

PFISTERER



LV- AND MV-NETWORKS

SICON

**The first cable connector system
with stepless shear bolts.**

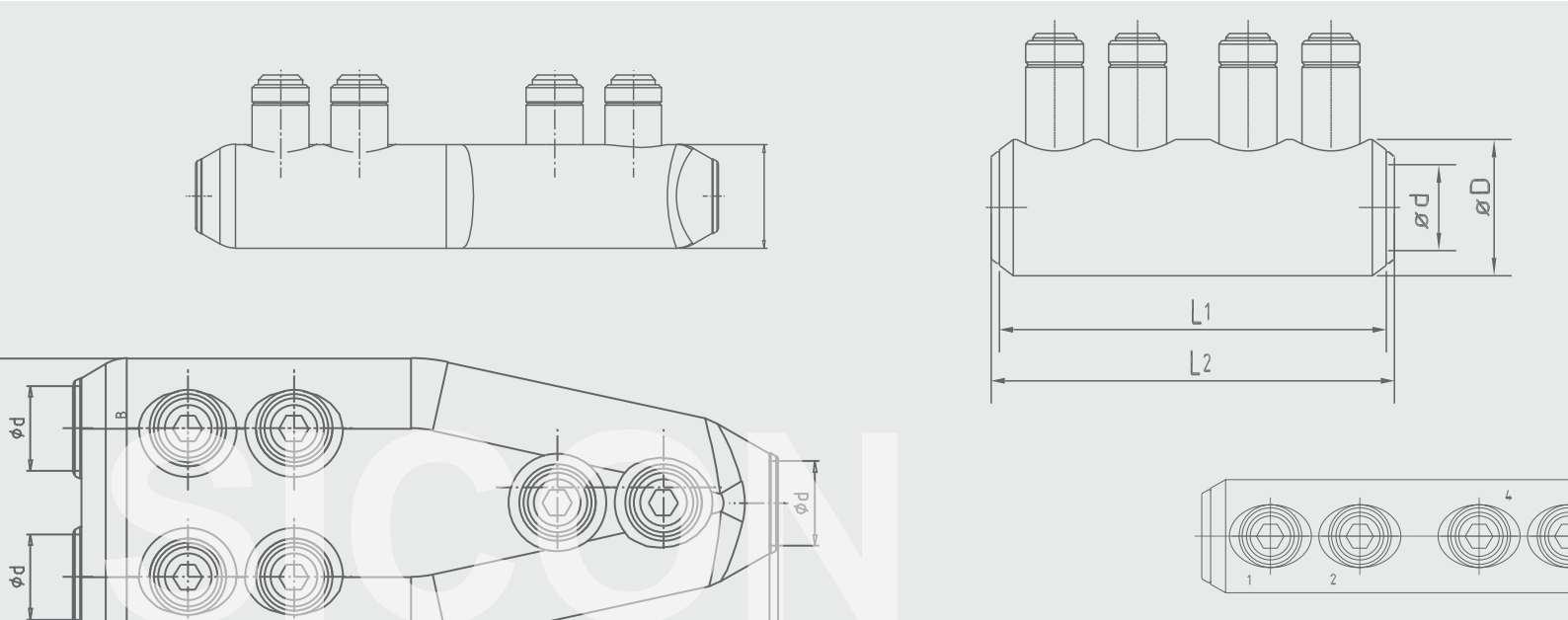


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THE POWER CONNECTION

CABLE SYSTEMS | COMPONENTS | OVERHEAD LINES | RAILWAY CATENARY SYSTEMS



The Better is the Enemy of the Good.

