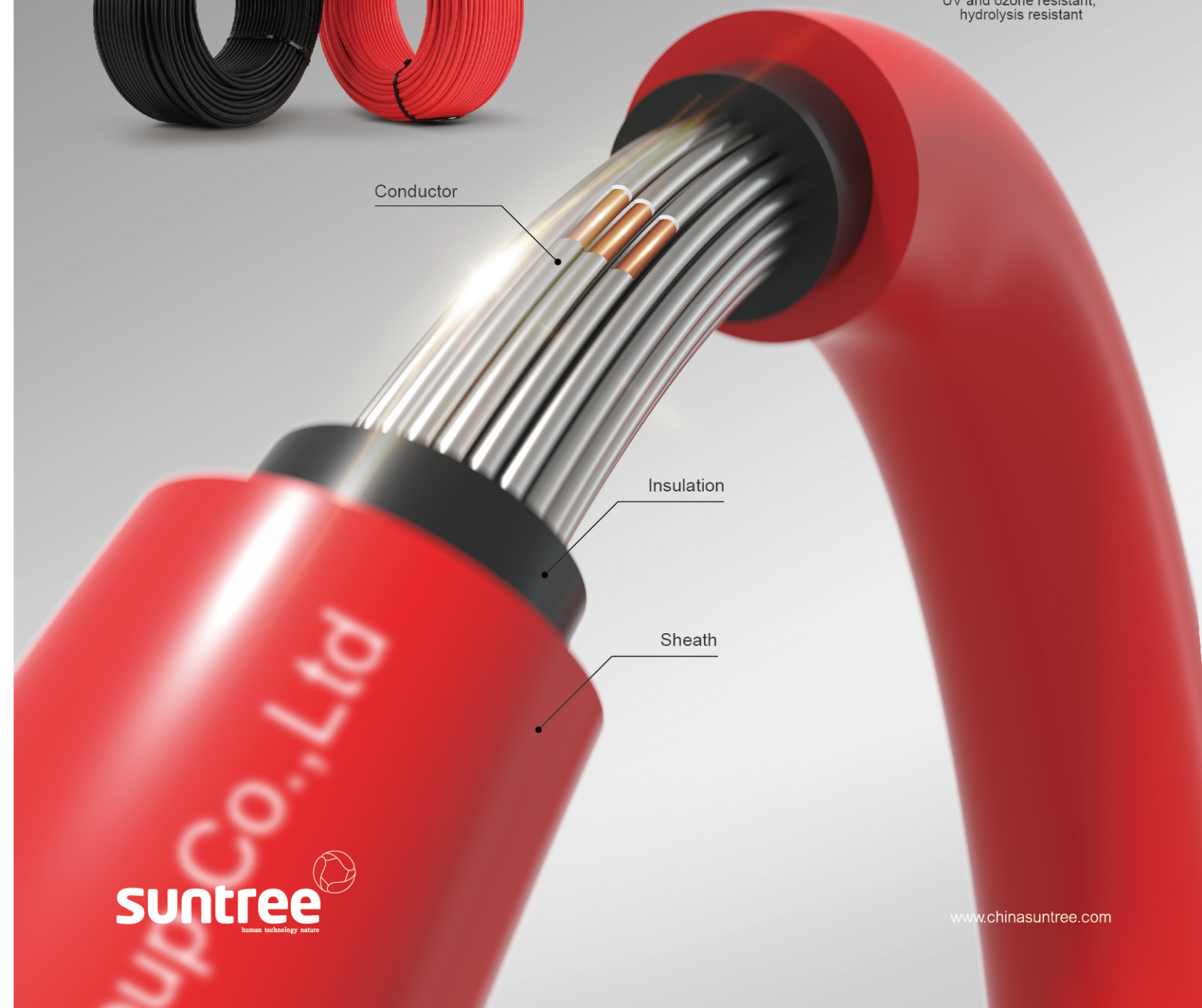


DC Photovoltaic Cable



High temperature resistance,
service life of more than 25 years



Halogen-free and low-smoke
material, in line with environmental
protection requirements



Adaptable to all commonly
used connectors



UV and ozone resistant,
hydrolysis resistant



📍 Xinguang industrial Zone, Liushi, Yueqing Zhejiang China
☎ +86 577-62890205
✉ xinyi@chinasuntree.com
🌐 www.chinasuntree.com

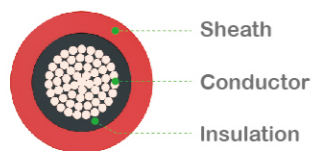
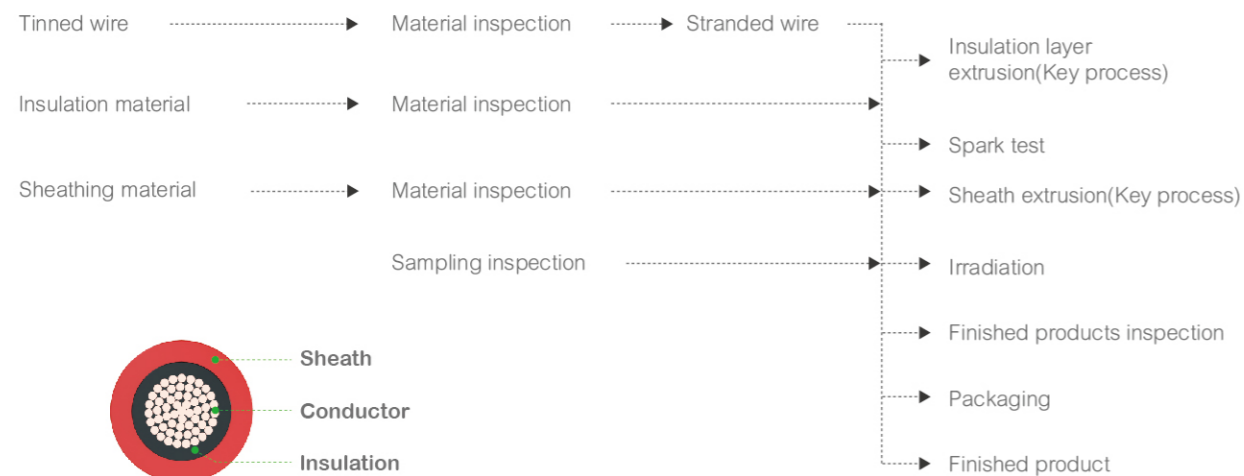
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Suntree Selection Guide for EV Charger Solution



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Cable workshop

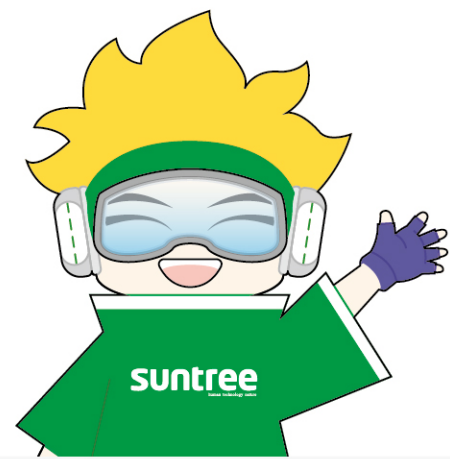
Photovoltaic cable process flow diagram




Introduction

Suntree exemplifies excellence in the electrical system covering from PV system, Energy Storage System, Intelligent Electrical System, EV Charging System and so on. With a proven legacy of leadership and innovation. We deliver top-tier electrical products and services that redefine the boundaries of quality and technology.

After years of development, Suntree Electric Group Co. has covered 9 subsidiary corporations including power generation and transmission, intelligent fire protection, new energy, IoT system, national grid and so on.



 17+
History


 9+
Sub Industries

 4+
Co-laboratories

 200+
Series Products

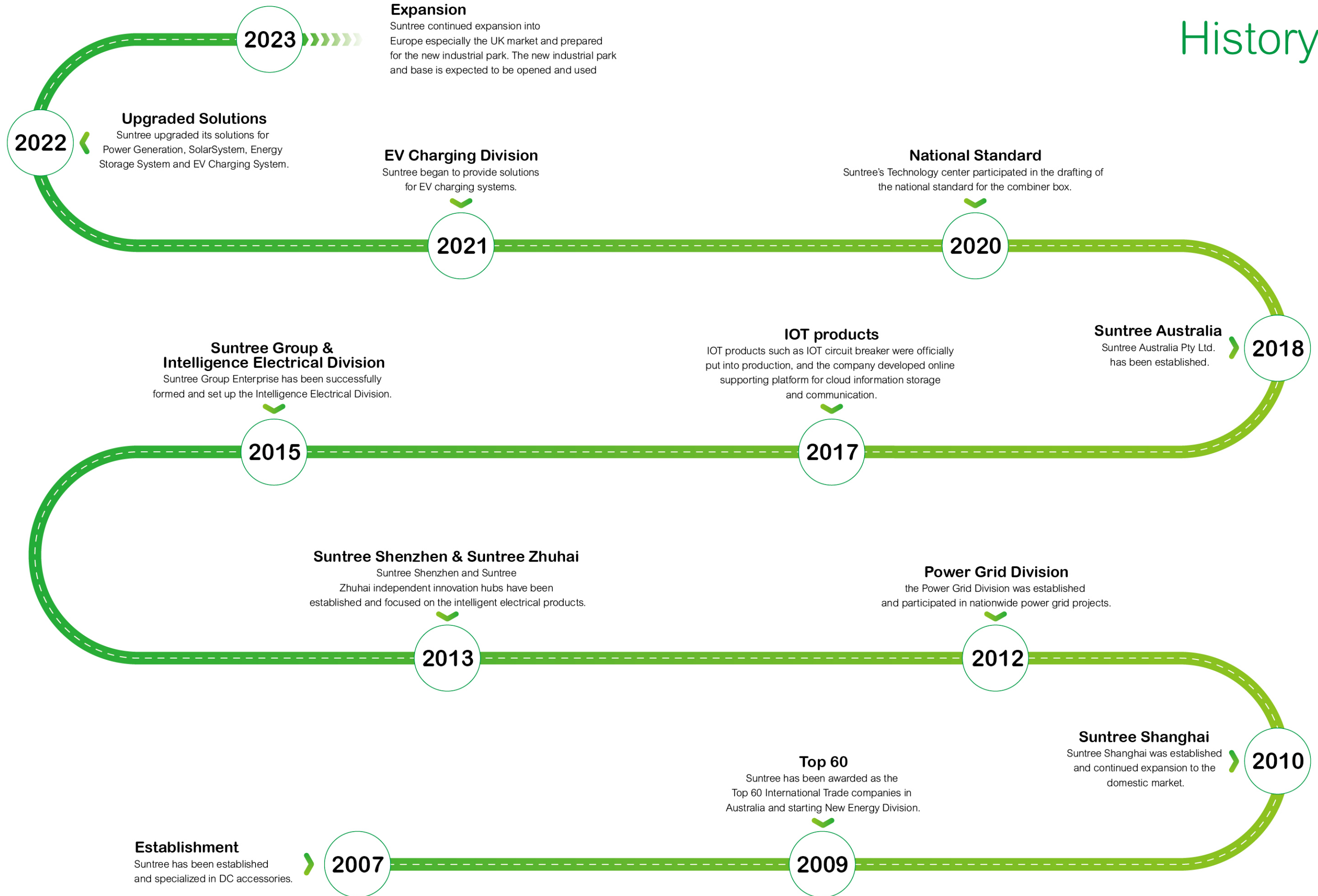
 480+
Solutions

 90+
Global Support Office

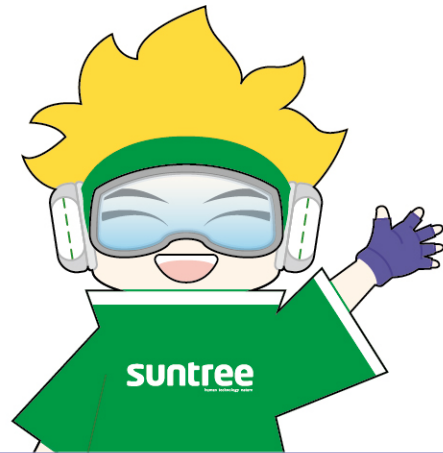
 130+
Systematic Distributor

 4+
Independent Innovation Center

History



“Commitment to Innovation and Sustainability”



www.chinasuntree.com



Certificates

Boasting over 300 products copyrights, patents and new product certificated, our commitment to independent innovation drives us forward. We are honored to be recognized and awarded internationally and domestically.



