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Produkt!

Chapter I High voltage terminations

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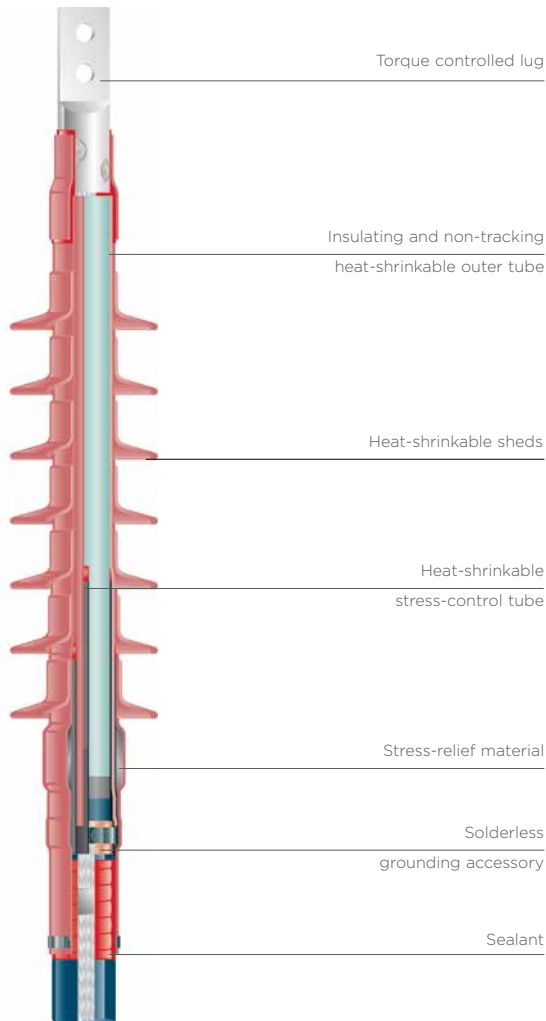
Heat-Shrinkable Terminations (IHVT-H/ OHVT-H/ LHVT-H)

APPLICATION

- The TE Connectivity TE's Raychem heat-shrinkable terminations are suitable for all climates, areas, and environments, even severely polluted areas, as well as for all installation conditions, including top feed installation
- Our heat shrink accessories have been used by utilities and industrial companies around the world for more than 50 years

FEATURES

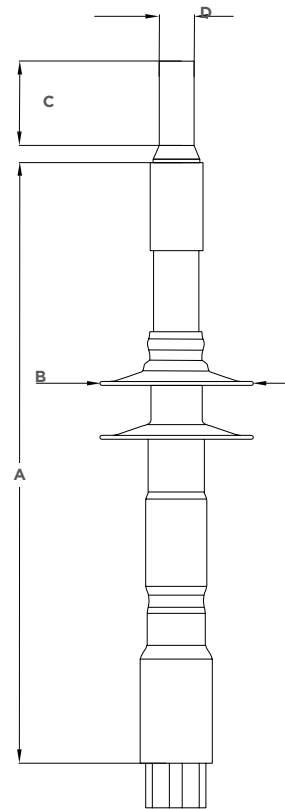
- Compact and modular design
- Heat-shrinkable stress control sleeves
- Non-tracking, heat-shrinkable outer insulation
- Water- and corrosion-resistant
- Different creepage distances available
- Easy to install
- Suitable for compression and mechanical lugs
- No special or expensive tools
- Lightweight components
- Unlimited shelf life under normal storage conditions
- No oil or compound filling
- Reduced waste for disposal



Max. operating voltage U_m (kV)	52	72.5	123
Standards	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815
Rated voltage U (kV)	45 - 47	60 - 69	110 - 115
Rated lightning impulse withstand voltage (BIL) (kV)	250	325	325*

* Reduced level compared to IEC 60840

Heat-Shrinkable Terminations (IHVT-52H/ OHVT-52H)



High Voltage Terminations

Technical data

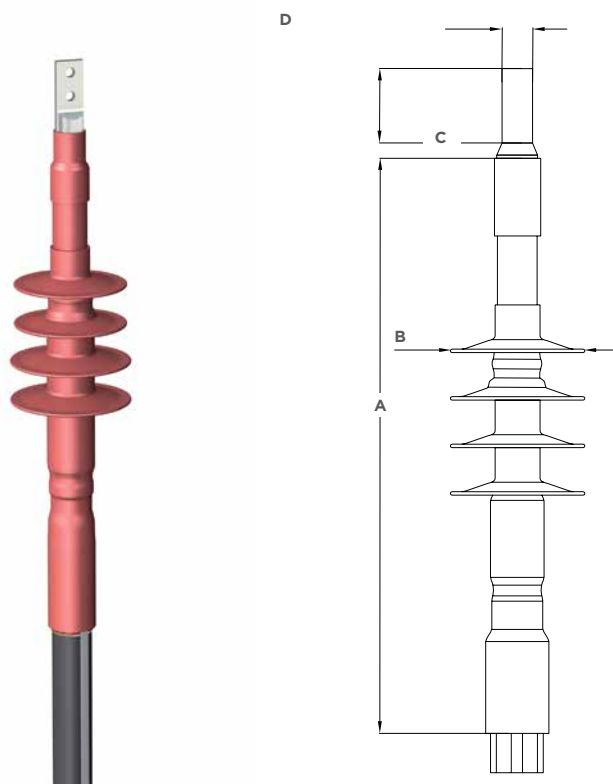
Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Creepage distance approx. (mm)
IHVT-52H	95 - 2500	30 - 77	100	1100
OHVT-52H	95 - 2500	30 - 77	100	1540

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D* (mm)
IHVT-52H	800	220	125	30/40/50
OHVT-52H	920	220	125	30/40/50

* Different studs and pads are available on request

Heat-Shrinkable Terminations (IHVT-72H/ OHVT-72H/ LHVT-72H)



Technical data

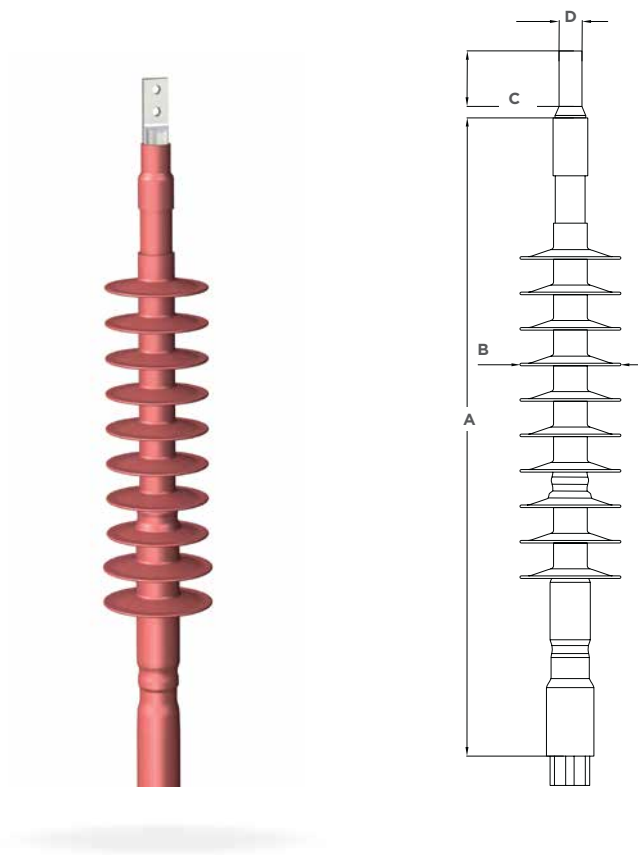
Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Creepage distance approx. (mm)
IHVT-72H	95 - 2500	30 - 86	110	1600
OHVT-72H	95 - 2500	30 - 86	110	2300
LHVT-72H	300 - 2500	38 - 86	110	3100

