



1 kV tap-off joint sets

Tap-off joint boxes and tap-off connectors for cable branches in the low voltage network

1 kV tap-off joint sets

Reliably connected, reliably insulated

Tap-off joint sets from PFISTERER combine reliable connection and excellent insulation with versatility and easy installation. Proven ISICOMPACT and SCK cable tap-off connectors ensure reliable electrical contacts that remain stable over time. Our cast resin joint boxes permanently protect cable connections and branches from moisture, alkaline earths, and the ingress of dust or other foreign bodies.

Universal application

Cable branches for home power connections, cable connections in the low voltage network and transitions between cables with different types of insulation – cast resin joint boxes from PFISTERER are universal and can be used with all types of cables. The side seals feature break-out rings to adapt to different cable diameters. Depending on requirements, there is a choice of two different cast resins. Both offer ideal bonding properties on all plastic and paper insulation materials.

Simple installation

The joint consists of two half-shells that fit together with an interlocking system. This allows the shells to be placed around the cable branch first and then fixed together. The shells are highly transparent, enabling optimum positioning of the joint and a visual verification of sufficient cast resin coverage. Large filling openings with sliding covers ensure convenient pouring of the cast resin without spills or mess.

Two cast resins, two container types

FILLBRH is a modern polybutadiene-based casting resin. It contains no isocyanates, epoxides or silicones. Therefore it is not subject to labelling under German hazardous substance regulations, and is advantageous for occupational health. No reaction heat is generated during curing, which prevents the possibility of cracking or cavity formation. After curing, the cast compound remains elastic and is removable.

PFISTERER also offers PUR2000, a classic, hard polyurethane casting compound that is subject to labelling requirements. Both cast resins are available in tins as well as in a practical double-chamber bag.



Environmentally friendly and label-free

The transparent, impact-resistant joint shells are made of recycled polycarbonate. Due to the fill-quantity optimised dimensions of the joints, very little cast resin is required for each pour. In combination with FILLBRH, an isocyanate-free cast resin, PFISTERER offers a highly environmentally friendly solution for casting low voltage cable branches that is not subject to labelling requirements.

Benefits

- Innovative contact technology
- Transparent joint shells made of recycled plastic
- Suitable for all types of cable
- Fill quantity optimised to use less casting resin
- Excellent insulation properties
- Longitudinally and laterally watertight
- System tested in accordance with E DIN EN 60455-3-8:2018-02, DIN EN 50655-1:2018-06 and DIN EN 50393:2015-10

Cast resins

	PUR2000	FILLBRH
Basic material	Polyurethane	Polybutadiene
Labelling	Labelling required under German hazardous substance regulations	No labelling required
Thermal characteristics during curing	Heat generation	No temperature increase during curing
Storage	Above 0 °C	Above 0 °C
Mechanical properties	Hard	Elastic and removable
Disposal	Household waste (only after curing)	Household waste

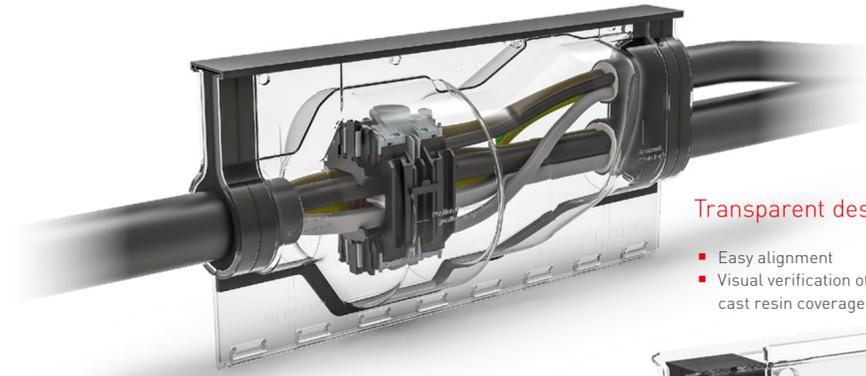
Cable branch using AM130/300 cast resin joint filled with FILLBRH



Tap-off joint boxes

	Main line Cross-section [mm²]	Ø [mm]	Branch line Cross-section [mm²]	Ø [mm]	Volume [l]	PUR2000		FILLBRH	
						Bag	Tins	Bag	Tins
Tap-off joints made of recycled polycarbonate									
AVM58/220	4x1,5-10	≤22	4x1,5-10	21	0.45	332 407 510			
AVM75/300	4x16-25	≤29	4x6-16	22	1.05	332 407 522			
AVM95/400	4x16-70	≤35	4x6-35	25	2.6	332 407 562	332 407 563		332 409 563
AVM125/610	4x120-185	≤58	4x25-70	35	6.4	332 407 602	332 407 603		332 409 603
AM130/300	4x16-185	≤50	16-70	≤32	2.1	332 407 532	332 407 533	332 409 532	332 409 533
AM140/420K	4x50-240	≤60	16-95	≤45	3.25	332 407 592	332 407 593		332 409 593
AM140/420N	4x50-240	≤60	16-120	≤45	3.9	332 407 542	332 407 543	332 409 542	332 409 543
AVM160/500	4x70-240	≤65	35-150	≤50	6.9	332 407 552	332 407 553	332 409 552	332 409 553
AM165/450	4x95-240	≤65	25-185	≤50	5.7		332 407 585		332 409 585
AM180/500 *	4x50-240	≤65	16-185	≤50	8.2	332 407 580	332 407 581		332 409 581
Y-earthing/tap-off joints made of thick-walled polypropylene with strain relief									
SK150/50	4x16-185	≤50	16-50	≤30	3.3	332 407 701	332 407 702	332 409 701	332 409 201
SK150/95	4x16-185	≤50	16-95	≤40	3.5	332 407 711	332 407 712	332 409 711	332 409 712

