inverter, which allows power to be sent to grid



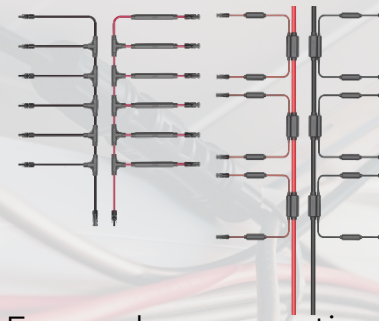
DC Solar Cable



Specially designed for PV power generation systems.

- UV resistance
- High temperature resistance
- High flame retardant

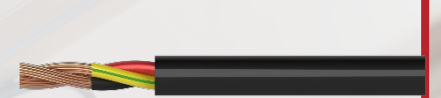
Wiring Harness



Fewer plug connections reduce DC power loss.

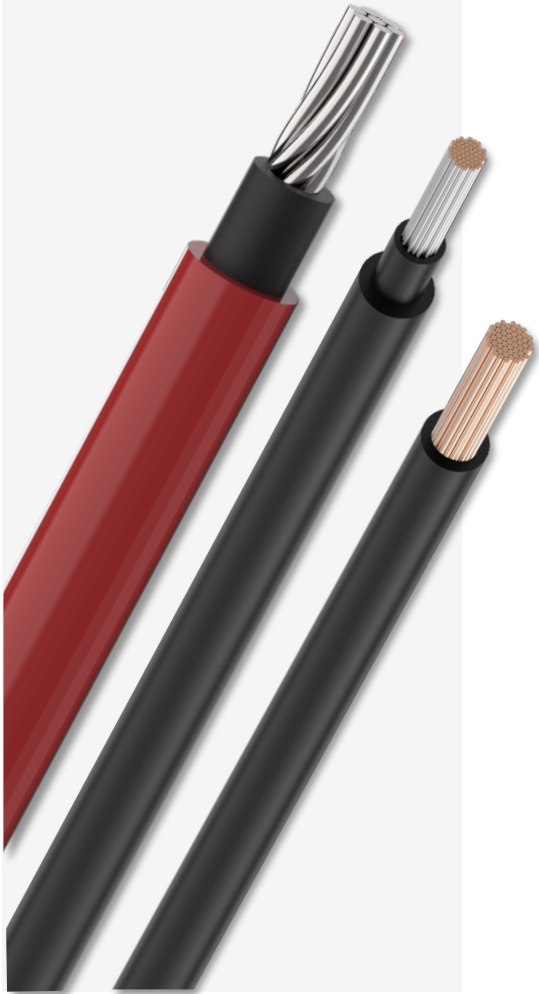
- Less material
- Shorter assembly time

AC Cable



AC Cable efficiently transmits converted AC power in solar systems with excellent conductivity, high temperature resistance, weather durability, and enhanced safety features.

DC Cable UL/cUL Approved



UL4703

Voltage:

2000V



Conductor:

Copper (18AWG~2000kcmil)

Tinned copper (18AWG~2000kcmil)

Aluminum or Copper-clad aluminum
(12AWG~2000kcmil)

According to:

UL4703

PV/RPVU90, 105

Voltage:

2000V



Conductor:

Copper (18AWG~2000kcmil)

Tinned copper (18AWG~2000kcmil)

Aluminum or Copper-clad aluminum
(12AWG~2000kcmil)

According to:

UL4703, CSA C22.2 NO.271

RPVU90, 105

Voltage:

2000V



Conductor:

Copper (14AWG~4/0AWG)

Tinned copper (14AWG~4/0AWG)

Aluminum or Copper-clad aluminum
(12AWG~2000kcmil)

According to:

CSA C22.2 NO.271



DC Cable TÜV Approved



62930 IEC131/H1Z2Z2-K

Voltage:

2000V

Conductor:

Tinned copper (1.5~400mm²)

According to:

IEC62930 / EN50618



EN 50618 H1Z2Z2-K / UL4703

Voltage:

2000V

Conductor:

Tinned copper (1.5~400mm²)

According to:

EN50618 UL4703



PV1500DC-AL PV1500DC-AL-K

Voltage:

1500V

Conductor:

Aluminum

(PV1500DC-AL: 1...2x10~400mm²)

PV1500DC-AL-K: 2.5~400mm²)

According to:

TÜV 2PFG 2642



PV1500-WR (Floating)

Voltage:

1500V

Conductor:

Tinned copper (2.5~240mm²)

According to:

TÜV 2PFG 2750



PV1500-SWR /62930 IEC 131 (Offshore)

Voltage:

1500V

Conductor:

Tinned copper (1.5~240mm²)

According to:

TÜV 2PFG 2962, IEC62930



PV 2000DC(TC5)

Voltage:

2000V

Conductor:

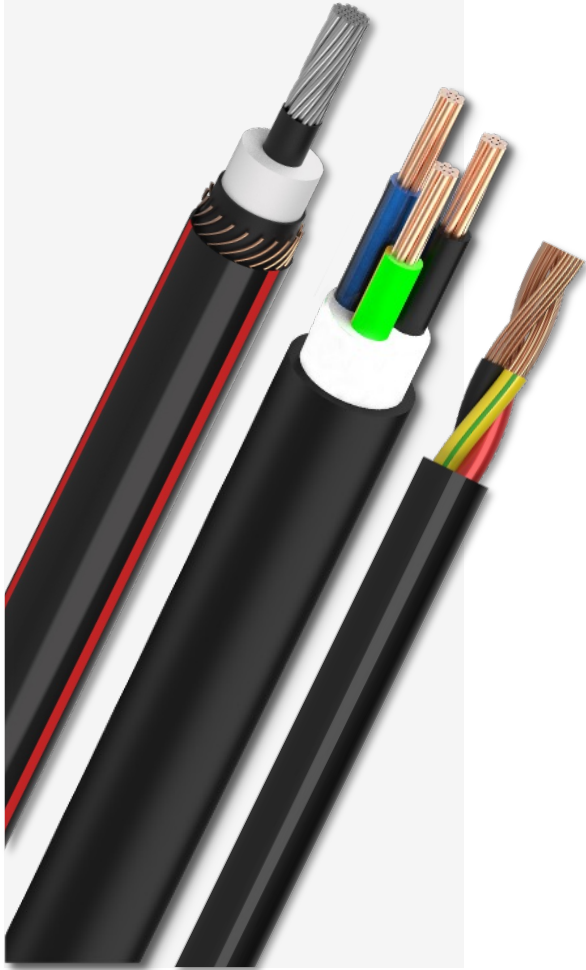
Tinned copper (1.5~240mm²)

According to:

PPP 58209A: 09.22



AC Cable UL/cUL Approved



DG Flat



Voltage:
600V
Conductor:
Copper (2C x 18AWG~10AWG)
According to:
UL3003, UL83

DG Round



Voltage:
600V
Conductor:
Copper (2C...37C x 18AWG~10AWG)
According to:
UL3003, UL44

CIC



Voltage:
600V
Conductor:
Copper (2C...37C x 18AWG~10AWG)
According to:
CSA C22.2 NO.239

TC TC-ER



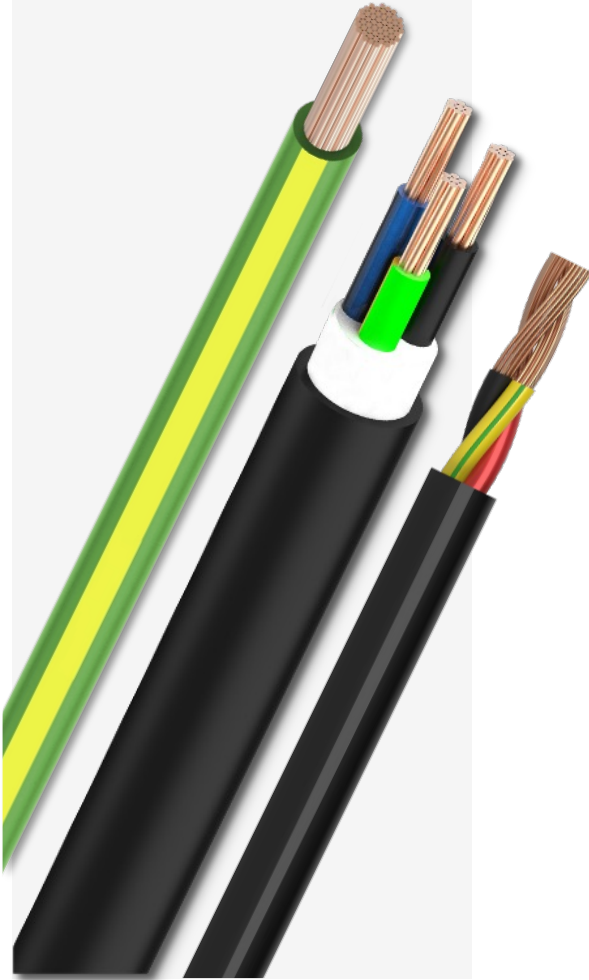
Voltage:
600V
Conductor:
Copper (2C...4C x 8AWG~750kcmil)
According to:
UL1277, UL44

MV-90, MV-105 (MV Cable)



Voltage:
35kV
Conductor:
Aluminum (4/0AWG~250kcmil)
According to:
UL1072

AC Cable TÜV Approved



PV07AC-F

Voltage:
AC U_0/U 450 /750 V
Conductor:
Tinned copper (2...5C x 0.75~16mm²)
According to:
TÜV 2PFG 1940



H05V-K

Voltage:
 U_0/U 300/500V
Conductor:
Tinned or Bare Copper (0.5~1.0mm²)
According to:
EN 50525-2-31



NYJ-J, NYJ-O

Voltage:
 U_0/U 0.6/1 kV
Conductor:
Copper (1C...7C x 1.5~95mm²)
According to:
IEC60502-1