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D* (mm)
IHVT-72H	960	220	125	30/40/50
OHVT-72H	1200	220	125	30/40/50
LHVT-72H	1560	220	125	30/40/50

* Different studs and pads are available on request

Heat-Shrinkable Terminations (OHVT-123H)



High Voltage Terminations

Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Creepage distance approx. (mm)
OHVT-123H	95 - 1600	30 - 86	110	3100

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D* (mm)
OHVT-123H	1560	220	125	30/40/50

* Different studs and pads are available on request

NOTE To be used as a temporary solution only

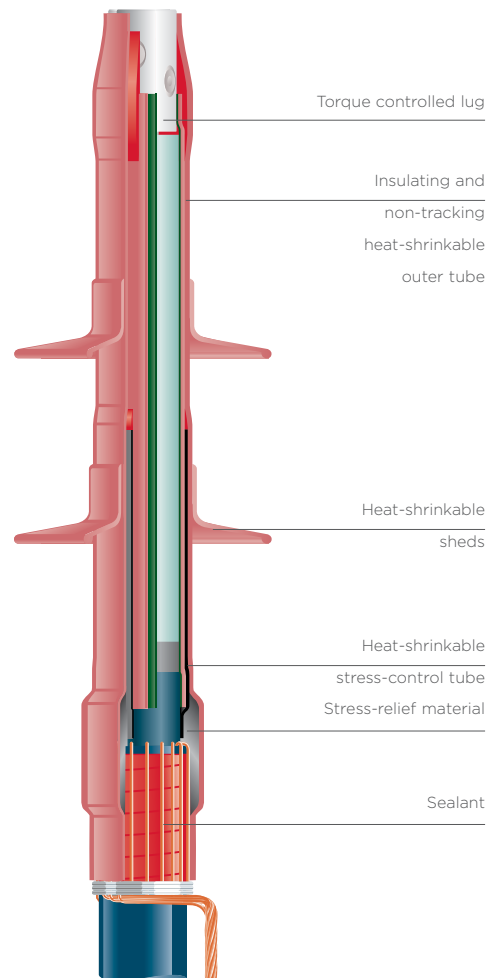
Heat-Shrinkable Terminations for DC Filter Cables (FCEV)

APPLICATION

- The cable is prepared in the same simple and easy way as for TE's Raychem medium voltage terminations without sanding or pencilling. Based on the design of TE's Raychem high voltage terminations, the filter cable termination consists of a staggered layer of stress control tubings and patches. A heat-shrinkable non-tracking insulation tubing and shed are shrunk over the stress control system and ensure a reliable seal to the lug and the oversheath. A mechanical lug is supplied with the kit. The mechanical lug has an M10 thread on the top for easy connection to connecting busbars. The termination is supplied as a single phase termination. A solderless earth connection for cables with metal sheath is included in the termination kit

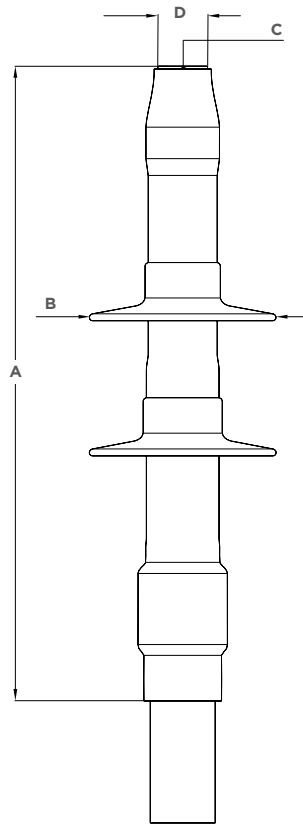
FEATURES

- Compact and modular design
- Heat-shrinkable stress control sleeves
- Non-tracking, heat-shrinkable outer insulation
- Easy to install
- No special or expensive tools
- Lightweight components
- Unlimited shelf life under normal storage conditions
- No oil or compound filling
- Reduced waste for disposal



Max. operating voltage U_m (kV)	111	150
DC withstand test (kV)	200	300
Rated lightning impulse withstand voltage (BIL) (kV)	240	325

Heat-Shrinkable Terminations for DC Filter Cables (FCEV)



Technical data

Product description	No Load voltage U_L	Conductor cross section (mm ²)	Diameter over cable insulation (mm)
FCEV-111	111	35 - 95	26 - 38
FCEV-150	150	35 - 95	26 - 38
FCEV-150-1	150	95 - 240	38 - 52

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)
FCEV-111	500	155	M10	32
FCEV-150	700	155	M10	32
FCEV-150-1	700	155	M10	32



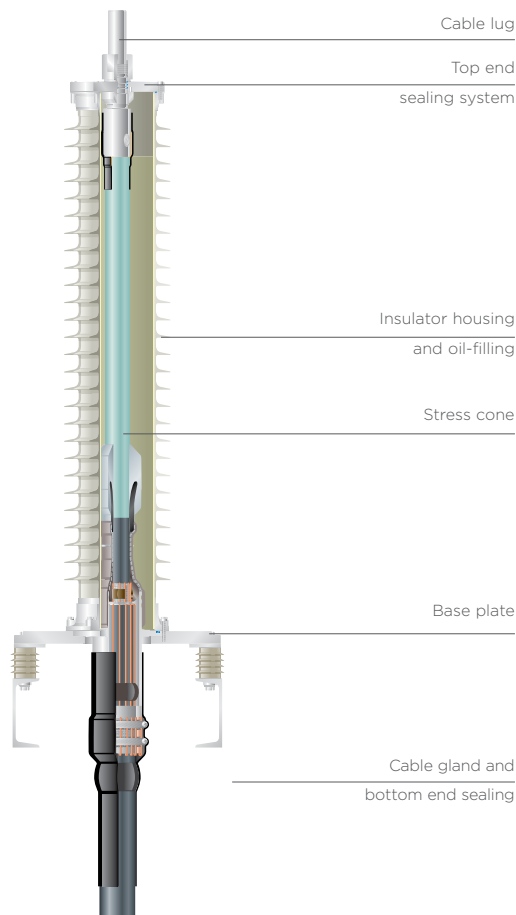
Outdoor Terminations Composite (OHVT-C)

APPLICATION

- The termination is designed for voltage classes up to 245 kV and to operate under severe environmental conditions. Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath. Composite housings with different creepage lengths up to 50 mm/kV are available for the most common and also extreme pollution levels according to IEC 60071-1 and IEC 60071-2

