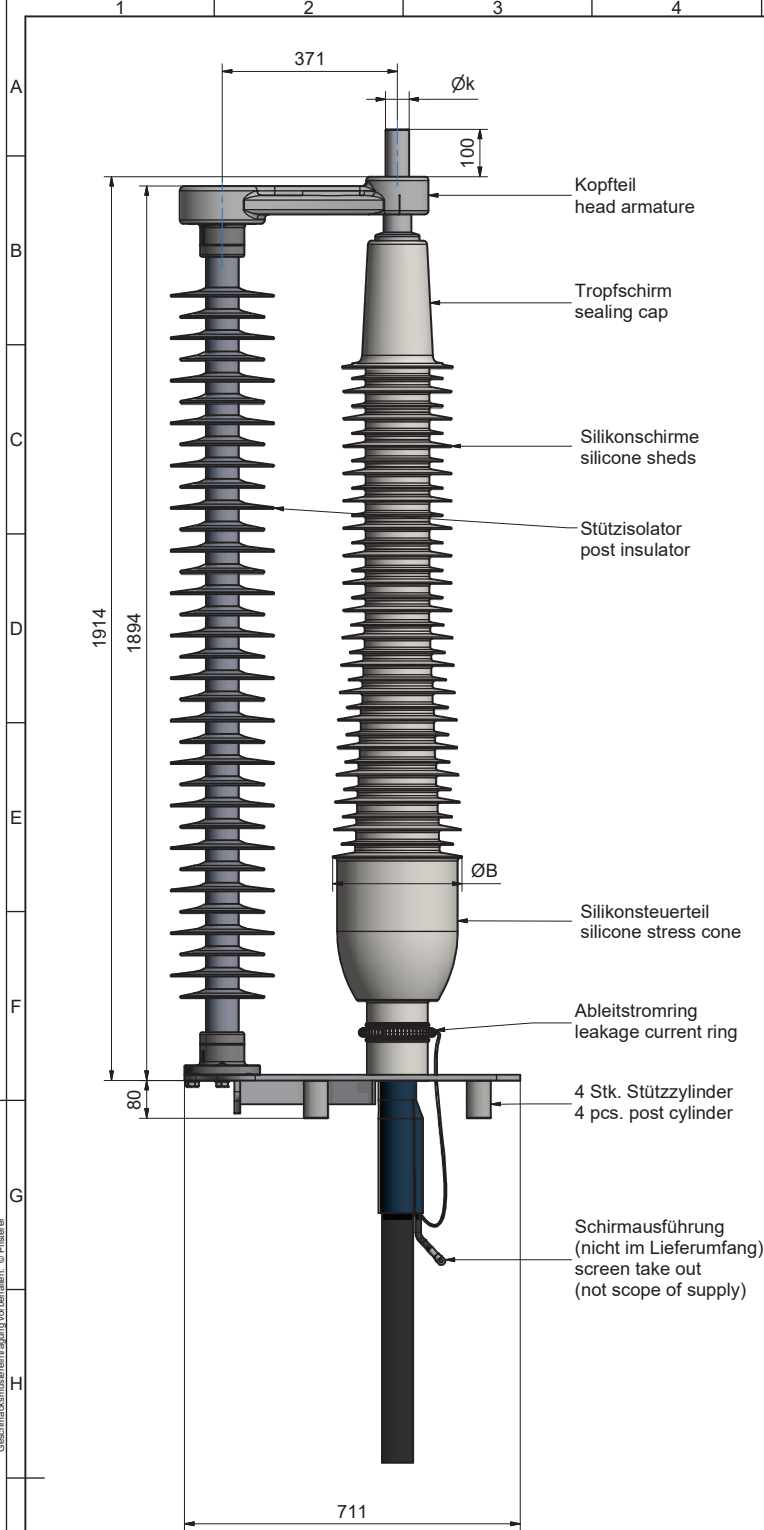
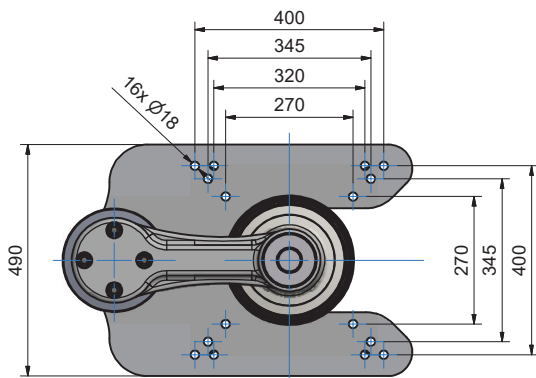
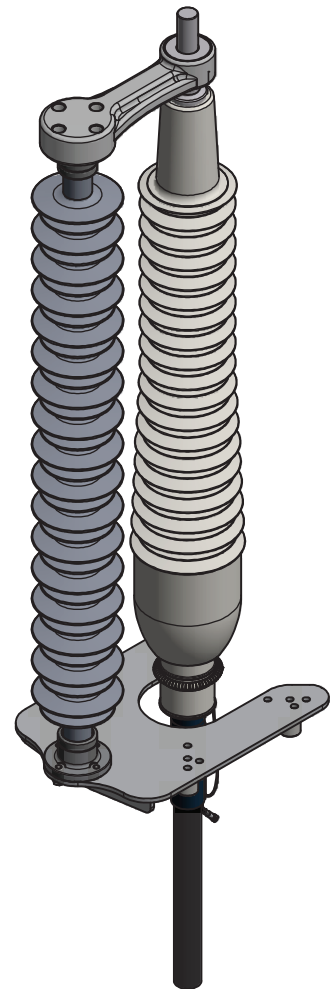