* Shell material polystyrene



Transparent design

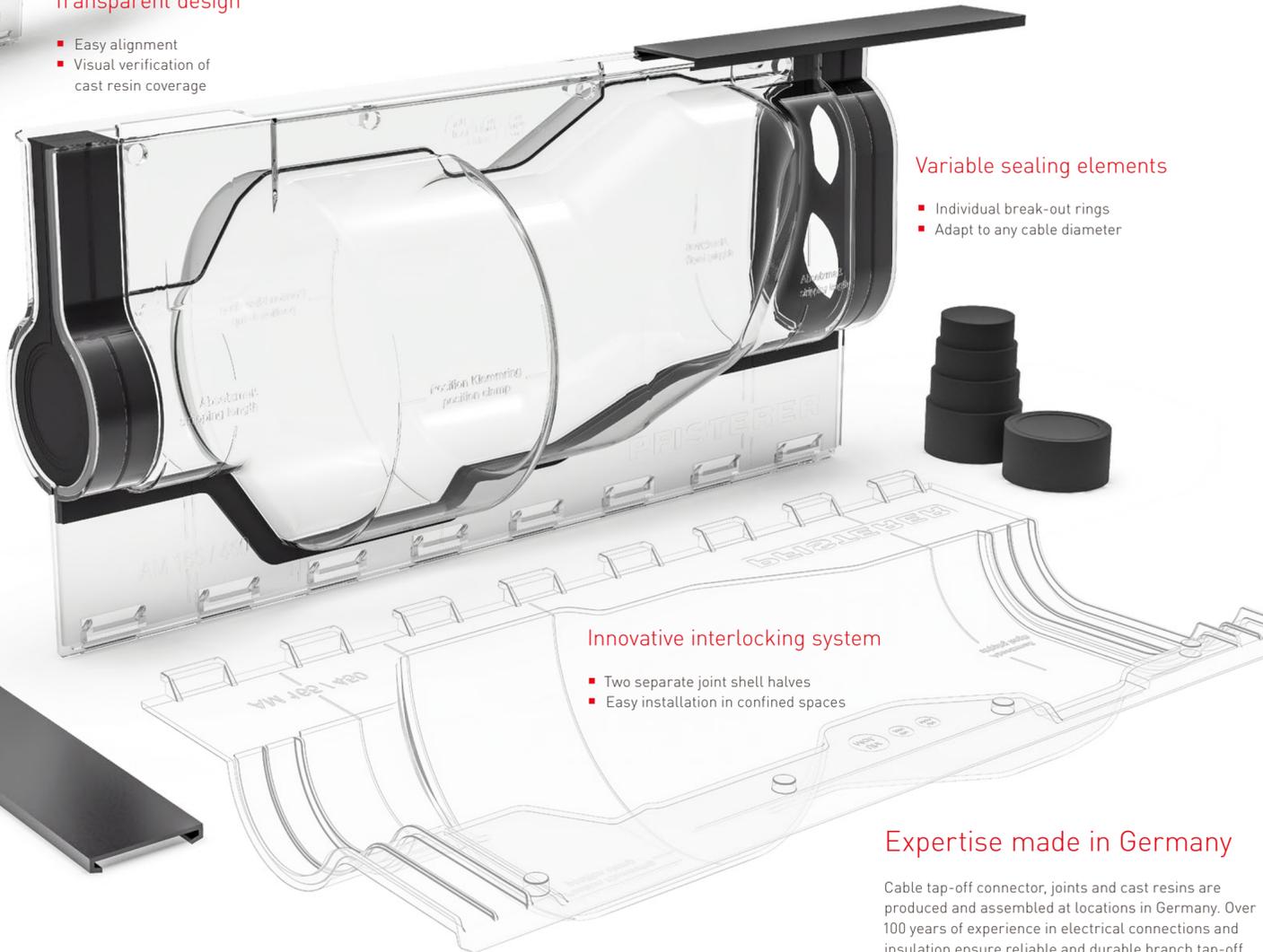
- Easy alignment
- Visual verification of cast resin coverage

Large filling opening

- Easy filling without a funnel
- No spills or mess

Sliding cover

- Easy to close after pouring
- Provides necessary pressure to seal the shells



Variable sealing elements

- Individual break-out rings
- Adapt to any cable diameter

Innovative interlocking system

- Two separate joint shell halves
- Easy installation in confined spaces

Volume optimisation

- Less cast resin
- Better for the environment

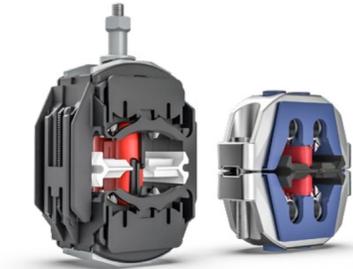
Installation markings

- Clamp position and stripping lengths are marked on the shell



Ready-to-fit tap-off joint boxes

PFISTERER tap-off joint boxes are supplied ready-to-fit with joint shell, casting compound and necessary accessories. Additional sealing materials are not required when used on the approved cable cross-sections. The quantity of cast resin is sufficient to ensure that even the smallest approved cables are completely covered with cast resin and no additional containers are needed.