Manufacturer of a full-spectrum of intelligent
PV storage-charging electrical equipment



PV1-F

German standard TUV photovoltaic cable

APPLICATION

Single-core flexible cable (flexible wire) for use on the DC side of PV systems with a maximum allowable voltage of 1.8 kV DC (conductor-conductor, ungrounded systems). The cables are suitable for use in Safety Class II. These cables are allowed to be connected in a multi-structural manner. The cable is designed for operation at room temperature up to 90°C.

STRUCTURE

Fire resistance: EN 60332-1-2
Resistant to acid and alkali solutions: EN 60811-2-1
Halogen determination: EN 50267/EN 60684
Weather/UV Resistant: HD 605/A1
Compliance with certification: ROHS TUV
Implementation standards: 2 Pfg 1169/08.2007

TECHNICAL INDICATORS

Rated voltage: U0/U 0.6/1KV(AC) 1800DC(non-load)
Test voltage: AC6.5KV/5min(20°C±0.5)
Or DC15KV/5min (20°C±0.5) without breakdown
Ambient temperature: -40°C~+90°C
Conductor maximum temperature: 120°C
Maximum short circuit temperature: ≤250°C/5S
Expected service life: 25 years
Bending radius: ≥4D

CHARACTERISTICS COMPLIANCE

Conductor: Type 5 tinned copper soft conductor in 2Pfg1169
Insulation: 125°C irradiation crosslinking low smoke halogen free flame retardant polyolefin
Sheath: 125°C irradiation crosslinking low smoke halogen free flame retardant polyolefin
Color: Red or black



UV and ozone resistant
hydrolysis resistant



High temperature resistance
service life of more than 25 years

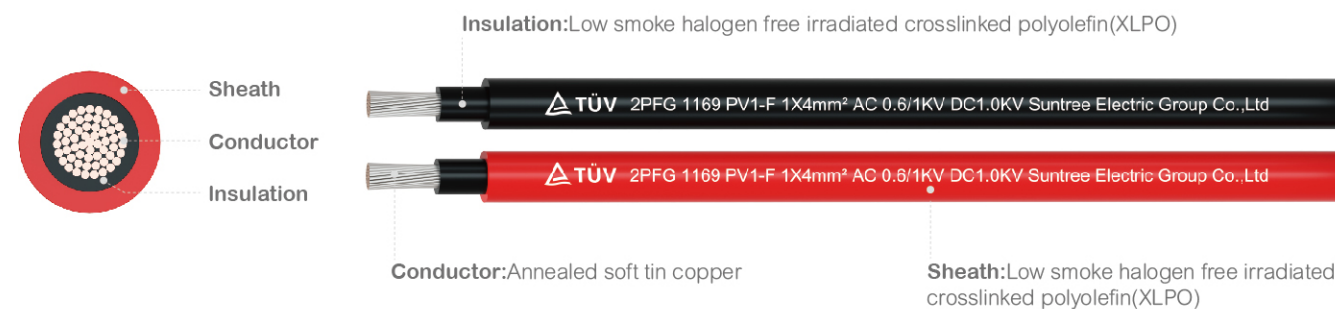


Halogen-free and low-smoke
material, in line with environmental
protection requirements



Compatible with all
common connectors

DC SOLAR PV CABLE



Structural dimensions and parameters

Model	Specification mm ²	Insulation nominal thickness mm	Approximate outer diameter of finished product mm	Maximum DC resistance of conductor at 20°C Ω/km	Minimum insulation resistance at 90°C m Ω/km
PV1-F	2.5	≥0.5	4.2	8.21	0.69
PV1-F	4.0	≥0.5	6.01	5.09	0.58
PV1-F	6.0	≥0.5	6.2	3.39	0.50
PV1-F	10	≥0.5	7.3	1.95	0.42
PV1-F	16	≥0.5	8.5	1.24	0.34
PV1-F	2X2.5	≥0.5	5.2X10.9	8.21	0.69
PV1-F	2X4.0	≥0.5	5.5X11.4	5.09	0.58
PV1-F	2X6.0	≥0.5	6.2X12.9	3.39	0.50
PV1-F	2X10	≥0.5	7.3X15.1	1.95	0.42

Reference table for quick selection of carrying capacity

Cross-sectional area mm ²	Recommended value of carrying ampacity (A)	Carrying ampacity conversion factor for different ambient temperatures	
		Ambient temperature °C	Conversion factor
2.5	41	10	1.15
4	55	20	1.08
6	70	30	1.0
10	98	40	0.91
16	132	50	0.82
2X2.5	33	60	0.71
2X4	44	70	0.58
2X6	57	80	0.41
2X10	79		
2X16	107		

Note: Ambient temperature 30°C; conductor maximum temperature 90°C

H1Z2Z2-K

TUV Single Core Solar Cable EN50618/IEC62930



Suitable for the DC side of the photovoltaic system, the DC voltage between the conductor and the ground is 1.5kV, suitable for use with secondary equipment, low smoke and halogen-free, flexible cable with cross-linked insulation and sheathing.



TECHNICAL INDICATORS

Rated voltage: U0/U 1.0/1.0KV(AC) 1500V(DC)
 Test voltage: AC6.5KV/5min (20°C±0.5)
 Or DC15KV/5min (20°C±0.5) without breakdown
 Ambient temperature: -40°C~+90°C
 Conductor maximum temperature: 120°C
 Expected service life: 25 years
 Bending radius: ≥4D



STRUCTURE

Fire resistance: EN 60332-1-2
 Weather/UV Resistant: EN 50289-4-17/ENISO4892
 Halogen determination: EN 50525
 Salt mist emission: IEC61034
 Compliance with certification: ROHS TUV
 Implementation standards: EN 50218:2014/
 IEC 60930:2017



CHARACTERISTICS COMPLIANCE

Conductor: Type 5 tinned copper flexible conductor in EN 50618
 Insulation: 125°C irradiation crosslinking low smoke halogen free flame retardant polyolefin
 Sheath: 125°C irradiation crosslinking low smoke halogen free flame retardant polyolefin
 Color: Red or black



UV and ozone resistant
 hydrolysis resistant



High temperature resistance
 service life of more than 25 years



Halogen-free and low-smoke
 material, in line with environmental
 protection requirements



Compatible with all
 common connectors

DC SOLAR PV CABLE



Structural dimensions and parameters

Model	Specification mm ²	Insulation nominal thickness mm	Sheath nominal thickness mm	Approximate outer diameter of finished product mm	Maximum DC resistance of conductor at 20°C Ω/km	Minimum insulation resistance at 90°C m Ω/km
H1Z2Z2-K	1.5	0.7	0.8	4.6	13.7	0.86
H1Z2Z2-K	2.5	0.7	0.8	5.0	8.21	0.69
H1Z2Z2-K	4.0	0.7	0.8	5.55	5.09	0.58
H1Z2Z2-K	6.0	0.7	0.8	6.15	3.39	0.50
H1Z2Z2-K	10	0.7	0.8	7.4	1.95	0.42
H1Z2Z2-K	16	0.7	0.9	8.52	1.24	0.34
H1Z2Z2-K	25	0.9	1.0	10.6	0.795	0.34
H1Z2Z2-K	35	0.9	1.1	12.5	0.565	0.29
H1Z2Z2-K	50	1.0	1.2	14.2	0.393	0.27
H1Z2Z2-K	2X1.5	0.7	0.8	4.6X9.7	13.7	0.86
H1Z2Z2-K	2X2.5	0.7	0.8	5.0X10.5	8.21	0.69
H1Z2Z2-K	2X4.0	0.7	0.8	5.55X11.6	5.09	0.58
H1Z2Z2-K	2X6.0	0.7	0.8	6.15X12.8	3.39	0.50
H1Z2Z2-K	2X10	0.7	0.8	7.4X15.3	1.95	0.42

Reference table for quick selection of carrying capacity

Cross-sectional area mm ²	Recommended value of carrying ampacity (A)	Carrying ampacity conversion factor for different ambient temperatures	
		Ambient temperature °C	Conversion factor
Copper conductor	Laying in the air		
1.5	30	10	1.15
2.5	41	20	1.08
4	55	30	1.0
6	70	40	0.91
10	98	50	0.82
16	132	60	0.71
25	176	70	0.58
35	218	80	0.41
50	276		
2X1.5	24		
2X2.5	33		
2X4.0	44		
2X 6.0	57		
2X 10	79		

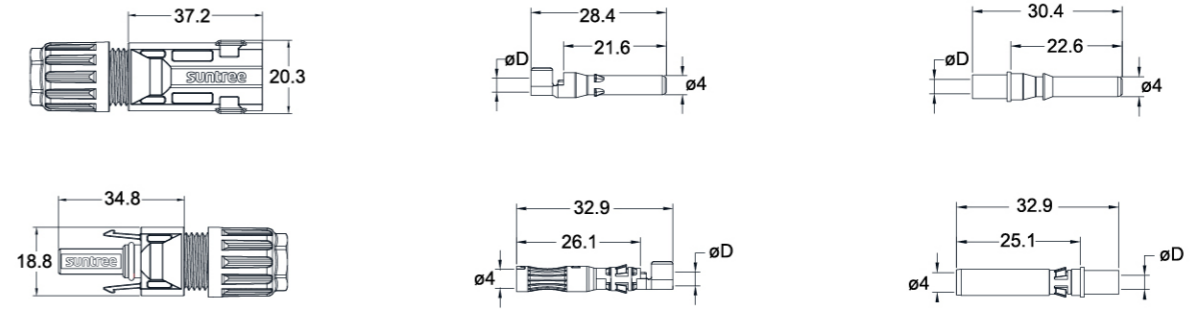
Note: Ambient temperature 30°C; conductor maximum temperature 90°C

1500V DC PV Connector

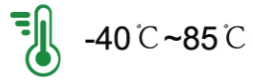
PMCN Series



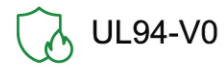
Dimension:(mm)



IP 68



-40°C ~85°C



UL94-V0



UV Resistance



Technical Data

Rated current:	40A (Stamped Pin) 70A (Lathed Pin)
Rated voltage:	1500V DC
Test Voltage:	8kv(5Hz, 1min)
Contact resistance:	< 0.35 mΩ
Applicable wire specifications:	2.5/4.0/6.0/10.0mm ² (14/12/10/8AWG)
Insulation Materials:	PPE
Terminal material:	Copper,Tin plated
Temperature range:	-40°C~85+°C (IEC)
Overvoltage category pollution degree:	CATIII/2
Degree of protection:	UL94-V0
Flame class:	UL94-V0
Safety class:	II
Insertion force Withdrawal force :	≤ 50N / ≥ 50N
Connecting system	Crimp connection

Order NO.	Part P/N		Cable spec	
	Connector	Terminal	Conductor size	Cable OD(øD1)
PMCN40-CM-14	PMCN40-CMMM-H PMCN40-CFPM-H	PMCN40-CM-MT14 PMCN40-CM-FT14	AWG14(2.5mm ²)	ø4.5~ø8.5
PMCN40-CM-12		PMCN40-CM-MT12 PMCN40-CM-FT12	AWG12(4.0mm ²)	ø4.5~ø8.5
PMCN40-CM-10		PMCN40-CM-MT10 PMCN40-CM-FT10	AWG10(6.0mm ²)	ø4.5~ø8.5
PMCN40-CM-8		CN40-CM-MT8 CN40-CM-FT8	AWG8(10mm ²)	ø4.5~ø8.5
PMCN40-CM-01		CN40-CM-MT01 CN40-CM-FT01	AWG10/12/14 (6.0/4.0/2.5mm ²)	ø4.5~ø8.5

PMCN Plus Connectors

PMCN Plus Series



Product Overview

PMCN Plus Series connectors use high quality weather resistance materials that guarantee long-term reliability. PMCN Plus could match 16mm² to 25mm² cables, it could be widely used in different applications. The lower contact resistance and higher current transfer capability ensure high product efficiency. PMCN connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 125 °C.



