



## The fastest photovoltaic plug connector in the world: **SunCon.**

- Quick and easy to install
- Extended system including junction boxes
- Field-installable
- Outdoor rated
- Outstanding performance features
- RoHS and IP 68 tested



**HIRSCHMANN**

# The advantages are obvious: SunCon.



## Area of use

Whether you want to connect individual solar panels or multiple module installations, SunCon makes quick and easy connections for photovoltaic equipment that must withstand all weather conditions and ensure practically maintenance free, highly reliable, efficient

operation and outstanding low-loss power transmission features. Examples include off grid applications, in private houses and farms, for outdoor use – static or tracking – or incorporated into the building design of business premises and industrial production plants.

## Product features

The Hirschmann SunCon connector system is not only impressive due to its extremely quick and easy plug assembly – sensibly you only need a standard crimping tool for its installation. The SunCon connector is also impressive because of its slim design which only consists of one plastic housing and a contact

element that has outstanding mechanical and electrical features. Whether in heat, cold, damp or dirt, Hirschmann's SunCon ensures permanent, carefree operation. And because solar energy is an invaluable commodity, less than 5 mOhm of resistance ensures a priceless economic advantage.



## SunCon Product Family

Product name	SunCon BM5258	SunCon BF5258	SunCon BMI
<b>Product description</b>			
Description	Cable plug, robust, elastic insulating body with locking	Cable socket, robust, elastic insulating body with locking	Appliance plug with locking for DC input to the inverter. Suitable for BM/BF cable plug and cable socket
Order No.	934 517-100	934 518-100	934 519-100
Housing color	black	black	black
Other standard types	Order No. 934 517-300 SunCon BM5258 supplied in a box of 200 pieces Order No. 934 517-400 SunCon BM5258 isolating supplied in a box of 200 pieces	Order No. 934 518-300 SunCon BF5258 supplied in a box of 200 pieces Order No. 934 518-400 SunCon BF5258 isolating supplied in a box of 200 pieces	
Number of pins	1	1	1
<b>Technical data</b>			
Pin dimensions	5 mm	5 mm	5 mm
Suitable cables (diameter)*	5 + 0.2 up to 6 + 0	5 + 0.2 up to 6 + 0	up to 6 mm
Suitable solar cable cross sections	2.5 – 4 mm <sup>2</sup> AWG 14/12/10	2.5 – 4 mm <sup>2</sup> AWG 14/12/10	2.5 – 4 mm <sup>2</sup> AWG 14/12/10
Contact type	stamp roll contact	cage contact	stamp roll contact
Type of termination	crimp	crimp	crimp
Rated voltage	1000 V DC	1000 V DC	1000 V DC
Rated current	30 A at 70 °C / 23 A at 85 °C	30 A at 70 °C / 23 A at 85 °C	30 A at 70 °C / 23 A at 85 °C
Contact resistance	< 5 m Ohm	< 5 m Ohm	< 5 m Ohm
<b>Material</b>			
Contact material	CuZn	Cu-composite	CuZn
Contact surface material	tin plated	tin plated	tin plated
Housing material	PP/TPE	PP/TPE	PBT
<b>Environmental conditions</b>			
Protection class (IEC 60529)	IP 68	IP 68	IP 68
Pollution severity	2	2	2
Temperature range	- 40 °C up to + 110 °C	- 40 °C up to + 110 °C	- 40 °C up to + 110 °C
<b>Inflammability class</b>			
Housing	94 V-O	94 V-O	94 V-O
<b>Approvals</b>			
TÜV certification	Yes / 2 PFG 1161/01.06	Yes / 2 PFG 1161/01.06	pending
UL approval			pending
<b>Packing unit</b>			
Packing unit	100 pieces single packed	100 pieces single packed	100 pieces
<b>Accessories</b>			
Accessories to order separately			Sealing cap SunCon VK Order No. 934 526-100. Sealing ring SunCon DR Order No. 934 582-000
<b>Miscellaneous</b>			
Warning	The SunCon connectors are designed for fixed cable installations.	The SunCon connectors are designed for fixed cable installations.	

\* These connectors are designed for use with cables in accordance with the cables specified. For a more detailed and up to date list of suitable cables, please refer to the SunCon product manual.

### Quick connection outdoors:

SunCon is ideally suited to exposed, multiple installations.



The new SunCon plug connector scores highly where access is limited, due to its speed and ease of installation.





