

Everything fixed. Cable clamps for reliable cable systems.



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CABLES
Well connected.

Robust and Reliable

Cable clamps are essential for the functioning of a cable system. They ensure continued reliability during the system's entire lifetime in all loading conditions.

Why are cable clamps necessary?

To guarantee reliable functioning of the cable system, the cable itself and the accessories (joints and terminations) must be fixed with cable clamps. These are necessary to:

- Prevent all movements of the cable during short-circuits
- Compensate expansions due to increasing temperature with load current
- Fix the cable when laid in non-horizontal conditions or on ceilings
- Guide the cable in horizontal laying
- Reduce mechanical tension on lead plumb of terminations and joints

What are your advantages?

Your advantages in applying proper designed cable clamps are:

- Your cable is fixed for all loading and laying conditions and remains stable during failures.
- The joints and terminations are protected from incorrect high cable forces.





What are the results?

With properly designed cable clamps, the whole cable system works with high reliability over a long lifetime.

Why Brugg Cables?

Brugg Cables has a wealth of experiences in designing cable systems. In order to ensure that your cable is reliably and economically fixed, we supply all necessary equipment and expert advice for the right selection of cable clamps.

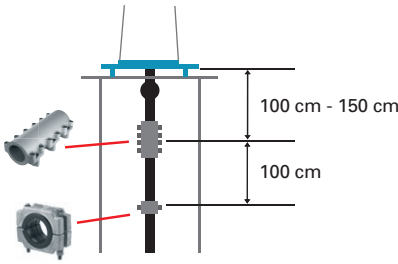

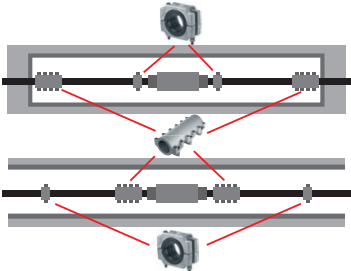

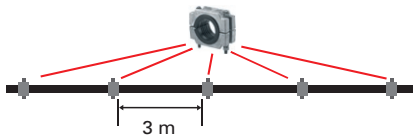
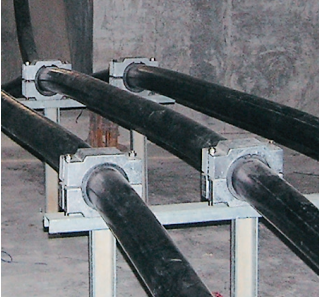
Types of cable clamps

Type Picture	BCT	BFB(T)	BAF(T)	BA(T)
				
Description	Synthetic rubber with screws of stainless steel.	Aluminium casting with screws of stainless steel (version BFB) and rubber sole (version BFBT).	Aluminium casting with screws of stainless steel, attachment screws (version BAF) and rubber sole (version BAF(T)).	Aluminium casting with screws of stainless steel, attachment screws (version BA) and rubber sole (version BAT).
Appropriate for guidance of the cable	✓	✓	✓	✓
Max. compensation of shearing forces in axial direction	---	600 N	3000 N	5000 N
Max. compensation of any other radial forces on the cable	14 000 N	20 000 N	76 000 N	114 000 N

Experienced and Economical

To ensure you receive the maximum benefits from your cable clamps at a minimum cost, guidelines for the application of cable clamps are given that are based on more than 70 years of experience in designing cable systems.

Recommended application of cable clamps

Design Criteria	Application	Results	Example
<p>Cable clamps next to terminations</p> 	<p>Controls all expansion forces from the cable system and guarantees a straight connection into the termination.</p>	<p>Guarantees a long and reliable lifetime for terminations.</p>	
<p>Cable clamps next to joints</p> 	<p>Realises full protection from mechanical stress. Compensates all deflections and shearing forces inside the manhole and on the line - even during failures.</p>	<p>Guarantees a long and reliable lifetime for joints.</p>	
<p>Cable clamps along the cable</p> 	<p>Fixes the cable on the line and during a short circuit.</p>	<p>Guarantees compact laying and full protection of the cable during short circuits.</p>	