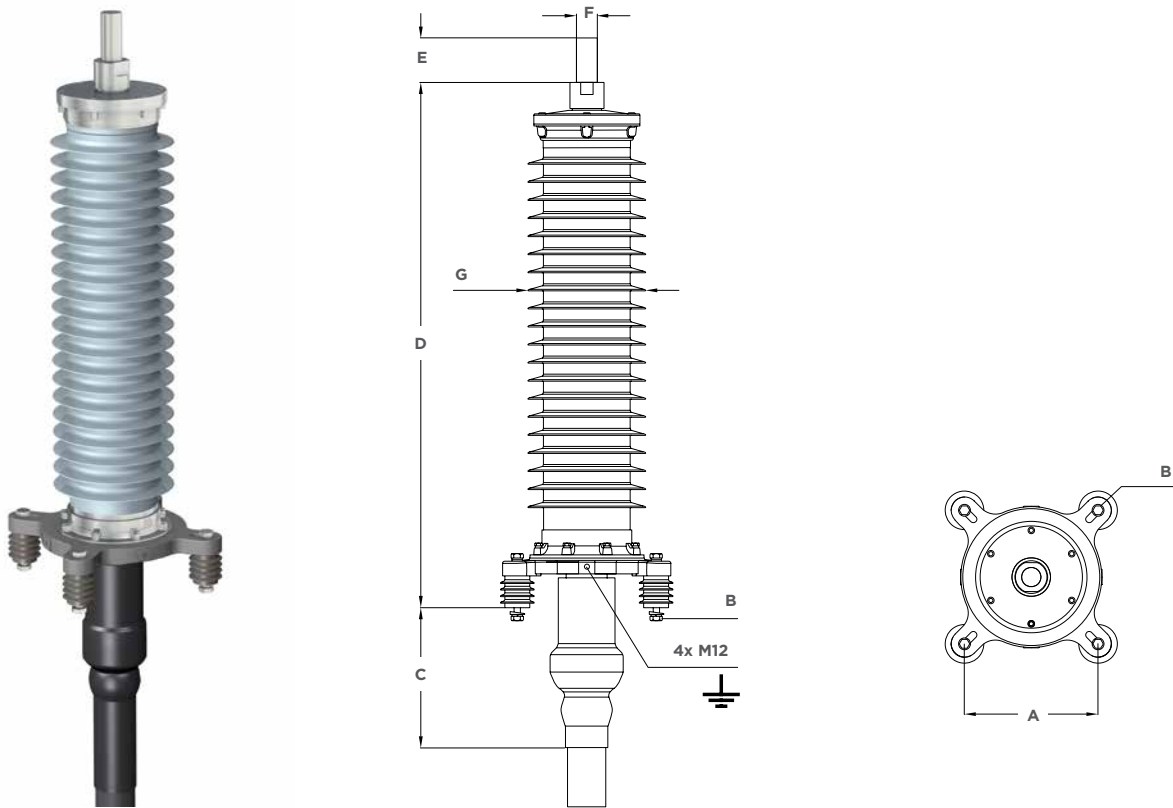
FEATURES

- Pressure-tight and light weight composite housing
- Pre-fabricated and factory-tested Silicone-rubber stress cone
- Torque-controlled conductor bolt
- No special tools required to install the termination
- Silicone-oil filling without preheating
- Insulated base plate for sectionalization
- Fittings made of corrosion-resistant alloy
- Type tested according to IEC 60840 and IEC 62067 standards



Max. operating voltage U_m (kV)	72.5	123	145	170	245
Standards	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 62067 IEC 60815
Rated voltage U (kV)	60 - 69	110 - 115	132 - 138	150 - 161	220 - 230
Rated lightning impulse withstand voltage (BIL) (kV)	325	550	650	750	1050

Outdoor Terminations (OHVT-72C)



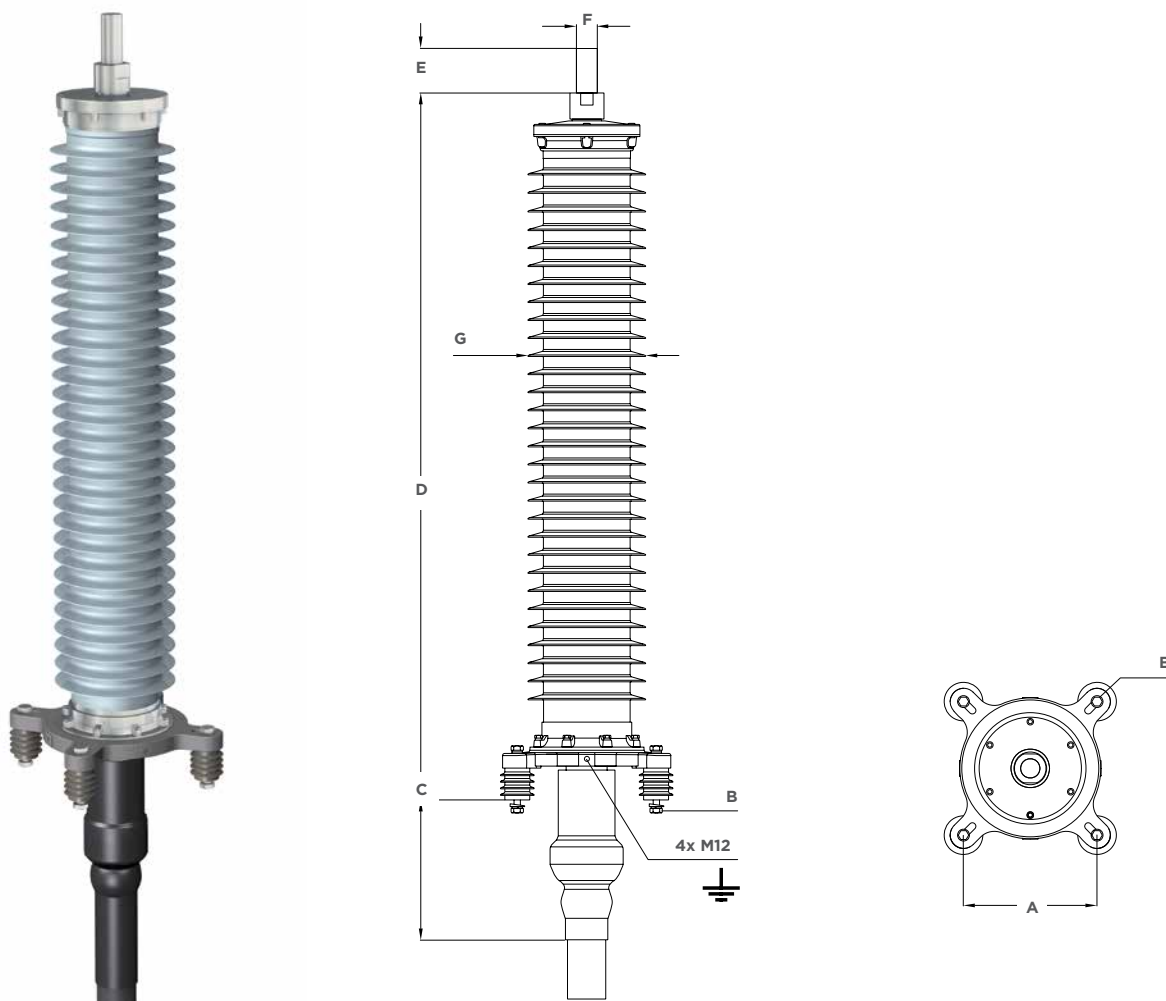
Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm ²)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-72C (-2A)	95 - 2500	34 - 97	110	2164
OHVT-72C (-2B)	95 - 2500	34 - 97	110	2383
OHVT-72C (-2C)	95 - 2500	34 - 97	110	3089