SunCon BFI	SunCon BFY/SunCon BMY	SunCon installation case	SunCon pv-measuring set
Appliance socket with locking for DC input to the inverter. Suitable for BM/BF cable plug and cable socket	Y-splitter (BFY) with two cable sockets and one cable plug or (BMY) with two cable plugs and one cable socket	Installation case incl. Multi-tool 934 528-100 SunCon Base XZC 40 934 526-100 SunCon VK 934 522-100 SunCon BFY 934 521-100 SunCon BMY 934 520-100 SunCon BFI 934 519-100 SunCon BMI 934 518-400 SunCon BF5258 934 517-400 SunCon BM5258 832 897-005 plug contacts 735 537-005 socket contacts 934 582-000 SunCon DR	Measurement adapter for 4 mm testing systems. For current and voltage testing at pv-modules and generators. CAT II
934 520-100	934 522-100 SunCon BFY 934 521-100 SunCon BMY	934 579-000	934 581-000
black	black		black/red
1	1		1
5 mm	5 mm		
up to 6 mm			
2,5 – 4 mm <sup>2</sup> AWG 14/12/10	assembled 4 mm <sup>2</sup>		
cage contact			
crimp	crimp		
1000V DC	1000V DC		1000VDC
30 A at 70 °C/23 A at 85 °C	30 A at 70 °C/23 A at 85 °C		30 A
< 5 m Ohm	< 5 m Ohm		
Cu-composite	Cu-composite		
tin plated	tin plated		
PBT	Macromelt		
IP 68	IP 68		
2	2		
-40 °C up to +110 °C	-40 °C up to +110 °C		-15 °C up to +70 °C
94 V-O	94 V-O		
pending	pending		
pending			
100 pieces	10 pieces	1 piece	1 piece
Sealing cap SunCon VK Order No. 934 526-100. Sealing ring SunCon DR Order No. 934 582-000			
	The SunCon connectors are designed for fixed cable installations.		

Hirschmann website, [www.hirschmann.com](http://www.hirschmann.com)

**SunCon – efficient connection technology that can be hidden behind modern industrial facades.**



**Quick and easy installation of off grid applications such as road traffic and traffic safety monitoring.**





SunCon BM2540 2000	SunCon BF 2540 2000	SunCon Base XZC 40	SunCon Box 2D	SunCon Box 4D
SunCon plug contacts 2000 pieces on coil. For automated cable assembly in combination with isolating body	SunCon socket contacts 2000 pieces on coil. For automated cable assembly in combination with isolating body	Multi-tool for cutting and stripping of solar cables (6 mm) and for crimping of SunCon contacts	Junction box for pv-modules with two cable glands, pressure balance element and captive cover  Assembled with 2 diodes	Junction box for pv-modules with two cable glands, pressure balance element and captive cover  Assembled with 4 diodes
934 517-400 (housing) 832 897-005 (contact)	934 518-400 (housing) 735 537-005 (contact)	934 528-100	934 584-100	934 584-200
		black/blue Order No. 934 528-200 for 2.5 mm <sup>2</sup> cable cross section and cable diameter up to 6 mm	black Order No. 934 584-200 SunCon Box 4D	black Order No. 934 584-100 SunCon Box 2D
2.5-4 mm <sup>2</sup> AWG 14/12/10 stamp roll contact crimp	2.5-4 mm <sup>2</sup> AWG 14/12/10 cage contact crimp	4 mm <sup>2</sup> with changing template		
Cu-composite tin plated	CuZn tin plated			
			IP 65	IP 65
			-40 °C up to +90 °C	-40 °C up to +90 °C
			PPO	PPO
2000 pieces, on roll	2000 pieces, on roll	1 piece		

**SunCon is the ideal connector system for simple upgrades of solar units.**



**Connected since June 2006: The PV reference system, "Stoia dler III" with 200 modules and 26 KWp of power.**



# When it is sunny think of the SunCon system.

## Requirements and Solutions

When it comes to connections in solar units on roofs and in solar parks, there are a few important things to consider. There cannot be very many system components. And these must be easy to prepare and install and must be highly reliable and resistant to the extremes of climate and weather for years. With the new SunCon system Hirschmann now offers the ideal solution for all requirements. Simple to install, with few parts, quick to put together

on the roof – with a single set of crimping pliers and without special tools. It can either be field – installed or overmolded extruded for larger cable diameters. All in one, including the distributor box on the panel, from one supplier who has a high level of expertise in aerials and building automation. Everything reduced to the minimum while maintaining top quality and an outstanding price/performance ratio.