Application table for cable clamps

Location of installation	Max. operating voltage [kV]	Conductor cross-section [mm ²]	Type BCT	Type BFB(T)	Type BAF(T)	Type BA(T)
Both sides of a conduit	60 - 500	120 - 2500				X
Joints double sided	60 - 500	120 - 2500		X		X
1 m – 1.5 m below the termination	60 - 170	120 - 2500		X	X	
	>170	400 - 2500			X	X
2 m – 2.5 m below the termination	<110	120 - 2500	X	X		
	110 - 500	240 - 2500		X		
Along the cable (distance 3 m)	<110	120 - 2500	X	X		
	110 - 500	240 - 2500		X		

Recommended types of cable clamps

«Metal to metal» and «polymer to polymer» characterizes the general rule for the application of cable clamps to the according cable.

Selecting the right type of cable clamps

The general rule «Metal to metal and polymer to polymer» means that for cables with a metal sheath (Al or St), cable clamps without rubber inserts should be applied and for cables with a polymer sheath (PVC, PE or similar), cable clamps including rubber inserts should be applied.

Type BFB 1

Without rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
88834	BFB 1-1063	60.1 – 62.5	
88300	BFB 1-1065	62.6 – 65.0	
88301	BFB 1-1068	65.1 – 67.5	
88302	BFB 1-1070	67.6 – 70.0	
88303	BFB 1-1073	70.1 – 72.5	
88304	BFB 1-1075	72.6 – 75.0	
88305	BFB 1-1078	75.1 – 77.5	
88309	BFB 1-2080	77.6 – 80.0	
88310	BFB 1-2083	80.1 – 82.5	
88311	BFB 1-2085	82.6 – 85.0	
88312	BFB 1-2088	85.1 – 87.5	
88313	BFB 1-2090	87.6 – 90.0	
88314	BFB 1-2093	90.1 – 92.5	
88318	BFB 1-3095	92.6 – 95.0	
88319	BFB 1-3098	95.1 – 97.5	
88320	BFB 1-3100	97.6 – 100.0	
88321	BFB 1-3103	100.1 – 102.5	
88322	BFB 1-3105	102.6 – 105.0	
88323	BFB 1-3108	105.1 – 107.5	
88324	BFB 1-3110	107.6 – 110.0	
88325	BFB 1-3113	110.1 – 112.5	
88329	BFB 1-4115	112.6 – 115.0	
88330	BFB 1-4118	115.1 – 117.5	
88331	BFB 1-4120	117.6 – 120.0	
88332	BFB 1-4123	120.0 – 122.5	
88333	BFB 1-4125	122.6 – 125.0	
88334	BFB 1-4128	125.1 – 127.5	
88335	BFB 1-4130	127.6 – 130.0	
88336	BFB 1-4133	130.1 – 132.5	
88337	BFB 1-4135	132.6 – 135.0	
88338	BFB 1-4138	135.1 – 137.5	
88342	BFB 1-5140	137.6 – 140.0	
88343	BFB 1-5143	140.1 – 142.5	
88344	BFB 1-5145	142.6 – 145.0	
88345	BFB 1-5148	145.0 – 147.5	
88346	BFB 1-5150	147.5 – 150.0	
88347	BFB 1-5153	150.1 – 152.5	
88348	BFB 1-5155	152.5 – 155.0	
88349	BFB 1-5158	155.1 – 157.5	
88350	BFB 1-5160	157.6 – 160.0	

Type BCT



Item #	Type	Cable Ø	Price/Piece (CHF)
86520	BCT 1-65-2	53.0 – 65.0	
86521	BCT 1-77-2	66.0 – 77.0	
86522	BCT 1-89-2	78.0 – 89.0	
86523	BCT 1-103-2	90.0 – 103.0	