- IP 68
- 40 °C ~125 °C
- IEC 1500V
UL 1500V
- UL94-V0
- UV Resistance
- TUV PPP
UL 4128

Technical Data

Rated Voltage	IEC 1500V & UL1500V
Standard by	TUV PPP; UL 4128
Rated Current	120A
Ambient Temp	-40 °C up to +125 °C
Contact Resistance	60.25mΩ
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV



Order Data

Part NO	Series Model	Components	Cable Spec	Rated Current	Rated Voltage	Remark
PMCNC061	PMCN 16	Male	PMCN-M16	100A for 25mm ²	1500V	
		Female	PMCN-F16			
PMCNC062	PMCN 25	Male	PMCN-M25	120A for 25mm ²	1500V	
		Female	PMCN-F25			
Part NO	Name	IP Spec	PIC	Package		
E6C061	Female Connector water proof Plug	IP51		500pcs/bag		
E6C062	Male Connector water proof Plug	IP51		500pcs/bag		

PMCN Connectors for Al cables

PMCN for Aluminum Cables



- IP 68
- 40 °C ~48 °C
- UL94-V0
- UV Resistance
- IEC62852
UL 6703
- IEC 1500V
UL 1500V

Product Overview

PMCN Series connectors use high quality weather resistance materials that guarantee long-term reliability. PMCN could match 6.0mm² to 16mm² Al Alloy cables, it could be widely used in different applications. The lower contact resistance and higher current transfer capability ensure high product efficiency. PMCN connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C

Technical Data

Rated Voltage	IEC 1500V & UL1500V
Certification	IEC 62852; UL 6703
Rated Current	Max 70A
Ambient Temp	-40 °C up to +85 °C
Contact Resistance	≤0.25mΩ
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV

Order Data

Part NO	Series Model	Components	Cable Spec	Rated Current	Rated Voltage	Remark
PMCNA001	PMCN7122	Housings	PMCN-A-M10 PMCN-A-F10	10AWG-8AWG/6mm ² -10mm ²	30A for 6.0mm ²	1500V With NEC lock
		Terminals	PMCN-A-M10 PMCN-A-F10			
PMCNA002	PMCN 10015	Housings	PMCN-A-M16 PMCN-A-F16	8AWG-6AWG/10mm ² -16mm ²	50A for 10mm ²	1500V With NEC lock
		Terminals	PMCN-A-M16 PMCN-A-F16			
Part NO	Name	IP Spec	PIC	Package		
PMCNC031	Female Connector water proof Plug	IP65		500pcs/bag		
PMCNC032	Male Connector water proof Plug	IP65		500pcs/bag		
PMCNC033	Female Connector dust proof Plug	IP51		500pcs/bag		
PMCNC034	Male Connector dust proof Plug	IP51		500pcs/bag		

SOLARLOK SPV4-S CONNECTOR 1500V DC

The SOLARLOK SPV4-S connector is an upgrade of the industry leading SOLARLOK SPV4 connector to meet a minimum 1500V rating with IP68 protection. The SOLARLOK SPV4-S connector has been tested to assure reliable and safe connections of solar arrays. The connectors use industry standard crimp tooling that is readily available and used by installers today.

Applications

- Solar panels
- Inverters
- Micro inverters
- DC optimizers

Materials

- Housing: PPE & PS
- Contact: Tinned copper

Mechanical

- 63mm x 24.5mm (Male)
- 59.5mm x 18.7mm (Female)
- Protection Degree: IP68 (1m / 24 hours)

Specifications

- Product Specification: 108-137077
- Application Specification: 114-137077
- PV4-PV4-S Intermateability: 501-137294



Standards

- 1000V DC / 1500V DC UL approved - UL6703
- 1000V DC / 1500V DC TUV approved - IEC62852

Benefits

- Provides waterproof protection and is rated IP68 (1 m / 24 hours)
- Minimizes power loss by providing low contact resistance

Electrical

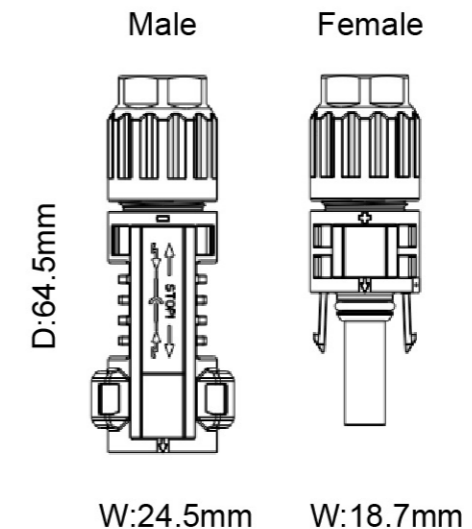
- UL 15 A and TÜV 30 A:
- UL 20 A and TÜV 40 A:
- UL 30 A and TÜV 45 A:
- Rated Voltage:
- Contact Resistance:

2.5 mm² / 14 AWG (at 85 °C)
 4.0 mm² / 12 AWG (at 85 °C)
 6.0 mm² / 10 AWG (at 85 °C)
 1000V DC / 1500V DC (UL)
 1000V DC / 1500V DC (TUV/IEC)
 0.35mΩ

Product Selection Information

Part Number	Description
S2270024-1	Pin connector
S2270025-1	Socket connector

Dimensions



SPV4-S Kits for 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	S2270024-1	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	S2270025-1	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	S1-2270024-1	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	2,000 PIECES
STANDARD	S1-2270025-1	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	2,000 PIECES
STANDARD	S2-2270024-1	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	S2-2270025-1	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

SPV4-S Kits for 2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	S2270024-3	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	1,000 PIECES
PREFERRED CHOICE	S2270025-3	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	1,000 PIECES
STANDARD	S1-2270024-3	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	2,000 PIECES
STANDARD	S1-2270025-3	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	2,000 PIECES
STANDARD	S2-2270024-3	SPV4-S CONNECTOR KIT PIN-MALE (with pin-contact)	100 PIECES
STANDARD	S2-2270025-3	SPV4-S CONNECTOR KIT SOCKET-FEMALE (with socket-contact)	100 PIECES

SPV4-S – Housing Components

Type	Part Number	Description	Package Quantity
PREFERRED CHOICE	S2270022-1	SPV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	1,000 PIECES
PREFERRED CHOICE	S2270023-1	SPV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	1,000 PIECES
STANDARD	S2-2270022-1	SPV4-S CONNECTOR HOUSING PIN-MALE (without pin-contact)	100 PIECES
STANDARD	S2-2270023-1	SPV4-S CONNECTOR HOUSING SOCKET-FEMALE (without socket-contact)	100 PIECES

SPV4-S – 4 mm² - 6 mm² Contacts (AWG 12-10)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	S2270251-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	S2270251-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	S2270251-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	S2270226-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	S2270226-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	S2270226-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

SPV4-S – 2.5 mm² Contacts (AWG 14)

Type	Part Number	Description	Package Type - Quantity
PREFERRED CHOICE	S2270253-2	PIN-MALE CONTACT	REEL OF 2,000 PIECES
STANDARD	S2270253-3	PIN-MALE CONTACT	1,000 LOOSE PIECES
STANDARD	S2270253-4	PIN-MALE CONTACT	100 LOOSE PIECES
PREFERRED CHOICE	S2270252-2	SOCKET-FEMALE CONTACT	REEL OF 2,000 PCS
STANDARD	S2270252-3	SOCKET-FEMALE CONTACT	1,000 LOOSE PIECES
STANDARD	S2270252-4	SOCKET-FEMALE CONTACT	100 LOOSE PIECES

SPV4-S series are applicable for outer-cable diameters from 5.5 mm to 7.8 mm

Accessories



Plastic tool for disconnect PV4
PN 1971903-1



Plastic tool for disconnect PV4 & PM style
PN 2232232-1



Hand Crimping Tool
4.0 mm - 6.0 mm²
PN 6-1579014-8
Hand Crimping Tool
2.5 mm - 4.0 mm²
PN 6-1579014-9



Cable Stripper
PN 4-1579002-2



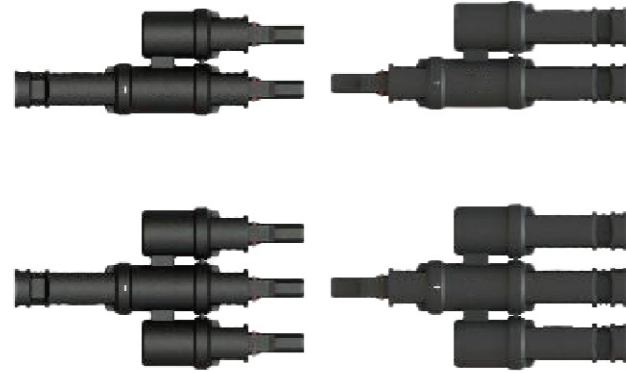
Dust Cap for Male housing
PN 2232228-1



Dust Cap for Female housing
PN 2232227-1

A4 n to 1 Connectors

A4 nB1 Series



IP 68

-40 °C ~ 125 °C

UL94-V0

UV Resistance

IEC 1500V
UL 1500V

TUV PPP
UL 4128

Product Overview

A4 nB1 Series Branch connectors use high quality weather resistance materials that guarantee long-term reliability. A4 nB1 could match A4 nB1 series branch connectors, it could be widely used in different applications. The lower contact resistance and higher current transfer capability ensure high product efficiency. A4 nB1 Series connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C.

