



Bolted connectors & cable lugs

for low voltage applications

Low voltage connectors and cable lugs

Heart-shaped conductor channel for easier installation

PFISTERER reinvented the conductor channel for low voltage bolted connectors and cable lugs. The heart-shaped design not only enables easier installation, but also significantly improves the electrical and mechanical properties of the connectors. Proven contact and design features from the medium-voltage SICON bolted connectors have been adapted to the specific requirements of low-voltage applications. The result is a new generation of bolted connectors that sets new standards.

Easier installation

The new, large heart-shaped conductor channel makes installation even easier. The bolts end flush with the straight upper edge of the conductor channel. This makes it easier to insert crushed or protruding conductor ends, and prevents the individual wires from catching or snagging. Sufficient space between the bolt and inspection hole or oil stop enables clear and secure positioning, even under challenging installation conditions. The same applies to the end of the conductor channel at the cable lugs.



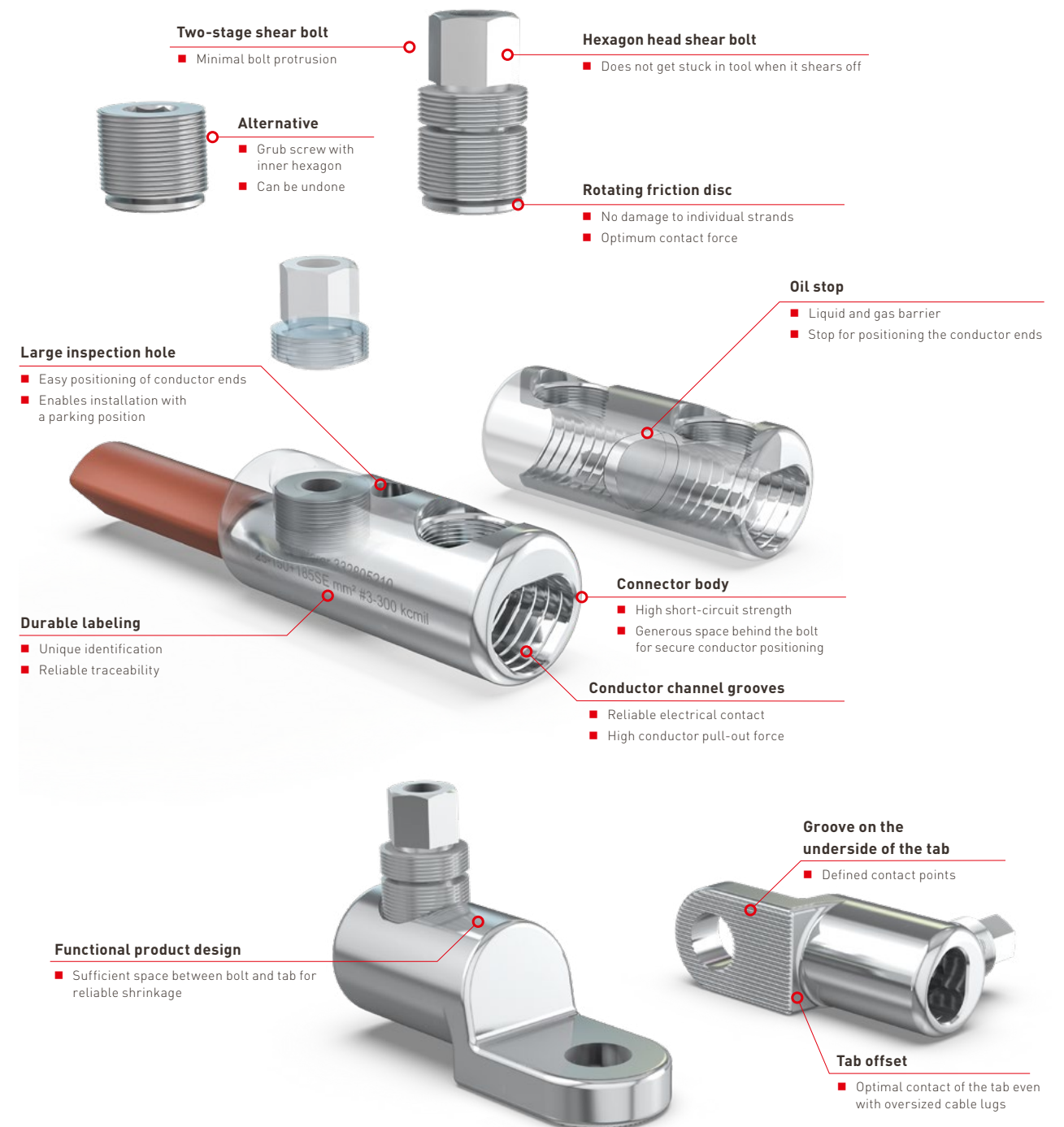
Best electrical connection

The special thread on the shear bolts and grub screws enables high contact force with a low tightening torque. The friction disc at the bottom of the bolts prevents damage to individual strands during installation, and ensures optimum contact forces over the entire service life of the connection regardless of the conductor material and type.

The new conductor channel shape significantly increases the contact surface for round and sector-shaped conductors. The conductor channel grooves have been adapted from the SICON connectors. The individual transverse grooves break through the oxidation layer and ensure low contact resistance as well as high conductor pull-out forces.