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Höchste Spannung für Betriebsmittel (Um) highest voltage for equipment (Um)				145kV
Mindest-Kriechweg minimal creepage distance				3625mm
Mindestschlagweite min. arcing distance				1575mm
entspricht ca. Leiterquerschnitt conductor cross- section (approx.)	Totalgewicht ohne Kabel (ca.) total weight without cable (approx.)	Kabelisolation Ø geschält Ø of cable insulation prepared [mm]		ØB [mm]
		min	max	
185 - 800mm ²	105kg	46.0	81.8	227
1000 - 2500mm ²	125kg	64.5	114.5	274
Kopfarmatur Bolzenabmessungen head armature top bolt dimensions				
Leiterquerschnitt conductor cross-section				Øk [mm]
≤ 500mm ²				30
> 500mm ² - <1200mm ²				40
≥ 1200mm ²				50



Maßstab / scale 1 : 8		Gewicht weight ca. ()		Zeichnung nicht masstäblich/ drawing not to scale Änderung vorbehalten/ subject to change			
		Name / name FERRAZZA		Datum / date 17.08.2022		Beschreibung / title EST145-C37-SUB Trockenisolierter HV Freiluft-Endverschluss	
Geprüft von approved by HOHLOCH		17.08.2022		EST145-C37-SUB Dry HV outdoor termination			
PFISTERER				Ersatz für / replacement for Kundenzzeichnung / Customer drawing		Dateiname / filename 100002348.dwg 00.00.dwg	
Änd./rev. no.		Status / status		Index / rev.		Format / size Blatt / sh.	
Ausgecheckt / Checked Out		01		880111222A016		PFISTERER Dokumentrev. / PFISTERER document no.	
PFISTERER Switzerland AG Switzerland							

Technical data of EST145-C37-SUB

Dry insulated self supporting outdoor termination with silicone rubber stress cone

Manufacturer		PFISTERER
Catalog name	HV-Cable termination EST	
Type designation	Voltage Range up to 145 kV	
Art. No.	dry type cable termination	
Variant	880 111 222	
	according to cable data	
Applied standard	IEC 60840	

Electrical levels (IEC 60840)	
Rated voltage (U)	132- 138 kV
Highest voltage (Um)	145 kV
(Uo) for determination of test voltage	76 kV
Max. design voltage to ground	84 kV

Electrical type test levels (IEC 60840)	
AC withstand voltage 15 min	190 kV
Lightning impulse voltage test (BIL)	650 kV
Heating cycles (AC voltage, 2Uo)	152 kV
Partial discharge test < 5pc at 1.5 Uo	114 kV

Electrical routine test levels (IEC 60840)	
AC withstand voltage 30 min	190 kV
Partial discharge test < 5pc at 1.5 Uo	114 kV
Each stress cone routine tested	yes

Current of conductor	
Max. current rating	same as cable
Max. thermal short circuit current (1 s)	63 kA
	max. same as cable

Cantilever load on vertical installation	
Max. designed cantilever load	2.5 kN

Operation conditions	
Ambient temperature	- 30 / + 55°C
Max inclination	± 1°

Stress control	
Field control method	geometrical
Type	pre-moulded
Material	silicone rubber
Production method	injection moulding
Production environment	clean room

Termination	
Filling compound	none
Overall length (Baseplate to top of head armature)	1982 mm
Diameter with sheds	220 / 274 mm
Silcosil post insulator	fibre glass / silicone rubber
Sheds material	silicone rubber
Pollution level IEC60815	25 mm/kV
Pollution level IEC60815-3	43.3mm/kV
Creepage distance	3625 mm
Flash over distance	1575 mm

Head armature	
Material	copper or aluminium
Conductor cross-section	150 - 2500 mm ²
Connection methods	
Bolted	150 - 2500 mm ²
Compression	150 - 2000 mm ²

Cable type	
Type	XLPE & EPR
Screen type	wire, lead sheath
	corrugated Al & Cu
Diameter over prepared insulation	46 - 115 mm
Range of overall cable diameter	50 - 154 mm

Cable clamp (mandatory)	
The cable clamp is not in scope of supply. This clamp must be able to retain the weight of the cable below the termination so that the termination is not loaded by the cable weight.	

Baseplate	
Material	steel (hot-galvanized)
Three fixing holes distances drilled	
Standard	270, 345 and 400 mm

Earthing cable	
Material	supplied by customer

Installation	
Installation work	only by certified fitters
Installation temperature	min. 0 / max. +55°C
Site conditions	clean environment
Max. installation height	
Baseplate to ground	6 m

Packing	
Gross weight 6 pcs without baseplate (approx.)	580 kg
Gross weight 6 pcs with baseplate (approx.)	710 kg
Wooden box	standard
Installation instruction for each kit	yes

Storage	
Conditions	clean and dry
Long-term storage temperature	min. 0 / max. + 25 °C
Shelf life items	2 years
Non-shelf life items	10 years
Expected service life after installation	40 years