Type BFBT 1

Including rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
88704	BFBT 1-1063	60.1 – 62.5	
88705	BFBT 1-1065	62.6 – 65.0	
88709	BFBT 1-2068	65.1 – 67.5	
88710	BFBT 1-2070	67.6 – 70.0	
88711	BFBT 1-2073	70.1 – 72.5	
88712	BFBT 1-2075	72.6 – 75.0	
88713	BFBT 1-2078	75.1 – 77.5	
88714	BFBT 1-2080	77.6 – 80.0	
88718	BFBT 1-3083	80.1 – 82.5	
88719	BFBT 1-3085	82.6 – 85.0	
88720	BFBT 1-3088	85.0 – 87.5	
88721	BFBT 1-3090	87.6 – 90.0	
88722	BFBT 1-3093	90.1 – 92.5	
88723	BFBT 1-3095	92.6 – 95.0	
88724	BFBT 1-3098	95.1 – 97.5	
88725	BFBT 1-3100	97.6 – 100.0	
88729	BFBT 1-4103	100.1 – 102.5	
88730	BFBT 1-4105	102.6 – 105.0	
88731	BFBT 1-4108	105.1 – 107.5	
88732	BFBT 1-4110	107.6 – 110.0	
88733	BFBT 1-4113	110.1 – 112.5	
88734	BFBT 1-4115	112.6 – 115.0	
88735	BFBT 1-4118	115.1 – 117.5	
88736	BFBT 1-4120	117.6 – 120.0	
88737	BFBT 1-4123	120.0 – 122.5	
88738	BFBT 1-4125	122.6 – 125.0	
88742	BFBT 1-5128	125.1 – 127.5	
88743	BFBT 1-5130	127.6 – 130.0	
88744	BFBT 1-5133	130.1 – 132.5	
88745	BFBT 1-5135	132.6 – 135.0	
88746	BFBT 1-5138	135.1 – 137.5	
88747	BFBT 1-5140	137.6 – 140.0	
88748	BFBT 1-5143	140.1 – 142.5	
88749	BFBT 1-5145	142.6 – 145.0	
88750	BFBT 1-5148	145.1 – 147.5	

Type BAF

Without rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
89621	BAF 80 62/65	62.0 – 65.0	
89622	BAF 80 65/68	65.0 – 68.0	
89623	BAF 80 68/71	68.0 – 71.0	
89624	BAF 80 71/74	71.0 – 74.0	
89625	BAF 80 74/77	74.0 – 77.0	
89626	BAF 80 77/80	77.0 – 80.0	
89627	BAF 110 80/83	80.0 – 83.0	
89628	BAF 110 83/86	83.0 – 86.0	
89629	BAF 110 86/89	86.0 – 89.0	
89630	BAF 110 89/92	89.0 – 92.0	
89631	BAF 110 92/95	92.0 – 95.0	
89632	BAF 110 95/98	95.0 – 98.0	
89633	BAF 110 98/101	98.0 – 101.0	
89634	BAF 110 101/104	101.0 – 104.0	
89635	BAF 110 104/107	104.0 – 107.0	
89636	BAF 110 107/110	107.0 – 110.0	
89637	BAF 130 110/114	110.0 – 114.0	
89638	BAF 130 114/118	114.0 – 118.0	
89639	BAF 130 118/122	118.0 – 122.0	
89640	BAF 130 122/126	122.0 – 126.0	
89641	BAF 130 126/130	126.0 – 130.0	