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-72C (-2A)	300 - 345	M16	350	1276	100/130	30/40/50	294
OHVT-72C (-2B)	300 - 345	M16	350	1072	100/130	30/40/50	304
OHVT-72C (-2C)	300 - 345	M16	350	1262	100/130	30/40/50	308

Outdoor Terminations (OHVT-145C)



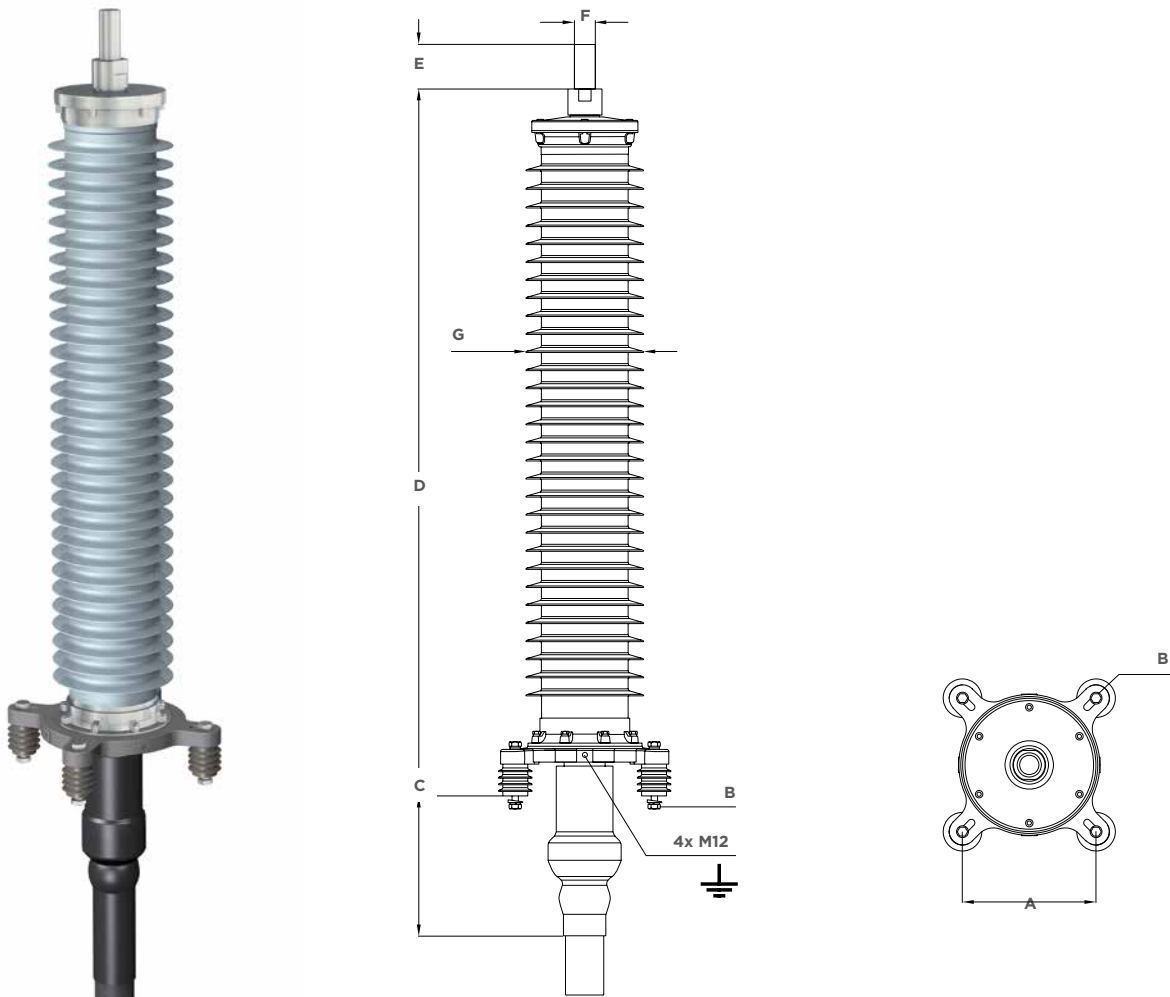
Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-145C (-2A)	95 - 2500	34 - 97	110	3392
OHVT-145C (-3A)	95 - 2500	34 - 97	110	3829
OHVT-145C (-4A)	95 - 2500	34 - 97	110	4684
OHVT-145C (-4B)	95 - 2500	34 - 97	110	6100
OHVT-145C (-4C)	95 - 2500	34 - 97	110	8047

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-145C (-2A)	300 - 345	M16	350	1771	100/130	30/40/50	294
OHVT-145C (-3A)	300 - 345	M16	350	1951	100/130	30/40/50	294
OHVT-145C (-4A)	300 - 345	M16	350	1696	100/130	30/40/50	304
OHVT-145C (-4B)	300 - 345	M16	350	2080	100/130	30/40/50	304
OHVT-145C (-4C)	300 - 345	M16	350	2608	100/130	30/40/50	304

Outdoor Terminations (OHVT-170C)