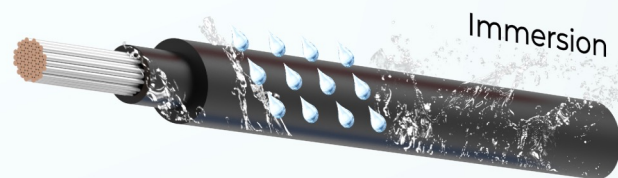
H07V-K

Voltage:
 U_0/U 450/750V
Conductor:
Tinned or Bare Copper (1.5~120mm²)
According to:
EN 50525-2-31



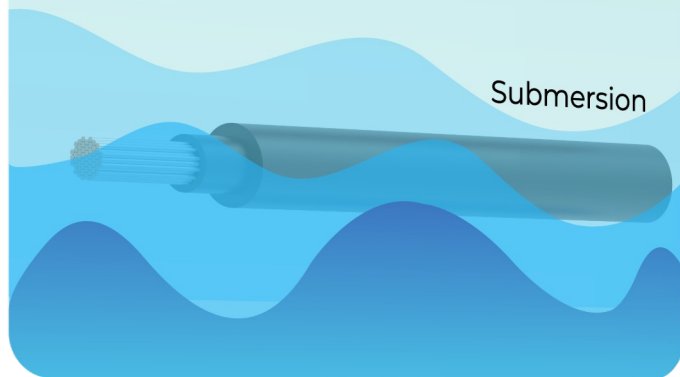
Water Resistant Series

AD7



Immersion

AD8



Submersion

Water Resistant Series

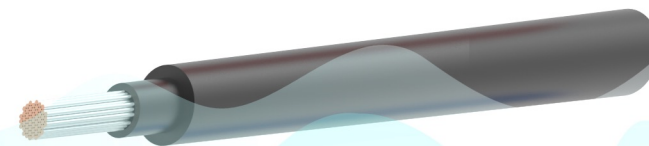
Specially designed for photovoltaic water floating applications.

AD7:
Most PV projects do not require long-term exposure to water, possibility of intermittent, partial or total flooding by water.

AD8:
Possibility of permanent and total water flooding.

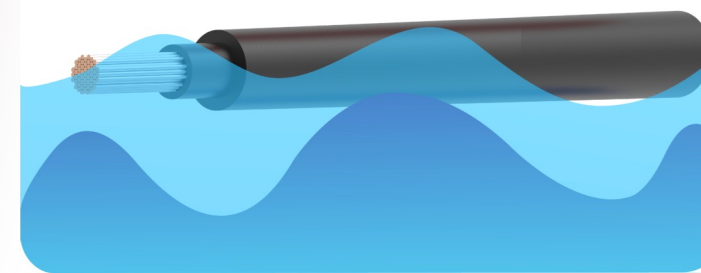
2PFG 2750 Floating

Fresh water



2PFG 2962 Offshore

Salt mist resistant

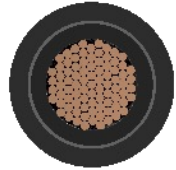


Anti-termite/Anti-Rodent



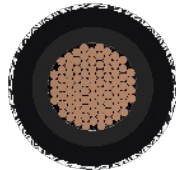
Chemical Additive

- Use termite and rodent repellent additives that are environmentally friendly. This solution is more cost-effective than steel braided cables and can be used on roofs and power plants where required.



Nylon Layer

- Add nylon layer for structural protection, make the effective time longer.



Stainless Steel Shield Braid

- Outer stainless steel braiding for structural protection, higher protection than nylon layer, effective time is long, the cost is the most expensive.

Optional Solutions



Flame Resistant PV Cable

	Class	Main classification criteria			Additional criteria		
		UNE-EN 50399 (heat emission, firegrowth rate)	UNE-EN 50399 (Non-propagation of fire)	UNE-EN 60332-1 (Non-propagation of fire)	UNE-EN 50399/ 61034-2 s → Smoke emission	UNE-EN 50399 d → Flamed particles	UNE-EN 60754-2 a → Acidity
HIGHER PERFORMANCE	B2	+++	+++	+++	S1a+++++ S1b+++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
	C	++	++	+++	S1a+++++ S1b+++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
	D	++		+++	S1a+++++ S1b+++++ S1++ S2+ S3	d0+++ d1+ d2	a1+++ a2+ a3
	E			+++			
BASIC PERFORMANCE							

CPR-Cca/Dca

- Flame Resistant
- IEC60332-3 Tested



Cable Packing Procedure

1 Wrap film tightly

2 Stick the label

3 Stack nearly---label to label

4 Wrap the first layer of film

5 Put the cardboard for protection & double wrap the film

6 Pack the straps



Wiring Harness Products



Optional connector model

AMPHENOL H4S

STAUBLI MC4- EVO2

STAUBLI MC4

TE PV-S

QC4.10 Plus

TLIAN T4

TRINA TS4

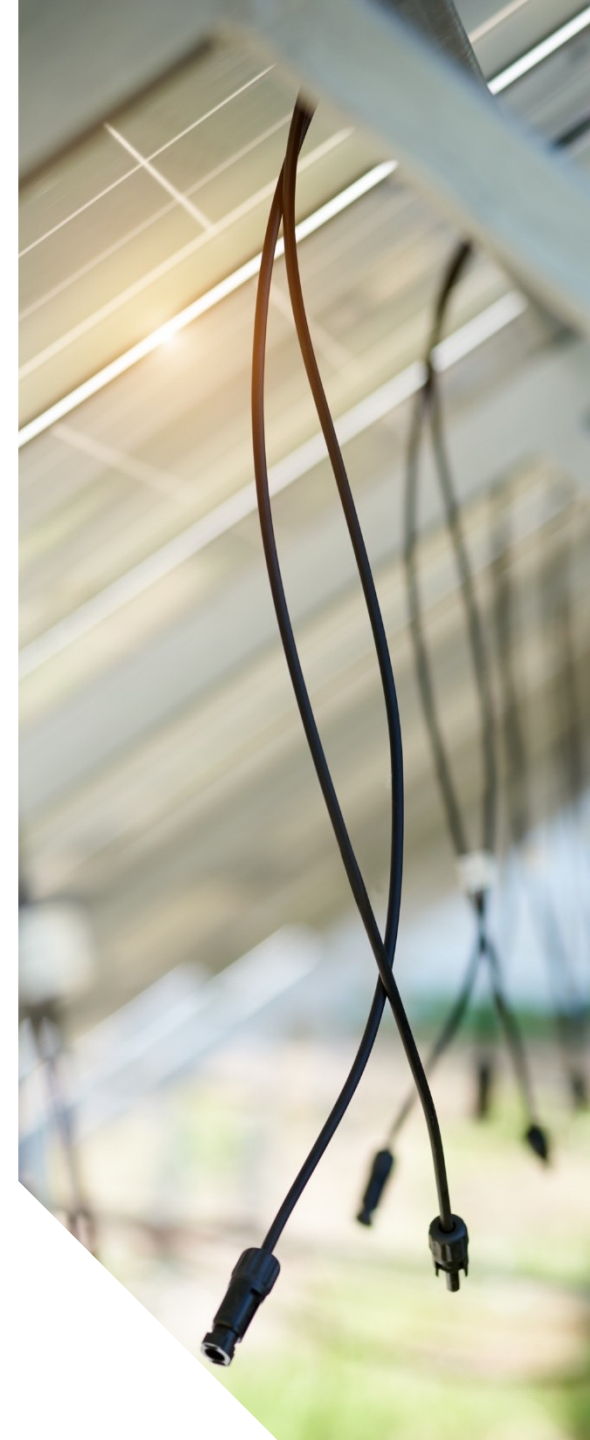
JINKO JK03M2

LONGI PV-LR5

TL-CABLE E01S

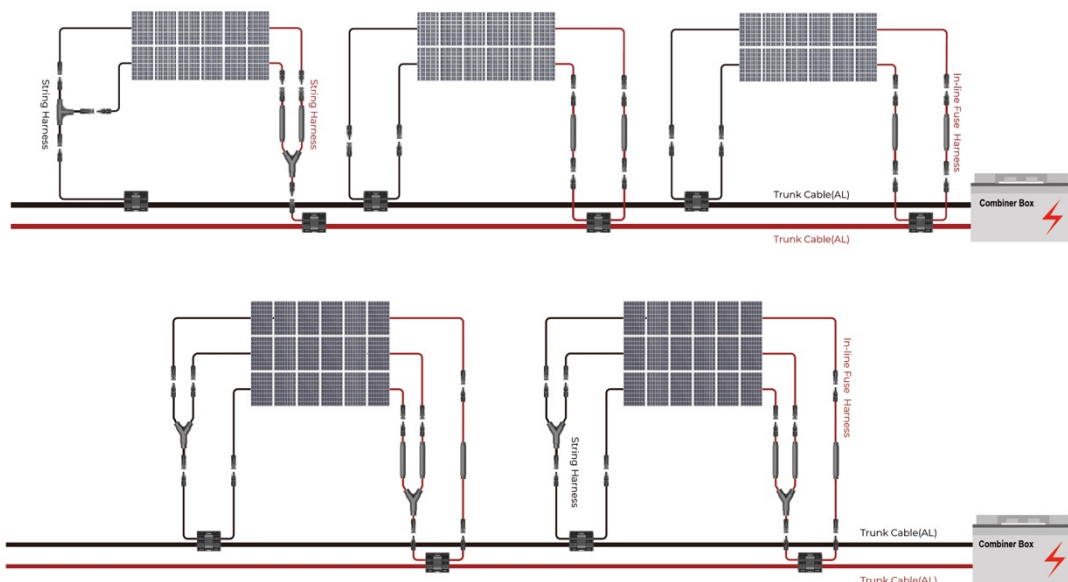
Features

- Adapts to various connectors
- Pre-assembled products without crimping tools
- 100% electrical conductivity test
- Reduce manpower cost for site installation
- Improve installation efficiency



Wiring Harness Products

We offer individual cable solutions for professional and safe cabling. Pre-assembled solutions ensure consistently high levels of quality and speed up assembly.



