



Pfisterer SICON Stepless Shear Bolt Connectors

The cable connector system for voltages up to 36 kV

DS0021 R3 Pfisterer SICON Stepless Shear Bolt Connectors Datasheet 06/2024

Terminals, connectors and cable lugs using screw technology have been on the advance for years, and with good reason.

The special design feature of the SICON shear bolt connectors is that there are no predetermined break points in the thread. This provides for optimal load-bearing capacity for each range of cross sections. The bolt always breaks at the surface of the clamp body, so there are no protrusions and nothing has to be filed down to make the sleeve fit. Fitting requires a simple tool - literally with a flick of the wrist.

Offering a large clamping range, SICON shear bolt connectors feature a compact design with rounded edges and flat transitions suitable for slide-on and shrink sleeves.

They are contact technology type-tested to IEC 61238-1 and proven in joint tests to HD 629 and in 18-month endurance test.











The SICON system features aluminium alloy connectors, steel threaded studs, brass shear bolts and plastic centering sleeves and the family includes branch connectors, inline connectors and cable lugs.

An overview of SICON system benefits:

- Nothing protrudes, and nothing has to be filed down.
- Full utilisation of the thread loading for any size of conductor.
- No special tools needed.
- Smooth breakage of the shear bolt simplifies tightening.
- The remains of the bolt stay with the tool and can be disposed of safely.

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Product Table

Type	Hiko Code	Solid (mm ²)	Compressed (mm ²)	Sector 90° (mm ²)	Sector 120° (mm ²)	Stranded (mm ²)	Sector 90° (mm ²)	Sector 120° (mm ²)	Palm bore Diameter (mm)	Wrench size (mm)	Number of bolts	Length (mm)	Outer Diameter (mm)	Inner Diameter (Bore) (mm)		
																
Branch connectors 	KP1165	50 - 240	50 - 240	50 - 185	50 - 150	50 - 185	50 - 150	50 - 120	-	6	6	136	68 x 33	22		
In-line connectors 	KP1185	10 - 95	10 - 95	50 - 95	50 - 70	10 - 95	35 - 70	35 - 50	-	5	2	65	24	13		
	KP1160	25 - 150	25 - 150	35 - 120	35 - 95	25 - 150	35 - 120	35 - 95				68	28	16.3		
	KP1200	16 - 150	16 - 150	50 - 120	50 - 120	16 - 150	35 - 120	35 - 95			85	28	16.5			
	KP1205	50 - 240	50 - 240	50 - 185	50 - 150	50 - 185	50 - 150	50 - 120			108	33	20			
	KP1210	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240		6	4	108	35	21		
	KP1215	95 - 400	95 - 400	95 - 240	95 - 240	95 - 300	95 - 185	95 - 185				128	38	24		
	KP1240	185 - 500	185 - 500	185 - 240	185 - 240	185 - 400	185	185				8	165	42	26.4	
	KP1220	300 - 800	300 - 630	-	-	300 - 630	300 - 400	300					200	52	33.5	
Lugs 	KP1225	10 - 95	10 - 95	50 - 95	50 - 70	10 - 95	35 - 50	35 - 50	13	5	1	68	24	13		
	KP1180	16 - 150	16 - 150	50 - 120	50 - 120	16 - 150	35 - 120	35 - 95	13	5		89	28	16.5		
	KP1181	16 - 150	16 - 150	50 - 120	50 - 120	16 - 150	35 - 120	35 - 95	16.5							
	KP1190	50 - 240	50 - 240	50 - 185	50 - 150	50 - 185	50 - 150	50 - 120	13	6	2	110	33	20		
	KP1191	50 - 240	50 - 240	50 - 185	50 - 150	50 - 185	50 - 150	50 - 120	16.5							
	KP1155	95 - 400	95 - 300	95 - 240	95 - 240	95 - 300	95 - 185	95 - 185	13	8	3	120	38	24		
	KP1156	95 - 400	95 - 300	95 - 240	95 - 240	95 - 300	95 - 185	95 - 185	16.5							
	KP1231	185 - 500	185 - 400	185 - 240	185 - 240	185 - 400	185 - 240	185	13			140.5	42	26.4		
	KP1233	185 - 500	185 - 400	185 - 240	185 - 240	185 - 400	185 - 240	185	16.5							
	KP1194	300 - 800	300 - 630	-	-	300 - 630	300 - 400	300	13			168	52	33.5		
	KP1195	300 - 800	300 - 630	-	-	300 - 630	300 - 400	300	16.5							

Notes

All SICON connectors listed have oil-stops
Cable sections in accordance with EN 60228 (VDE 0295)

Central screw-type cable lugs and other versions on request.

Other literature available on request

Reports, drawings, technical data sheets, installation instructions, O&M guidelines