Order Data

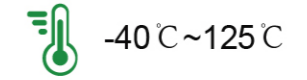
Part NO	TYPE	Description	Voltage	Input Current	Output Current	IP	Remark
A4N001	A4 2B1-2F1M	2 female to 1 male	1500V	≤35A	Max 70A	IP68	
A4N002	A4 2B1-2M1F	2 male to 1 female					
A4N003	A4 3B1-3F1M	3 female to 1 male		≤23A			
A4N004	A4 3B1-3M1F	3 male to 1 female					
A4N005	A4 4B1-4F1M	4 female to 1 male		≤17.5A			
A4N006	A4 4B1-4M1F	4 male to 1 female					
A4N007	A4 5B1-5F1M	5 female to 1 male		≤14A			
A4N008	A4 5B1-6M1F	5 male to 1 female					

Technical Data

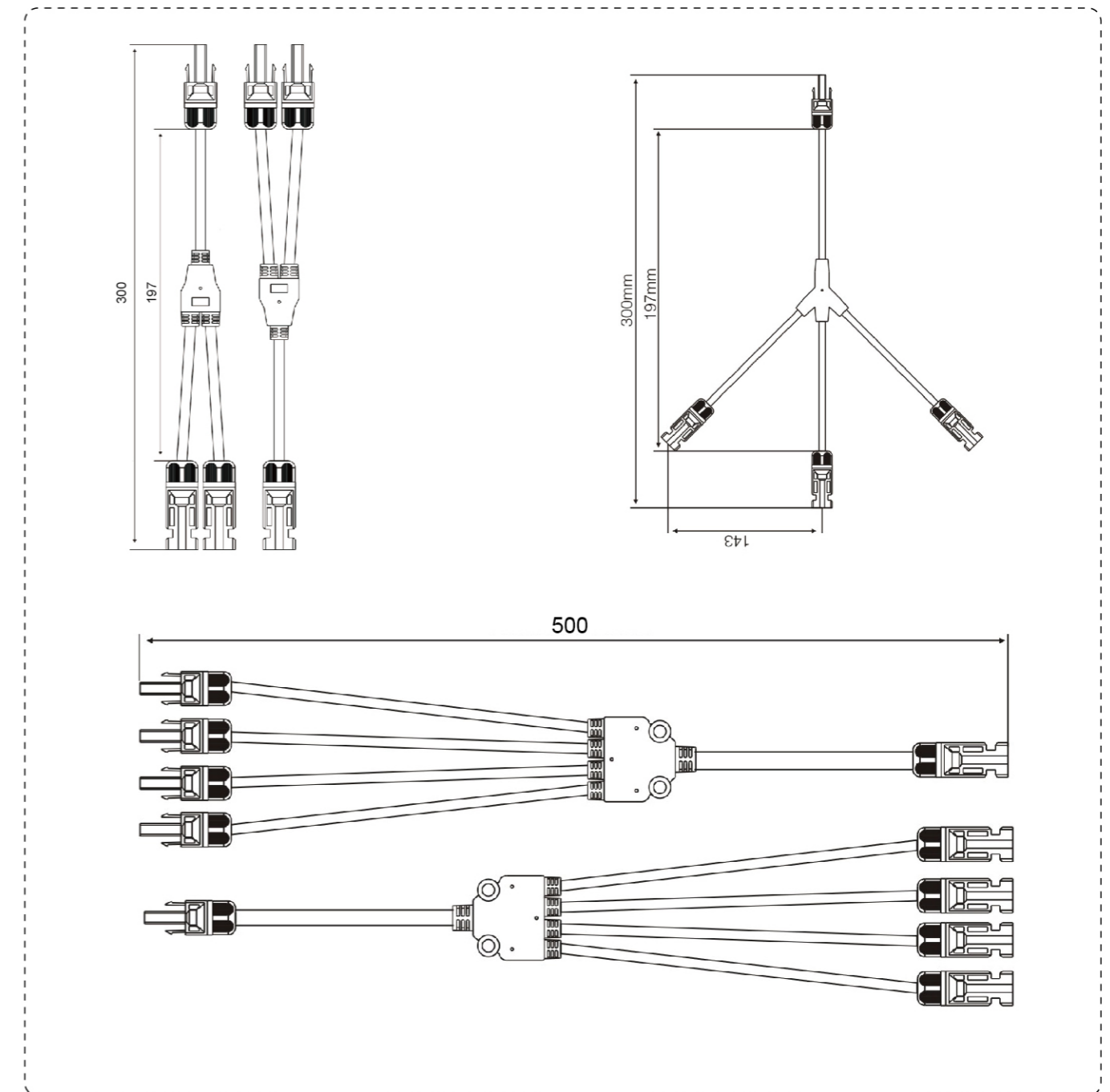
Rated Voltage	IEC 1500V
Certification	IEC 62852
Rated Current	70A
Ambient	-40°C up to +85°C
Contact Resistance	≤0.25mΩ
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV

PMBC n to 1 Connectors

PMBC nB1 Series



Dimension:(mm)



TECHNICAL DATA

Connector system	Φ4mm
Rated voltage	1000V DC(IEC) ¹
Rated current	30A
Test voltage	6kV(50HZ,1min.)
Ambient temperature range	-40°...+90°C(IEC) -40°C...+75°C(UL)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP68
Unmated	IP2X
Contact resistanceof plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing,verzinnt Copper Alloy,tin plated
Insulation material	PC/PA
Locking system	Snap-in
Flame class	UL-94-VO
Salt mist spray test,degree of severity 5	IEC 60068-2-52

Solar Y Branch Harness



UL 1500V
IEC 1500V



-40 °C ~85 °C



IP 68



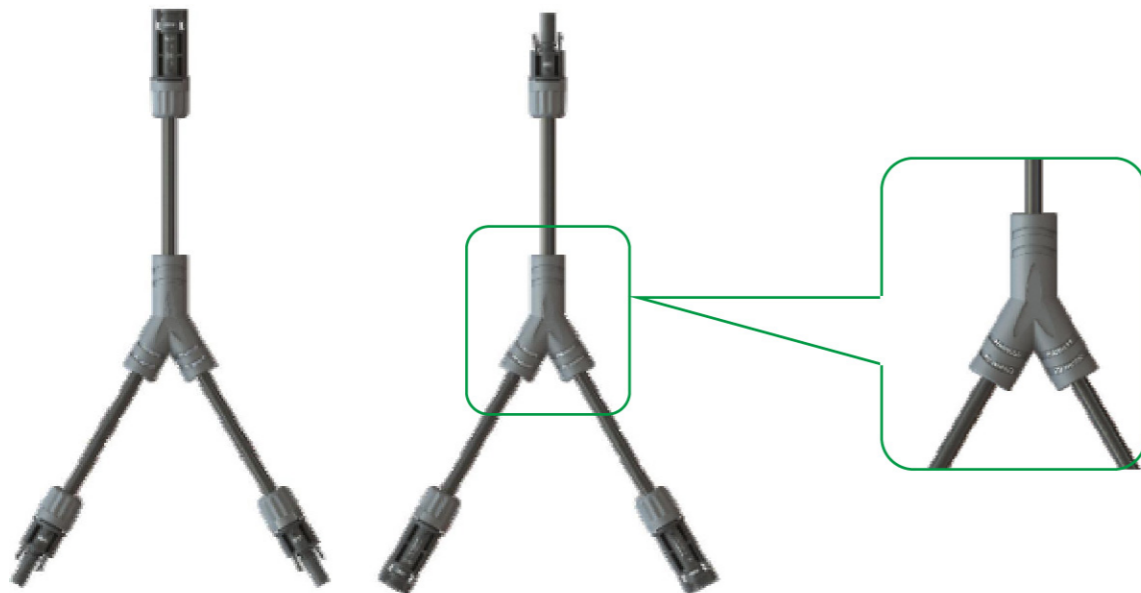
UL 9703
IEC 62852



UL94-V0



UV Resistance

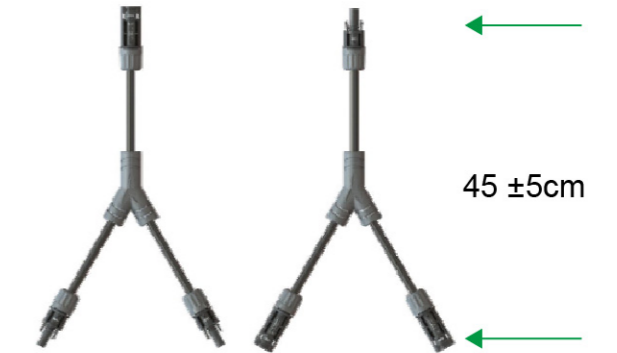


Product Overview

SUNTREE Power Y Branch use high quality materials that guarantee long-term reliability. Lower contact resistance and higher current transfer capability ensure high product efficiency. SUNTREE Power Y Branch have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C.

Technical Data

Rated Voltage	UL1500V/IEC 1500V
Rated Current	Max 70A
Ambient temperature	-40 °C up to +85 °C
Contact Resistance	≤0.05mΩ
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV
Material	NEC Locking Type



Order Data

TYPE	Cable Spec	Current/ A	Package	Connectors
SH-Y-0202				DEFAULT: A4 Max Solar Connector Option: Other solar connectors
SH-Y-0202-2F1M	Input: 2x14Awg/2.5mm ²	Input:≤2x25A	25 pairs /Carton	
SH-Y-0202-2M1F	Output: 1x14Awg/2.5mm ²	Output:≤1x25A		
SH-Y-0606				
SH-Y-0606-2F1M	Input:2x12Awg/4mm ²	Input:≤2x35A	25 pairs /Carton	
SH-Y-0606-2M1F	Output: 1x8Awg/10mm ²	Output:≤1x40A		
SH-Y-0410				
SH-Y-0410-2F1M	Input:2x12Awg/4mm ²	Input:≤2x35A	25 pairs /Carton	
SH-Y-0410-2M1F	Output: 1x8Awg/10mm ²	Output:≤1x50A		
SH-Y-0616				
SH-Y-0616-2F1M	Input:2x10Awg/6mm ²	Input:≤2x40A	25 pairs /Carton	
SH-Y-0616-2M1F	Output: 1x6Awg/16mm ²	Output:≤1x70A		

Remark:SH series harnesses use high quality weather resistance materials that guarantee long-term reliability. SH series Harnesses could match 2.5 mm² to 240 mm² cables, it could be wildly used in different applications. SH series harnesses have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C

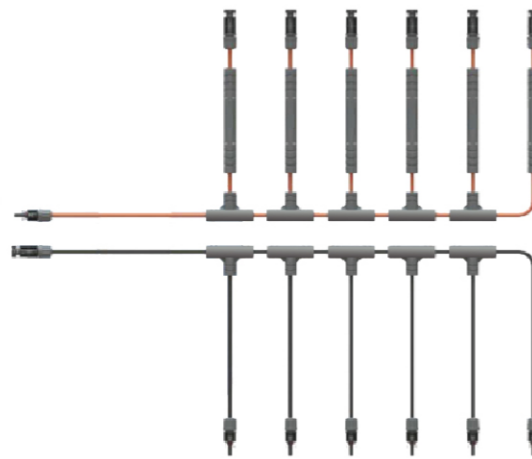
SH Series Solar Harnesses

Photovoltaic Branch Harness



Features

- Maximum rated current 50A
- Max rated system voltage DC 1500V
- Better BOS Cost
- Hi-tech sealing technology
- Authorized patents
- UV Resistance
- IP 68
- ETL, TUV qualified and certified



Parameter Data

TYPE	CABLE	CONNECTOR	FUSE VOLTAGE	FUSE	I Junction HOUSING
SH-I:I Junction	A:4mm ² /12AWG	A: NP4 Super Series	L:1000V	01:1A	B: For Big Fuse
SH-Y:Y Junction	B:6mm ² /10AWG	B: STAUBLI KST4(MC4)	H:1500V	02:2A	B: For Slim Fuse
SH-X:X Junction	C:10mm ² /8 AWG	C:STAUBLI MC4-EVO2		03:3A	B: For Terminal
SH-T:T Junction	D:16mm ² /6 AWG	D: CANADIANSOLAR T4		04:4A	
SH-3B1: 3B1 Junction		E:TRANSOLAR TS4			
SH-4B1: 4B1 Junction		F: JINKO JKO3M		25:25A	
SH-4B2: 4B2 Junction		G: LONGI PV LR-5			
SH-5B1: 5B1 Junction		H: AMPHENOL UTX		XX:max 50A	
SH-6B1:6B1 Junction		I: Option			

SH-Y Solar Branch

DC 1500V Y Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-Y-2M1F	4 mm ² ~ 16mm ²	Customized	1500V	
SH-Y-2F1M				