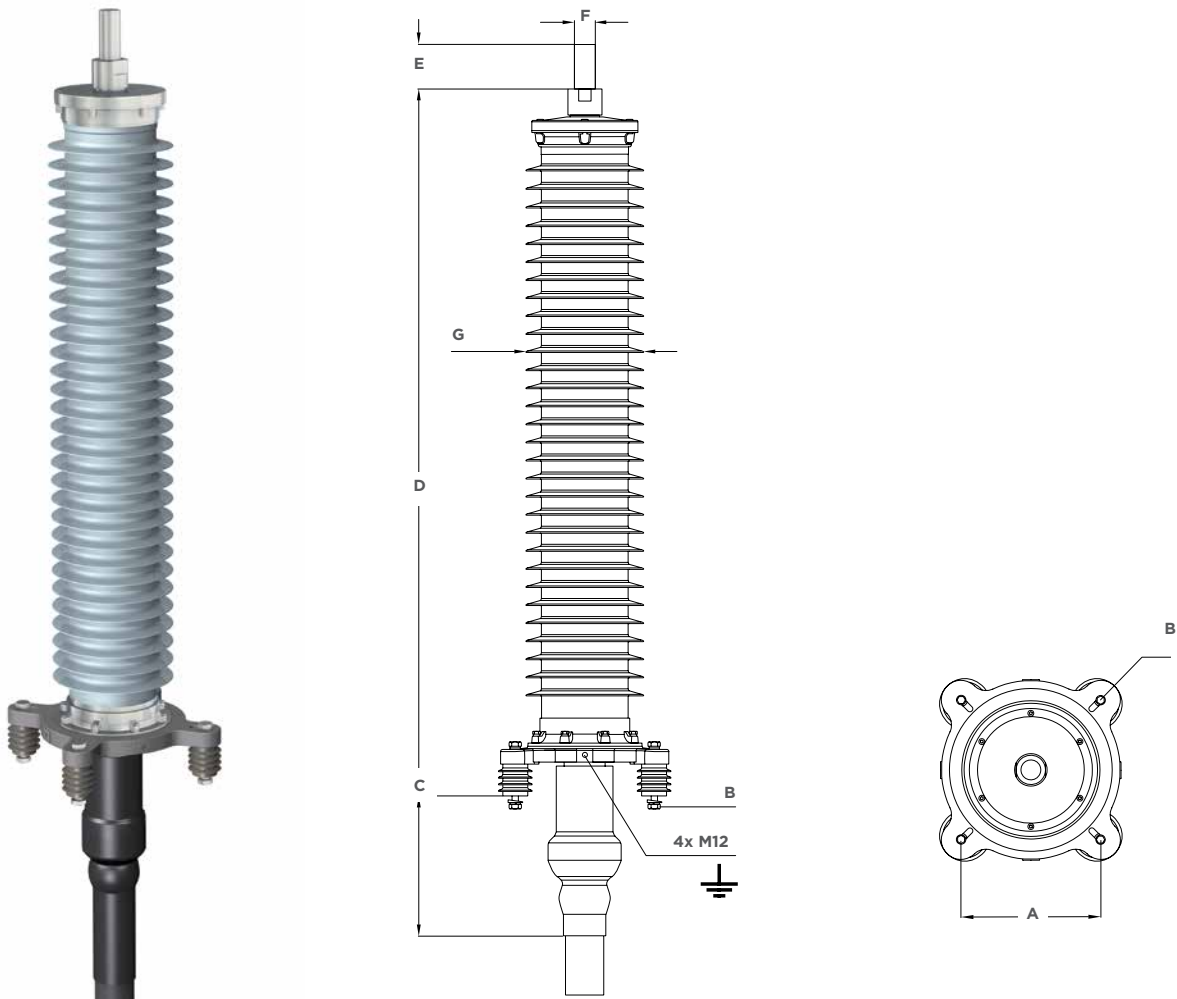
Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-170C (-1A)	95 - 2500	43 - 108	135	3829
OHVT-170C (-3A)	95 - 2500	43 - 108	135	4273
OHVT-170C (-4A)	95 - 2500	43 - 108	135	5373
OHVT-170C (-4B)	95 - 2500	43 - 108	135	5746
OHVT-170C (-4C)	95 - 2500	43 - 108	135	9436

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-170C (-1A)	300 - 345	M16	350	2028	100/130	30/40/50	345
OHVT-170C (-3A)	300 - 345	M16	350	2224	100/130	30/40/50	345
OHVT-170C (-4A)	300 - 345	M16	350	2614	100/130	30/40/50	345
OHVT-170C (-4B)	300 - 345	M16	350	2056	100/130	30/40/50	345
OHVT-170C (-4C)	300 - 345	M16	350	2856	100/130	30/40/50	345

Outdoor Terminations (OHVT-245C)



Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-245C (-2A)	300 - 2500	77 - 119	150	5161
OHVT-245C (-3A)	300 - 2500	77 - 119	150	5605
OHVT-245C (-4A)	300 - 2500	77 - 119	150	6160
OHVT-245C (-4B)	300 - 2500	77 - 119	150	8401
OHVT-245C (-4C)	300 - 2500	77 - 119	150	10171

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-245C (-2A)	430 - 550	M16	350	2564	100/130	50/60	402
OHVT-245C (-3A)	430 - 550	M16	350	2744	100/130	50/60	402
OHVT-245C (-4A)	430 - 550	M16	350	2969	100/130	50/60	402
OHVT-245C (-4B)	430 - 550	M16	350	2777	100/130	50/60	402
OHVT-245C (-4C)	430 - 550	M16	350	3257	100/130	50/60	402

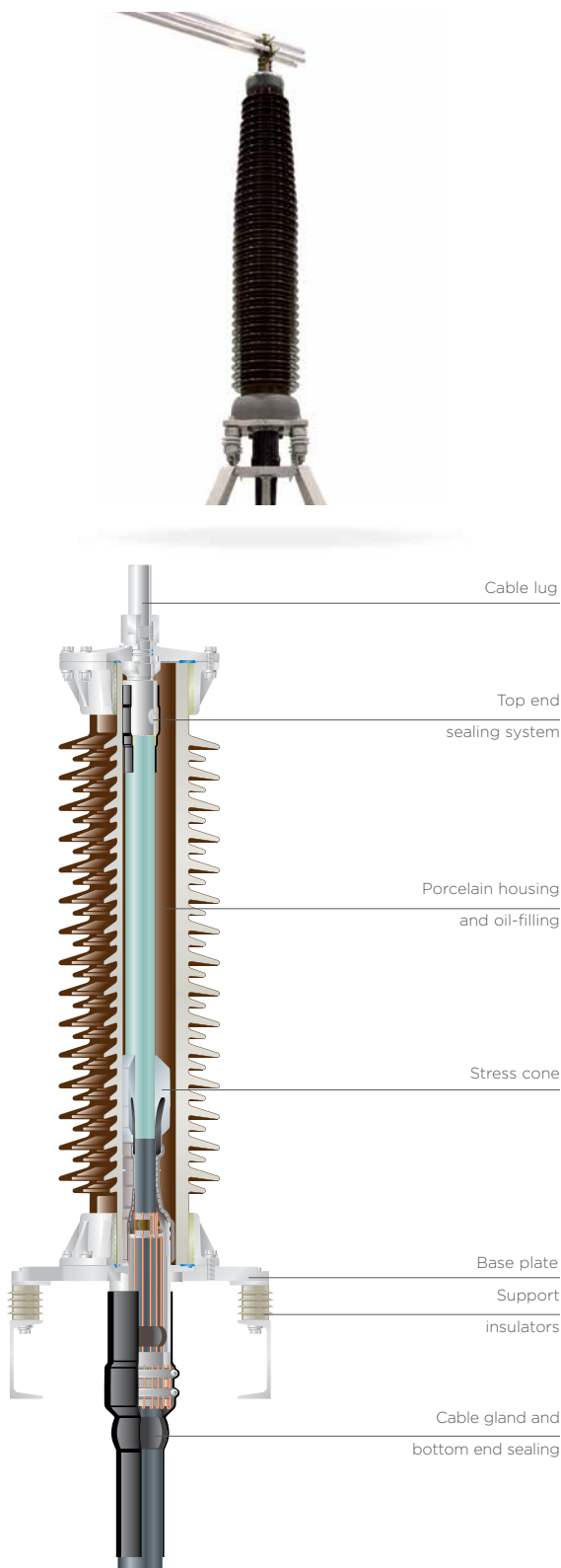
Outdoor Terminations Porcelain (OHVT-P)

APPLICATION

- The termination is designed for voltage classes up to 245 kV and to operate under severe environmental conditions. Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath

