

# ISICOMPACT

Cable tap connector for 1 kV low-voltage powergrids

# ISICOMPACT

## The clamping ring of today

Practical installation, good occupational safety and high levels of operational reliability are fundamental criteria for home power connections. ISICOMPACT by PFISTERER – the inventor of multi-conductor cable branch technology – is today's state-of-the-art. This enhancement of our "compact tap connector" (also known as the SCK) has been modified in line with current work standards. And with great success. These days, the ISICOMPACT connector is a major player in low-voltage powergrids.

### Six screws become ONE

ISICOMPACT reliably creates a branch connection from the supply cable to the end customer with just one screw. This simplifies and speeds up installation. Where as conventional "clamping rings" have at least six screws, one or more of which are usually poorly accessible, the single screw on the ISICOMPACT can be placed on the cable to suit conditions, and conveniently tightened from above or from the side.

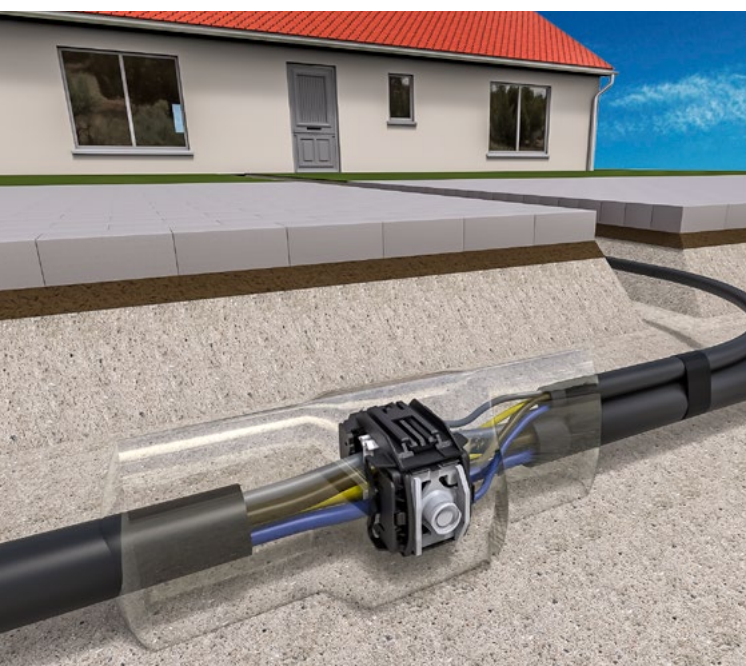


### Simple & safe installation

Tightening the screw establishes all conductor contacts reliably and safely to form the cable branch. Insulation does not have to be removed from the conductor; contacts are established by piercing the insulation. Spring pressure plates on both sides of the clamp ensure permanent contact force. The design and installation sequence ensure protection against contact with live parts throughout all work steps.

### Live line working

Providing shock-proof protection against electrical hazards, ISICOMPACT is designed for live line working. The "green" version ISICOMPACT plus is the only cable tap connector approved by employer's liability insurance association BG ETEM for live line work without additional PPE. It meets the strict requirements of DGUV Information 203-031 (formerly BGI 862).



ISICOMPACT: Reliable home power connection with just one screw

### High flexibility

Compared to conventional cable tap connectors, ISICOMPACT offers significantly larger clamping ranges and high flexibility in use. Altogether there are two standard sizes and seven variants. ISICOMPACT multi combines the S, M and 3 1/2 variants in one product. As a result, electricians are equipped for all eventualities. At the same time, the smaller number of variants reduces the risk of using the wrong type and cuts inventory costs.

## Unique shear-off technology

ISICOMPACT features a specially developed shear nut which performs two tasks during fitting. It defines the installation end-point and minimises the clamp's dimensions. Once the optimal contact force is reached, the shear nut operates and the protruding section of the screw breaks away burr-free. Subsequently, ISICOMPACT fits into all commercially available cast resin joints.



Currently used by all major energy suppliers:  
ISICOMPACT cable branch technology.



### Benefits

- No stripping of conductors
- Insulation does not have to be removed from the conductor
- Shock-proof protection against electrical hazards
- One-Screw solution with defined shear torque
- Consistent operational reliability, tested to DIN VDE 0220 part 3
- Reduced range of variants due to large area of application
- Ideal for live line work

### ISICOMPACT in Numbers

- Voltage: up to 1 kV
- Conductor class: 1 and 2 according to EN 60228
- Main conductor cross-section: 25-240 mm<sup>2</sup>
- Branch conductor cross-section: 6-185 mm<sup>2</sup>



ISICOMPACT: A major player in low-voltage networks.



