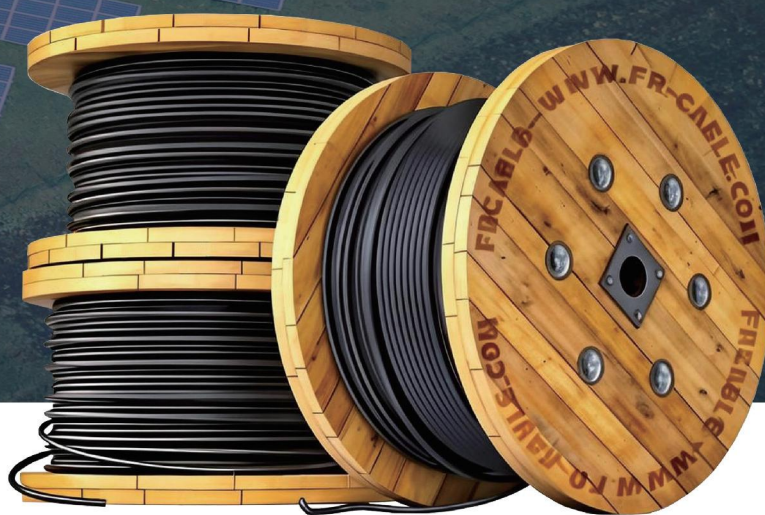


# SOLAR CABLE

For  
Photovoltaic  
Systems



**FRCABLE**

Solar Cables • Cable Harness • PV Connectors





FRCABLE is an innovative leader in the solar photovoltaic industry, specializing in high-quality and cost-effective solar cables, PV string wires, and energy storage cables.

Founded in 2007, FRCABLE is a subsidiary of Nuode Group (Stock code: 600110). The company operates four advanced Electron Beam Irradiation cross-link machines and eight high-speed cable extrusion lines, with a production capacity of 280,000 km per year. All FRCABLE solar cables are certified by TUV EN50618, IEC 62930, UL 4703, CUL, TUV EN50575, JET, and CE.

FRCABLE has built a strong reputation as a reliable and innovative manufacturer, consistently addressing the evolving needs of its customers. With over 17 years of extensive experience in medium to large-scale ground MW-level projects and small individual rooftop systems, the company has completed projects in most European countries, Australia, the USA, Canada, Mexico, Africa, the Middle East, and Asia.

By the end of 2024, our cumulative shipments of PV cables are projected to exceed 2,304,000 km, roughly equivalent to an installed capacity of 100 GW and comparable to planting 10.29 billion trees worldwide.

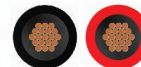


# TÜV EN50618 H1Z2Z2-K AND IEC 62930 131 DUAL-CERTIFIED



## Advantages

- ◆ Electron Beam Cross Linked compound, XLPE/XLPE.
- ◆ Resistance against UV, Ozone, Fluids, Oil, Salt & General Weathering.
- ◆ Halogen Free, Flame Retardant, Low Smoke Emission.
- ◆ 25 years lifetime expectancy.
- ◆ Applicable to all major PV Connectors.
- ◆ Higher water resistance.



## Application

The FRCABLE® DC Solar cable is TÜV EN50618 and IEC 62930 certified and designed for the connection of photovoltaic panels. Engineered to withstand harsh outdoor environments, the H1Z2Z2-K cable boasts superior UV resistance, ozone resistance, and water resistance, ensuring a reliable and long-lasting connection within your solar power system.