S-Y Junction



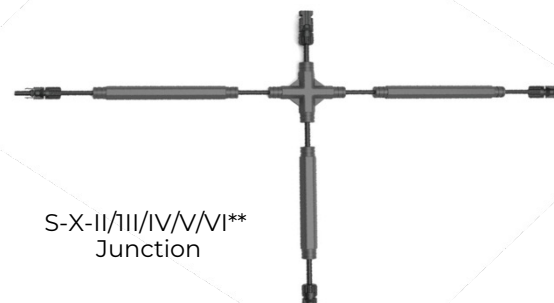
S-3 to 1 Junction



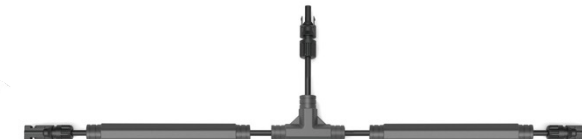
S-X Junction



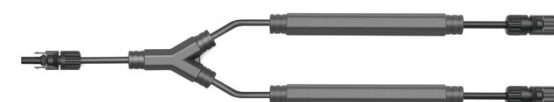
S-T Junction



S-X-II/III/IV/V/VI**
Junction



S-T-II/III/IV/V/VI**
Junction



S-Y-II/III/IV/V/VI** Junction

Features

- Pre-assembly, combine multiple wires without installation
- Reduce the amount of wire and number of combiner boxes
- More stable power lines and long-service time than connector connection
- Optional style: X/T/Y/R

AL Replaces Solution

CU-AL Junction Cable



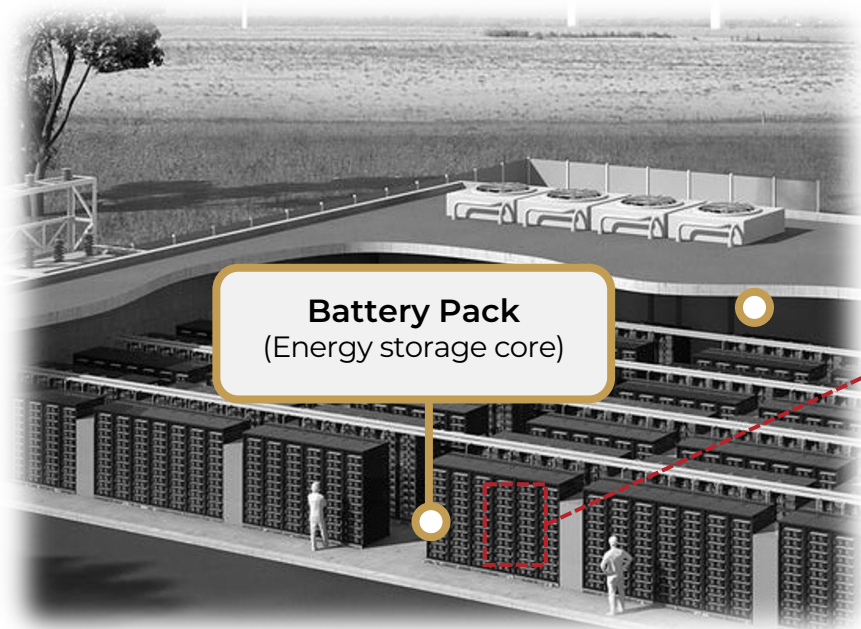
Joint: 35kV,
anti-oxidation and
anti-corrosion joint
compound, used for
intermediate transition connections
of aluminum, aluminum alloy cables and
copper cables
Mold: Weather resistant/Outdoor rating per
UL746C/UL94 Flame-retardant/ 90° C rated

Our innovative CU-AL Junction Cable, an exceptional tool designed for seamlessly connecting string harnesses to combiner boxes or string inverters. This cutting-edge Electrical Balance of System (EBOS) solution is compatible with the Trunk connector, enhancing efficiency and reliability in your solar energy system.

- ◆ Customized design to accommodate site layouts
- ◆ Significantly reduce the overall project budget
- ◆ Prevents increased oxidation from dissimilar metal surface contacts
- ◆ Minimizes copper usage by utilizing cost-efficient aluminum materials
- ◆ IP68 overmold protects components from environmental damage

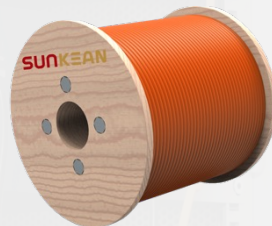
Energy Storage Connection Solution

SUNKEAN provides one-stop solutions for customer needs, simplifying the installation process, improving installation efficiency, and saving labor costs.



Battery Pack
(Energy storage core)

Energy Storage Cable



Specially designed for energy storage power generation systems.

- Pure copper conductors.
- High stability.
- High flexibility, optional terminals.

Energy Storage Harness



The Energy Storage Harness enables efficient power transfer, enhances system stability, and ensures reliable operation of energy storage systems in renewable energy applications.

- Strict quality control and high quality standard
- Low price and good value for money
- High quality-price ratio

Energy Storage Cable



UL10269

**Voltage:**

1000V

Conductor:

Tinned copper or Copper (24AWG~4/0AWG)

According to:

UL758, UL1581

UL11627

**Voltage:**

2000V

Conductor:

Tinned copper or Copper (24AWG~4/0AWG)

According to:

UL758, UL1581

UL3817

**Voltage:**

3000V

Conductor:

Tinned copper or Copper (24AWG~4/0AWG)

According to:

UL758, UL1581

UL3932

**Voltage:**

2000V

Conductor:

Tinned copper or Copper (24AWG~4/0AWG)

According to:

UL758, UL1581

SUNKEAN Achieves Full-Series Certifications for Energy Storage Solutions. Models Include:
UL1015, UL1283, UL1284, UL10070, UL10269, UL11627, UL3173, UL3266, UL3271, UL3266, UL3271, UL3289,
UL3321, UL3666, UL3816, UL3817, UL3820, UL3932, UL3994

Energy Storage Cable



ESL10Z3-K/H

Voltage:

$U_0/U(U_m)$ 1.0 / 1.0(1.2) kV

Conductor:

Tinned copper or Copper (4mm²~240mm²)

According to:

TÜV 2PFG 2963



ESL15Z3-K/H

Voltage:

$U_0/U(U_m)$ 1.5 / 1.5(1.8) kV

Conductor:

Tinned copper or Copper (4mm²~240mm²)

According to:

TÜV 2PFG 2963



ESP/L10Z3Z3-K/H SM-R DH-R

Voltage:

2000V

Conductor:

Tinned copper or Copper (4mm²~240mm²)

According to:

TÜV 2PFG 2963



ESP/L15Z3Z3-K/H SM-R DH-R

Voltage:

$U_0/U(U_m)$ 1.5 / 1.5(1.8) kV

Conductor:

Tinned copper or Copper (4mm²~240mm²)

According to:

TÜV 2PFG 2963



Energy Storage Harness



Cable Size	Connector	System Voltage	Operating Temperature	Flame test
4mm ² ~150mm ² (24AWG~4/0AWG)	Amphenol	L: 300V H: 3000V	-40°C~ +125°C	VW-1/ FT 1/ FT 2