SH-X Branch

DC 1500V H-X Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-X	4mm ² ~ 16mm ²	Customized	1500V	

SH-T Branch

DC 1500V, T Branch



IP 68



IEC 1500V / UL 1500



UL94-V0

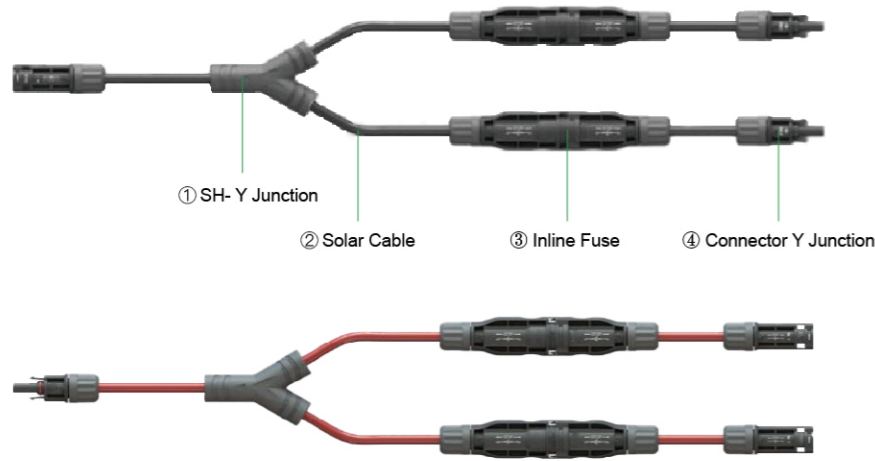


UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-T	4 mm ² ~ 16mm ²	Customized	1500V	

2 to 1 Inline Fuse Unit

Photovoltaic Branch Harness



SH-Y-A6-2M1F

SH-Y-A6-2M1F



IP 68



UV Resistance



1~3ms



UL94-V0



Max 32A



DC 1500V

Product Overview

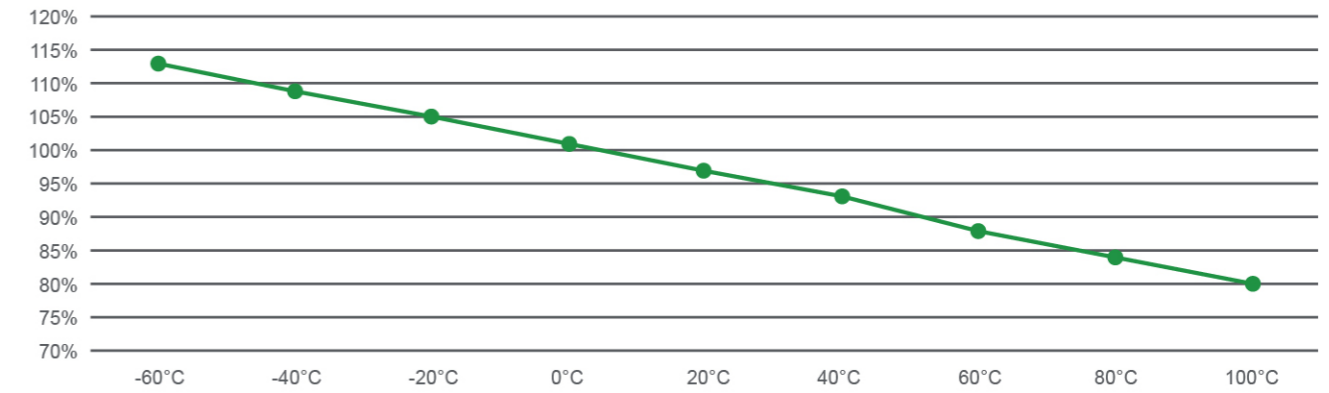
SUNTREE Power 2 to 1 Fuse Branch solution was certified under IEC&UL Standards. They were qualified in TUV&ETL labs with solar professional standards. They use high-quality fuses and insulating materials that guarantee long-term reliability. The fuse could be replaced easily during the operation and maintenance. Lower contact resistance and higher current transfer capability ensure high product efficiency. SUNTREE Branch harness has IP68 water-proof rating and can be used in a wide operating temperature range.

Technical Data

Rated Voltage	DC 1500V
Rated Current	Max 32A*2
Fuse Dimension	10mm*85mm
Ambient Temp	-40°C ~ +85°C
IP	IP 68
Rated Breaking Capacity	30KA@1500V
Time Constant	1-3ms
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV
Material	PC/PA/Copper Tin Plated

Temp Curve

Temperature Detating Curve



Order Data

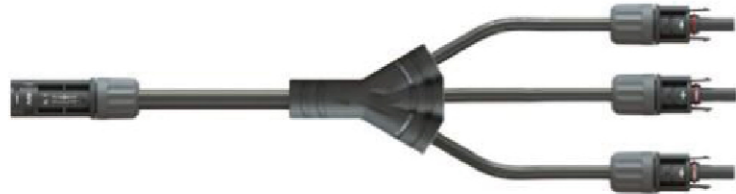
TYPE	Description	Fuse Current/ A	Input Spec	Output Spec	Remark
SH-2B1-A6-2M1F-2A	Connector: 2 Male to 1 Female	2A	Cable:2x2.5mm ² ,1500V Fuse:2 pcs,1500V Connector: DC 1500V	Cable:1x4 mm ² ,1500V Connector: DC 1500V	MC4 or Optional
SH-2B1-A6-2M1F-4A		4A			
SH-2B1-A6-2M1F-5A		5A			
SH-2B1-A6-2M1F-6A		6A			
SH-2B1-A6-2M1F-10A		10A			
SH-2B1-A6-2M1F-15A		15A			
SH-2B1-A6-2M1F-20A		20A			
SH-2B1-A6-2M1F-25A		25A			
SH-2B1-A6-2M1F-30A		30A			
SH-2B1-A6-2M1F-32A		32A			
SH-2B1-A6-2F1M-2A	Connector: 2 Female to 1 Male	2A	Cable:2x2.5mm ² ,1500V Fuse:2 pcs,1500V Connector: DC 1500V	Cable:1x4 mm ² , 1500V Connector: DC 1500V	MC4 or Optional
SH-2B1-A6-2F1M-4A		4A			
SH-2B1-A6-2F1M-5A		5A			
SH-2B1-A6-2F1M-6A		6A			
SH-2B1-A6-2F1M-10A		10A			
SH-2B1-A6-2F1M-15A		15A			
SH-2B1-A6-2F1M-20A		20A			
SH-2B1-A6-2F1M-25A		25A			
SH-2B1-A6-2F1M-30A		30A			
SH-2B1-A6-2F1M-32A		32A			

3 to 1 Inline Fuse Unit

Photovoltaic Branch Harness



SH-3B1-A6-3M1F



SH-3B1-3F1M



IP 68



UV Resistance



1~3ms



UL94-V0



Max 32A



DC 1500V

Product Overview

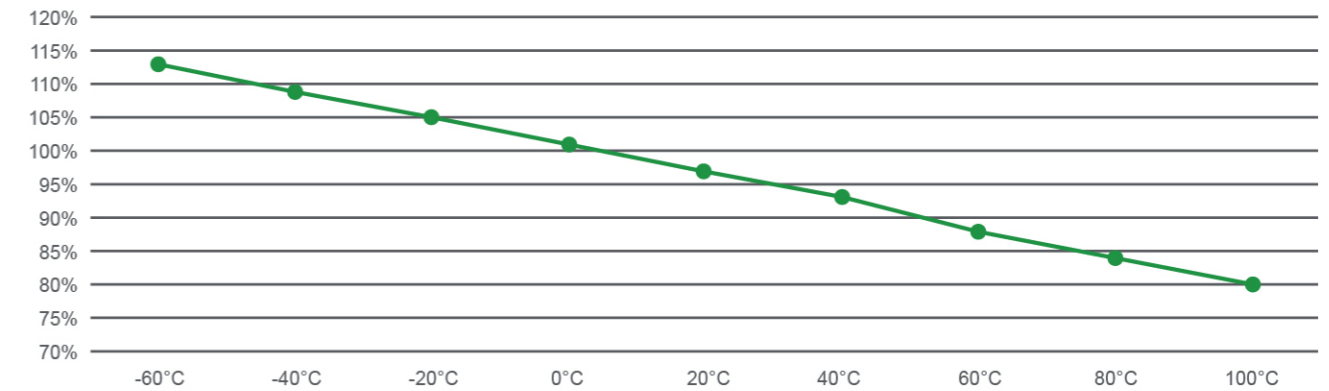
SUNTREE Power 3to1 Fuse Branch solution was certified under IEC&UL Standards. They were qualified in TUV&ETL labs with solar professional standards. They use high-quality fuses and insulating materials that guarantee long-term reliability. The fuse could be replaced easily during the operation and maintenance. Lower contact resistance and higher current transfer capability ensure high product efficiency. SUNTREE Branch harness has IP68 water-proof rating and can be used in a wide operating temperature range.

Technical Data

Rated Voltage	DC 1500V
Rated Current	Max 32A*3
Fuse Dimension	10mm*85mm
Ambient Temp	-40℃~+85℃
IP	IP 68
Rated Breaking Capacity	30KA@1500V
Time Constant	1-3ms
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV
Material	PC/PA/Copper Tin Plated

Temp Curve

Temperature Detating Curve

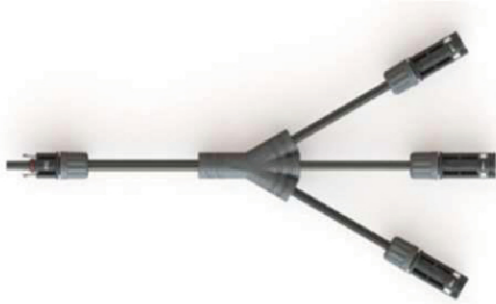


Order Data

TYPE	Description	Fuse Current/ A	Input Spec	Output Spec	Remark
SH-3B1-A6-3M1F-2A	Connector: 3 Male to 1 Female	2A	Cable:3x2.5mm ² ,1500V	Cable:1x4 mm ² , 1500V	MC4 or Optional
SH-3B1-A6-3M1F-4A		4A	Fuse:3 pcs, 1500V	Connector: DC 1500V	
SH-3B1-A6-3M1F-5A		5A	Connector: DC 1500V		
SH-3B1-A6-3M1F-6A		6A			
SH-3B1-A6-3M1F-10A		10A		Cable:1x10mm ² ,1500V	
SH-3B1-A6-3M1F.15A		15A	Cable:3x4mm ² ,1500V	Connector: DC 1500V	
SH-3B1-A6-3M1F-20A		20A	Fuse:3 pcs,1500V		
SH-3B1-A6-3M1F-25A		25A	Connector: DC 1500V	Cable:1x16mm ² , 1500V	
SH-3B1-A6-3M1F-30A		30A		Connector: DC 1500V	
SH-3B1-A6-3M1F-32A		32A			
SH-3B1-3F1M-1	Connector: 3Female to 1 Male	No fuse	Cable:3x2.5mm ² , 1500V	Cable:1x4 mm ² , 1500V	
SH-3B1-3F1M-2		No fuse	Cable:3x4mm ² .1500V	Cable:1x10 mm ² , 1500V	
SH-3B1-3F1M-3		No fuse	Cable:3x4mm ² , 1500V	Cable:1x16 mm ² , 1500V	

SH-3B1 Branch

DC 1500V 3B1 Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-3B1-3M1F	4 mm ² ~ 16mm ²	Customized	1500V	
SH-3B1-3F1M				

SH-4B1 Branch

DC 1500V H-4B1 Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-4B1-4F1M	4 mm ² ~ 16mm ²	Customized	1500V	
SH-4B1-4M1F				