## Construction

- ◆ Conductor: Fine wire, Stranded tin-plated copper according to IEC 60228, class 5
- ◆ Insulation: XLPE, E-Beam cross-linked compound, flame retardant, halogen free
- ◆ Sheath: XLPE, E-Beam cross-linked compound, flame retardant, halogen free, UV and ozone resistant
- ◆ Sheath Color: Black/Red

## Electrical performance

- ◆ Voltage Rating: DC 1.5KV AC 1.0KV
- ◆ Max permitted operating voltage: DC 1.8KV
- ◆ Test Voltage: 6.5KV AC / 15KV DC

## Thermal performance

- ◆ Operation temperature : -40°C ~ +120°C
- ◆ Ambient temperature : -40°C ~ +90°C
- ◆ Maximum short circuit temperature : 250°C, +536°F, 5s

## Bending radius

- ◆ Fixed setting :  $>4 \times \varnothing$
- ◆ Moves on occasion :  $>5 \times \varnothing$

## Material characteristics / standard

- ◆ Fireproof performance : EN 60332-1-2
- ◆ Smoke emission : EN 61034-1; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV EN50618
- ◆ Applied standard: TÜV EN50618

Order	Conductor	Jacket	Construction	Outer Dia $\varnothing$	Conductor resistance	Current
number	n $\times$ mm <sup>2</sup>	color	mm	O.D mm	max.m $\Omega$ /m	A
FREN02	1 $\times$ 2.5	B/R	49/0.25	5.5 $\pm$ 0.2	8.21	41
FREN03	1 $\times$ 4.0	B/R	56/0.28	5.7 $\pm$ 0.2	5.09	55
FREN04	1 $\times$ 6.0	B/R	84/0.28	6.2 $\pm$ 0.2	3.39	70
FREN05	1 $\times$ 10.0	B/R	77/0.40	7.2 $\pm$ 0.2	1.95	98
FREN06	1 $\times$ 16.0	B/R	126/0.40	9.4 $\pm$ 0.2	1.24	132
FREN07	1 $\times$ 25.0	B/R	196/0.40	11.4 $\pm$ 0.2	0.795	176
FREN08	1 $\times$ 35.0	B/R	273/0.40	12.83 $\pm$ 0.2	0.565	218

# IEC 62930 1500V AND UL 4703 2000V DUAL-CERTIFIED

FRCABLE E332231 (UL) PV Wire \*\*AWG 90°C Dry and Wet 1000/2000V Sun Res -40°C VW-1

----- Δ 62930 IEC 131 1X\*mm<sup>2</sup> Halogen Free Low Smoke DC 1500V



## Advantages

- ◆ UL 4703, EN 50618, IEC 62930, worldwide approved.
- ◆ Electron Beam Cross Linked compound, XLPE/XLPE.
- ◆ Resistance against UV, Ozone, Fluids, Oil, Salt & General Weathering.
- ◆ Halogen Free, Flame Retardant, Low Smoke Emission.
- ◆ 25 years lifetime expectancy.
- ◆ Applicable to all major PV Connectors.

## Application

The FRCABLE® DC Solar cable is UL4703, EN50618 and IEC 62930 certified and designed for the connection of photovoltaic panels. Engineered to withstand harsh outdoor environments, the cable boasts superior UV resistance, ozone resistance, and water resistance, ensuring a reliable and long-lasting connection within your solar power system.

## Construction

- ◆ Conductor: Fine wire, Stranded tin-plated copper according to IEC 60228, class 5
- ◆ Insulation: XLPE, E-Beam cross-linked compound, flame retardant, halogen free
- ◆ Sheath: XLPE, E-Beam cross-linked compound, flame retardant, halogen free, UV and ozone resistant
- ◆ Sheath Color: Black/Red

## Electrical performance

- ◆ Voltage Rating: DC 1500KV
- ◆ Max permitted operating Voltage : DC 1.8KV
- ◆ Max voltage: DC 2000V (UL)

## Thermal performance

- ◆ Operation temperature : -40°C ~ +120°C
- ◆ Max.conductor temperature: 120°C
- ◆ Maximum short circuit temperature : 250°C, +536°F, 5s

## Bending radius

- ◆ Fixed setting :  $>4 \times \varnothing$  ( $D < 8\text{mm}$ )
- ◆ Moves on occasion :  $>5 \times \varnothing$  ( $D \geq 8\text{mm}$ )