Harness Packing Procedure



Corner protection

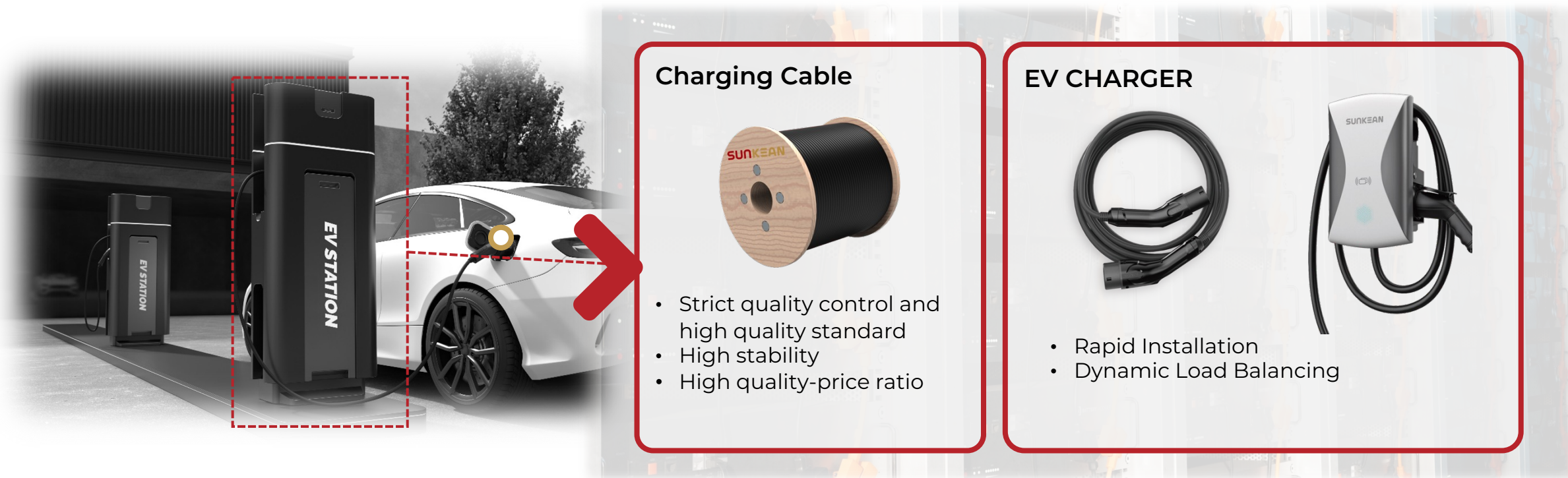
All-around
protective straps



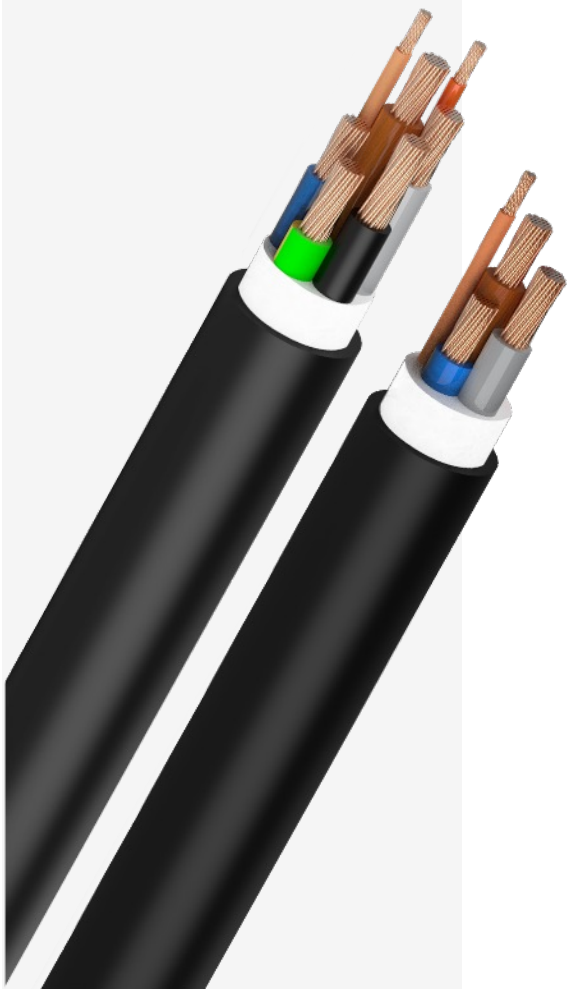
Plank protection for
heavy load

Charging Connection Solution

In addition to specializing in the research and development of photovoltaic and energy storage cables, SUNKEAN has never stopped pioneering and innovating in the field of charging cables.



EV Charing Cable



62893 IEC 121 / EVC H05Z5-F

Voltage:

AC U_0/U 300 / 500 V

Conductor:

Copper ($3 \times 1.5 \sim 2.5 \text{ mm}^2 + 1 \sim 2 \times 0.5$)

According to:

IEC 62893 / EN 50620



62893 IEC 121 / EVC H07Z5-F

Voltage:

AC U_0/U 450/750 V

Conductor:

Copper ($3 \sim 5 \times 1.5 \sim 35 \text{ mm}^2 + 1 \sim 2 \times 0.5$)

According to:

IEC 62893 / EN 50620



GB/T33594 EV-EYU

Voltage:

AC U_0/U 450/750 V

Conductor:

Tinned copper or Copper
($3 \times 1.5 \sim 16 \text{ mm}^2 + 1 \sim 10 \times 0.5 \sim 1.0$,
 $5 \times 2.5 \sim 35 \text{ mm}^2 + 1 \sim 10 \times 0.5 \sim 1.0$)

According to:

GB/T33594

GB/T33594 EV-EYS90

Voltage:

AC U_0/U 450/750 V

Conductor:

Tinned copper or Copper
($3 \times 1.5 \sim 16 \text{ mm}^2 + 1 \sim 10 \times 0.5 \sim 1.0$,
 $5 \times 2.5 \sim 35 \text{ mm}^2 + 1 \sim 10 \times 0.5 \sim 1.0$)

According to:

GB/T33594

Enduring Reliability & Quality Guaranteed

Protect the rights and interests of customers.

All products insured by
Top insurance company



中国人民保险

The People's Insurance
Company (Group) of China Limited

- Body injury
- Property damage
- Freight transport

.....

产品责任保险 (1995版) 保险单
PRODUCTS LIABILITY INSURANCE POLICY'S SCHEDULE
保单号/Policy No.: PCA199223202009000012

被保险人/Policy Holder
被保险人名称/Insured Name: 无锡尚德 (无锡) 有限公司
被保险人地址/Address: 无锡市新吴区长江南路11号
被保险人营业性质/Industry: 太阳能光伏产品 (光伏组件)

保险范围/Protection Information
产品名称及规格/Name and Specification: 太阳能电池板
数量/Quantity: 70,000,000
销售地/Place of Sale: 江苏省 (无锡、常州等)

责任限额/Limits of Liability & Deductible
每次事故赔偿限额/Per Occurrence Limit: 人民币 100,000,000 元
累计赔偿限额/Cumulative Limit: 人民币 100,000,000 元
免赔额/Deductible: 人民币 100,000 元

保费/Premium
保费/Premium: 人民币 100,000 元
保费币种/Currency: 人民币

追溯期/Retrospective Date
追溯期/Retrospective Date: 自2009年1月1日起

保险期限/Period of Insurance
保险期限/Period of Insurance: 自2009年1月1日起至2010年12月31日止

管辖权/Jurisdiction
管辖权/Jurisdiction: 江苏省 (无锡、常州等)

25 Years Lifetime
warranty (PV Cable)

SUNKEAN
WUXI SUN KING ENERGY TECHNOLOGY CO., LTD.
SUNKEAN CABLE CO., LTD.
Add: NO.17-8, SOUTH CHANGJIANG ROAD XINWU DISTRICT, WUXI, CHINA
Tel: 0510-81083036 Fax: 0510-81083035
Website: www.sunkean.com

Warranty Certificate

This certificate guarantees 25 years warranty of the solar cable & assembly cable sold by Wuxi Sun King Energy Technology Co., Ltd. Or SUNKEAN Cable Co., Ltd. (hereinafter referred to as "SUNKEAN") will not have quality problems such as surface aging, cracking, disconnection. The warranty is valid for all customers from the date of delivery.

During the warranty period, if there's any damage or malfunction other than the above described, after determined by a third party inspection organization as quality problem, SUNKEAN will replace the product for customers. The certificate states that under any circumstances, SUNKEAN only guarantee on the product itself. If a replacement occurs during the warranty period, the warranty term will be automatically transferred to the new product. However, the 25-year warranty is still valid from the initial delivery date.

This warranty does not apply to the product is damaged due to the following direct or indirect causes described below, even within the warranty period.

1. Due to improper installation or maintenance methods.
2. Improper use, improper storage or accidental damage.
3. It is caused by the change or displacement of the building or the ground itself, or by condensation or corrosion of underground materials.
4. Breakdowns and damage caused by wars, riots, natural disasters (lightning strikes, flooding, snow, etc.).
5. Caused by pollution.
6. Damaged due to extreme weather and other natural disasters, such as power failure, abnormal voltage, lightning strike, fire, earthquake, explosion, flood, etc.

This warranty is only valid for customers who have purchased solar cables from our company.

This warranty cannot be transferred to anyone other than the owner.

After the expiration of the warranty period, it will be deemed invalid.

In addition, in any case, SUNKEAN is only responsible for and compensates for the product itself. However, the upper limit of the compensation amount is the total amount at the time of product purchase. Please note that we are not responsible for any direct or indirect damage caused by usage.

WUXI SUN KING ENERGY TECHNOLOGY CO., LTD.
SUNKEAN CABLE CO., LTD.

Projects

SUNKEAN connects reliable future

04.

Projects Display

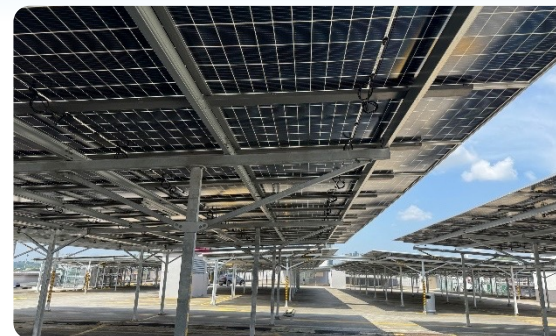
So far, SUNKEAN has participated in over 1500 overseas projects, spanning 50+ countries, with a total capacity exceeding 50 GW.



700kW, Eastern Madagascar
Solar cable



23MW, Malaysia
Scientex Great Wall Ipoh
Solar cable



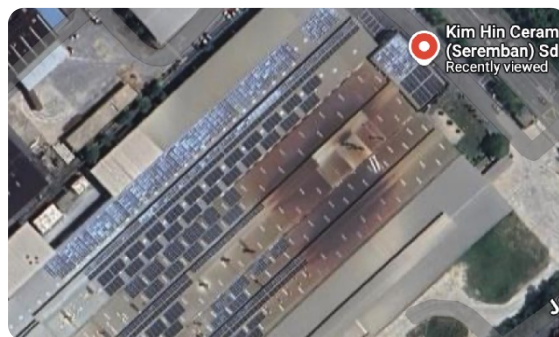
3MW, Malaysia
AEON cheras selatan
Solar cable



1.75MW, Malaysia
Menicon
Solar cable



4.2MW, Malaysia
KJM Aluminium
Solar cable



3.14MW, Malaysia
Kim Hin Seremban
Solar cable



13MW, Japan
Chiba
Solar cable



4.49MW, Japan
Kanagawa
Solar cable

Projects Display



95.2MW, Chile
Valparaíso Region
Solar cable



72.4MW, Japan
Himeji Hyōgo
Solar cable



41MW, Japan
Miyahi
Solar cable



42.3MW, Japan
Fukushima
Solar cable



147MW, Japan
Onikobe Miyagi
Solar cable



7.6MW, South Auckland
DC Solar cable



13MW, Malaysia
Beaufort
Solar cable



13MW, Chile
Borough of Maria Pinto
Solar cable

Projects Display



1200MW, USA
Papago
Energy storage cable & Connector



800MW, China
Qingdao
Energy storage cable & Connector



350MW, USA
Crimson
Energy storage cable & Connector



200MW, China
Ningxia
Energy storage cable & Connector



250MW, USA
Borden county
Energy storage cable & Connector



480MW, Australia
Summerfield
Energy storage cable & Connector

KEEP IN TOUCH

LANDLINE

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WEBSITE

www.sunkean.com

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星大洋净化科技
(无锡)有限公司

旺庄街道办

无锡优洁科技
有限公司

无锡市欣发家用电器
配件有限公司

锡美饮料

旺庄智能
制造产业园

无锡市万力粘合
材料股份有限公司

SUNKEAN CABLE CO., LTD.

万力研发中心

无锡技研机电
有限公司

无锡苏宁小店商贸有
限公司小天鹅工厂店

帝业技凯精密
工业公司

THANK YOU !