SH-5B1 Branch

DC 1500V 5B1 Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-5B1-5F1M	4 mm ² ~ 16mm ²	Customized	1500V	
SH-5B1-5M1F				

SH-6B1 Branch

DC 1500V 6B1 Branch



IP 68



IEC 1500V / UL 1500



UL94-V0

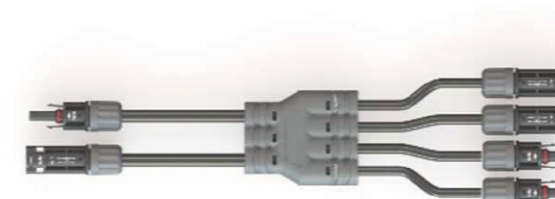


UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-6B1-6M1F	4 mm ² ~ 16mm ²	Customized	1500V	
SH-6B1-6F1M				

SH-2Y-2B1 Branch

DC 1500V H-2Y-2B1 Branch



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Connector	Voltage	Remark
SH-2Y-2B1	4 mm ² ~ 16mm ²	Customized	1500V	

SH-I Junction

DC 1500V I Junction



IP 68



IEC 1500V / UL 1500



UL94-V0



UV Resistance

Type	Cable Spec	Fuse	Connector	Remark
SH-I-B	4 mm ² ~ 16mm ²	1~50A	Customized	
SH-I-L		1~32A	Customized	
SH-I-T		0A	Customized	

SH6 P Series Crystal Harness



IEC 1500V
UL 1500V



UL94-V0



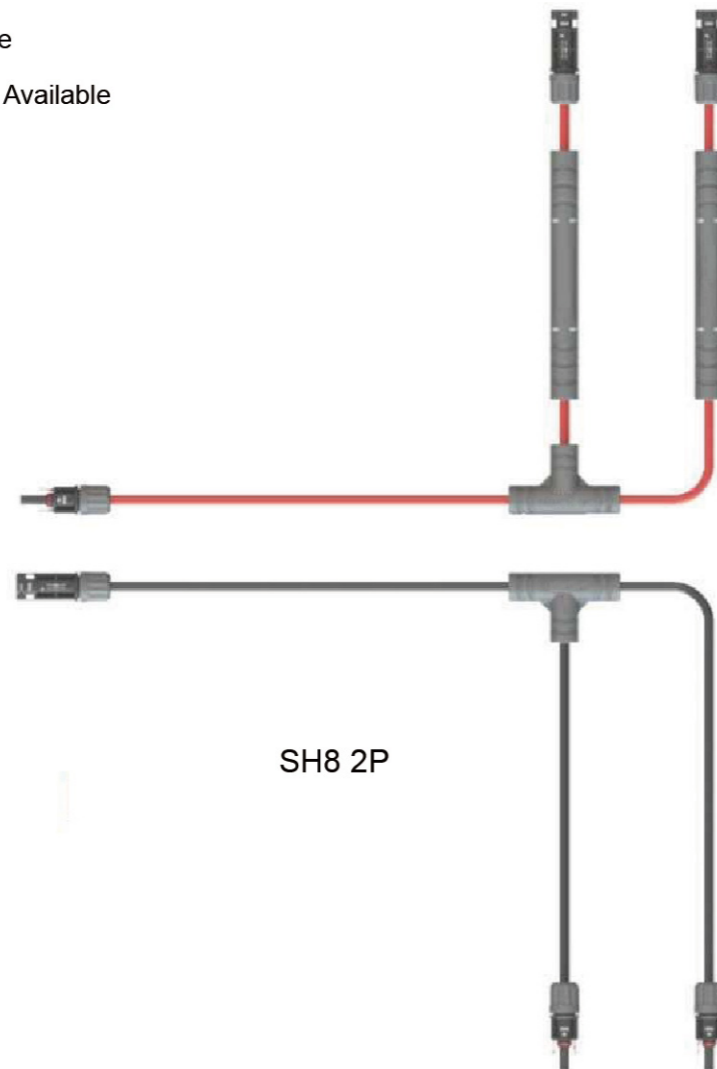
IP 68



-40 °C ~ 90 °C

Options

- Available in 2 or 3 strings configurations
- 4mm²~16mm²/ 12AWG~6AWG Available
- All Certified PV Connectors and Cables Available
- Standard Fuse Size up to 50A
- Resistance welded joints
- UV Resistant



Product Overview

SUNTREE Power SH6 P Series Branch Harness use high quality materials that guarantee long-term reliability. SH6 P Series Branch Harness have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 90 °C. SUNTREE Power SH6 P Series Branch Harness reduces the specialized labor required in your installation, making the integration of solar panels a breeze. With harnesses custom manufactured for your specific site, both labor and material costs are significantly reduced. The simplified design and robust construction also increases reliability, making the Interconnect System a perfect solution for any project.

Technical Data

Rated Voltage	IEC 1500V \ UL1500V
Junction Rated Current	Max70A
Max Input Rated Current Protection(A6 Max)	Max 32A
Max Input Rated Current Protection(A6 B Max)	Max 50A
Ambient temperature	-40 °C up to +90 °C
Contact Resistance	≤0.05mΩ
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV
Locking System	NEC Locking Type

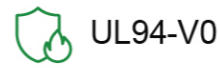
Order Data

Part No.	Cable Spec	Input Fuse	Connector
SH6 2P-a	Input: 2x4mm ² : Output: 1x10mm ²	2x Max 50A	IOption: solar connectors Option: Input and Output Cables
SH6 2P-b	Input: 2x6mm ² : Output: 1x16mm ²		
SH6 3P-a	Input: 3x4mm ² : Output: 1x16mm ²	3x Max 50A	

Remark: Plastic over-mold material is suitable for outdoor use with respect to exposure to UV light, water exposure and immersion in accordance with UL 746A,746B and746C.Harness design and specification subject to change or modification without notice.

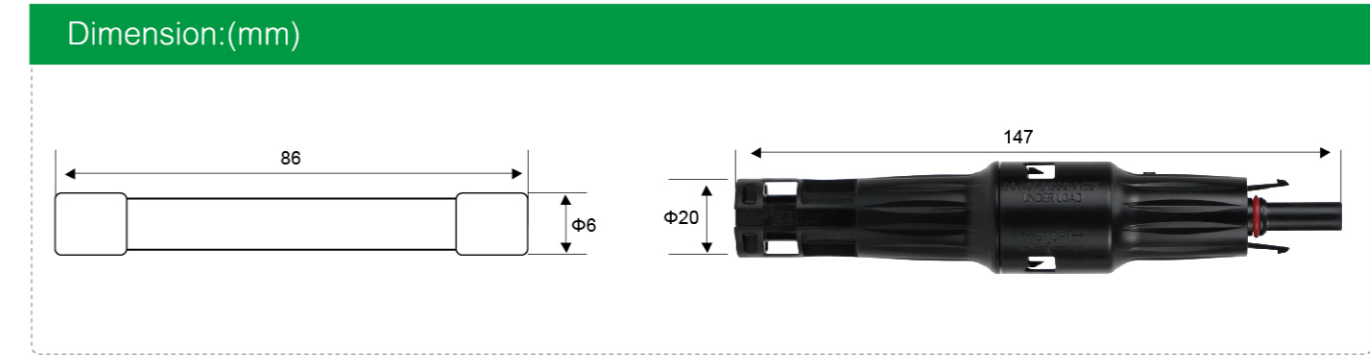
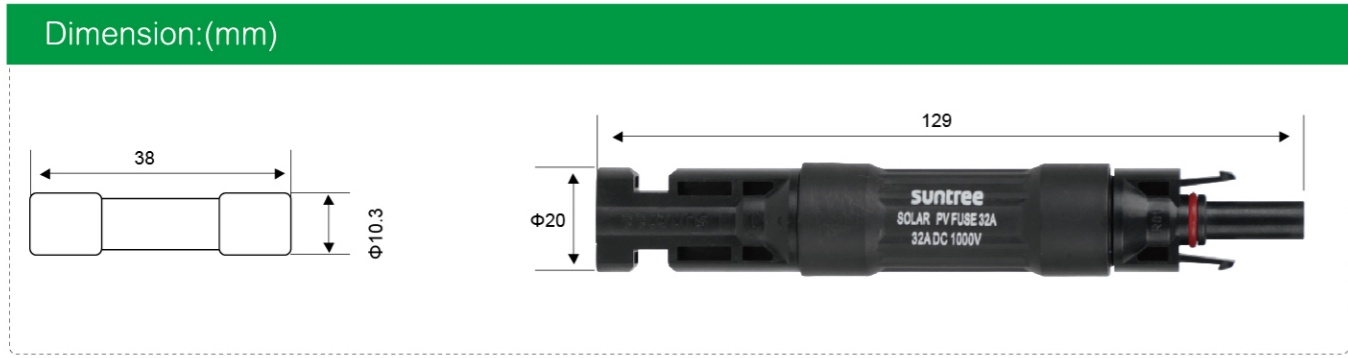
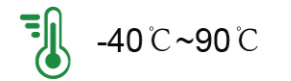
1000V DC PV Connector

PMCN Series



1500V DC PV Connector

PMCN Series



Technical data	
Connector system	Φ4mm
Rated voltage	1000V DC
Rated current	10A 15A 20A 30A
Test voltage	6kV(50HZ,1min.)
Ambient temperature range	-40°C...+90°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP68
unmated	IP2X
Contact resistanceof plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing,verzinkt Copper Alloy,tin plated
Insulation material	PC/PPO
Locking system	Snap-in
Flame class	UL-94-Vo
Salt mist spray test,degree of severity 5	IEC 60068-2-52

Technical data	
Connector system	Φ4mm
Rated voltage	1500V DC(IEC) ¹
Rated current	17A(1.5mm ²) 22A(2.5mm ² ;14AWG) 30A(4mm ² ;6mm ² ;12AWG,10AWG)
Test voltage	6kV(50HZ,1min.)
Ambient temperature range	-40°C...+90°C(IEC)
Upper limiting temper ature	+105°C(IEC)
Degree of protection,mated	IP68
unmated	IP2X
Contact resistanceof plug connectors	0.5mΩ
Safetyclass	II
Contact material	Messing,verzinkt Copper Alloy,tin plated
Insulation material	PC/PPO
Locking system	Snap-in
Flame class	UL-94-Vo
Salt mist spray test,degree of severity 5	IEC 60068-2-52