## Material characteristics / standard

- ◆ Fireproof performance : IEC 60332-1; UL-VW-1
- ◆ Smoke emission : IEC 61034; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : IEC 62930, UL4703
- ◆ Applied : IEC 62930, UL4703

Conductor				Insulation		Jacket	OD.	Conductor Resistance (20 °C)	Rated Current at 60 °C in air
AWG	Area	No.	OD.	Thickness	OD.	Thickness			
	mm <sup>2</sup>	N/mm	mm	mm	mm	mm	mm	Ω/km	A
14	2.5	45/0.25	1.93	1.14	4.21±0.1	0.76	5.73±0.1	8.21	41.0
12	4.0	56/0.28	2.49	1.14	4.78±0.1	0.76	6.30±0.1	5.09	55.0
10	6.0	84/0.28	5.00	1.14	5.30±0.1	0.76	6.82±0.1	3.39	70.0
8	10.0	76/0.40	3.96	1.39	6.74±0.1	0.76	8.26±0.1	1.95	98.0
6	16.0	121/0.40	5.00	1.39	7.78±0.2	1.14	10.06±0.2	1.24	132.0
4	25.0	180/0.40	7.10	1.39	9.88±0.2	1.14	12.16±0.2	0.795	176.0



# TÜV EN50618 H1Z2Z2-K CCA COMBUSTION GRADE

FRCABLE ▲ TÜV EN50618 H1Z2Z2-K DC 1.5KV 1×mm<sup>2</sup> CPR Cca

FRCABLE ▲ TÜV EN50618 H1Z2Z2-K DC 1.5KV 1×mm<sup>2</sup> CPR Cca



## Advantages

- ◆ Reaction to fire CPR Cca according to EN 50575(2.5 to 25mm<sup>2</sup>)
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow
- ◆ Flexibility under cold conditions
- ◆ Long usable life, expected usable life over 25 years
- ◆ Applicable to all common connectors

## Application

In a solar power system of rated voltage  $U_0=1.5KV$ , PV cables are used to connect between solar panels and inverters.

## Construction

- ◆ Conductor : Soft tinned annealed copper according to IEC 60228, class 5
- ◆ Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds
- ◆ Jacket : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : All the chromatographic

## Electrical performance

- ◆ Rated Voltage :  $U_0=1.5kV$  DC
- ◆ Test Voltage : 6.5KV AC 5min

## Thermal performance

- ◆ Operation temperature :  $-40^{\circ}C \sim +120^{\circ}C$
- ◆ Ambient temperature :  $-40^{\circ}C \sim +90^{\circ}C$
- ◆ Maximum short circuit temperature :  $250^{\circ}C$ ,  $+536^{\circ}F$ , 5s

## Bending radius

- ◆ Fixed setting :  $>4 \times \varnothing$
- ◆ Moves on occasion :  $>5 \times \varnothing$

## Material characteristics / standard

- ◆ Reaction to fire CPR: EN 50575
- ◆ Smoke emission : EN 61034-1; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV EN50618
- ◆ Applied standard: TÜV EN50618

Order	Cross section	Color	Construction	Outer diameter $\varnothing$	Max resistance	Ampacity
number	n×mm <sup>2</sup>	color	mm	O.D mm	max.mΩ/m	A
FRCPR02	1×2.5	B/R	49/0.25	5.5±0.2	8.21	41
FRCPR03	1×4.0	B/R	56/0.28	5.7±0.2	5.09	55
FRCPR04	1×6.0	B/R	84/0.28	6.2±0.2	3.39	70
FRCPR05	1×10.0	B/R	77/0.40	7.2±0.2	1.95	98
FRCPR06	1×16.0	B/R	126/0.40	9.4±0.2	1.24	132
FRCPR07	1×25.0	B/R	196/0.40	11.4±0.2	0.795	176
FRCPR08	1×35.0	B/R	273/0.40	12.83±0.2	0.565	218

# ALUMINUM CONDUCTOR SOLAR CABLE

## TÜV 2PFG 2642 PV1500DC-AL



### Advantages

- ◆ Halogen-free
- ◆ E-beam cross-linked compounds
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow

### Application

According to TÜV Rheinland 2PFG2642, aluminum solar cables are engineered for DC 1.5KV PV systems. They are particularly well-suited for outdoor applications because of their durable outer sheath.