SUNKEAN

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PRODUCTS ***CATALOGUE***

SUNKEAN.com

About Us

SUNKEAN

Founded in 2013 and headquartered in Wuxi, Jiangsu, SUNKEAN specializes in providing sustainable energy connection solutions to global customers. Expanding to international markets in 2015, the SUNKEAN brand has gained widespread recognition in Japan, Australia, Europe, and the United States. In 2017, SUNKEAN began mass production of cables and established a branch office in Tokyo in 2018. Additionally, we have built warehouses and distribution networks in Australia, Southeast Asia, Europe, and the United States, achieving a complete cycle of product development, production, sales, and localized after-sales service.

As of 2024, SUNKEAN employs over 200 people and operates a production facility covering nearly 20,000 square meters. Recognized as a National High-Tech Enterprise and a Specialized and New Enterprise in Jiangsu Province, our factory is equipped with advanced integrated production lines and comprehensive testing equipment. Our main products include cables, wire harnesses, and related connectors for the photovoltaic, energy storage, and charging sectors. Our monthly production capacity reaches 20,000 kilometers of cables and 200,000 sets of wire harnesses. We have obtained certifications such as UL, ETL, cUL, TUV, S-JET, PSE, CCC, CPR, CE, RETIE, and RoHS, and have passed quality management system certifications like ISO9001, ISO14001, and IATF16949. Furthermore, we have implemented visual management of production data, strictly adhering to industry standards while setting higher SUNKEAN quality benchmarks.

Looking ahead, SUNKEAN will continue to focus on customer needs, increasing investment in R&D and expanding production capacity. We are committed to providing safer, greener, more efficient, and more economical energy connection solutions, leading industry innovation and development. We look forward to partnering with you to create a sustainable energy future together!

60+

Intellectual
property

60+

Product
certificate

15+

Core team's years
of experience

50+

Global customer
distribution

Product Certificate

SUNKEAN



TÜV EN50618
single core cable



IEC62930
single core cable



TÜV EN50618
twin core cable



IEC62930
twin core cable



CPR certified
HIZ222-K cable



TÜV 2PFG 2642 cable



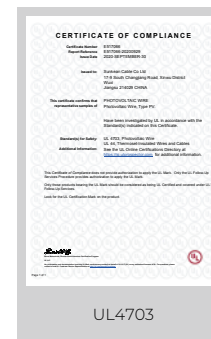
H05V-K/H07V-K



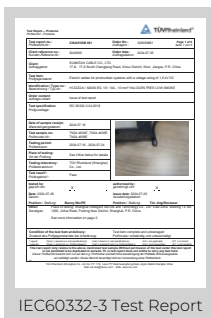
NYY cable



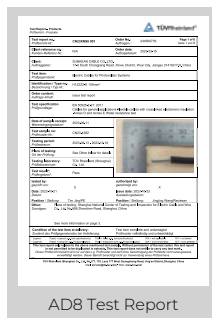
CE certified
HIZ222-K single
core cable



UL4703



IEC60332-3 Test Report



AD8 Test Report



ETL



TÜV 2PFG 2693



UL758

62930 IEC131/H1Z2Z2-K (Single Core)

SUNKEAN



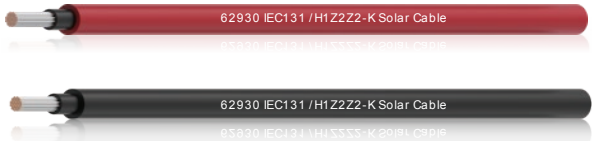
UV resistance



Ozone resistance



Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Voltage Rating: DC 1500V

Test Voltage: 6500V AC

Reference Standard:

EN50618 & IEC62930

Temperature Rating:

Rated: -40°C to +90°C

Max.conductor temp: +90°C (Max. of 20000 hours at +120°C)

Min. Bending Radius:

Fixed installation 5x cable Ø

Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	1.6	0.7	0.8	4.60±0.15	13.7
2.5	2.0	0.7	0.8	5.10±0.15	8.21
4	2.4	0.7	0.8	5.50±0.15	5.09
6	3.0	0.7	0.8	6.10±0.15	3.39
10	4.0	0.7	0.8	7.20±0.20	1.95
16	5.5	0.7	0.9	8.80±0.20	1.24
25	6.8	0.9	1.0	10.80±0.30	0.795
35	8.1	0.9	1.1	12.40±0.50	0.565
50	9.8	1.0	1.2	14.20±0.50	0.393
70	11.6	1.1	1.2	16.40±0.80	0.277
95	13.3	1.1	1.3	18.50±0.80	0.210
120	15.2	1.2	1.3	20.60±1.00	0.164
150	16.8	1.4	1.4	23.10±1.00	0.132
185	18.9	1.6	1.6	25.40±1.20	0.108
240	21.6	1.7	1.7	28.30±1.20	0.0817

62930 IEC131/H1Z2Z2-K (Twin Core)

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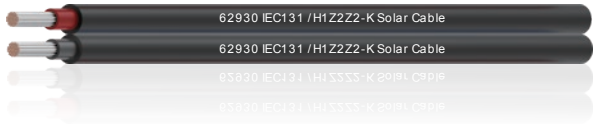
UV resistance



Ozone resistance



Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Voltage Rating: DC 1500V

Test Voltage: 6500V AC

Reference Standard:

EN50618 & IEC62930

Temperature Rating:

Rated: -40°C to +90°C

Max.conductor temp: +90°C (Max. of 20000 hours at +120°C)

Min. Bending Radius:

Fixed installation 5x cable Ø

Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	1.6	0.7	0.8	4.7×9.6	13.7
2.5	2.0	0.7	0.8	5.1×10.4	8.21
4	2.4	0.7	0.8	5.5×11.2	5.09
6	3.0	0.7	0.8	6.1×12.4	3.39
10	4.0	0.7	0.8	7.1×14.4	1.95
16	5.5	0.7	0.9	8.8×17.8	1.24
25	6.8	0.9	1.0	10.7×21.6	0.795
35	8.1	0.9	1.1	12.2×24.6	0.565

62930 IEC131/H1Z2Z2-K (AD8)

SUNKEAN



UV resistance



AD8 Waterproof Standard



Ozone resistance



Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Voltage Rating: DC 1500V

Test Voltage: 6500V AC

Reference Standard:

EN50618 & IEC62930

Temperature Rating:

Rated: -40°C to +90°C

Max.conductor temp: +90°C (Max. of 20000 hours at +120°C)

Min. Bending Radius:

Fixed installation 5x cable Ø

Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	1.6	0.7	0.8	4.60±0.15	13.7
2.5	2.0	0.7	0.8	5.10±0.15	8.21
4	2.4	0.7	0.8	5.50±0.15	5.09
6	3.0	0.7	0.8	6.10±0.15	3.39
10	4.0	0.7	0.8	7.20±0.20	1.95
16	5.5	0.7	0.9	8.80±0.20	1.24
25	6.8	0.9	1.0	10.80±0.30	0.795
35	8.1	0.9	1.1	12.40±0.50	0.565
50	9.8	1.0	1.2	14.20±0.50	0.393
70	11.6	1.1	1.2	16.40±0.80	0.277
95	13.3	1.1	1.3	18.50±0.80	0.210
120	15.2	1.2	1.3	20.60±1.00	0.164
150	16.8	1.4	1.4	23.10±1.00	0.132
185	18.9	1.6	1.6	25.40±1.20	0.108
240	21.6	1.7	1.7	28.30±1.20	0.0817

62930 IEC131/H1Z2Z2-K (Cca)

SUNKEAN



UV resistance



CPR Cca certified



Ozone resistance



Flame test IEC 60332-3



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Voltage Rating: DC 1500V

Test Voltage: 6500V AC

Reference Standard:

EN50618 & IEC62930, IEC60332-3 & EN50575

Temperature Rating:

Rated: -40°C to +90°C

Max.conductor temp: +90°C (Max. of 20000 hours at +120°C)

Min. Bending Radius:

Fixed installation 5x cable Ø

Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	1.6	0.7	0.8	4.60±0.15	13.7
2.5	2.0	0.7	0.8	5.10±0.15	8.21
4	2.4	0.7	0.8	5.50±0.15	5.09
6	3.0	0.7	0.8	6.10±0.15	3.39
10	4.0	0.7	0.8	7.20±0.20	1.95
16	5.5	0.7	0.9	8.80±0.20	1.24
25	6.8	0.9	1.0	10.80±0.30	0.795
35	8.1	0.9	1.1	12.40±0.50	0.565
50	9.8	1.0	1.2	14.20±0.50	0.393
70	11.6	1.1	1.2	16.40±0.80	0.277
95	13.3	1.1	1.3	18.50±0.80	0.210
120	15.2	1.2	1.3	20.60±1.00	0.164
150	16.8	1.4	1.4	23.10±1.00	0.132
185	18.9	1.6	1.6	25.40±1.20	0.108
240	21.6	1.7	1.7	28.30±1.20	0.0817

62930 IEC131/H1Z2Z2-K (Anti-rodent / termite)

SUNKEAN



UV resistance



Anti-rodent / termite



Ozone resistance



Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Voltage Rating: DC 1500V

Test Voltage: 6500V AC

Temperature Rating:

Rated: -40°C to +90°C

Max.conductor temp: +90°C (Max. of 20000 hours at +120°C)

Min. Bending Radius:

Fixed installation 5x cable Ø

Protection Mode	Cross Section (mm²)	Conductor Stranded O.D.(mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
Chemical Additive	4	2.41	0.7	1.0	6.01	5.09
	6	2.96	0.7	1.0	6.56	3.39
	10	3.95	0.7	1.0	7.55	1.95

