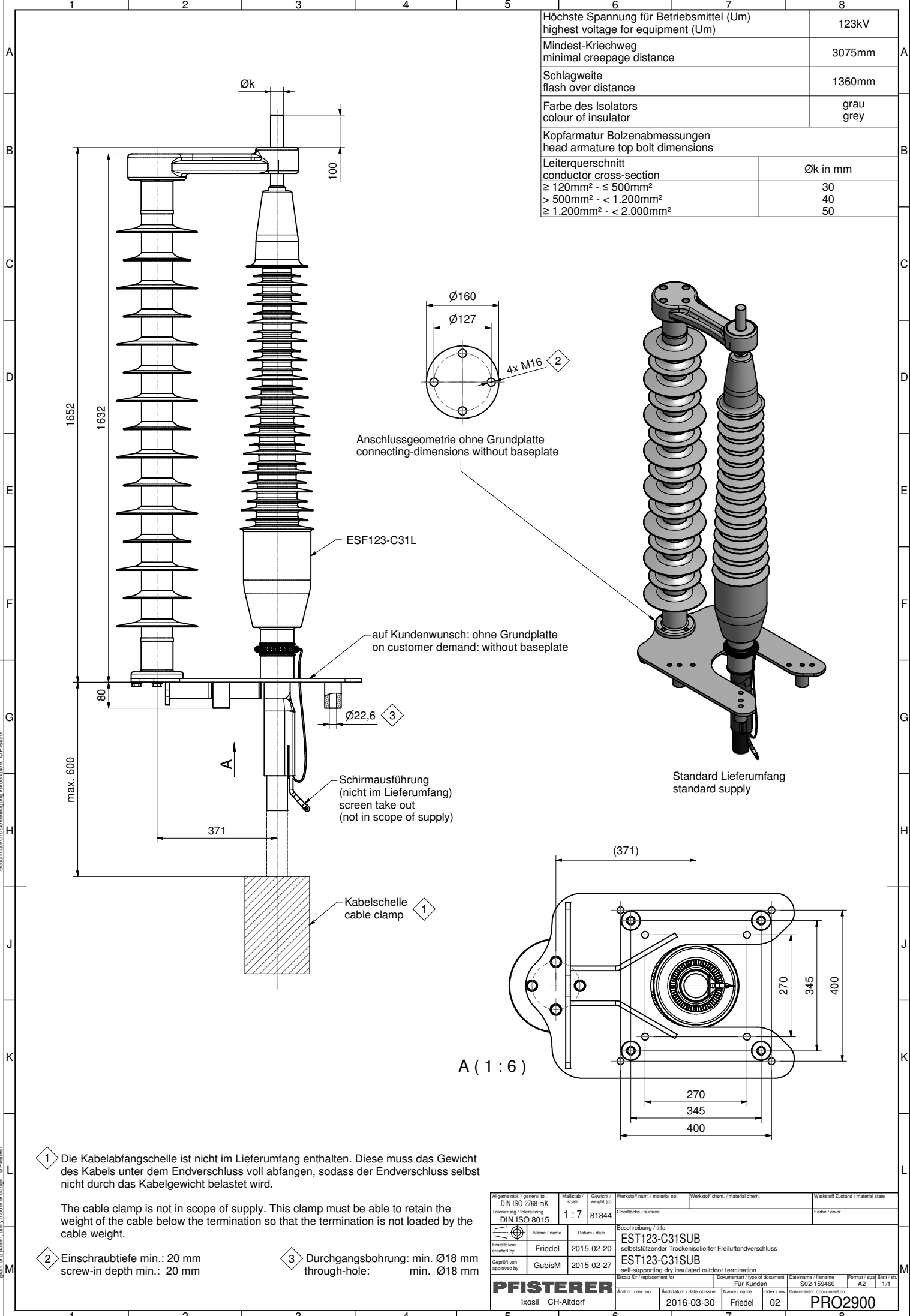




Technical data of EST123-C31SUB

Dry insulated self supporting outdoor termination with silicone rubber stress cone

Manufacturer	PFISTERER
Type designation	EST123-C31SUB
Application	composite outdoor
Applied standard	IEC 60840

Electrical levels (IEC 60840)

Rated voltage (U)	110 - 115 kV
Highest voltage (Um)	123 kV
(Uo) for determination of test voltage	64 kV
Max. design voltage to ground	71 kV

Electrical type test levels (IEC 60840)

AC withstand voltage 15 min	160 kV
Lightning impulse voltage test (BIL)	550 kV
Heating cycles (AC voltage, 2Uo)	128 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV

Electrical routine test levels (IEC 60840)

AC withstand voltage 30 min	160 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV
Each stress cone routine tested	yes

Current conditions

Max. current rating	same as cable
Max. thermal short circuit current (I 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 (Baseplatte to top of head armature)	1752 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	3075 mm
Flash over distance	1360 mm

Head armature

Material	copper or aluminium
Conductor cross-section	120 - 2000 mm ²
On request	2500 mm ²
Connection methods	
Bolted	120 - 2000 mm ²
Compression	120 - 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-glavanized)
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 enviroment
Max. installation height	
Baseplate to ground	6 m

Packing

Gross weight 6 pcs without baseplate (approx.)	500 kg
Gross weight 6 pcs with baseplate (approx.)	640 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

IEC
60840

100%
Tested

Maintenance
Free