SA6 B Mini Fuse Unit

SA6 B Mini Series



- DC 1500V
- UL94-V0
- Max 32A
- IP 68
- 1~3ms
- UV Resistance

SA6 B Mini Fuse Unit

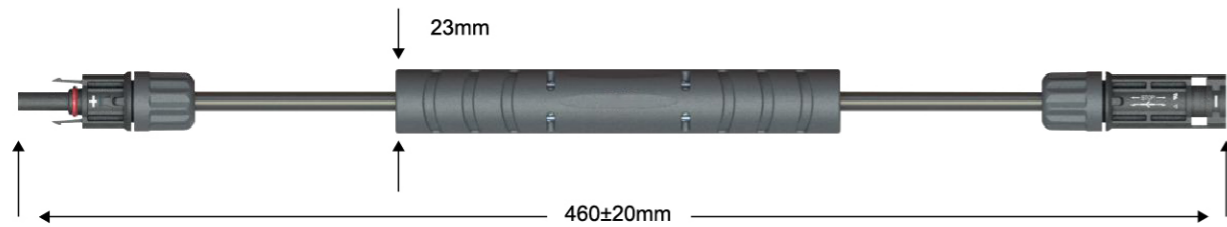
SA6 B Mini Fuse Series



- DC 1500V
- UL94-V0
- Max 32A
- IP 68
- 1~3ms
- UV Resistance

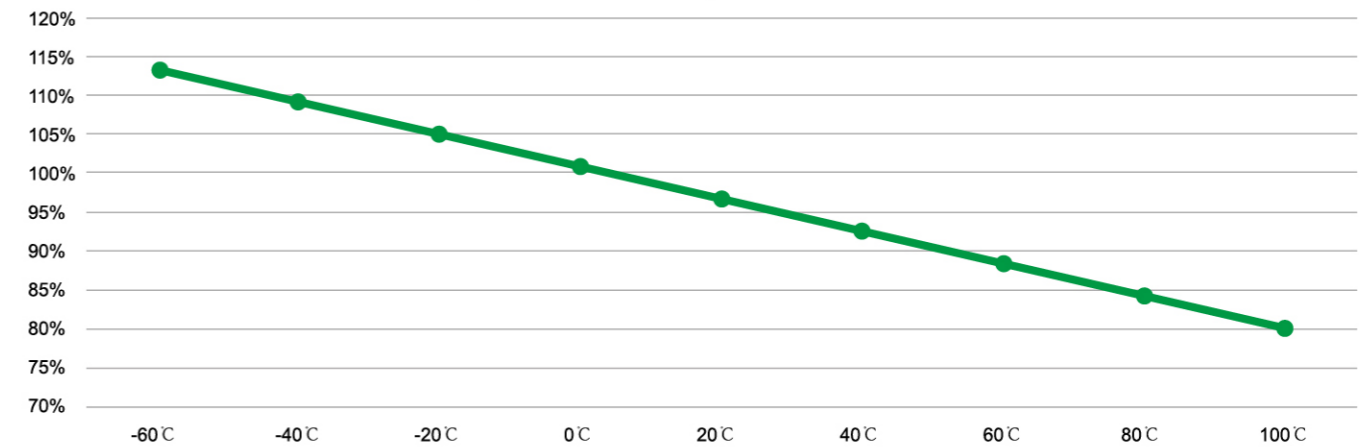
Overview

SA6 B Mini Fuse Series use high quality weather resistance materials to seal the fuse units in line. SA6 B Mini Series could match 2.5 mm² to 6 mm² cables, it could be widely used in different applications. The lower contact resistance and higher current transfer capability ensure high product efficiency. SA6 B Mini Series have IP68 water-proof rating and can be used in a wide operating temperature range.



Temp Curve

Temperature Detating Curve



Technical spec

Rated Voltage	DC 1500V
Rated Current	Max 32A
Fuse Dimension	10mm*85mm
Ambient Temp	-40 C ~ +85 C
IP	IP 68
Rated Breaking Capacity	30KA@1500V
Time Constant	1-3ms
Pollution Degree	Class II
Protection Degree	Class II
Fire Resistance	UL94-V0
Rated Impulse Voltage	16KV
Locking System	NEC Locking Type

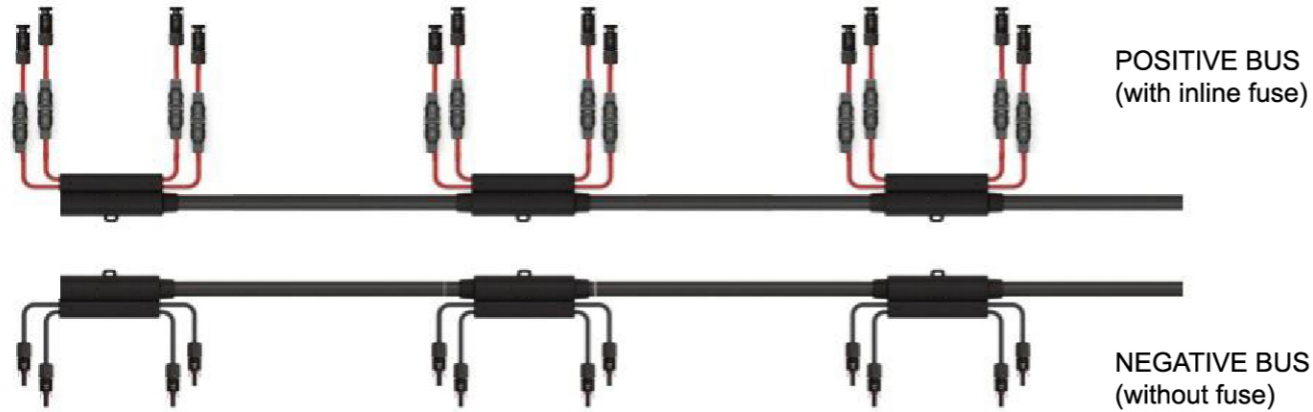
Order Data

TYPE	Fuse Voltage	Fuse Current	Cable Spec	Connector
SA6-B-Mini-1500-02	DC 1500V	2A	DC 1500V, 12AWG/2.5mm ²	DC 1500V SA4 Max Connector Or Customized
SA6-B-Mini-1500-04		4A	DC 1500V, 12AWG/2.5mm ²	
SA6-B-Mini-1500-05		5A	DC 1500V, 12AWG/2.5mm ²	
SA6-B-Mini-1500-06		6A	DC 1500V, 12AWG/2.5mm ²	
SA6-B-Mini-1500-08		8A	DC 1500V, 12AWG/2.5mm ²	
SA6-B-Mini-1500-10		10A	DC 1500V, 12AWG/2.5mm ²	
SA6-B-Mini-1500-15		15A	DC 1500V, 12AWG/4mm ²	
SA6-B-Mini-1500-20		20A	DC 1500V, 12AWG/4mm ²	
SA6-B-Mini-1500-25		25A	DC 1500V, 12AWG/4mm ²	
SA6-B-Mini-1500-30		30A	DC 1500V, 10AWG/6mm ²	
SA6-B-Mini-1500-32		32A	DC 1500V, 10AWG/6mm ²	

SH6 Series

Overview

SH6 Galaxy Series integrated confluence products, using high-quality welding process to ensure the reliability of electrical connections. At the same time, the fire-retardant and weather-resistant adhesive sealing process is adopted to ensure the 30-year service life requirement of the product in the outdoor exposed environment. The products adopts a number of patented technologies, including but not limited to copper-aluminum transition composite process parts, wire welding process, cable fastening process and adhesive sealing process.



MATERIAL SPEC

PART	MATERIAL	SPEC	STANSAERD
BUS	1X150mm ² DC1500V Al Alloy	DC 1500V, I: ≤300A, R≤0.206Ω/km@20℃	2FPG 2642
Cable	1X185mm ² DC1500V Al Alloy	DC 1500V, I: ≤360A, R≤0.164Ω/km@20℃	
	11X240mm ² DC1500V Al Alloy)	DC 1500V, I: ≤480A, R≤0.12Ω/km@20℃	
FUSE	Solar Inline Fuse	Voltage:DC 1500V/Current:Follow PV Panel Spec	IEC 60947
	QTY	QTY of Strings	&IEC62852
STRING Cable	1X4 mm ² DC1500V Copper Cable	DC1500V,≤40A	IEC 62930
CONNECTOR	MC4-EVO2 or Compatible	DC1500V,≤40A	IEC62852

Remark、 Plastic over-mold material is suitable for outdoor use with respect to exposure to UV light, water exposure and immersion in accordance with UL 746A,746B and746C.

TECHNICAL SPEC


ITEM	SPEC
Rated voltage	DC 1500V
Standard	IEC62852
Ip waterproof	IP68 (1m,1h)
Flame Retardant Rating	UL94-V0
String Input Current Max	≤40A for every input string
BUS Current Max	REFER BELOW TABLE
Life	≥30years

SE6 Series


Product Overview




The SE6 series of energy storage connectors are based on a number of patented designs. First of all, the multi-angle positioning of SE6 series makes the cable routing more beautiful and better overall after the system installation. The SE6 series adopts a dual safety button design, which allows the male and female connectors to be unlocked only when both release buttons are pressed at the same time, enhancing electrical safety without adding additional operating actions. The SE6 series adopts a dual safety button design. The SE6 series is designed with dual safety buttons that can only be unlocked between the male and female connectors when both buttons are pressed at the same time, enhancing electrical safety without adding additional operations.




Male Black(MB)




Female Black(FB)




Max DC 1500V




TUVPPP/UL4128




-40℃~125℃




Male Orange(MO)




Female Orange(FO)



UL94-V0



IP 68



UV Resistance

Technical Data

Rated Voltage	Max DC 1500V
Certified & Qualified	TUV PPP51090A / UL4128
Rated Current	100A(10mm ²);100A(16mm ²);130A(35mm ²)
Ambient Temp	-40℃ up to +125℃
Contact Resistance	≤0.2mΩ
IP	IP68
Fire Resistance	UL94-V0
Materials	Copper Alloy/PA66
Safety Lock System	Double Protective Lock System

SE6 Series

Order Data



TYPE	Voltage/Current	Terminal Type	Color	Remark
SE6-MO-B	1500V,130A	Busbar	Orange	
SE6-MB-B			Black	
SE6-MO-T		Threaded Post	Orange	
SE6-MB-T			Black	
SE6-MO-10	1500V,100A	Crimp for 10mm ² / 8 AWG Copper Cable	Orange	
SE6-MB-10			Black	
SE6-MO-16	1500V,100A	Crimp for 16mm ² / 6 AWG Copper Cable	Orange	
SE6-MB-16			Black	
SE6-MO-25	1500V,130A	Crimp for 25mm ² / 4 AWG Copper Cable	Orange	
SE6-MB-25			Black	



TYPE	Voltage/Current	Terminal Type	Color	Remark
SE6-FLO-10	1500V,100A	Crimp for 10mm ² / 8 AWG Copper Cable	Orange	
SE6-FLB-10			Black	
SE6-FLO-16	1500V,130A	Crimp for 16mm ² / 6 AWG Copper Cable	Orange	
SE6-FLB-16			Black	
SE6-FLO-25	1500V,130A	Crimp for 25mm ² / 4 AWG Copper Cable	Orange	
SE6-FLB-25			Black	

SE8 Series

Product Overview









The SE8 series of energy storage connectors are based on a number of patented designs. First of all, the rotatable design of SE8 series makes the cable routing more beautiful and better overall after system installation. The SE8 series adopts a dual safety button design, which allows the male and female connectors to be unlocked only when both release buttons are pressed at the same time, enhancing electrical safety without adding additional operational actions.

This enhances electrical safety without adding extra operation. The SE8 series is designed with dual safety buttons that can be unlocked between the male and female connectors only when both buttons are pressed at the same time, enhancing electrical safety without additional operation.

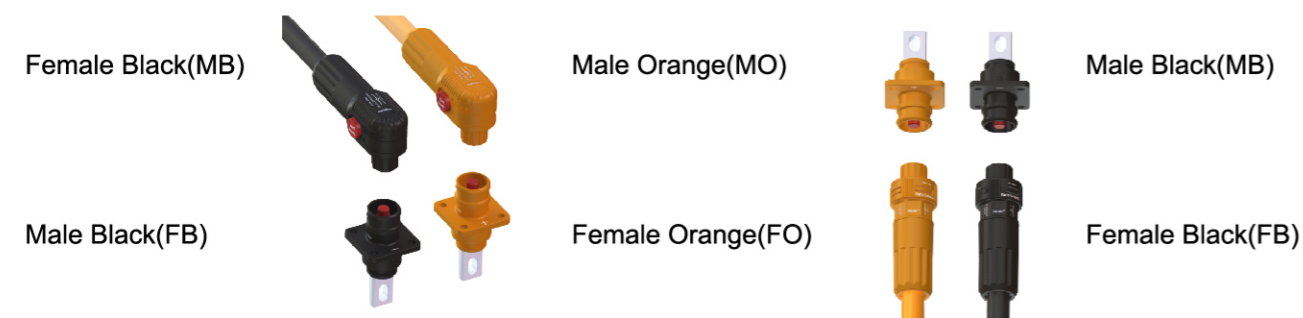
SE8 Series is a field installable, highly reliable alternative to common compression lugs. Using industry standard crimp, screw, and busbar termination options, thus eliminating the need to purchase special torque tools. SUNTREE's is an environmentally sealed version of our original but available in smaller sizes, and features a quick lock and press-to-release design. is a compact, quick mating, and robust product line. high amperage contact technology utilizes high tensile strength properties of a stamped and formed, high conductivity alloy grid to produce low insertion forces while maintaining a large conductive surface area. The V6 version of the represents the culmination of three years of research and development in laser welding copper based alloys.