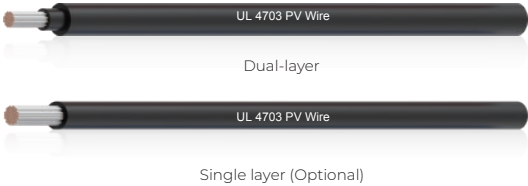
Protection Mode	Cross Section (mm²)	Conductor Stranded O.D.(mm)	Insulation Thickness (mm)	Nylon Thickness (mm)	Jacket Thickness (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
Nylon Layer	4	2.41	0.7	0.35	0.8	6.31	5.09
	6	2.96	0.7	0.35	0.8	6.86	3.39
	10	3.95	0.7	0.35	0.8	7.85	1.95

Protection Mode	Cross Section (mm²)	Conductor Stranded O.D.(mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Stainless Steel Shield Braid Density (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
Stainless Steel Shield Braid	4	2.41	0.7	0.8	80%	6.33	5.09
	6	2.96	0.7	0.8	80%	6.88	3.39
	10	3.95	0.7	0.8	80%	7.87	1.95

UL 4703 PV Wire



- UV resistant
- Rated for direct burial
- High flame retardant VW-1
- Low smoke halogen free
- Higher insulation resistance



⦿ Characteristics

Conductor: Bare or tinned copper, Aluminum (Optional)
Inner Layer: XLPO, Black or white
Out Layer: XLPO, Black, red or other colors
Testing Standard:
Test under fire conditions: UL1581 VW-1
Sunlight resistance: UL2556
Cold bend test: UL854

Temperature Rating: -40°C ~ +90°C
Nominal Voltage: 1000V or 2000V
Voltage Test On Completed Cable:
U=1000V or 2000V
18~10AWG, 6KV/min
8~2AWG, 7.5KV/min
1~4/0AWG, 9KV/min

Cross Section (AWG)	Conductor Stranded O.D. (mm)	Inner Layer Thickness (mm)	Outer Layer Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
14	1.8	1.14	0.76	5.80±0.30	8.62
12	2.4	1.14	0.76	6.40±0.30	5.43
10	3.0	1.14	0.76	7.00±0.30	3.41
8	3.7	1.39	0.76	8.20±0.30	2.14
6	4.3	1.39	1.14	9.60±0.30	1.35
4	5.5	1.39	1.14	10.80±0.30	0.848
3	6.1	1.39	1.14	11.50±0.30	0.673
2	6.9	1.39	1.14	12.30±0.30	0.534
1	7.7	1.65	1.52	14.30±0.30	0.423
1/0	8.6	1.65	1.52	15.20±0.50	0.335
2/0	9.6	1.65	1.52	16.30±0.50	0.266
3/0	10.7	1.65	1.52	17.30±0.50	0.211
4/0	12.1	1.65	1.52	18.80±0.50	0.167

Remark: Above are copper conductor parameters

TÜV 2PFG 2750 PV1500-WR (Floating)

SUNKEAN



Higher UV-stability



TÜV 2PFG 2750 floating PV certification



Higher water resistance



Higher mechanical stability



Higher insulation resistance



⦿ Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Black

Jacket: XLPO, Black

Rated Voltage: $U=1500\text{VDC}$

$U_0/U=1000\text{V}/1000\text{VAC}$

Max. Voltage: $U_m=1800\text{VDC}$

Test Voltage: $6.5\text{KVAC} / 5\text{min}$

Ambient Temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$

Max. Short Circuit Temp.: $250^\circ\text{C} / 5\text{s}$

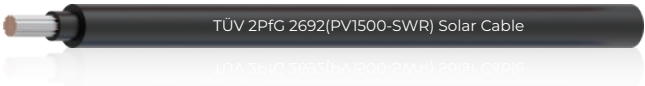
Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
2.5	2.0	0.7	0.8	5.10±0.15	8.21
4	2.5	0.7	0.8	5.50±0.15	5.09
6	3.0	0.7	0.8	6.10±0.15	3.39
10	4.0	0.8	0.8	7.20±0.20	1.95
16	5.5	0.9	0.9	9.10±0.30	1.24
25	6.8	1.0	1.0	10.80±0.50	0.795
35	8.1	1.1	1.1	12.50±0.50	0.565
50	9.8	1.2	1.2	14.60±0.50	0.393
70	11.6	1.2	1.2	16.40±0.50	0.277
95	13.3	1.3	1.3	18.50±0.80	0.210
120	15.2	1.3	1.3	20.40±0.80	0.164
150	16.8	1.4	1.4	22.40±0.80	0.132
185	18.9	1.6	1.6	25.30±1.20	0.108
240	21.6	1.7	1.7	28.40±1.20	0.0817
300	23.0	1.8	1.8	30.20±1.50	0.0654
400	26.8	2.0	2.0	34.80±1.50	0.0495

TÜV 2PFG 2962 PV1500-SWR (Offshore)

SUNKEAN



-  Higher UV-stability
-  TÜV 2PFG 2962 floating PV certification
-  Higher water resistance
-  Salt mist resistant
-  Mildew resistant
-  Acid and alkali resistant



⦿ Characteristics

Conductor: Tinned stranded copper
Insulation: XLPO, Black
Jacket: XLPO, Black

Rated Voltage: 1500VDC
Ambient Temperature: -40°C ~ +90°C

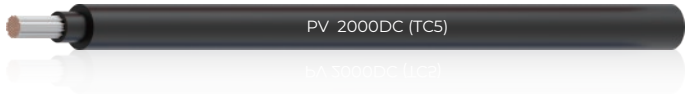
Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
2.5	2.0	0.8	0.8	5.20±0.15	8.21
4	2.5	0.8	0.8	5.60±0.15	5.09
6	3.0	0.8	0.8	6.20±0.15	3.39
10	4.0	0.8	0.8	7.20±0.20	2.00
16	5.5	0.9	0.9	9.10±0.30	1.24
25	6.8	1.0	1.0	10.80±0.50	0.795
35	8.1	1.1	1.1	12.50±0.50	0.565
50	9.8	1.2	1.2	14.60±0.50	0.393
70	11.6	1.2	1.2	16.40±0.50	0.277
95	13.3	1.3	1.3	18.50±0.80	0.210
120	15.2	1.3	1.3	20.40±0.80	0.164
150	16.8	1.4	1.4	22.40±0.80	0.132
185	18.9	1.6	1.6	25.30±1.20	0.108
240	21.6	1.7	1.7	28.40±1.20	0.0817
300	23.0	1.8	1.8	30.20±1.50	0.0654
400	26.8	2.0	2.0	34.80±1.50	0.0495

PV 2000DC(TC5) Solar Cable



Optional optimized conductor:

- Tinned copper
- Copper clad aluminum
- Aluminum



⦿ Characteristics

Conductor: Tinned copper
Insulation: XLPO
Jacket: XLPO
Nominal Voltage: 1500Vdc or 2000Vdc

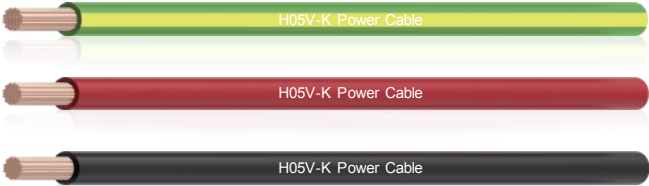
Temperature Rating: -40°C ~ +90°C
Max.Temperature at Conductor: 120°C
Flame Test: IEC60332-1
Reference Standard: PPP 58209A: 09.22

Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
2.5	2.0	1.1	0.8	5.80±0.20	8.21
4.0	2.4	1.1	0.8	6.30±0.20	5.09
6.0	3.0	1.1	0.8	6.80±0.20	3.39
10	4.0	1.1	0.8	7.80±0.20	1.95
16	5.5	1.1	0.9	9.50±0.30	1.24
25	6.8	1.15	1.0	11.10±0.30	0.795
35	8.1	1.15	1.1	12.60±0.50	0.565
50	9.8	1.25	1.2	14.70±0.50	0.393
70	11.6	1.35	1.2	16.70±0.80	0.277
95	13.3	1.35	1.3	18.60±0.80	0.210
120	15.2	1.45	1.3	20.70±1.00	0.164
150	16.8	1.65	1.4	22.90±1.00	0.132
185	18.9	1.85	1.6	25.80±1.20	0.108
240	21.6	1.95	1.7	28.90±1.20	0.0817

H07V-K Power Cable



-  Easy to peel
-  Easy to cut
-  High flexibility
-  Flame test EN 60332-1-2



⦿ Characteristics

Conductor: Stranded ,tinned or bare copper
conductor 0.5~1mm²
Insulation: PVC, Passed RoHS

Rated Temperature: 70°C
Rated Volatge: 450/750V
Standard: EN 50525-2-31

Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	1.6	0.70	3.10±0.15	13.3
2.5	2.0	0.80	3.70±0.15	7.98
4	2.6	0.80	4.30±0.15	4.95
6	3.2	0.80	4.90±0.15	3.30
10	4.2	1.00	6.30±0.20	1.91
16	5.6	1.00	7.70±0.20	1.21
25	7.0	1.20	9.60±0.30	0.780
35	8.2	1.20	10.80±0.50	0.554
50	10.0	1.40	13.00±0.50	0.386
70	11.9	1.40	15.00±0.50	0.272
95	13.7	1.60	17.20±0.50	0.206
120	15.5	1.60	19.00±0.50	0.161

TÜV 2PFG 2642 Aluminum (Single Core)

SUNKEAN



UV resistance



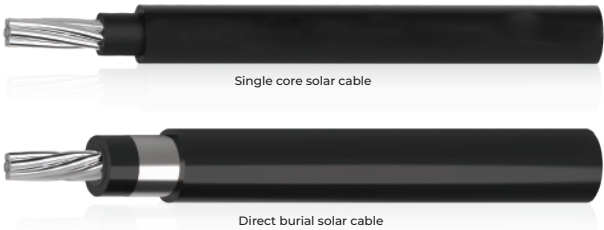
Ozone resistance



Suitable for direct burial(Armored)