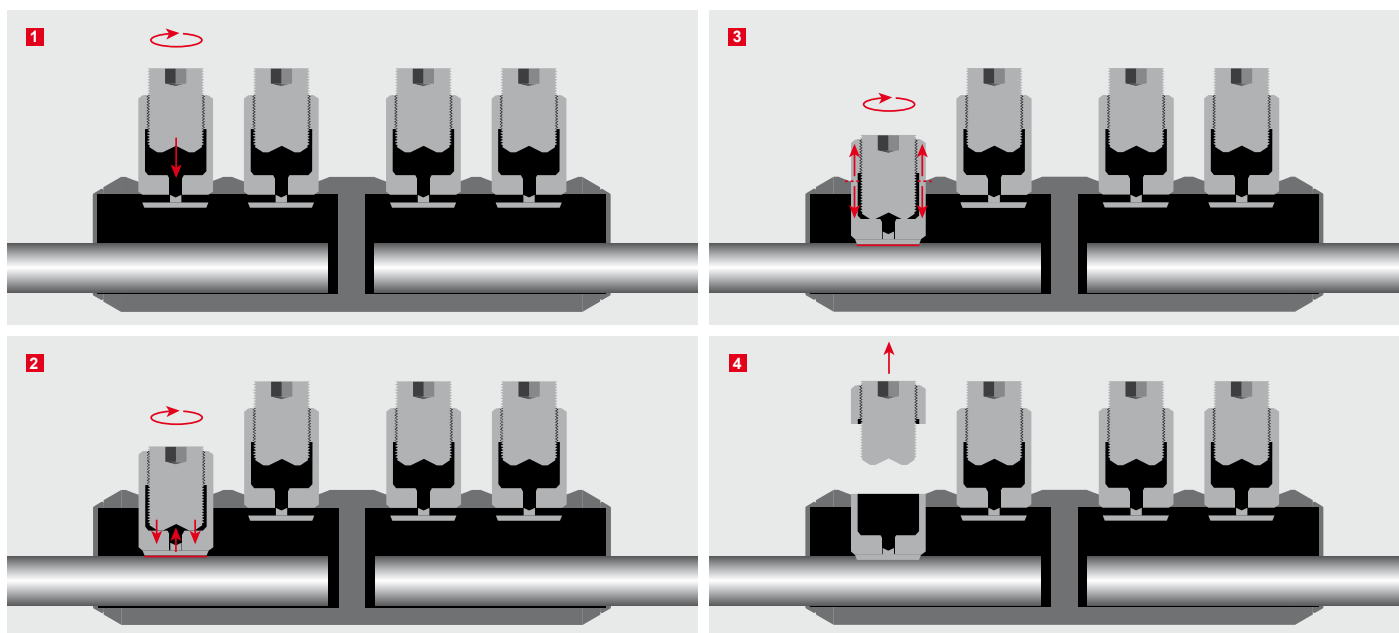
Terminals, connectors and cable lugs using screw technology have been on the advance for years. And with good reason. Bolted connections offer technical and practical advantages that compression connections cannot provide. For instance, a large cross-section range and easy handling. This clamping technology perfectly complements the new multi-range cable accessories. Fitting requires only a simple tool.

Until now, the “multi-stage shear bolt” has been the state of the art in screw technology. The design strength of the multi-stage shear bolt - the integral predetermined breaking points - is at the same time its decisive weakness. Each breaking point forms a discontinuity in the load-bearing thread, and the maximum clamping force cannot be achieved. A further disadvantage: The stages must be very accurately matched to the conductor of the cable-used - otherwise the bolt will break at the wrong position.

New from PFISTERER: Stepless shear bolts. Special design feature: No predetermined breaking points in the thread. This ensures the optimum thread load for any range of cross-sections. The bolt always breaks even with the surface of the clamp body - nothing protrudes, and nothing has to be filed to make the sleeve fit.

Advantages

- Up to 30 % increased contact force compared with conventional type terminals
- Bolt base plate for uniform friction and increased contact force
- Nothing protrudes, no need for filing
- Full utilisation of the thread loading for any size of conductor
- No special tool needed
- Smooth breakage of the shear bolt simplifies tightening process
- The remains of the bolt stay on the tool and can be disposed safely
- Suitable for fine-stranded Class 5 cables



SICON - the first stepless shear bolt.

- 1** A standard hexagon key is used to screw a threaded stud into the hole in the stepless thrust bolt. The force closure is not interrupted by any steps or notches in the bolt.
- 2** As the SICON bolt is screwed in, the pressure plate at the base of the bolt breaks away. The bolt now turns on this plate; unlike with conventional bolts, no tip friction occurs on the conductor. The bolt's torque generates the contact pressure almost independently of the conductor material. This way, significantly higher contact pressures are achieved with aluminium conductors and even fine stranded conductors are not damaged.
- 3** The SICON bolt continues to turn until the shear torque is reached. The thrust bolt is tensioned as it is screwed in and, on reaching the shear torque, it stretches axially and breaks off. Compared with conventional shear bolts, the bolt breaks very smoothly, with virtually no jerking.
- 4** The SICON bolt always breaks even with the surface of the clamp body. This ensures that the minimum possible protrusion is achieved every time irrespective of the size of the conductor to be connected.





No predetermined breaking points, no weak points.