### Construction

- ◆ Conductor : Stranded Aluminum Alloy, Class 5
- ◆ Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds
- ◆ Jacket : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : Black / Red

### Electrical performance

- ◆ Rated Voltage :  $U_0=1.5\text{kV DC}$
- ◆ Test Voltage : 6.5KV AC 5min

### Thermal performance

- ◆ Operation temperature :  $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$
- ◆ Ambient temperature :  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- ◆ Maximum short circuit temperature :  $250^{\circ}\text{C}$ ,  $+536^{\circ}\text{F}$ , 5s

### Bending radius

- ◆ Fixed setting :  $>4 \times \varnothing$
- ◆ Moves on occasion :  $>5 \times \varnothing$

### Material characteristics / standard

- ◆ Fireproof performance : EN 60332-1-2
- ◆ Smoke emission : EN 61034-1; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : TÜV 2PFG 2642
- ◆ Applied standard: TÜV 2PFG 2642

Conductor			Insulation	Jacket		Conductor Resistance (20 °C)
Area	No.	OD.	Thickness	Thickness	OD.	
mm <sup>2</sup>	N/mm	mm	mm	mm	mm	Ω/km
4.0	56/0.30	2.6	0.7	0.8	5.6±0.1	7.2
6.0	84/0.30	3.2	0.7	0.8	6.2±0.1	4.8
10.0	80/0.40	4.2	0.8	0.8	7.4±0.1	3.08
16.0	123/0.40	5.5	0.9	0.9	9.1±0.1	1.91
25.0	193/0.40	6.9	1.0	1.0	10.9±0.2	1.20
35.0	266/0.40	9.6	1.1	1.1	13.2±0.2	0.868

# COPPER PV WIRE UL4703 1000V/2000V



1 and 2 INSULATION COLOR

## MARKING :

(UL) E332231 Type PV Wire \*AWG 90 C Dry and Wet 1000/2000V Sun Res -40 C VW-1 Direct Burial FRCABLE

Description	19stranded
1.Rated Voltage:	1000/2000V
2.Ambient Temperature:	-40 C--90 C Max. Temperature at Conductor 90 C
3.Conductor:	Bare copper
4.Insulation:	90 C XLPE
5.Jacket:	90 C XLPE
6.Color:	Insulation: Black Jacket: Black, Red, White

## Construction

Conductor		Insulation	Jacket		Conductor Resistance
Gauge	No.	Nom.Thickness	Nom.Thickness	OD.	
AWG	N/mm	mm	mm	mm	max Ω/km
6	19/0.94	1.39	1.14	9.82±0.1	1.403
8	19/0.75	1.39	0.76	8.05±0.1	2.23
10	19/0.59	1.14	0.76	6.82±0.1	3.546
12	19/0.48	1.14	0.76	6.2±0.1	5.64

## Electrical Properties

Item	Unit	Values
Withstand voltage (2-8AWG)	V/5min	AC7500
Withstand voltage (8-18AWG)	V/5min	AC6000

## Electrical Properties

Item		Unit	Insulation	Jacket
Unaged	Tensile strength		≥10.3Mpa	≥10.3Mpa
	Elongation		≥150%	≥150%
Aging	Tensile strength	121±2 C X168h	≥70%	≥ 70%
	Elongation			
Conductor Corrosion		Unaged and aging	Pass	
Deformation Test		131±2 C X1h	≤ 30%	
Cold Shock		-40±1 C X16h	No crack	
Flaming test				VW-1