More economical



⦿ Characteristics

Conductor Material: IEC 60228 Class 2 aluminium alloy wire

Rated voltage: AC U₀/U_i 1.0/1.0 kV

Insulation Material: XLPO

DC U₀/U_i (U_m) 1.5/1.5(1.8) kV

Cover: XLPO

Ambient temperature: -40°C ~ +90°C

Armour: Steel tapes

Standard: 2PFG 2642 /01.22

Jacket Material: XLPO

Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Cover Sheath Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
10	4.0	0.8	1.5	12.00±0.80	3.08
16	5.0	0.9	1.5	13.20±0.80	1.91
25	6.0	1.0	1.5	14.50±1.00	1.20
35	7.0	1.1	1.5	15.70±1.00	0.868
50	8.3	1.2	1.5	17.20±1.00	0.641
70	10.0	1.2	1.5	19.00±1.20	0.443
95	11.6	1.3	1.6	21.00±1.20	0.320
120	13.0	1.3	1.6	22.40±1.20	0.253
150	14.5	1.4	1.7	24.30±1.20	0.206
180	16.0	1.6	1.7	26.20±1.20	0.164
240	18.4	1.7	1.8	29.40±1.20	0.125
300	20.5	1.8	1.9	32.30±1.50	0.100
400	23.5	2.0	2.0	35.90±1.50	0.0778

Remark: Above are Class 2 conductor armored parameters

TÜV 2PFG 2642 Aluminum (Twin Core)

SUNKEAN



UV resistance



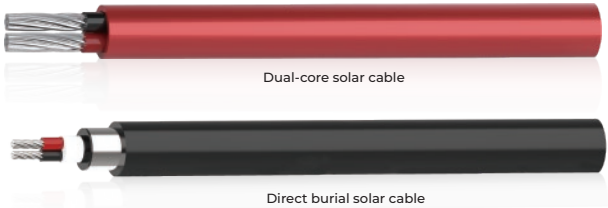
Ozone resistance



Suitable for direct burial(Armored)



More economical



⦿ Characteristics

Conductor Material: IEC 60228 Class 2 aluminium alloy wire

Insulation Material: XLPO

Cover: XLPO

Armour: Steel tapes

Jacket Material: XLPO

Rated voltage: AC U₀/U 1.0/1.0 kV

DC U₀/U (U_m) 1.5/1.5(1.8) kV

Ambient temperature: -40°C ~ +90°C

Standard: 2PFG 2642 /01.22

Cross Section (mm ²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Cover Sheath Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
10	4.0	0.8	1.8	18.80±1.00	3.08
16	5.0	0.9	1.8	21.20±1.00	1.91
25	6.0	1.0	1.8	23.60±1.00	1.20
35	7.0	1.1	1.8	26.00±1.20	0.868
50	8.3	1.2	1.8	29.00±1.20	0.641
70	10.0	1.2	1.9	33.20±1.50	0.443
95	11.6	1.3	2.0	38.70±1.50	0.320
120	13.0	1.3	2.2	42.30±1.50	0.253
150	14.5	1.4	2.3	45.90±1.50	0.206
180	16.0	1.6	2.5	50.50±1.50	0.164
240	18.4	1.7	2.6	56.50±1.80	0.125
300	20.5	1.8	2.8	61.50±2.50	0.100
400	23.5	2.0	3.1	69.20±2.50	0.0778

Remark: Above are Class 2 conductor armored parameters



⦿ Characteristics

Rated Voltage:

35kV

Conductor Material:

Aluminium(Stranded water swellable fibre filling)

Insulation Material:

XLPE /TR-XLPE

Conductor and Insulating Shield Material :

Semi-conductive XLPO

Concentric Neutral Conductor Material:

Bare Copper Round Wire with Water Swellable

Sheath Material:

LLDPE

Maximum Conductor Temperature:

MV-90: 90°C, MV105: 105°C

Reference Standard:

UL 1072

100% Insulation Levels (345 mil)

Cross Section (AWG or kcmil)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
4/0	12.8	8.76	2.03	42.2	0.2743
500	19.6	8.76	2.79	52.1	0.1161
750	24.1	8.76	2.79	57.0	0.0773
1000	27.8	8.76	2.79	60.8	0.05804
1250	31.2	8.76	2.79	64.2	0.04643



UV resistance



Ozone resistance



Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Tinned copper

Insulation: XLPO, Black & red & yellow/green or other colors

Outer Sheath: XLPO, Black

Rated Voltage: 450/750V

Test Voltage: 6KVAC / 5min

Operating Temperature: -40°C ~ +90°C

Max. Conductor Temp: 120°C

Conductor No.	Cross Section (mm²)	Conductor O.D. (mm)	Insulation Thickness (mm)	Jacket Insulation (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
3	2.5	2.0	0.8	1.02	10.30±0.50	8.21
	4.0	2.5	0.8	1.16	11.70±0.50	5.09
	6.0	3.0	0.8	1.32	13.00±0.50	3.39
	10.0	4.0	0.8	1.60	15.80±0.50	1.95
4	2.5	2.0	0.8	1.15	11.50±0.50	8.21
	4.0	2.5	0.8	1.30	13.00±0.50	5.09
	6.0	3.0	0.8	1.48	14.60±0.50	3.39
	10.0	4.0	0.8	1.79	17.60±0.50	1.95
5	2.5	2.0	0.8	1.28	12.80±0.50	8.21
	4.0	2.5	0.8	1.46	14.50±0.50	5.09
	6.0	3.0	0.8	1.65	16.20±0.50	3.39
	10.0	4.0	0.8	2.00	19.60±0.50	1.95



UV resistance



Oil resistant



Direct burial



Flame test FT4, VW-1



⦿ Characteristics

Rated voltage: 600V

Conductor: Multiple strands soft annealed copper wire

Insulation Material: XLPE

Number of cores: ≥2

Jacket: XLPO

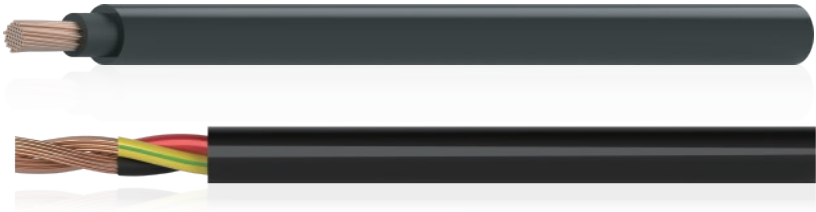
Maximum conductor temperature: -40°C ~ +90°C

Reference Standard: UL 1277 / UL 44

Conductor No.	Cross Section (AWG)	Conductor Stranded O.D.(mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Range (mm)	Conductor Resistance Max(Ω/km, 20°C)
2	18	1.17	0.76	1.14	8.20±0.50	21.80
	16	1.50	0.76	1.14	8.80±0.50	13.70
	14	1.90	0.76	1.14	9.60±0.50	8.62
	12	2.36	0.76	1.14	10.60±0.50	5.43
	10	3.00	0.76	1.14	12.00±0.50	3.409
3	18	1.17	0.76	1.14	8.60±0.50	21.80
	16	1.50	0.76	1.14	9.30±0.50	13.70
	14	1.90	0.76	1.14	10.20±0.50	8.62
	12	2.36	0.76	1.14	11.20±0.50	5.43
	10	3.00	0.76	1.14	12.70±0.50	3.409
4	18	1.17	0.76	1.14	9.30±0.50	21.80
	16	1.50	0.76	1.14	10.20±0.50	13.70
	14	1.90	0.76	1.14	11.20±0.50	8.62
	12	2.36	0.76	1.14	12.30±0.50	5.43
	10	3.00	0.76	1.14	14.70±0.50	3.409
5	18	1.17	0.76	1.14	10.10±0.50	21.80
	16	1.50	0.76	1.14	11.00±0.50	13.70
	14	1.90	0.76	1.14	12.20±0.50	8.62
	12	2.36	0.76	1.14	13.40±0.50	5.43
	10	3.00	0.76	1.14	15.90±0.50	3.409



- Easy to peel
- Easy to cut
- Direct-burial
- EN 60332-1-2



⦿ Characteristics

Conductor: Bare copper wire
Core Insulation: PVC
*Filling compound around stranded cores
Outer Sheath Material: PVC
Conductor stranding: Single or multi-wire
Core Identification Code:
≤ 5 cores: differentiated by color
≥ 6 cores: Black, numbered in white
Minimum Bending Radius:
Single-core: 15 x outer diameter
Multi-core: 12 x outer diameter

Nominal Voltage:
 U_0/U : 0.6/1.0 kV
Test Voltage:
4000 V
Protective Conductor:
J = with GN-YE protective conductor
O = without protective conductor
Temperature Range:
During installation: -5°C to +50°C
Fixed installation: -40°C to +70°C

Conductor No.	Cross Section (mm²)	Conductor O.D. (mm)	Insulation Thickness (mm)	Jacket Insulation (mm)	Cable O.D. Range (mm)	Conductor Resistance Max (Ω/km, 20°C)
1	25	7.0	1.2	1.4	12.60±0.50	0.780
	35	8.2	1.2	1.4	13.80±0.50	0.554
	50	10.0	1.4	1.5	16.20±0.50	0.386
	70	11.9	1.4	1.5	18.20±0.80	0.272
3	25	7.0	1.2	1.8	24.60±1.00	0.780
	35	8.2	1.2	1.83	27.30±1.20	0.554
	50	10.0	1.4	2.0	32.70±1.20	0.386
	70	11.9	1.4	2.14	37.00±1.50	0.272
5	25	7.0	1.2	1.92	30.00±1.00	0.780
	35	8.2	1.2	2.04	33.60±1.20	0.554
	50	10.0	1.4	2.25	40.00±1.20	0.386
	70	11.9	1.4	2.43	45.60±1.50	0.272

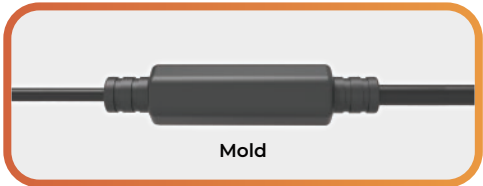
CU-AL Junction Cable



Our innovative CU-AL Junction Cable, an exceptional tool designed for seamlessly connecting string harnesses to combiner boxes or string inverters. This cutting-edge Electrical Balance of System (EBOS) solution is compatible with the Trunk connector, enhancing efficiency and reliability in your solar energy system.