## SunCon connectors are simply a better value



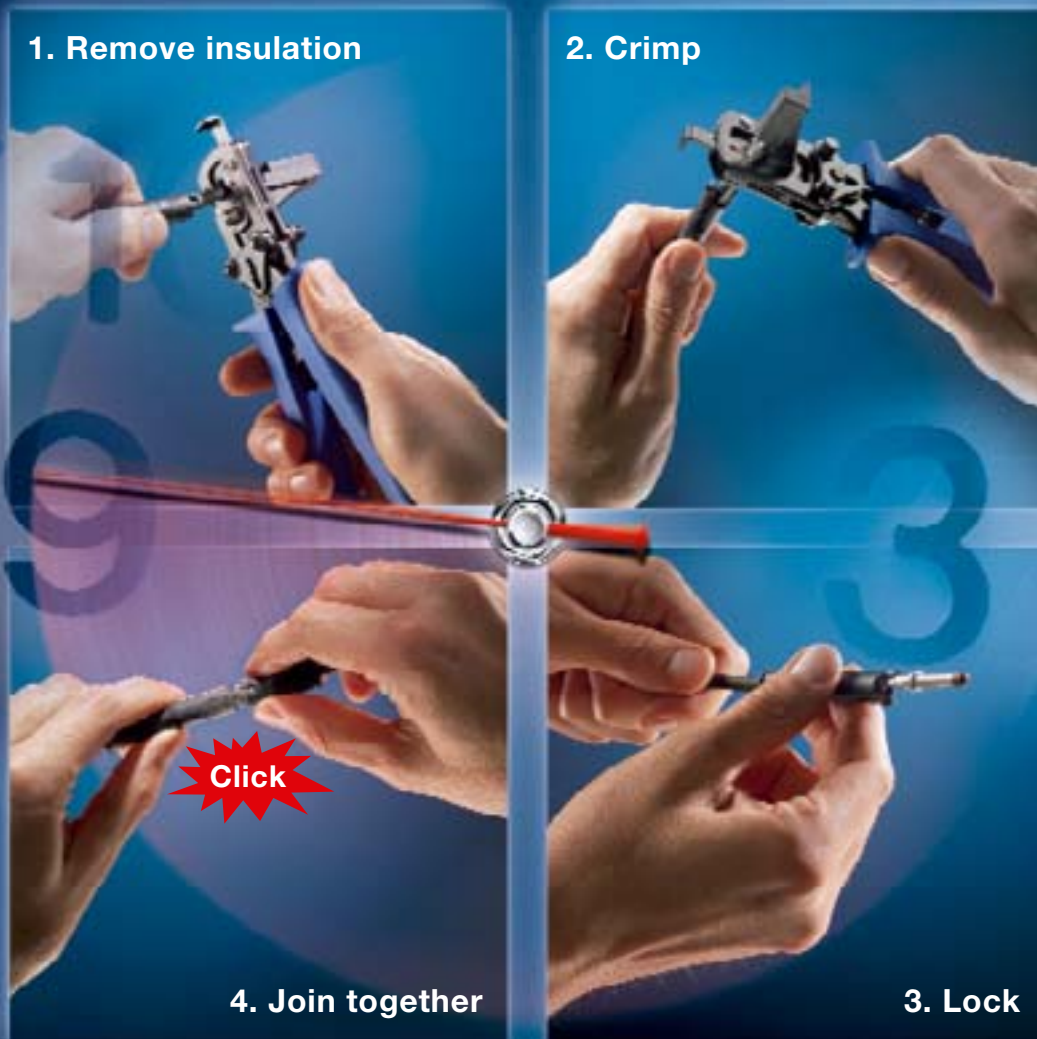
Hirschmann offers more: Customized/tailor-made solutions – from pre-assembled up to individual extruding – even in 6 mm<sup>2</sup>. Talk to us about your special requirements. SunCon solar connectors have TÜV approval, meet the RoHS Environment Directive 2002/95/EC and are compatible with all leading cable manufacturers.

## Installation case

All in one: The practical SunCon installation case. The perfect equipment for rapid installation on the roof for rapid installation on multiple on site/at height applications with all components, accessories and tools in a robust handy case. Order your installation set now by requesting Order No. 934 579-000.



# On your roofs, get ready, get set, go: SunCon – the installation miracle.



## A user-friendly connection in no time at all

With the Hirschmann crimping pliers, or other standard tool, connections is child's play – preventing work on the roof, juggling multiple of tools and separate parts?

**Step 1: Cut the cable to length and strip it.**

**Step 2: Crimp with the same tool.**

**Step 3: Push the plug housing forward over the contact and lock into place.**

**Step 4: Push the SunCon plug and socket together “Click lock” and you're done!**

**Hirschmann. Simply a good Connection.**



- Production bases
- Sales subsidiaries
- Selected distribution partners

**Hirschmann Automation and Control GmbH**

Industrial ETHERNET

FiberINTERFACES

Industrial Connectors

Electronic Control Systems

**WWW.HIRSCHMANN.COM**

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