# ALUMINUM PV WIRE UL4703 1000V/2000V



- 1 – 1<sup>st</sup> insulation:  
halogen free special copolymer
- 2 – 2<sup>nd</sup> insulation:  
halogen free special copolymer
- 3 – Conductor:  
8000 series Aluminum

1 and 2 INSULATION COLOR



**MARKING :**

(UL) E332231 Type PV Wire AL\*AWG 90°C Dry and Wet 1000/2000V Sun Res -40°C VW-1 Direct Burial FRCABLE

Description	19stranded
1.Rated Voltage:	1000/2000V
2.Ambient Temperature:	-40℃--90℃ Max. Temperature at Conductor 120℃
3.Conductor:	8000 series Aluminum
4.Insulation:	90℃ XLPE
5.Jacket:	90℃ XLPE
6.Color:	Insulation: Black Jacket: Black, Red, White

**Construction**

Conductor			Insulation	Jacket		Conductor Resistance (20℃)
Gauge	No.	OD.	Nom.Thickness	Nom.Thickness	OD.	
AWG	N/mm	mm	mm	mm	mm	max Ω/km
2	19/1.50	7.5	1.39	1.14	12.56±0.2	0.8574
4	19/1.19	5.95	1.39	1.14	11.01±0.2	1.363
6	19/0.94	4.75	1.39	1.14	9.76±0.2	2.168

**Electrical Properties**

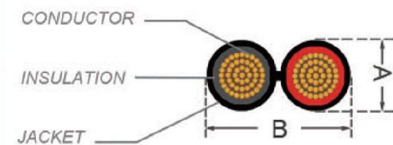
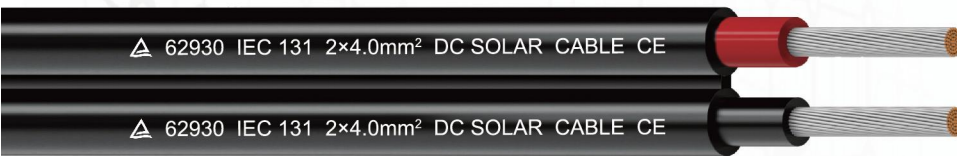
Item	Unit	Values
Withstand voltage (2-8AWG)	V/5min	AC7500
Withstand voltage (8-18AWG)	V/5min	AC6000

**Electrical Properties**

Item		Unit	Insulation	Jacket
Unaged	Tensile strength		≥10.3Mpa	≥10.3Mpa
	Elongation		≥150%	≥150%
Aging	Tensile strength	121±2℃X168h	≥70%	≥ 70%
	Elongation			
Conductor Corrosion		Unaged and aging	Pass	
Deformation Test		131±2℃X1h	≤ 30%	
Cold Shock		-40±1℃X16h	No crack	
Flaming test				VW-1



# IEC 62930 CERTIFICATED DC SOLAR CABLE TWIN CORES DC 1.5KV



## Advantages

- ◆ E-beam cross-linked compounds
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow
- ◆ Flexibility under cold conditions
- ◆ Long usable life, expected usable life over 25 years (90°C)
- ◆ Applicable to all common connectors

## Application

In a solar power system of rated voltage  $U_0=1.5KV$ , PV cables are used to connect between solar panels and inverters.

## Construction

- ◆ Conductor : Soft tinned annealed copper according to IEC 60228, class 5
- ◆ Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds
- ◆ Jacket : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : All the chromatographic

## Electrical performance

- ◆ Rated Voltage :  $U_0=1.5kV$  DC
- ◆ Test Voltage : 6.5KV AC 5min

## Thermal performance

- ◆ Operation temperature :  $-40^{\circ}C \sim +120^{\circ}C$
- ◆ Ambient temperature :  $-40^{\circ}C \sim +90^{\circ}C$
- ◆ Maximum short circuit temperature :  $250^{\circ}C$ ,  $+536^{\circ}F$ , 5s