Tap-off joint sets including reliable contact technology

Besides the tap-off joint boxes, PFISTERER also offers complete ready-to-fit sets including tap-off connector. ISICOMPACT from PFISTERER is a modern tap-off connector that considerably simplifies installation and better meets the demands of live line work. In addition to ISICOMPACT, PFISTERER also supplies the conventional SCK compact screw terminal. In terms of reliability and ageing stability, ISICOMPACT is in every way equal to the traditional solution. Both meet the high requirements of DIN VDE 0220 part 3.



Tap-off joint sets

Main line Cross-section [mm²]	Branch line Cross-section [mm²]	Tap-off connector included in set	Article number depending on cast resin and container type			
			PUR2000		FILLBRH	
			Bag	Tins	Bag	Tins
Tap-off joint sets						
AM130/300						
3x70/35-3x150/70(95)	6-50+70SE**	ISICOMPACT 3½	332 407 107	332 407 108		
3x70/35-3x150/70(95)	6-50+70SE**	ISICOMPACT multi	332 407 151	332 407 152	332 409 151	332 409 152
4x25RM+35-150+185SE	6-50+70SE**	ISICOMPACT multi	332 407 151	332 407 152	332 409 151	332 409 152
4x16-25CuRM/CuSM+25-35AIRE/SE	6-50+70SE(Ø9.6)	SCK (330 407 457)	332 407 015	332 407 016		
4x25RM+35-95	6-50+70SE	ISICOMPACT S	332 407 117	332 407 118		332 409 302
4x35+50AIRE/RM/SE/SM+70SE	6-50+70SE(Ø9.6)	SCK (330 407 001)	332 407 013	332 407 014		
4x50CuSM+70-150+185SE	6-50+70SE**	ISICOMPACT M	332 407 113	332 407 114	332 409 113	332 409 114
4x70-120SM+95-150SE	6-70(Ø11.4)	SCK (331 894 006)	332 407 023	332 407 024		
4x70-150+185SE	6-50+70SE	ISICOMPACT PLUS	332 407 115	332 407 116	332 409 115	332 409 116
AM140/420K						
4x50CuSM+70-150+185SE	6-50+70SE**	ISICOMPACT M	332 407 133	332407134		
4x70-150+185SE	6-50+70SE	ISICOMPACT PLUS	332 407 135	332407136		
AM140/420N						
3x70/35-3x150/70(95)	6-50+70SE**	ISICOMPACT 3½	332 407 127	332 407 128		
3x70/35-3x150/70(95)	6-50+70SE**	ISICOMPACT multi	332 407 161	332 407 162	332 409 161	
4x25RM+35-150+185SE	6-50+70SE**	ISICOMPACT multi	332 407 161	332 407 162	332 409 161	
4x50CuSM+70-150+185SE	6-50+70SE**	ISICOMPACT M	332 407 123	332 407 124		
4x70-150+185SE	6-50+70SE	ISICOMPACT PLUS	332 407 125	332 407 126		
4x185-240SE/SM	6-70+95SE(Ø12.5)	SCK (330 935 006)	332 407 033	332 407 034		
AVM160/500						
4x70-150+185SE	6-50+70SE**	ISICOMPACT M			332 409 167	
4x95-120CuSM+95-150SE	6-120+150SE(Ø17.0)	SCK (332 241 005)		332 407 044		
4x150SE	50-150(Ø18.5)	SCK (332 089 089)		332 407 202		
AM165/450						
4x95-240SE/SM	25AIRE/Cu+35-150+185SE*	ISICOMPACT L40		332 407 142		332 409 142
Tap-off joint sets with strain relief						
SK150/50						
4x70-120SM+95-150SE	6-50(Ø11.4)	SCK (331 894 006)		332 407 316		332 409 316

Other joint sets on request

* Stranded branch conductors made of aluminum only permissible up to 95 mm², 185 mm² Al SE in the branch only permissible with solid main conductors
** At 150 mm² round stranded main cables only 6 - 25 mm² solid sector-shaped / stranded sector-shaped, 6 - 35 mm² round stranded and 6 - 50 mm² round solid tap cables are possible.

Expertise made in Germany

Cable tap-off connector, joints and cast resins are produced and assembled at locations in Germany. Over 100 years of experience in electrical connections and insulation ensure reliable and durable branch tap-off connectors for all applications in the distribution network.

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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 fittings, 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.