## Single-screw system

- 4-conductor branch by tightening one screw
- Screw connection can be placed in any position

**Quick and simple installation**

## Piercing contact technique

- No stripping of the conductors
- Shock-proof protection against live conductors

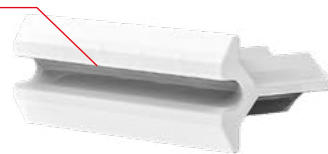
**Fast installation – good occupational safety**



## Cross-wedges

- Penetrate through insulation
- Support of the main conductors

**Reliable branch connection over the full service life**



## Functional product design

- Touch-safe at every installation step
- Stepless adjustment to conductor cross-sections
- Branch conductors are simply placed into the clamp

**Good occupational safety – simple installation**

## Universal application

- Large cross-section ranges
- For all types of conductor
- For aluminium and copper conductors, class 1 and 2

**Fewer different variants and low inventory costs**



### Shear-off nut

- Defined shear-off torque
- Optimal contact forces
- Screw breakaway signals end of completion of the installation

**Simple installation**

### Spring elements

- Constant contact quality
- Compensation of mechanical settling losses

**Reliable contacting over the full service life**

### Protection ribs

- Prevent premature penetration of contacts into main line
- Breaks during tightening of clamp
- Break if clamp is distorted

**Shock-proof protection throughout all installation steps for live line work**



### Insulating wall with inspection openings

- Protection against touching the branch line
- Enables checking of conductor position

**Good occupational safety for live line work**

### Installation using standard tools

- Insulated tools in accordance with EN 60900
- Requires 13 mm or 17 mm wrench
- No torque wrench

**Simple installation**

Video







## Everything from a single source

Clamping ring and cast resin joints from the inventor of multi-conductor cable branch technology.

As a contact technology specialist and solution-oriented system provider, PFISTERER offers a wide selection of cast resin joints to complement the ISICOMPACT connection system, as well as complete matching sets comprising a cast resin joint and the cable tap connector. Our proven two-component cast resins with excellent flow characteristics are available in tins or in a practical two-chamber bag.



## Joint sets with ISICOMPACT

Clamping ring	Fitting	Volume	Cast resin	Container	Article no.
331 896 003 ISICOMPACT M 	AM 130/300	2,1 l	PUR 2000	Mixing bag	332 407 113
	AM 130/300	2,1 l	PUR 2000	Tins	332 407 114
	AM 130/300	2,1 l	FILL BRH	Mixing bag	332 409 113
	AM 130/300	2,1 l	FILL BRH	Tins	332 409 114
	AM 140/420K	3,25 l	PUR 2000	Mixing bag	332 407 133
331 896 004 ISICOMPACT plus 	AM 130/300	2,1 l	PUR 2000	Mixing bag	332 407 115
	AM 130/300	2,1 l	PUR 2000	Tins	332 407 116
	AM 130/300	2,1 l	FILL BRH	Mixing bag	332 409 115
	AM 130/300	2,1 l	FILL BRH	Tins	332 409 116
	AM 140/420K	3,25 l	PUR 2000	Mixing bag	332 407 135
331 896 031 ISICOMPACT multi 	AM 130/300	2,1 l	PUR 2000	Mixing bag	332 407 151
	AM 130/300	2,1 l	PUR 2000	Tins	332 407 152
	AM 130/300	2,1 l	FILL BRH	Mixing bag	332 409 151
	AM 130/300	2,1 l	FILL BRH	Tins	332 409 152
	AM 140/420N	3,9 l	PUR 2000	Mixing bag	332 407 161
331 897 001 - 00006 ISICOMPACT L40 	AM 165/450	5,0 l	PUR 2000	Tins	331 407 142
	AM 165/450	5,0 l	FILL BRH	Tins	331 409 142

Other types on request



## ISICOMPACT product range

Number of conductors	Main conductor	Product	Branch conductor							Socket size	Article no.
	Cross-section										
3 1/2	70/35 - 150/70 150/95	ISICOMPACT 3 1/2 	10 - 50	10 - 50	50 - 70	25 - 50	6 - 50	6 - 50	25 - 50	13	331 896 021
	25 Cu RM + 35 - 150 + 185 SE	ISICOMPACT multi 									
3 1/2 and 4	70/35 - 150/70 150/95	ISICOMPACT multi FS 	10 - 50	10 - 50	50 - 70	25 - 50	6 - 50	6 - 50	25 - 50	13	331 896 035 *
	25 Cu RM + 35 - 150 + 185 SE	ISICOMPACT multi FS 									
4	25 Cu RM + 35 - 95	ISICOMPACT S 									331 896 011
	50 Cu SM + 70 - 150 + 185 SE	ISICOMPACT M 	10 - 50	10 - 50	50 - 70	25 - 50	6 - 50	6 - 50	25 - 50	13	331 896 003
	70 - 150 + 185 SE	ISICOMPACT plus 									331 896 004
	50 - 240 SE/SM	ISICOMPACT L30 	25 - 70	35 - 70	50 - 70	35 - 70	10 - 70	10 - 70	25 - 70	17	331 897 102
	70 - 240 SE	ISICOMPACT L40 	25 - 150	35 - 95	35 - 185	35 - 95	25 - 150	25 - 150	25 - 150		331 897 001 - 00006
	70 - 240 Al SM 50 - 240 Cu SM	ISICOMPACT L40 	25 - 150	35 - 95	35 - 150	35 - 95	25 - 95	25 - 95	25 - 95		

\* For cables with up to 4 control conductors

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YEARS  
**PFISTERER**  
SINCE 1921

In 1921, Karl Pfisterer founded his factory in Stuttgart for special electrical products with the aim of improving the world of power transmission. The PFISTERER Group has pursued this goal of quality and technological leadership for more than 100 years. Today, PFISTERER is one of the world's leading specialists and system suppliers for energy infrastructure – with a complete range of cable accessories, overhead line technology and components along the entire transmission chain from power generation to consumption. With state-of-the-art manufacturing processes and 1,200 employees at 18 international locations, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy supply.