## Bending radius

- ◆ Fixed setting :  $>4 \times \varnothing$
- ◆ Moves on occasion :  $>5 \times \varnothing$

## Material characteristics / standard

- ◆ Fireproof performance : EN 60332-1-2
- ◆ Smoke emission : EN 61034-1; EN 61034-2
- ◆ Low fire load : DIN 51900
- ◆ Approval : IEC 62930
- ◆ Applied standard: IEC 62930

Order	Conductor	Jacket	Construction	Outer Dia mm		Coductor resistance	Current
number	n×mm <sup>2</sup>	color	mm	A	B	max.mΩ/m	A
FRENT04	2×4.0	B/R	56//0.28	5.5±0.3	12.5±0.3	8.21	41
FRENT06	2×6.0	B/R	84//0.28	6.0±0.3	13.5±0.3	5.09	55

# ENERGY BATTERY CABLE

## ES-RYJYJ-125 DC 1.5KV



### Advantages

- ◆ High currents and voltages
- ◆ High flame retardant
- ◆ Low smoke halogen-free
- ◆ Resistan to battery acid
- ◆ High flexibility
- ◆ Easy to install

### Application

The FRCABLE® energy storage cable is TUV-certified and specifically engineered for high-performance electrical connections within energy storage systems. This cable is designed to ensure safe and efficient power transmission between battery packs, inverters, and grid interfaces.

### Construction

- ◆ Conductor: Bare copper, Class 5
- ◆ Insulation: XLPE
- ◆ Jacket: XLPE

### Technical Data:

- ◆ Rated Voltage: 1500V
- ◆ Rated Temperature: -40°C ~ +125°C
- ◆ Min. Bending Radius: 5XO.D.
- ◆ Flame test: IEC 60332-1
- ◆ Standard: PPP 58049, CQC 1143

Conductor			Insulation			Jacket		
Gauge	No.	OD.	Nom. Thicknes	Min. Thicknes	OD.	Nom. Thicknes	Min. Thicknes	OD.
AWG	N/mm	mm	mm	mm	mm	mm	mm	mm
4	56/0.28	2.4	0.8	0.62	4.0±0.1	0.7	0.50	5.4±0.1
6	84/0.28	3.0	0.8	0.62	4.6±0.1	0.7	0.50	6.0±0.1
10	77/0.40	4.1	1.0	0.80	6.1±0.1	0.7	0.50	7.5±0.1
16	126/0.40	5.9	1.1	0.89	8.1±0.1	0.7	0.50	9.5±0.2
25	196/0.40	7.2	1.3	1.07	9.8±0.2	0.8	0.58	11.4±0.2
35	273/0.40	8.7	1.3	1.07	11.3±0.2	0.8	0.58	12.9±0.3
50	235/0.50	10.5	1.5	1.25	13.5±0.2	0.8	0.58	15.1±0.5
70	340/0.50	12.0	1.5	1.25	15.0±0.3	0.9	0.67	16.8±0.5
95	456/0.50	14.0	1.5	1.25	17.0±0.3	0.9	0.67	18.8±0.5

# PV CONNECTORS

**FRCABLE** provides the right connectors for your PV systems. All the connectors are from the major manufacturers, which are made from high-quality, rugged materials.

## Stäubli/Multi-Contact Original MC4

Multi-Contact

MC

### Your advantages:

- ◆ Over 1.5 billion installed MC4 connectors connect more than 200GW OR 50% of global PV capacity.
- ◆ As a pioneer and global market leader for PV connectors, Stäubli has over 20 years experience in PV sector.
- ◆ Proven MULTILAM technology with high long term stability which over the lifetime of the connector guarantees lasting low power loss and outages.