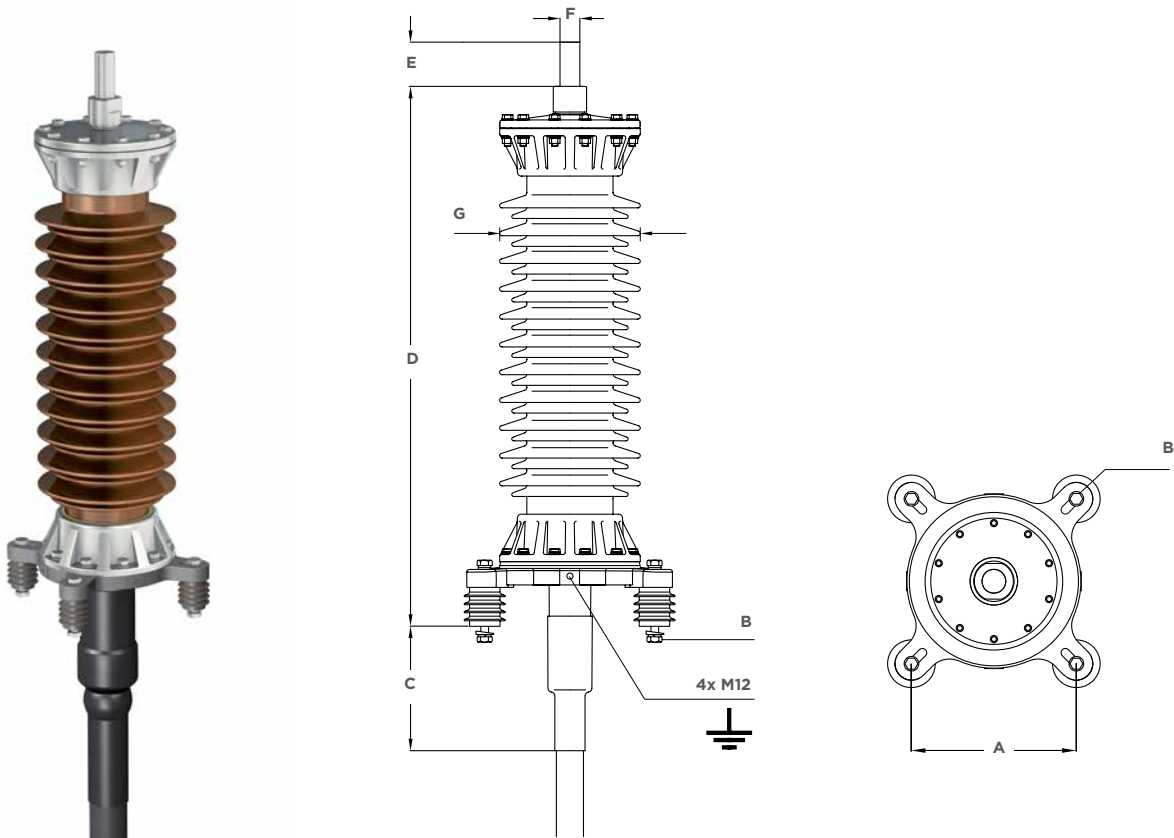
FEATURES

- Well-proven porcelain housing
- Pre-fabricated and factory-tested Silicone-rubber stress cone
- Torque-controlled conductor bolt
- H/S components used for sealing
- No special tools required to install the termination
- Silicone-oil filling without preheating
- Insulated base plate for sectionalization
- Fittings made of corrosion resistant alloy
- Type tested according to IEC 60840 and IEC 62067 standards



Max. operating voltage U_m (kV)	72.5	123	145	245
Standards	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 60840 IEC 60815	IEC 62067 IEC 60815
Rated voltage U (kV)	60 - 69	110 - 115	132 - 138	220 - 230
Rated lightning impulse withstand voltage (BIL) (kV)	325	550	650	1050

Outdoor Terminations (OHVT-72P)



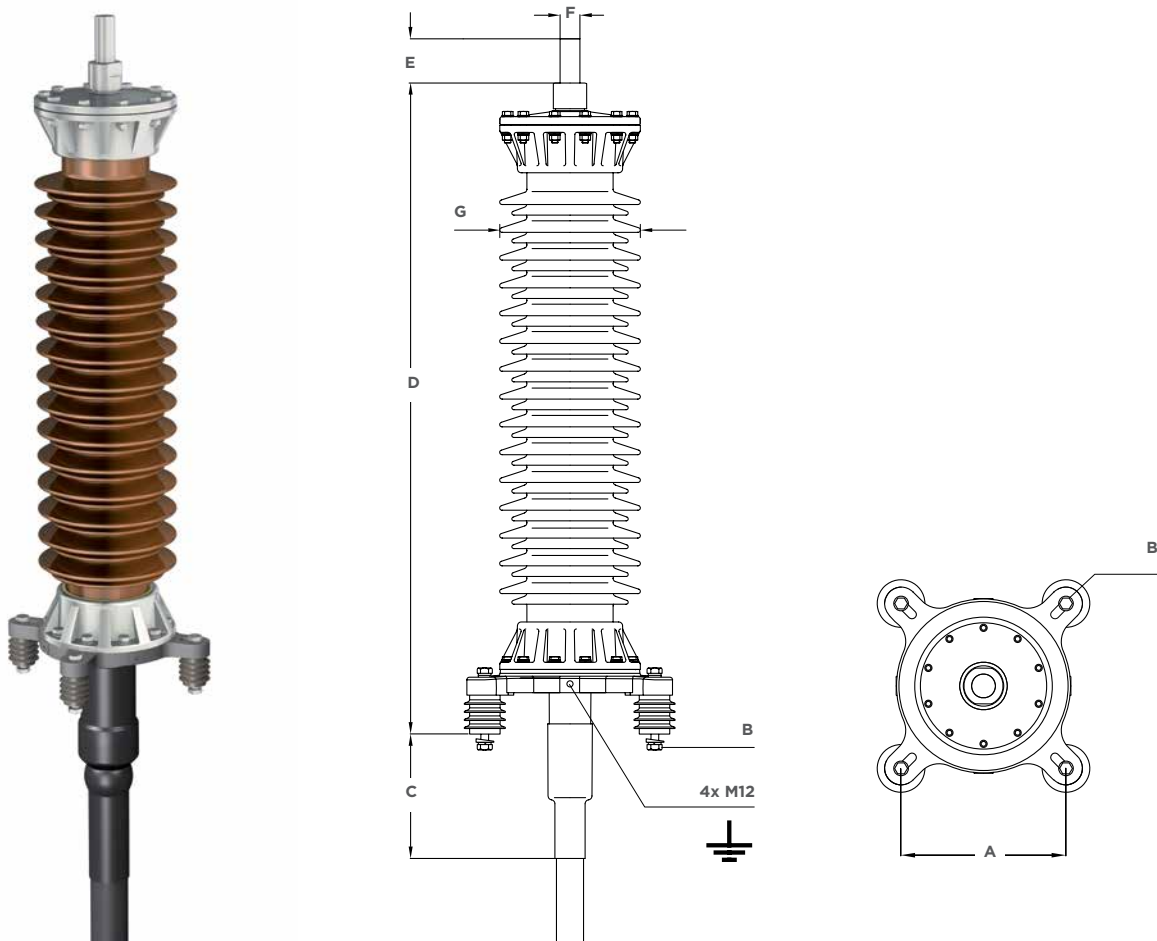
Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-72P (-2A)	95 - 1200	34 - 74	110	2350