Advantage

- Extension connects harnesses to combiner boxes
- Customized design to accommodate site layouts
- Significantly reduce the overall project budget
- Prevents increased oxidation from dissimilar metal surface contacts
- Minimizes copper usage by utilizing cost-efficient aluminum materials
- IP68 overmold protects components from environmental damage



Construction

Joint: 35kV-rated with anti-oxidation and anti-corrosion joint compound

Mold: Weather resistant

Outdoor rating per UL746C

UL94 Flame-retardant

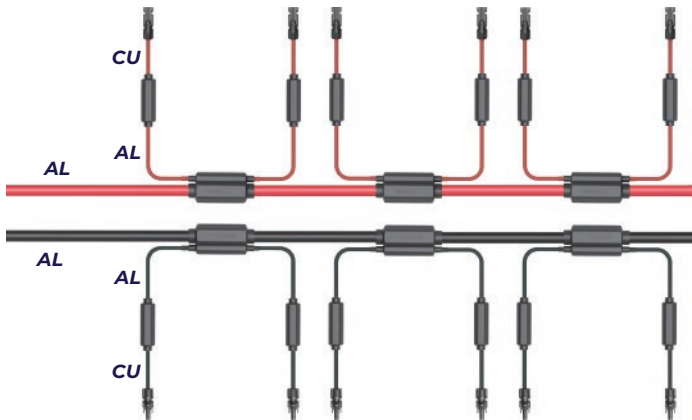
90°C rated



Copper AWG	#12	#10	#8	#10	#8	#6	#10	#8	#6
Aluminum AWG	#6	#6	#8	#4	#4	#4	#2	#2	#2

Trunk Connector

SUNKEAN



It is an innovative all-in-one trunk bus system that provides stable power transmission from solar panels to the utility power collection system. It reduces the Capex and increases the ROI of a utility scale solar installation.

Advantages

- Hi-tech sealing technology
- Excellent waterproof performance
- Plug and play - easy to install
- Reduce material waste & labor cost
- IP68
- TPV material

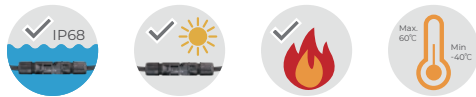


Technical Data

Voltage Rating	1500V DC
Max Trunk Isc.	845A for 1000MCM
Strings Per Mold	Customized according to needs, usually 6 ~ 7 strings
Size Of String Wire	10AWG, 8AWG, 6AWG, 4AWG, 2AWG
Work Environment	Temperature range: -40 C ~ +60 C , Humidity range: 5% ~ 95%
Max Ambient Temperature	50 C
Over Voltage Category/Pollution Degree	CATIII/3
Flame Rating	UL94-5VA
Safety Degree	II
Application	Outdoor use, UV Resistant(FI)

String Harness

SUNKEAN



We offer individual cable solutions for professional and safe cabling.

Pre-assembled solutions ensure consistently high levels of quality and speed up assembly.

Advantages

- Hi-tech sealing technology
- Appearance patent
- TPV material
- IP68
- Easy to install
- Reduce material consumption & labor costs
- ETL certified to UL9703, cert.No.: 5024311



Parameters Data

Product Type	Cable	Connector	Voltage	Fuse Rating
S-I: I junction	2.5mm ² /14AWG	TE PV4-S	L: 1000V	1A
S-T: T junction	4mm ² /12AWG	STAUBLI MC4	H: 1500V	2A
S-X: X junction	6mm ² /10AWG	STAUBLI MC4-EVO2		3A
S-Y: Y junction	10mm ² /8AWG	AMPHENOL H4S		...
S-3 to 1: 3 to 1 junction	16mm ² /6AWG	QC4.10 Plus		25A
S-4 to 1: 4 to 1 junction	25mm ² /2AWG	TLIAN T4		...
S-5 to 1: 5 to 1 junction		TRINA TS4		max 80A
S-6 to 1: 6 to 1 junction		JINKO JK03M2		
		LONGI PV-LR5		
		TONGLIN TL-CABLE01S		

In-line Fuse Assembly 1500V DC

SUNKEAN



SUNKEAN In-line Fuse Assembly is made of high-quality weather-resistant materials and mold-sealed manufacturing process to ensure long-term reliability. They can be installed on site. Low contact resistance and high current transfer capability ensure high production efficiency. With IP68 waterproof rating, it can be used in a wide operating temperature range.

Technical Data

Nominal Voltage	1500V DC
Interrupting Ratings	50kA
Fuse-link	Standard Ref. to: UL248-19, IEC 60269-6
Insulation Material	Special-Hotmelt, UV-stable, IP68 (please take note of connector's IP-protection)
Flame Class	Self-extinguishing UL94-5VA
Working Environment	Temperature range: -40°C~ +60°C, Humidity range: 5% ~ 95%
Over Voltage Category/Pollution Degree	CATIII/3
Safety Degree	II

Product Type	Fuse Voltage	Fuse Current	Cable Spec	Connector
S-I...VI: Fuse Holder	1000V DC	1-32A (10x85mm) 10-50A (14x85mm) 60A (24x65mm) 70A (24x65mm) 80A (24x65mm)	3.5mm² 5.5mm² 4mm²/12AWG 6mm²/10AWG 10mm²/8AWG 16mm²/6AWG	TE PV4-S STAUBLI MC4 STAUBLI MC4-EVO2 AMPHENOL H4S QC4.10 Plus TLIAN T4 TRINA TS4 JINKO JK03M2 LONGI PV-LR5 TONGLIN TL-CABLE01S

Jumper & Whip



Jumper



Whip



⦿ Characteristics

Cable Insulation Material: Double XLPO
Cable Conductor: Bare or tinned copper, Aluminum (Optional)
Connector Material: PC/PA/PPE
Rated Current: TÜV 30A /UL 20A
Rated Voltage: 1000V ~ 1500V DC
Contact Resistance: ≤ 0.5mΩ
Ambient Temp: -40°C ~ +90°C

Plug Force: ≤50N
Withdraw Force: ≥50N
IP Level: IP68
Safety Class: II
Flame Class: UL94-V0
Cable Size: Solar cable 4mm²/12AWG, 6mm²/10AWG

⦿ Optional connector model

TE PV4-S	STAUBLI MC4-EVO2	QC4.10 Plus	TRINA TS4	LONGI PV-LR5
STAUBLI MC4	AMPHENOL H4S	TLIAN T4	JINKO JK03M2	TONGLIN TL-CABLE01S

Remark : Customized length is acceptable.



Table of Recognized Styles	Connector Type	System Voltage	Operating Temperature	Flame Test
UL11627 UL10269 UL3932 UL3820 UL3817 UL3816 UL3666 TÜV 2PFG 2693	Amphenol®	L: 300V H: 3000V	-40°C ~ +125°C	VW-1/ FT 1/ FT 2



-  Oil resistant
-  Acid and alkali resistant
-  Hydrolysis resistance
-  Flame test IEC 60332-1-2



⦿ Characteristics

Conductor: Copper
Insulation: EVI-2
Jacket: EVM-1

Rated Voltage: AC 450/700V
Operating Temperature: -40°C ~ +90°C
Flame Test: IEC/EN 60332-1-2

Cross Section (mm²)	Conductor Stranded O.D. (mm)	Insulation Thickness (mm)	Jacket Thickness (mm)	Cable O.D. Ref. Range (mm)	Conductor Resistance Max. (Ω/km, 20°C)
3×1.5+1×0.5	1.6	0.7	1.0	9.20±0.60	13.3
3×1.5+2×0.5	1.6	0.7	1.0	9.20±0.60	13.3
3×2.5+1×0.5	2.0	0.7	1.0	10.00±0.60	7.98
3×2.5+2×0.5	2.0	0.7	1.0	10.00±0.60	7.98
3×4+1×0.5	2.6	0.7	1.1	11.50±0.60	4.95
3×4+2×0.5	2.6	0.7	1.1	11.50±0.60	4.95
3×6+1×0.5	3.2	0.7	1.2	13.00±0.80	3.30
3×6+2×0.5	3.2	0.7	1.2	13.00±0.80	3.30
3×10+1×0.5	4.5	0.7	1.4	16.20±0.80	1.91
3×10+2×0.5	4.5	0.7	1.4	16.20±0.80	1.91
3×16+1×0.5	5.5	0.7	1.5	18.60±0.80	1.21
3×16+2×0.5	5.5	0.7	1.5	18.60±0.80	1.21
5×1.5+1×0.5	1.6	0.7	1.2	11.20±0.80	13.3
5×1.5+2×0.5	1.6	0.7	1.2	11.20±0.80	13.3
5×2.5+1×0.5	2.0	0.7	1.2	12.30±0.80	7.98
5×2.5+2×0.5	2.0	0.7	1.2	12.30±0.80	7.98
5×4+1×0.5	2.6	0.7	1.3	14.10±0.80	4.95
5×4+2×0.5	2.6	0.7	1.3	14.10±0.80	4.95
5×6+1×0.5	3.2	0.7	1.4	16.00±1.00	3.30
5×6+2×0.5	3.2	0.7	1.4	16.00±1.00	3.30
5×10+1×0.5	4.5	0.7	1.5	19.60±1.00	1.91
5×10+2×0.5	4.5	0.7	1.5	19.60±1.00	1.91
5×16+1×0.5	5.5	0.7	1.7	22.80±1.20	1.21
5×16+2×0.5	5.5	0.7	1.7	22.80±1.20	1.21



System capacity: 60MW
Shimane, Japan



System capacity: 95.2MW
Chile



System capacity: 42.3MW
Japan



System capacity: 50MW
Japan



System capacity: 1200MW
USA



System capacity: 50MW
Japan



System capacity: 7MW
Beaufort, Sabah Malaysia



System capacity: 3MW
AEON carport, Malaysia



SUNKEAN CONNECTS RELIABLE FUTURE

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