Order No.	Item No.	Type		Φ Range of cable gland	Conductor cross section	
820010	32.0010P0001-UR	PV-KBT4/2,5I-UR	Female	5-6	2,5	14
820011	32.0011P0001-UR	PV-KST4/2,5I-UR	Male	5-6	2,5	14
820140	32.0140P0001-UR	PV-KBT4/2,5X-UR	Female	5.5-7.4	2,5	14
820141	32.0141P0001-UR	PV-KST4/2,5X-UR	Male	5.5-7.4	2,5	14
820012	32.0012P0001-UR	PV-KBT4/2,5II-UR	Female	5.9-8.8	2,5	14
820013	32.0013P0001-UR	PV-KST4/2,5II-UR	Male	5.9-8.8	2,5	14
820014	32.0014P0001-UR	PV-KBT4/6I-UR	Female	5-6	4;6	12;10
820015	32.0015P0001-UR	PV-KST4/6I-UR	Male	5-6	4;6	12;10
820142	32.0142P0001-UR	PV-KBT4/6X-UR	Female	5.5-7.4	4;6	12;10
820143	32.0143P0001-UR	PV-KST4/6X-UR	Male	5.5-7.4	4;6	12;10
820016	32.0016P0001-UR	PV-KBT4/6II-UR	Female	5.9-8.8	4;6	12;10
820017	32.0017P0001-UR	PV-KST4/6II-UR	Male	5.9-8.8	4;6	12;10
820080	32.0080P-UR	PV-KBT4/8II-UR	Female	6.05-8.56	-	8
820081	32.0081P-UR	PV-KST4/8II-UR	Male	6.05-8.56	-	8
820034	32.0034P0001	PV-KBT4/10II	Female	5.9-8.8	10	-
820035	32.0035P0001	PV-KST4/10II	Male	5.9-8.8	10	-

STÄUBLI



## Stäubli/Multi-Contact Original MC4 PV-Branch

Order No.	Male cable coupler Item No.	Female cable coupler Item No.	Rated current	Rated current
920019	32.0019	32.0018	30A	1000V(IEC)





## Stäubli/Multi-Contact Original MC4-EVO 2

Order No.	Item No.	Type	Φ Range of cable gland	Conductor cross section
100082	32.0082P0001-UR	PV-KBT4-EVO 2/2,5I-UR	Female 4.7-6.4	2.5 14
100083	32.0083P0001-UR	PV-KST4-EVO 2/2,5I-UR	Male 4.7-6.4	2.5 14
100084	32.0084P0001-UR	PV-KBT4-EVO 2/2,5II-UR	Female 6.4-8.4	2.5 14
100085	32.0085P0001-UR	PV-KST4-EVO 2/2,5II-UR	Male 6.4-8.4	2.5 14
100086	32.0086P0001-UR	PV-KBT4-EVO 2/6I-UR	Female 4.7-6.4	4;6 12;10
100087	32.0087P0001-UR	PV-KST4-EVO 2/6I-UR	Male 4.7-6.4	4;6 12;10
100088	32.0088P0001-UR	PV-KBT4-EVO 2/6II-UR	Female 6.4-8.4	4;6 12;10
100089	32.0089P0001-UR	PV-KST4-EVO 2/6II-UR	Male 6.4-8.4	4;6 12;10
100090	32.0092P0001-UR	PV-KBT4-EVO 2/10II-UR	Female 6.4-8.4	10 8
100091	32.0093P0001-UR	PV-KST4-EVO 2/10II-UR	Male 6.4-8.4	10 8

**STÄUBLI**



## TOP Connector ST01/02

Order No.	Type	Cross-section Φ mm²	Outer sheath Φ mm
111011	ST01 Female	4.0-6.0	5.5-7.0
111012	ST01 Male	4.0-6.0	5.5-7.0
Rated voltage 1500V			
111521	ST02 Female	4.0-6.0	5.5-7.0
111522	ST02 Male	4.0-6.0	5.5-7.0



## TZCD Connector TT01/02

Order No.	Type	Cross-section Φ mm²	Outer sheath Φ mm
121011	TT01 Female	4.0-6.0	5.5-7.0
121012	TT01 Male	4.0-6.0	5.5-7.0
Rated voltage 1500V			
121521	TT02 Female	4.0-6.0	5.5-7.0
121522	TT02 Male	4.0-6.0	5.5-7.0