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-72P (-2A)	300 - 345	M16	350	1245	100/130	30/40/50	360

Outdoor Terminations (OHVT-123P)



High Voltage Terminations

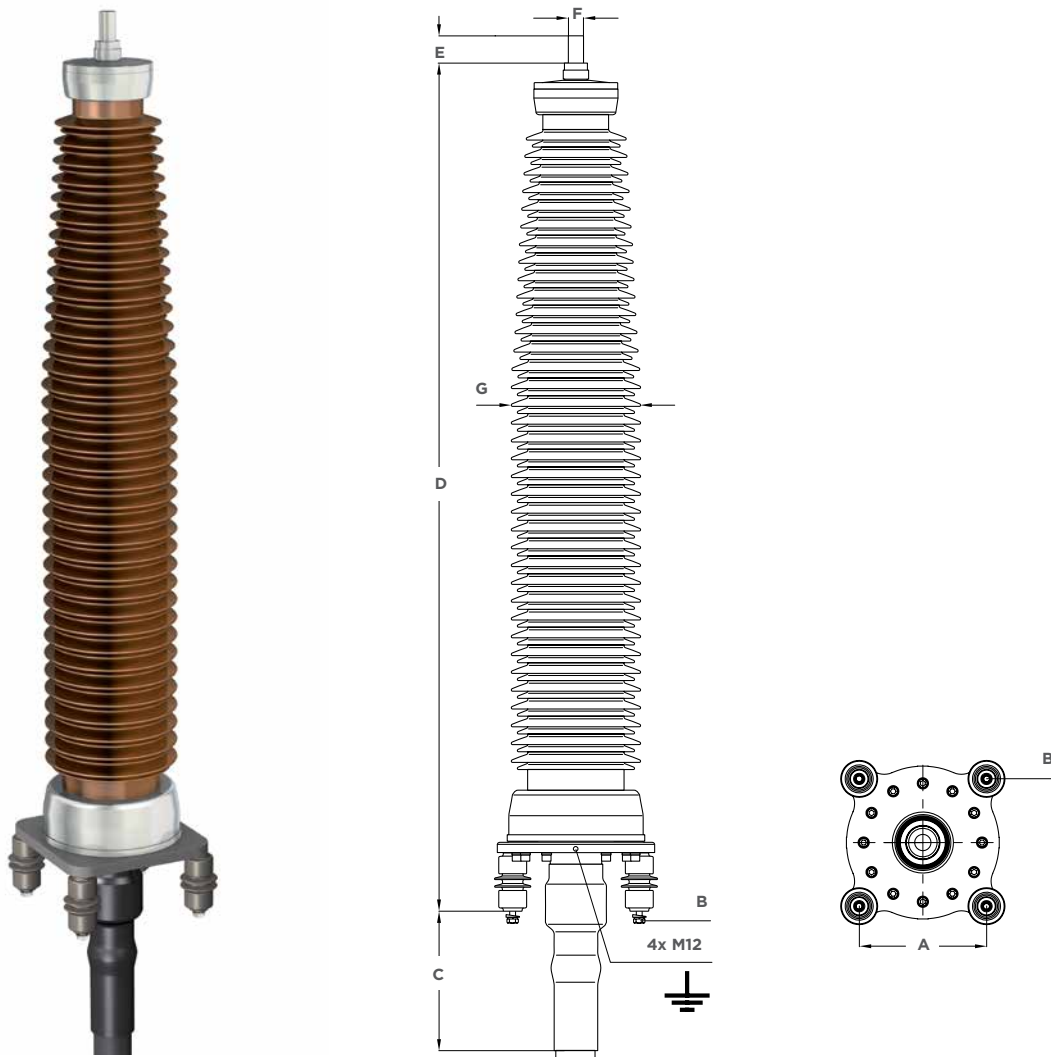
Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-123P (-4B)	95 - 1200	34 - 74	110	3910

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-123P (-4B)	300 - 345	M16	350	1615	100/130	30/40/50	360

Outdoor Terminations (OHVT-245P)



High Voltage Terminations

Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-245P (-4A)	300 - 2500	71 - 119	170	9100

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-245P (-4A)	500	M24	550	3356	100/130	50/60	514



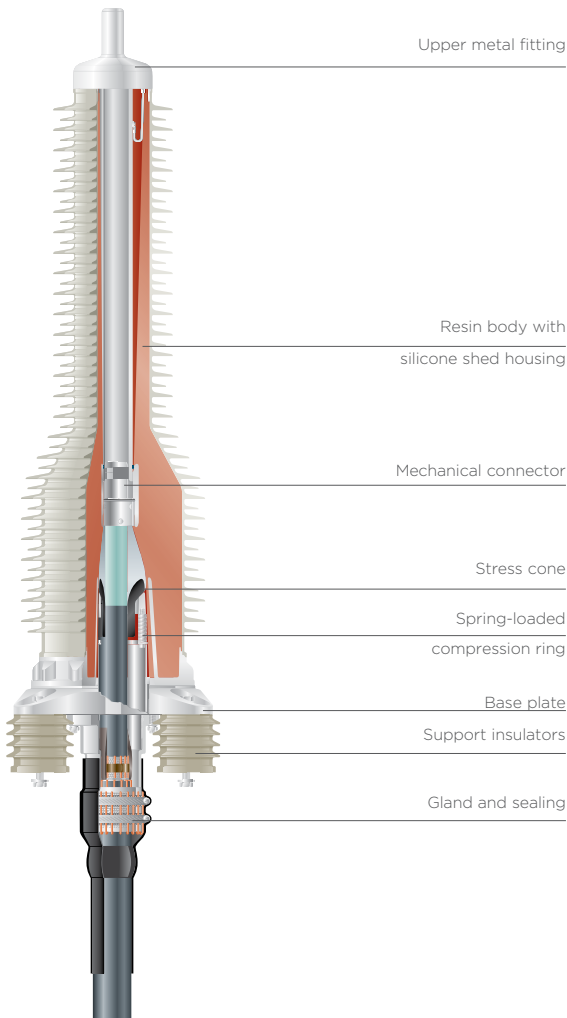
Outdoor Terminations Dry-type (OHVT-D)

APPLICATION

- The dry self-supporting termination is designed for voltage class 145 kV and operation under severe environmental conditions. It is free from any insulating liquid or gel. Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath. The termination is easily separable and consists of a plug-in part and an epoxy resin insulator protected with a directly moulded silicone shed housing. Due to the short cable cut-back dimensions of the plug-in, the time required to install the termination is very short and can be further reduced by pre-installing the plug-in on the shop floor. The plug-in is similar to the plug-in used with our dry switchgear/transformer termination

