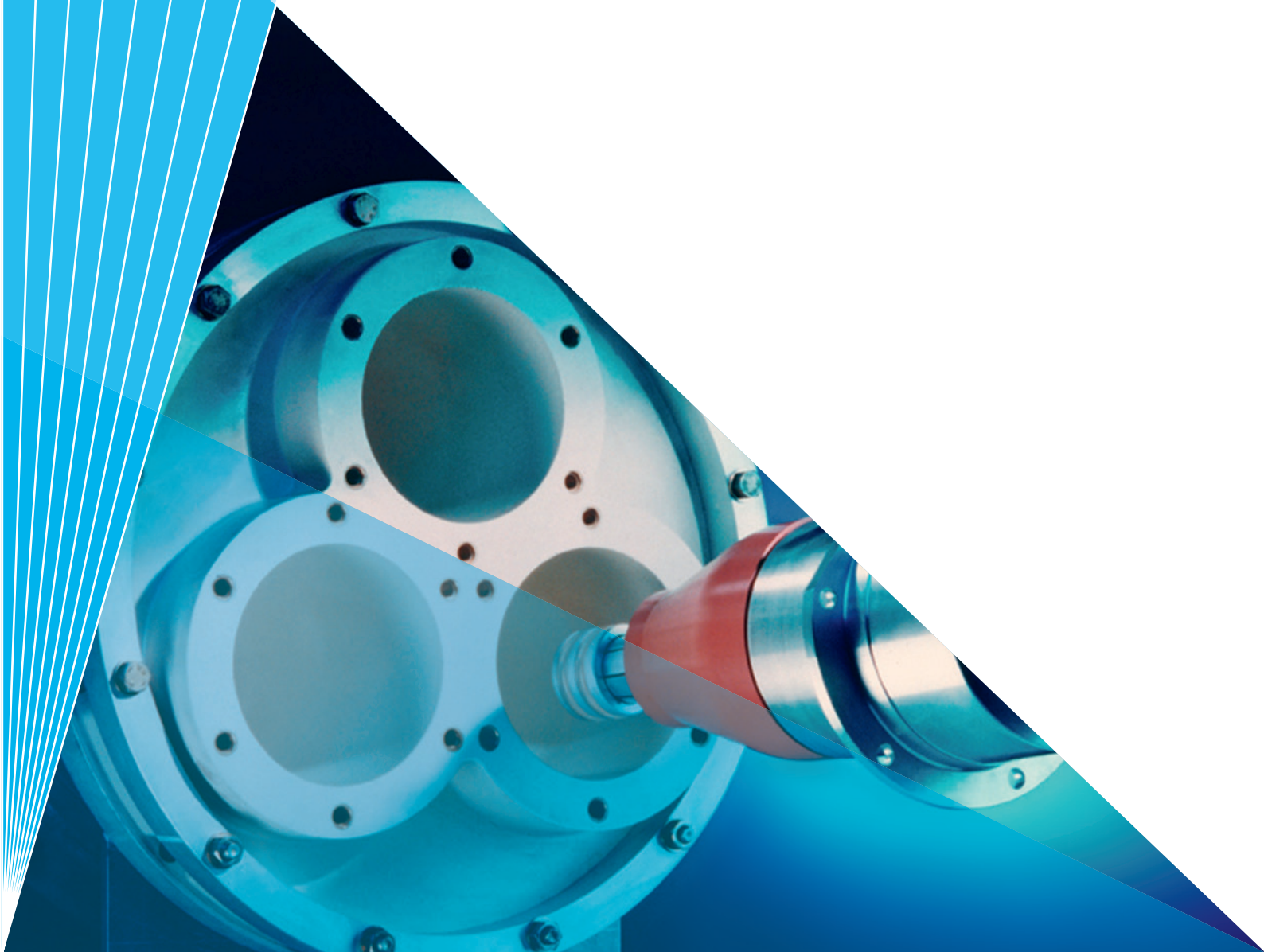
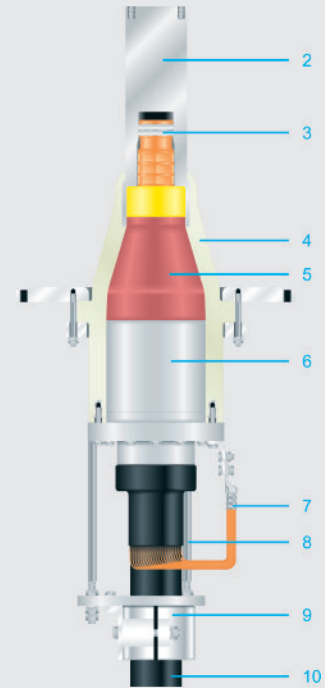
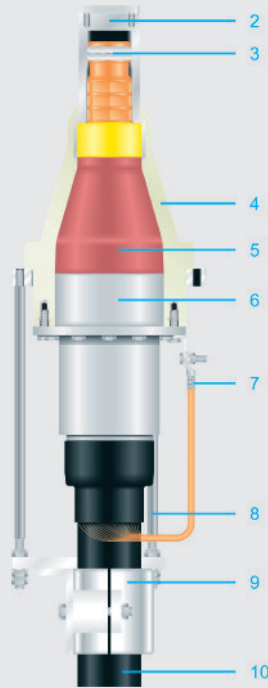
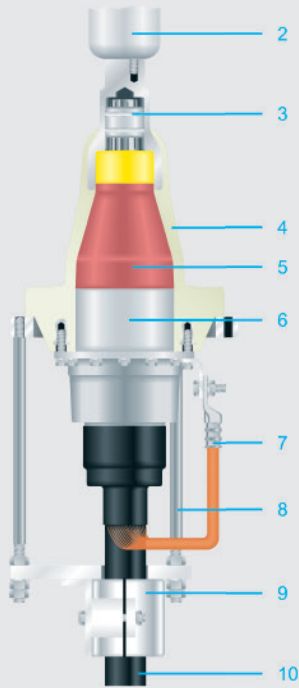