Benefits

- Generously dimensioned conductor channel
- For all conductor materials and types, including 120° sector without round pressing
- High contact force with low tightening torque
- Generous space behind the bolt for secure conductor positioning
- No damage to single strands
- Assembly with standard tools



Simple and reliable

Depending on their size, the new shear bolts have one or two defined shear points. They ensure the smallest possible protrusion after installation. After the bolt shears off, the large size of the hexagon head prevents it from getting stuck in the installation tool. As an alternative to shear bolts, the connectors are also available with grub screws. All connectors meet the bolt protrusion requirements of the DIN SPEC 47640 standard. No rework is necessary for heat shrinking over the connectors.

The right connector for every application

The connectors – with the exception of those for conductor cross-sections of 1.5–16 mm² Cu – are available in four different versions. Depending on the application, you can choose between connector bodies with a large inspection hole or with an oil stop. Both versions are available with shear bolts or grub screws. Cable lugs are only available with shear bolts.

The facts

- Conductor classes 1 and 2 according to EN 60228
- Tested according to IEC 61238-1-1 Class 1 mechanically and Class A electrically
- Connectors suitable for heat-shrink joints according to DIN SPEC 47640

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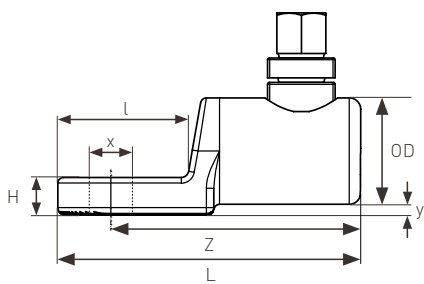
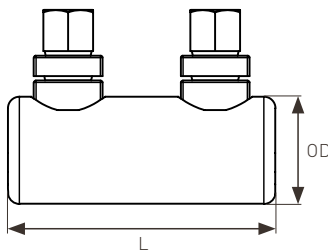
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Bolted connectors

Bolted connectors	Cable cross-section [mm²]	Dimensions [mm]		Article no. bolted connector		Article no. joint set*	
		L	OD	Inspection hole	Liquid and gas barrier	Inspection hole	Liquid and gas barrier
Bolted connectors with shear bolt							
	4-50	40	18	332 803 110	332 803 210	333 111 122 ¹	333 111 222 ¹
	25-95	55	24	332 804 110	332 804 210	333 111 123	333 111 223
	25-150+185 SE	70	28	332 805 110	332 805 210	333 111 124 ²	333 111 224 ²
	25-185+240 SE	80	32	332 806 110	332 806 210	333 111 127 ³	333 111 227 ³
	95-240+300 SE	110	35	332 807 110	332 807 210	333 111 125 ⁴	333 111 225 ⁴
Bolted connectors with grub screw							
	1,5-16 Cu	30	10	332 801 120		333 111 121	
				332 801 121 ⁵		333 111 126 ⁶	
	4-50	40	18	332 803 120	332 803 220		
	25-95	55	24	332 804 120	332 804 220		
	35-150+185 SE	70	28	332 805 120	332 805 220		
	35-185+240 SE	80	32	332 806 120	332 806 220		
	95-240+300 SE	110	35	332 807 120	332 807 220		

* according to DIN 47640 | 1 Cross-section range 16-50 mm² | 2 Cross-section range 35-150 mm²
3 Cross-section range 95-185+240 SE (shrink tubes longer than DIN 47640 specification)
4 Cross-section range 95-240 mm² | 5 PU 5 pcs. | 6 For 5-core cables



Cable lugs

Cable lug	Cable cross-section [mm²]	Dimensions [mm]							Article no.
		L	OD	l	x	H	Z	y	
Standard cable lug with shear bolt									
	4-50	53	18	24.5	10.5	9	43.75	2.5	332 803 411
	4-50	53	18	24.5	12.5	9	43.75	2.5	332 803 412
	25-95	68	24	30	13	9	56	2.5	332 804 412
	25-150+185SE	80.5	28	34.5	13	10	66.5	3	332 805 412
	25-185+240SE	86.5	32	36.5	13	12.85	70.5	3.5	332 806 412
	95-240+300SE	108.5	35	38	13	14	91	3.5	332 807 412
NEMA cable lug with shear bolt									
	25-95	118.5	24	80.8	2x14.2	9	58.1	2.5	332 804 415
	25-150+185SE	127	28	80.8	2x14.2	10	66.6	3	332 805 415
	25-185+240SE	131	32	80.9	2x14.2	12.85	70.6	3.5	332 806 415
	95-240+300SE	151.5	35	80.9	2x14.2	14	91.1	3.5	332 807 415

Solutions for special applications

In addition to its standard products, PFISTERER offers a wide range of special solutions.

This includes, for example, transition joint kits from plastic- to paper-insulated cables (N(A)KBA/N(A)KLEY), connector blocks and special connectors according to customer requirements.

Further information on special solutions can be found in our online catalogue or is available on request.



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PFISTERER is a globally leading and independent technology company with head offices in Winterbach near Stuttgart, Germany. We develop, produce and sell technology for insulating and connecting electrical conductors for power grid interfaces - from the generation and transmission to the distribution of electrical energy. With state-of-the-art production facilities, high quality standards, and technological expertise, we contribute to a safe and reliable energy supply for the future.