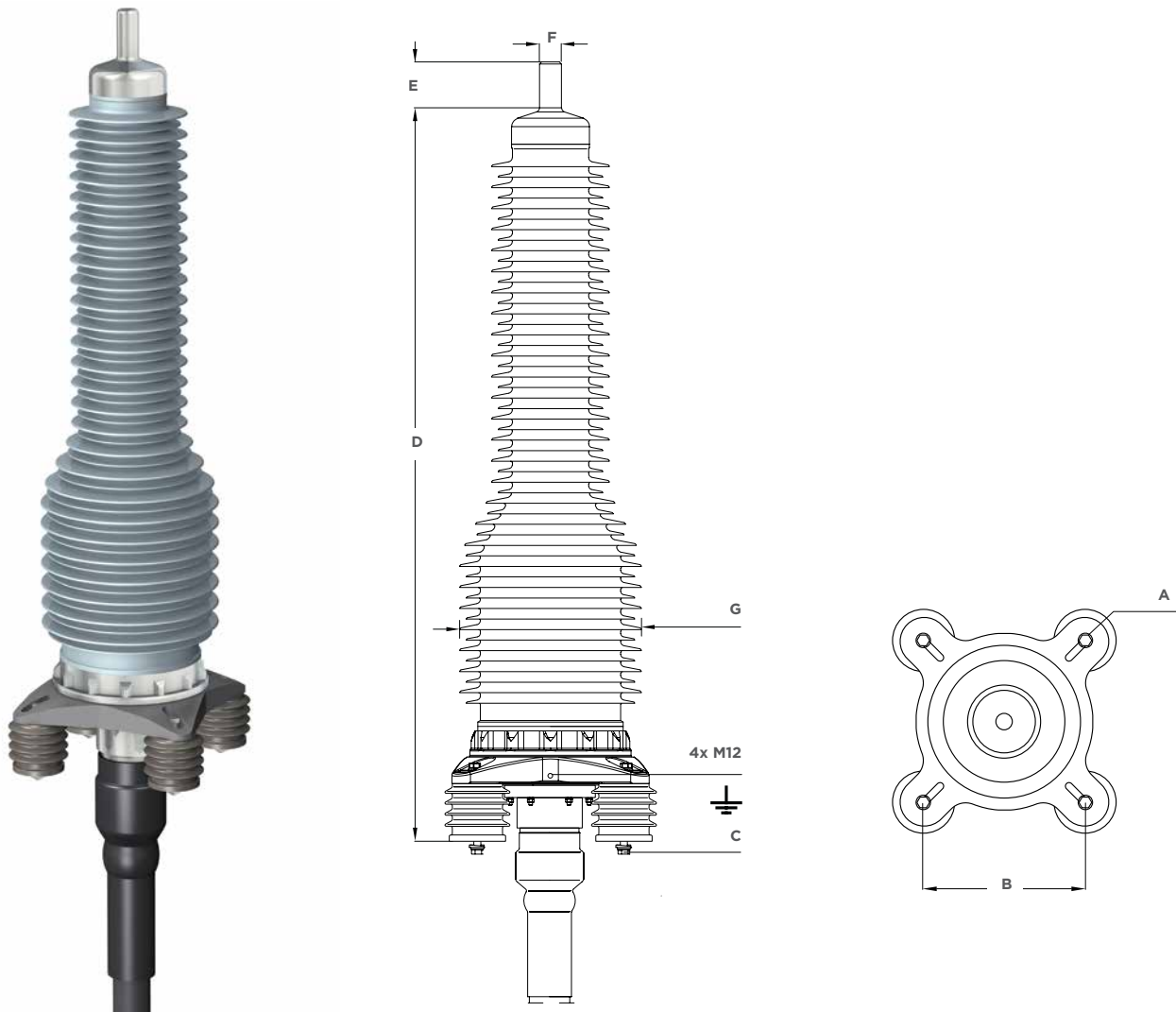
FEATURES

- Dry interface, no oil-filling
- Self-supporting
- Pre-fabricated and factory tested silicone-rubber stress cone
- Torque-controlled multi-contact conductor bolt
- Fast and simple installation combining GIS plug-in technology with polymeric insulators
- No special tools required to install the termination
- Insulated cable gland for sectionalization
- Type tested according to IEC 60840



Max. operating voltage U_m (kV)	123	145
Standards	IEC 60840 IEC 60815	IEC 60840 IEC 60815
Rated voltage U (kV)	110 - 115	132 - 138
Rated lightning impulse withstand voltage (BIL) (kV)	550	650

Outdoor Terminations Dry-type (OHVT-D)



Technical data

Product description	Conductor cross section (mm ²)	Diameter over cable insulation (prepared) (mm)	Max. diameter over outer cable sheath (mm)	Minimal creepage distance (mm)
OHVT-145D	95 - 1200	34 - 78	120	4680

Dimensions

Product description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
OHVT-145D	450	345	M16	1783	100	50	410



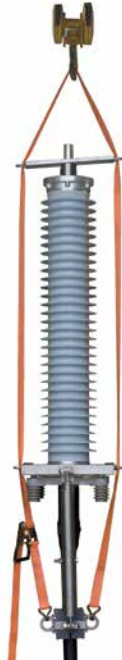
Arcing Horn for Outdoor Terminations (OHVT)

APPLICATION

- The arcing horns are made to protect the insulators from damage during a flashover. In case of overvoltages, the horns provide a separate breakdown path through the air and keep the flashover away from the insulator surface. As a result of this, the probability of insulator damage by overvoltage is reduced dramatically. The gap length can be adjusted so that the overvoltage withstand-level is variable

FEATURES

- Easy installation
- Various flashover lengths available
- No contact to the grounding system of the termination and power cable for isolated operation
- May be used for porcelain and composite insulators
- Special designs on request



Lifting Device for Outdoor Terminations (OHVT)

APPLICATION

- This lifting device is designed for lifting the installed termination, including the cable, to high positioned installation sites

FEATURES

- Comfortable and safe installation of the termination on the ground
- Designed to lift the complete installed and oil filled termination with cable
- Easy placement and mounting onto the rack on the pylon
- Applicable for all TE Connectivity terminations up to 170 kV
- Adjustable to all common cable sizes up to a diameter over cable sheath of 110 mm
- Easy assembling and handling
- Entire pulling force is applied to the cable only; no mechanical stress is applied to the termination
- Lifting slings and shackles are not included in the kit, because of their yearly safety check regulations
- Maximum lifting weight 500 kg



Oil Drain Flange for Outdoor Terminations

APPLICATION

- The oil drain flange is being used for easy access to the oil inside of the terminations after installation. This part allows to release some oil for quality check of the oil (e.g. moisture content, dielectric breakdown strength, etc.) if needed. But also in case of a temporary use of an oil filled termination, the incorporated oil can be released through this component so that a disassembling of the termination can be done in a clean way. The oil drain flange is installed between hollow core insulator and base plate

High Voltage
Terminations

Fibre-Optic Add-On Kit for Outdoor Terminations

APPLICATION

- The TE's Raychem fibre-optic add-on kit is designed to connect the glass fibres integrated in HV cables. The kit includes all components required to seal the cable jacket and the fibre-optic outlet securely and to protect the sensitive optical fibres that are housed inside the steel pipes
- The standard add-on kit is suitable for connecting two individual steel pipes each with a maximum of 24 optical fibres

FEATURES

- Gel-sealing technology ensures reliable outdoor operation
- Enhanced fibre management
- The splice box is easy to open and close without the use of special tools
- The kits are available for TE's Raychem outdoor terminations