Type BA

Without rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
89585	BA 80 62/65	62.0 – 65.0	
89586	BA 80 65/68	65.0 – 68.0	
89587	BA 80 68/71	68.0 – 71.0	
89588	BA 80 71/74	71.0 – 74.0	
89589	BA 80 74/77	74.0 – 77.0	
89590	BA 80 77/80	77.0 – 80.0	
89591	BA 110 80/83	80.0 – 83.0	
89592	BA 110 83/86	83.0 – 86.0	
89593	BA 110 86/89	86.0 – 89.0	
89594	BA 110 89/92	89.0 – 92.0	
89595	BA 110 92/95	92.0 – 95.0	
89596	BA 110 95/98	95.0 – 98.0	
89597	BA 110 98/101	98.0 – 101.0	
89598	BA 110 101/104	101.0 – 104.0	
89599	BA 110 104/107	104.0 – 107.0	
89600	BA 110 107/110	107.0 – 110.0	
89601	BA 130 110/114	110.0 – 114.0	
89602	BA 130 114/118	114.0 – 118.0	
89603	BA 130 118/122	118.0 – 122.0	
89604	BA 130 122/126	122.0 – 126.0	
89605	BA 130 126/130	126.0 – 130.0	
88450	BA 160 130/134	130.0 – 134.0	
88451	BA 160 134/138	134.0 – 138.0	
88452	BA 160 138/142	138.0 – 142.0	
88453	BA 160 142/146	142.0 – 146.0	
88454	BA 160 146/150	146.0 – 150.0	
88455	BA 160 150/154	150.0 – 154.0	
88456	BA 160 154/158	154.0 – 158.0	
88457	BA 160 158/162	158.0 – 162.0	

Type BAFT

Including rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
89522	BAFT 80 55/58	55.0 – 58.0	
89523	BAFT 80 58/61	58.0 – 61.0	
89524	BAFT 80 61/64	61.0 – 64.0	
89525	BAFT 80 64/67	64.0 – 67.0	
89526	BAFT 80 67/70	67.0 – 70.0	
89527	BAFT 80 70/73	70.0 – 73.0	
89528	BAFT 110 73/76	73.0 – 76.0	
89529	BAFT 110 76/79	76.0 – 79.0	
89530	BAFT 110 79/82	79.0 – 82.0	
89531	BAFT 110 82/85	82.0 – 85.0	
89532	BAFT 110 85/88	85.0 – 88.0	
89533	BAFT 110 88/91	88.0 – 91.0	
89534	BAFT 110 91/94	91.0 – 94.0	
89535	BAFT 110 94/97	94.0 – 97.0	
89536	BAFT 110 97/100	97.0 – 100.0	
89537	BAFT 110 100/103	100.0 – 103.0	
89539	BAFT 130 107/111	107.0 – 111.0	
89540	BAFT 130 111/115	111.0 – 115.0	
89541	BAFT 130 115/119	115.0 – 119.0	
89542	BAFT 130 119/123	119.0 – 123.0	

Type BAT

Including rubber insert



Item #	Type	Cable Ø	Price/Piece (CHF)
89491	BAT 80 61/64	61.0 – 64.0	
89492	BAT 80 64/67	64.0 – 67.0	
89493	BAT 80 67/70	67.0 – 70.0	
89494	BAT 80 70/73	70.0 – 73.0	
89495	BAT 110 73/76	73.0 – 76.0	
89496	BAT 110 76/79	76.0 – 79.0	
89497	BAT 110 79/82	79.0 – 82.0	
89498	BAT 110 82/85	82.0 – 85.0	
89499	BAT 110 85/88	85.0 – 88.0	
89500	BAT 110 88/91	88.0 – 91.0	
89501	BAT 110 91/94	91.0 – 94.0	
89502	BAT 110 94/97	94.0 – 97.0	
89503	BAT 110 97/100	97.0 – 100.0	
89504	BAT 110 100/103	100.0 – 103.0	
89505	BAT 130 103/107	103.0 – 107.0	
89506	BAT 130 107/111	107.0 – 111.0	
89507	BAT 130 111/115	111.0 – 115.0	
89508	BAT 130 115/119	115.0 – 119.0	
89509	BAT 130 119/123	119.0 – 123.0	
88460	BAT 160 123/127	123.0 – 127.0	
88461	BAT 160 127/131	127.0 – 131.0	
88462	BAT 160 135/139	131.0 – 135.0	
88463	BAT 160 135/139	135.0 – 139.0	
88464	BAT 160 139/143	139.0 – 143.0	
88465	BAT 160 143/147	143.0 – 147.0	
88466	BAT 160 147/151	147.0 – 151.0	
88467	BAT 160 151/155	151.0 – 155.0	

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