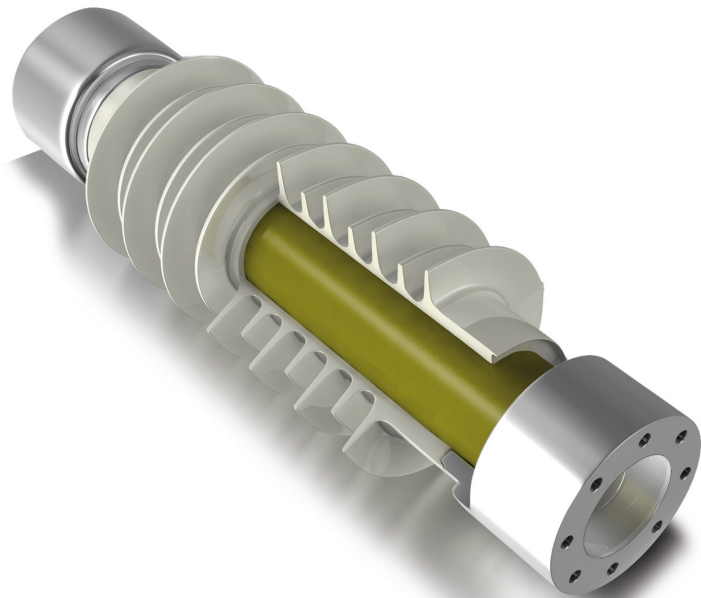


Composite shield insulators meet  
the requirements of the standard  
PN-EN 61462

## Composite shield insulators

# Composite shield insulators

Composite sheathing insulators are used in AC external or internal electrical devices with a rated voltage from 1 kV to 800 kV and frequencies up to 100 Hz or in DC devices with a rated voltage above 1.5 kV. They usually act as housings (shields) for current transformers and power transformers, circuit breakers, bushings and surge arresters or other electrical devices.



Very good mechanical properties, flexibility, relatively low weight compared to ceramic shields and excellent electrical parameters prefer composite shield insulators for use in outdoor conditions (pollution zone I - IV), especially in areas with seismic hazards.

Composite pipe insulators are distinguished by:

- high resistance to aging under the influence of weather conditions, including UV radiation,
- very good hydrophobicity and chemical resistance of the silicone elastomers used.

Composite sheathing insulators (insulating sheaths) are made of a glass-epoxy pipe, metal fittings fixed at the ends of the pipe, and a silicone rubber insulation sheath. The pipe is made of ECR glass fiber saturated with epoxy composition. It is the load-bearing core of the insulator and serves to transfer mechanical loads (mainly bending and pressure, sometimes also torsional loads). Metal fittings are fixed at the ends of the pipe with epoxy glue of high mechanical and thermal resistance. The silicone cover is molded by the LSR type liquid silicone elastomer injection method, which protects the core against environmental influences and at the same time, through the appropriate shape of the lampshade, determines the electrical properties of the insulator.

**Technical parameters**

Series	Inner diameter covers mm	Cover height mm		Creepage distance mm	
		min	max	min	max
1.	80	780	4330	628	4178
2.	98	450	4290	1380	19892
3.	120/122	910	4310	6000	14820
4.	120/122	510	4310	1080	22310
5.	130	780	4680	2250	16763
6.	153,7/160	540	4640	935	16146
7.	153,7/160	640	4640	1356	17186
8.	198/200/202	1022	4312	3088	15478
9.	220/228	694	4344	1905	17600
10.	248/250	474	4324	752	15036
11.	248/250	874	4324	2442	16111
12.	328	1040	4790	2063	16088
13.	328	990	4790	2145	17204
14.	340	1040	4340	2063	14385
15.	350	830	4330	2145	15795