

Sealing Ends







Accessories for XLPE/EPR-Cable up to 2000 mm²

Product	Operating voltage U _{max} kV	Conductor Cu/Al max. mm ²	Insulation max. Ø mm	Outer diameter max. mm	Type	Creepage distance mm
 Outdoor sealing end with porcelain insulator	72	800	35- 68	115	TE1.72-01	1200
		2000	68- 94	115	TE1.72-02	1350
	145	1000	57- 80	115	TE1.145-04	4500
		2000	57-110	150	TE1.145-05	5300
	170	2000	57-110	150	TE1.170-01	5300
	245	2000	76-115	150	TE1.245-01	7600
	300	2000	76-115	150	TE1.300-01	7600
	420	2000	76-115	150	TE1.420-01	13020
 Outdoor sealing end with composite silicone rubber insulator	72	1000	35- 80	115	FR1.72-01	1635
	145	1000	57- 80	115	FR1.145-01	3100
	170	2000	57-110	150	FR1.170-01	3827
	245	2000	76-115	150	FR1.245-01	5330
	300	2000	76-115	150	FR1.300-01	6570
	420	2000	76-115	150	FR1.420-01	14100
 SF6 (GIS)- ¹⁾ sealing end with cast resin insulator	72	800	35- 68	115	TF1.72-11	500
	170	1000	57- 80	115	TF1.170-11/ IEC 60859	690
		2000	57-100	150	TF1.170-12/ IEC 60859	710
	245	2000	76-115	150	TF1.245-11	900
	300	2000	76-115	150	TF1.300-11	900
	420	2000	76-115	150	TF1.420-11	1385
 Transformer ¹⁾ sealing end with cast resin insulator	72	800	35- 68	115	TT1.72-11	500
	170	1000	57- 80	115	TT1.170-11	690
		2000	57-100	150	TT1.170-12	710
	245	2000	76-115	150	TT1.245-11	900
	300	2000	76-115	150	TT1.300-11	900
	420	2000	76-115	150	TT1.420-11	1280

¹⁾ SF6-sealing end (TF) and transformer sealing end (TT)
- Longitudinally insulated for single side earthing

Joints

Accessories for XLPE/EPR-Cable up to 2000 mm²




Product	Operating voltage U _{max} kV	Conductor Cu/Al max. mm ²	Insulation max. Ø mm	Outer diameter max. mm	Type	Mechanical Protection* mm	
Lapped joint 	72	800	-	-	MT1.72-21	2	
		800	-	-	MT1.72-31	2	
	145	1000	-	-	MT1.145-21	3	
		2000	-	-	MT1.145-22	3	
		630	-	-	MT1.145-31	3	
	170	2000	-	-	MT1.145-32	3	
		1000	-	-	MT1.170-21	3	
		2000	-	-	MT1.170-22	3	
	170	630	-	-	MT1.170-31	3	
		2000	-	-	MT1.170-32	3	
		245	2000	-	-	MT1.245-21	3
	245	2000	-	-	MT1.245-31	3	
		300	2000	-	-	MT1.300-21	3
	300	2000	-	-	MT1.300-31	3	
420		2000	-	-	MT1.420-21	3	
Premoulded joint   	72	1000	35- 70	100	MP1.72-21	3	
		1000	35- 70	100	MP1.72-31	3	
	145	630	56- 70	115	MP1.145-21	3	
		2000	56- 98	155	MP1.145-22	3	
		630	56- 70	115	MP1.145-31	3	
	145	2000	56- 98	155	MP1.145-32	3	
		1000	56- 82	110	MPP1.145-21	4	
		1000	56- 82	110	MPP1.145-31	4	
	170	630	56- 70	115	MP1.170-21	3	
		630	56- 70	115	MP1.170-31	3	
		2000	56- 98	150	MP1.170-32	3	
		1000	56- 82	110	MPP1.170-21	3	
	170	1000	56- 82	110	MPP1.170-31	4	
		245	2000	68-120	150	MP1.245-21	3 + 4
		2000	68-120	150	MP1.245-31	3 + 4	
	300	2000	68-120	150	MP1.300-21	3 + 4	
2000		68-120	150	MP1.300-31	3 + 4		
420	2000	82-120	150	MP1.420-21	3 + 4		
	2000	82-120	150	MP1.420-31	3 + 4		
Transition joint, polymer to oil-filled cable  	72	800	-	115	TOS1.72-11	3	
	145	1000	57- 80	115	TOS1.145-11	3	
		2000	57-100	150	TOS1.145-12	3	
	170	1000	57- 80	115	TOS1.170-11	3	

Additional information to joints:

- Final figure 11/12 Screen interruption, connection with concentric bonding lead
- Final figure 21/22 Screen transition, without earthing connection, insulated to ground
- Final figure 31/32 Screen interruption, connection with concentric bonding lead, insulated to ground
- Protection 2 self-vulcanisation tapes
- Protection 3 metal casing
- Protection 4 compound filled plastic casing
- Protection * modification to customer requirements possible




Sealing Ends

Accessories for oil-filled Cable up to 2000 mm²

Product	Operating voltage U _{max} kV	Conductor Cu/Al max. mm ²	Insulation max. Ø mm	Outer diameter max. mm	Type	Creepage distance mm
 Outdoor sealing end with porcelain insulator	72	1000	-	115	OE1.72-01	1200
	145	1000	-	115	OE1.145-04	4500
		2000	-	150	OE1.145-05	5300
	170	2000	-	150	OE1.170-01	5300
	245	2000	-	150	OE1.245-01	7600
	420	1600	-	150	OE1.420-01	13020
 SF6 (GIS)- sealing end with cast resin insulator	72	1000	-	115	OF1.72-11	500
	170	1200	-	150	OF1.170-11	690
		2000	-	150	OF1.170-12	720
	245	2000	-	150	OF1.245-11	900
	300	2000	-	150	OF1.300-11	900
	420	1600	-	150	OF1.420-11	1280
 Transformer sealing end with cast resin insulator	170	1200	-	115	OT1.170-11	690
	245	2000	-	150	OT1.245-11	900
	300	2000	-	150	OT1.300-11	900
	420	1600	-	150	OT1.420-11	1280

Joints

Accessories for oil-filled Cable up to 2000 mm²

Product	Operating voltage U _{max} kV	Conductor Cu/Al max. mm ²	Insulation max. Ø mm	Outer diameter max. mm	Type	Mechanical Protection* mm
Straight-through joint 	72	630	-	-	OM1.72-01	3
		3x400	-	-	OM3.72-01	3
	145	1000	-	-	OM1.145-01	3
		1000	-	-	OM1.145-11	3
		1000	-	-	OM1.145-21	3 + 4
		1000	-	-	OM1.145-31	3 + 4
	170	800	-	-	OM1.170-01	3
		800	-	-	OM1.170-11	3
		800	-	-	OM1.170-21	3 + 4
		2000	-	-	OM1.170-22	3 + 4
		800	-	-	OM1.170-31	3 + 4
	245	2000	-	-	OM1.170-32	3 + 4
		2000	-	-	OM1.245-21	3 + 4
	300	2000	-	-	OM1.245-31	3 + 4
2000		-	-	OM1.300-21	3 + 4	
420	2000	-	-	OM1.300-31	3 + 4	
	1600	-	-	OM1.420-01	3	
Stop joint with 1 casing 	170	1200	-	-	OS1.170-11	3
	245	2000	-	-	OS1.245-31	3 + 4
	300	2000	-	-	OS1.300-31	3 + 4
Stop joint with 2 casing and SF6-filled 	170	1200	-	-	OSF1.170-11	3
	420	1600	-	-	OSF1.420-11	3

- Protection 3 metal casing
- Protection 4 compound filled plastic casing
- Protection * modification to customer requirements possible

High voltage cable installations are only as reliable as their terminations and joints. The High-Voltage Accessories Unit of Brugg Cables are constantly aware of this, and they leave nothing to chance.

For more than a century, Brugg has developed and sold joints, sealing ends and clamping devices for the world market. Our products have an excellent reputation for being reliable and easy to assemble. We are certified to ISO 9001 and ISO 14001. Brugg engineers are active around the world, erecting and commissioning our various products. In addition, we test final installations according to current standards with AC or DC voltages. Joints and stress cones based on silicone premoulded rubber are routine-tested according to IEC 60840/62067.

High-Voltage Accessories: Overview of products and services.

Sealing ends for XLPE or LPOF cables.

- Sealing ends for outdoor application (porcelain or composite insulator)
- Sealing ends for GIS
- Sealing ends for transformer connection

Joints for XLPE or LPOF cables.

- Straight-through joints
- Cross bonding
- Transition joints between different type of cables
- Stop joints

Additional accessories for sealing ends and joints.

- Earthing for outdoor sealing ends
- Earthing for GIS and Transformer sealing ends
- Earthing for joints
- Cable clamps
- Expansion tanks for oil-filled equipment
- Pressure control cabinets for oil-filled equipment

Partial discharge measurements.

- On-site measurements to check installations and continuous monitoring

Installation.

- Wide range of services from installation supervision to erection, commissioning and up to turnkey installation



Open Air.
Outdoor plant in operation.



Test passed.
Our test field for type testing according to IEC.



Around the globe.
Installation and supervision worldwide.