Accessories

for XLPE-insulated high-
and extra-high voltage cables





- | | | | | |
|------------------|------------------------------|-------------------------------------|----------------------|--------------------------|
| 1. Corona shield | 3. Pluggable current contact | 5. Silicone rubber stress cone | 7. Screen connection | 9. Cable clamp |
| 2. Connector | 4. Epoxy resin insulator | 6. Inlet with inner spring assembly | 8. Clamp support | 10. XLPE-insulated cable |

Compact terminations

EHSVS (in SF₆-enclosure) and EHTVS (for oil-filled transformers)

Type G

- For voltages up to 72.5 kV
- In accordance with IEC 62271-209, for use in cable enclosures at voltage level 72.5 kV

Types A/B

- For voltages from 123 kV to 170 kV
- Single-phase insulator design in accordance with the interface dimensions of IEC 62271-209
- Outer geometry and dimensions for Types A/B are identical, but are different at the plug end
- Consists of a pre-assembled stress cone made of silicone rubber for permanent elastic connection to the insulator via spring assemblies
- Current contact via custom contact springs
- Type B, which has a larger inner diameter, can generally be used for conductor cross-sections of 630 mm² up to max. 2500 mm²

Type C

- For voltages from 72.5 kV to 145 kV
- Special compact cable entry uses a common three-phase epoxy resin insulator
- Stress cone made of silicone rubber, with inner spring assembly and pluggable current contact
- For use in SF₆-enclosure only