	
Max DC 1500V	TUVPPP/UL4128
	
-40 °C ~125 °C	UL94-V0
	
IP 68	UV Resistance

Technical Data

Rated Voltage	Max DC 1500V
Certified & Qualified	TUV PPP51090A / UL4128
Rated Current	220A(35mm ²);250A(50mm ²);250A(70mm ²)
Ambient Temp	-40 °C up to +125 °C
Contact Resistance	≤0.2mΩ
IP	IP68
Fire Resistance	UL94-V0
Materials	Copper Alloy/PA66
Safety Lock System	Double Protective Lock System



SE8 Series

Order Data



SE8-MO
(SE8 Male Connector:Orange)

SE8-MB
(SE8 Male Connector:Black)

TYPE	Voltage/Current	Terminal Type	Color	Remark
SE8-MO-B	1500V,250A	Busbar	Orange	
SE8-MB-B			Black	
SE8-MO-T		Threaded Post	Orange	
SE8-MB-T			Black	
SE8-MO-35	1500V,220A	Crimp for 35mm ² / 2 AWG Copper Cable	Orange	
SE8-MB-35			Black	
SE8-MO-50	1500V,250A	Crimp for 50mm ² / 1 AWG Copper Cable	Orange	
SE8-MB-50			Black	



SE8-FLO
SE8 Female L-Connector:Orange



SE8-FLB
SE8 Female L-Connector:Black

Female Type	Voltage/Current	Terminal Type	Cable Spec	Color	Remark
SE8-FLO-35	1500V,220A	Crimp for 35mm ² / 2 AWG Copper Cable	35mm ² / 2 AWG	Orange	
SE8-FLB-35				Black	
SE8-FLO-50	1500V,250A	Crimp for 50mm ² / 1 AWG Copper Cable	50mm ² / 1 AWG	Orange	
SE8-FLB-50				Black	
SE8-FLO-70	1500V,250A	Crimp for 70mm ² / 2/0 AWG Copper Cable	70 mm ² / 2/0 AWG	Orange	
SE8-FLB-70				Black	



SE8-FIO
SE8 Female I-Connector:Orange



SE8-FIB
SE8 Female I-Connector:Black

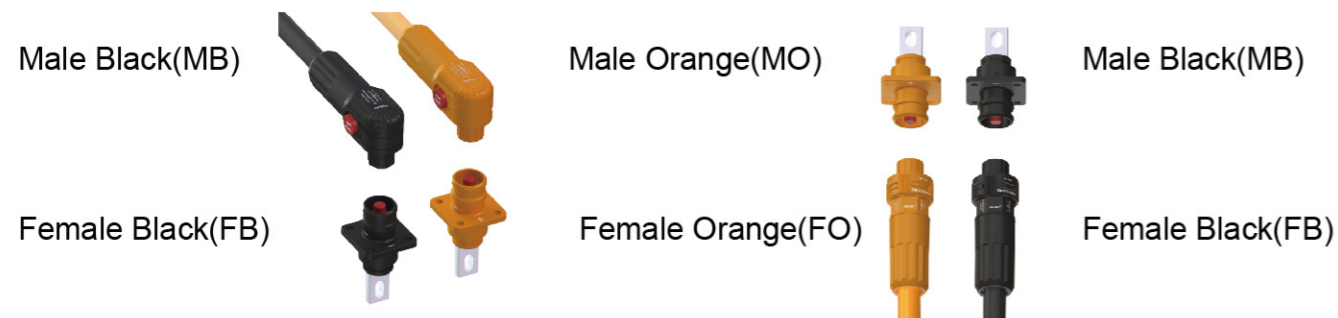
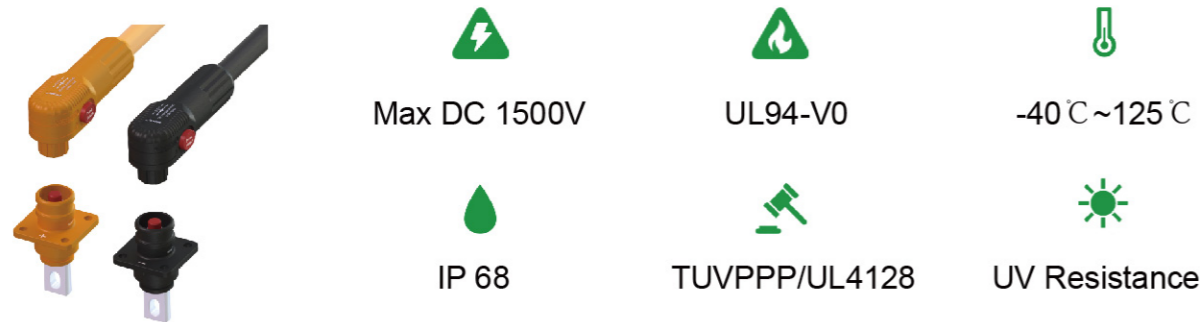
Female Typ	Voltage/Current	Terminal Type	Cable Spec	Color	Remark
SE8-FIO-35	11500V,220A	Crimp for 35mm ² / 2 AWG Copper Cable	35mm ² / 2 AWG	Orange	
SE8-FIB-35				Black	
SE8-FIO-50	1500V,250A	Crimp for 50 mm ² / 1 AWG Copper Cable	50mm ² / 1 AWG	Orange	
SE8-FIB-50				Black	
SE8-FIO-70	1500V,250A	Crimp for 70mm ² / 2/0 AWG Copper Cable	70 mm ² / 2/0 AWG	Orange	
SE8-FIB-70				Black	

SE10 Series



Product Overview

The SE10 series of energy storage connectors are based on a number of patented designs. First of all, the rotatable design of SE10 series makes the cable routing more beautiful and integral after system installation. The SE10 series adopts a dual safety button design, which allows the male and female connectors to be unlocked only when both release buttons are pressed at the same time, enhancing electrical safety without adding additional operational actions. The SE10 series adopts a dual safety button design, which can only be unlocked between the male and female connectors by pressing the two release buttons at the same time. The SE10 series is designed with dual safety buttons that can only be unlocked between the male and female connectors when both buttons are pressed simultaneously, enhancing electrical safety without adding additional operation.



Technical Data

Rated Voltage	Max DC 1500V
Certified & Qualified	TUV PPP51090A / UL4128
Rated Current	300A(70mm ²);350A(95mm ²)
Ambient Temp	-40°C up to +125°C
Contact Resistance	≤0.2mΩ
IP	IP68
Fire Resistance	UL94-V0
Materials	Copper Alloy/PA66
Safety Lock System	Double Protective Lock System

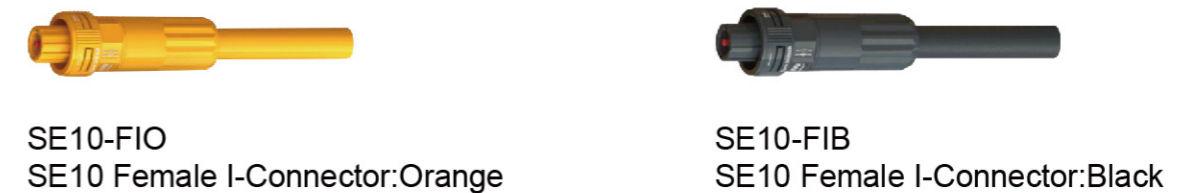
Order Data



TYPE	Voltage/Current	Terminal Type	Color	Remark
SE10-MO-B	1500V,300A	Busbar	Orange	
SE10-MB-B			Black	
SE10-MO-T		Threaded Post	Orange	
SE10-MB-T			Black	
SE10-MO-70	1500V,300A	Crimp for 70mm ² / (2/0) AWG Copper Cable	Orange	
SE10-MB-70			Black	
SE10-MO-95	1500V,350A	Crimp for 95mm ² / (3/0) AWG Copper Cable	Orange	
SE10-MB-95			Black	



Female Type	Voltage/Current	Terminal Type	Cable Spec	Color	Remark
SE10-FLO-70	1500V,300A	Crimp for 70mm ² / (2/0) AWG Copper Cable	70mm ² / 2/0 AWG	Orange	
SE10-FLB-70				Black	
SE10-FLO-95	1500V,350A	Crimp for 95mm ² / (3/0) AWG Copper Cable	95mm ² / 3/0 AWG	Orange	
SE10-FLB-95				Black	

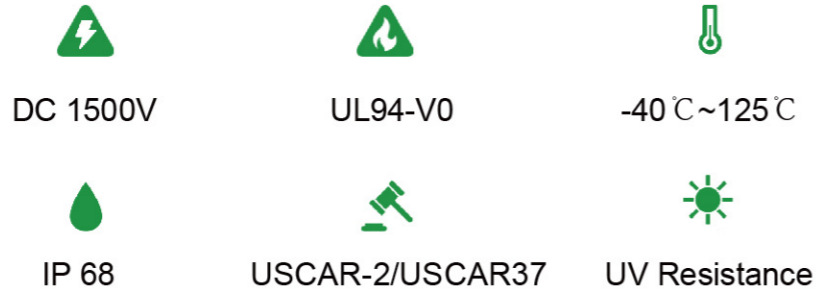


FemaleType	Voltage/Current	Terminal Type	Cable Spec	Color	Remark
SE10-FIO-70	1500V,300A	Crimp for 70mm ² / (2/0) AWG Copper Cable	70mm ² / 2/0 AWG	Orange	
SE10-FIB-70				Black	
SE10-FIO-95	1500V,350A	Crimp for 95mm ² / (3/0) AWG Copper Cable	95mm ² / 3/0 AWG	Orange	
SE10-FIB-95				Black	

SEC Series

Product Overview

SUNTREE Power Y Branch use high quality materials that guarantee long-term reliability. Lower contact resistance and higher current transfer capability ensure high product efficiency. SUNTREE Power Y Branch have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C.



Order Data



TYPE	Voltage/Current	Terminal Type	BUS Type	Terminal Type	Remark
SEC250-O-M8	1500V,250A	M8	21*3mm/21*2mm	M8	
SEC250-O-LM8		L M8		L M8	
SEC250-B-M8		M8		M8	
SEC250-B-LM8		LM8		LM8	
SEC350-O-M8	1500V,350A	M8	21*5mm/21*4mm	M8	
SEC350-O-LM8		LM8		LM8	
SEC350-B-M8		M8		M8	
SEC350-B-LM8		LM8		LM8	

Technical Data

Rated Voltage	Max DC 1500V
Rated Current	250A(EC250); 350A(EC350)
Ambient Temp	-40°C up to +125°C
Contact Resistance	≤0.1mΩ
IP	IP51
Fire Resistance	UL94-V0
Materials	Copper Alloy Tin Plated/PA66
Safety Lock System	Double Protective Lock System

Dimension:

