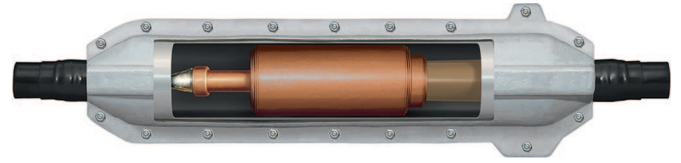


## Transition Joints

# Transition joint type TOS

### For low-pressure oil insulated paper cables on polymeric cables up to 300 kV

Brugg offers a complete range of transition joint solutions for voltage systems from 145 kV up to 300 kV. The joint is particularly conceived for the interconnection between single core low-pressure oil filled cables with design pressure up to 10 bar with all types of polymeric cables. Solutions for three core cables are possible under special request. For easier assembly on site paper insulation main components are being prefabricated in our factory. Thanks to its robust construction of the outer protection with stainless steel water diffusion barrier and protection box with filling compound the TOS joint is adequate to all kind of installation conditions including directly buried. The joints are type tested according to the international standards IEC 660141-1. For the long-term reliability each unit of silicone body for the polymeric cable side are electrically routine tested in our factory.



#### Product main features

- Pre-molded one piece joint body electrically tested at factory
- Universal cable screen grounding configuration
- Stainless steel casing radial moisture metallic barrier
- Cold pouring filling compound
- Oil stop barrier up to 10 bar

#### Technical data

Type	Drawing	Max. operating voltage Um kV	Range of diameter over prepared cable insulation, min. - max. mm	Equivalent cable cross-section (Cu/Al) <sup>1</sup> mm <sup>2</sup>	Max. cable diameter mm	Joint dimensions A x C mm
TOS 1.145-31	S1528-4	145	58 - 80	240 - 1200	115	2860 x 480
TOS 1.145-32	S1531-4	145	80 - 115	1000 - 2000	150	2860 x 480
TOS 1.170-31	S1748-4	170	58 - 80	240 - 1000	115	2860 x 480
TOS 1.170-32	S1484-4	170	80 - 115	1000 - 2000	150	2860 x 480
TOS 1.245-31	S1461-4	245	58 - 115	400 - 2000	150	4750 x 630
TOS 1.300-31	S1553-4	300	67 - 115	400 - 2000	150	4750 x 630

<sup>1</sup> Values for reference only. The exact application depend on the diameter over the prepared cable insulation.

Note: for the installation an oil expansion tank type ET-2 is required. To be ordered separately.