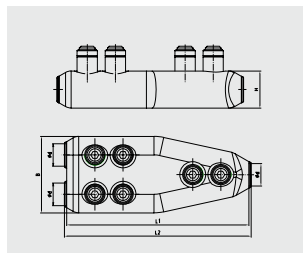
Technical features

- Large clamping range: 10 - 95 mm²;
25 - 150 mm²; 50 - 240 mm²; 95 - 300 mm²;
185 - 400 mm²; 300 - 630 mm²
(others on request)
- Conductor channels with transverse grooves
and protection against conductor oxidation
- Blind hole designed as pressure-resistant oil
barrier for oil cable
- Contact technology type-tested electrically
and mechanically to IEC 61238-1
- Compact design: rounded edges and
flat transitions, suitable for slide-on and
shrink sleeves
- Suitable for aluminium- and copper
conductors
- Centric cable guide with different
centring sleeves



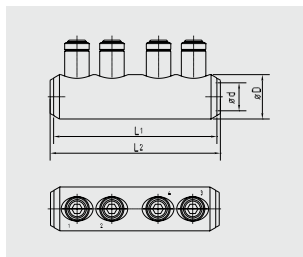
Technical data.

Tap connectors



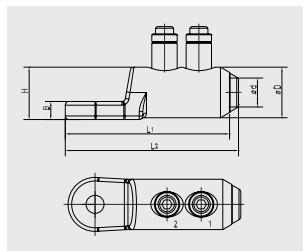
No. (Al + Cu)	mm ²	mm ²	mm ²	mm ²	mm ²	mounting hole	across flats	No. of bolts	L1 mm	DØ mm	dØ mm
332 447 010	50 – 240	50 – 185	50 – 185	50 – 150	50 – 240	–	SW 6	6	162	68/33	20

Connectors with blind hole



332 601 010	10 – 95	10 – 95	50 – 95	35 – 70	10 – 95	–	SW 5	2	65	24	13
332 607 010	25 – 150	25 – 150	35 – 120	35 – 120	25 – 150	–	SW 5	2	68	28	16,3
332 593 010	25 – 150	25 – 150	35 – 120	35 – 120	25 – 150	–	SW 5	4	102	28	16,3
332 592 010	50 – 240	50 – 185	50 – 185	50 – 150	50 – 240	–	SW 6	4	126	33	20
332 614 010	50 – 240	50 – 240	50 – 240	50 – 240	50 – 240	–	SW 6	4	126	35	21
332 602 010	95 – 400	95 – 300	95 – 240	95 – 240	95 – 300	–	SW 8	4	140	38	24
332 617 010	185 – 500	185 – 400	185 – 240	185 – 240	185 – 400	–	SW 8	6	170	42	26
332 603 010	300 – 800	300 – 630	–	300 – 400	300 – 630	–	SW 8	6	230	52	33,3

Screw cable lugs



332 604 010	10 – 95	10 – 95	50 – 95	35 – 70	10 – 95	13	SW 5	1	70	24	13
332 599 010	25 – 150	25 – 150	35 – 120	35 – 120	25 – 150	13	SW 5	2	91	28	16,3
332 595 010	50 – 240	50 – 185	50 – 185	50 – 150	50 – 240	13	SW 6	2	115	33	20
332 595 011	50 – 240	50 – 185	50 – 185	50 – 150	50 – 240	16,5	SW 6	2	115	33	20
332 605 010	95 – 400	95 – 300	95 – 240	95 – 240	95 – 300	13	SW 8	2	120	38	24
332 605 011	95 – 400	95 – 300	95 – 240	95 – 240	95 – 300	16,5	SW 8	2	120	38	24
332 625 010	185 – 500	185 – 400	185 – 240	185 – 240	185 – 400	13	SW 8	3	138	42	26
332 625 011	185 – 500	185 – 400	185 – 240	185 – 240	185 – 400	16,5	SW 8	3	138	42	26
332 606 010	300 – 800	300 – 630	–	300 – 400	300 – 630	16,5	SW 8	3	180	50	33,3

Axial bolted cable lugs on request.

Accessories



305 917 001	Cordless impact screwdriver for trouble-free assembly of screwed connectors and terminal lugs, comes with replacement battery, charger, tool set (Allen nut SW 5, SW 6, SW 8, load-carrying nut SW 8, SW 10, SW 13, SW 16, SW 19)
305 917 106	Replacement hex socket for the cordless impact screwdriver 1/2", SW 6 bit length 9 mm
305 917 107	Replacement hex socket for the cordless impact screwdriver 1/2", SW 6 bit length 19 mm

331 901 900	Holding arm for screw connector
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Subject to change as required by technical progress. Other designs available on request.

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