## TONGLIN Connector TL01/02

Order No.	Type	Cross-section Φ mm²	Outer sheath Φ mm
131011	TL01 Female	4.0-6.0	5.5-7.0
131012	TL01 Male	4.0-6.0	5.5-7.0



# SOLAR CABLE ASSEMBLIES

We will deliver custom solar cable assemblies products that are tailored to your design specifications, your application and performance requirements. Minimize the amount of installation work and increase operational safety.

## Cable Extensions



Order No.1513111

- 1, Variety and flexibility, cable conductor cross-sections from 2.5 to 16mm<sup>2</sup>.
- 2, High quality Machine-made, monitored crimp quality and reduced contact resistance.

## Cable Harness



Order No.1523112

- 1, Customization service, pre-assembled, ready-to-plug, no wasted off-cuts.
- 2, Efficient, fast on-site installation.



Order No.1533113

- 1, Y type 1 to 2 branch.
- 2, Customer-specific cable lengths are available on request.



Order No.1543114

- 1, Y type 1 to 3 branch.
- 2, Customer-specific cable lengths are available on request.



Order No.1553115

- 1, T type PV cable harness.
- 2, Customer-specific cable lengths are available on request.



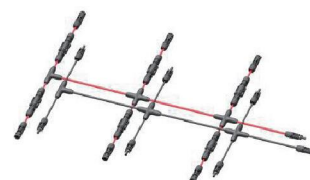
Order No.1563116

- 1, Customer-specific cable lengths are available on request.
- 2, Cable range 2.5mm<sup>2</sup> to 6.0mm<sup>2</sup>.



Order No.1573117

- 1, Customer-specific cable lengths are available on request.
- 2, Cable range 2.5mm<sup>2</sup> to 10mm<sup>2</sup>.



Order No.1583118

- 1, Parallel multiple strings in one output.
- 2, Cable range 2.5mm<sup>2</sup> to 6.0mm<sup>2</sup>.

# SOLAR ACCESSORIES

## Steel cable ties

Order No.	Dimensions	Length mm(inch)	Width mm(inch)	Min. loop tensile strength N(LBS)
214625	4.6×250	250(9.84)	4.6(0.181)	800(180)
214630	4.6×300	300(11.8)	4.6(0.181)	800(180)
214635	4.6×350	350(13.78)	4.6(0.181)	800(180)
214640	4.6×400	400(15.75)	4.6(0.181)	800(180)



## UV resistance Nylon cable ties

Order No.	Dimensions	Length mm(inch)	Width mm	Min. loop tensile strength KGS(LBS)
224630	4.6×300	300(11.8)	4.8	22(50)
224635	4.6×350	350(13.78)	4.8	22(50)
224638	4.6×380	380(14.8)	4.8	22(50)
224640	4.6×400	400(15.78)	4.8	22(50)



## Steel cable clip

Order No.	Type	Material	Specification	Application
220042	AMSI-SCC-4S/2	Stainless	2 x 4mmsq	Module
220044	AMSI-SCC-4S/4	Stainless	4 x 4mmsq	Module



## Steel grounding clip

Order No.	Type	Thickness(mm)	Compatible PV Rail
231345	SLT28 28mm×50 mm	0.3	Rail W 30mm * H 40mm with T Solt
231346	SLT40 40mm×50 mm	0.3	Rail W 40mm * H 40mm with T Solt







HUZHOU SHANGFU WIRE & CABLE HIGH TECHNOLOGY CO.,LTD  
NO. 688, Jingye Road, Huzhou city, Zhejiang, China.  
Web: [www.fr-cable.com](http://www.fr-cable.com) Email: [solar@fr-cable.com](mailto:solar@fr-cable.com)

We reserve the right to change product information without prior notice.