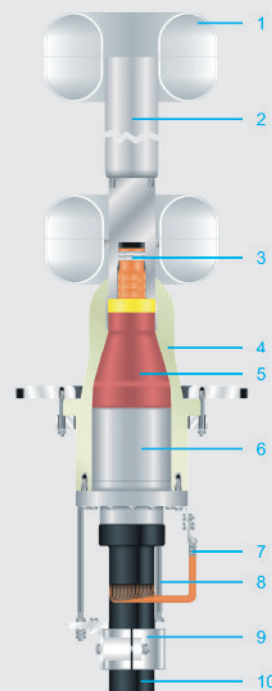
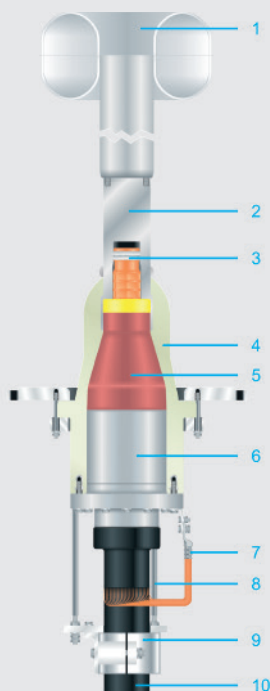
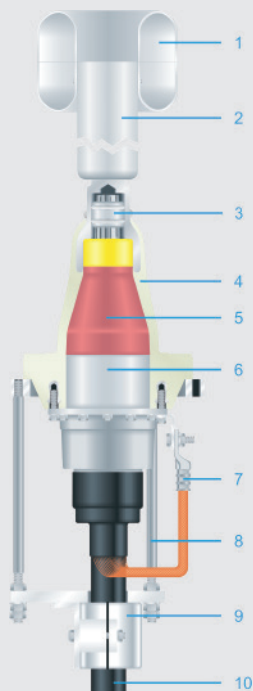
Type D

- For voltages from 72.5 kV to 145 kV
- Interface dimensions comply with IEC 62271-209 for voltages from 123 kV to 145 kV
- Like Types A/B, uses a single-phase epoxy resin insulator
- Stress cone made of silicone rubber, with inner spring assembly and pluggable current contact

Types E/F/H

- For voltages from 245 to 300 kV (Type E) and from 362 to 550 kV (Type F)
- Type H for conductor cross-sections up to 3200 mm²
- All variants consist of a pre-assembled stress cone made of silicone rubber for permanent elastic connection with the insulator via spring assemblies
- Design essentially the same as Types A/B
- Single-phase insulator in accordance with the interface dimensions of IEC 62271-209

All insulators for the above-mentioned compact terminations – with the exception of Type C – can be used for the cable enclosures in both SF₆ enclosures as well as in oil-filled transformer enclosures in compliance with EN 50299-1/-2 (or similar) using the same pluggable parts. The compact terminations for transformers are labelled EHTVS, the only technical difference being one or two additional corona shield(s).



- 1. Corona shield
- 2. Connector
- 3. Pluggable current contact
- 4. Epoxy resin insulator
- 5. Silicone rubber stress cone
- 6. Inlet with inner spring assembly
- 7. Screen connection
- 8. Clamp support
- 9. Cable clamp
- 10. XLPE-insulated cable

Over the years, experience with built-in terminations for gas-insulated switchgears and transformers has proved just how valuable they are. The dry, compact terminations EHSVS or EHTVS have been established in the market since 1995. Additionally, they are suitable for use in climate-friendly substitute gases.

Highest voltage U_m	kV	72.5	123	123	145	145	170	245	300	362	420	550
Insulator type	–	G	D/C	A/B	D/C	A/B	A/B	E	E	F/H	F/H	F/H
In SF ₆ -enclosure	–	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS	EHSVS
In oil-transformer enclosure	–	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS	EHTVS
Impulse lightning voltage	kV	350	550	550	650	650	750	1050	1050	1175	1425	1675
Switching impulse voltage	kV	-	-	-	-	-	-	-	850	950	1050	1240
Normative document	IEC	60840	60840	60840	60840	60840	60840	62067	62067	62067	62067	62067
Cu/Al conductor (min.)	mm ²	95	150	150	240	240	240	400	400	500	630	800
Cu/Al conductor (max.)	mm ²	800	800	2500	800	2500	2500	2500	2500	3200	3200	3200
Rated current (max.) *	A	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150	3150
Rated peak current *	kA	100	100	170	100	170	170	170	170	170	170	170
Rated short-time withstand current *	kA/s	40/3	40/3	50/3 63/1	40/3	50/3 63/1	50/3 63/1	63/3	63/3	63/3	63/3	63/3
Max. radial force effect	kN	5	5	5	5	5	5	5	5	5	5	5
Max. longitudinal force effect	kN	10	10	10	10	10	10	10	10	10	10	10

Table 1 Data sheet for compact terminations

* Subject to cable conductor cross section