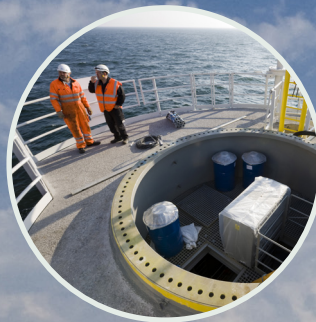
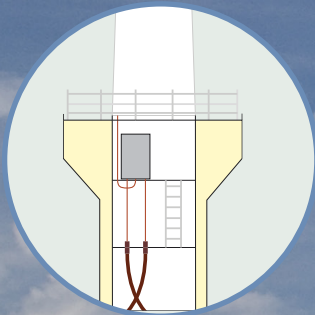




DESITEK A/S



Grid junction cabinet for offshore applications



36 kV GRID JUNCTION CABINET FOR OFFSHORE APPLICATIONS



DESITEK A/S

Abstract

- Developed for offshore wind turbines
- Flexibility in construction, test, commissioning and operation of offshore installations



Design considerations

- **Offshore environment**
Marine grade stainless steel AISI 316L, surface protected against corrosion by dip pickling
- **Degree of protection**
Components selected for IP65



- **Dimensions - example**
W 620 x H 1.100 x D 1.200 mm
Weight 125 kg

Electrical interface

- **Cable entry**
multidiameter technology, range of outer cable diameter 24 – 71 mm



- **Cable fixing**

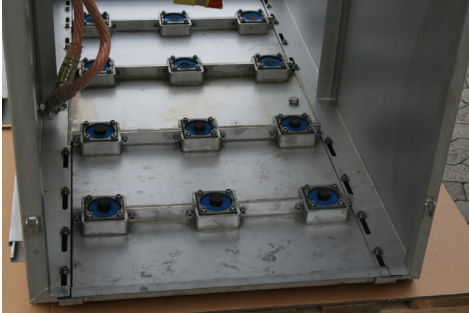


- **Cable connector**
bushing according to DIN 47636, EN 50180 and EN 50181, 630 A (type C1) or 1.250 A (type C2)



Cable configurations

- Up to 12 singlecore-cables
(4 sets of conductors)



Partial assembling and disassembling of cables

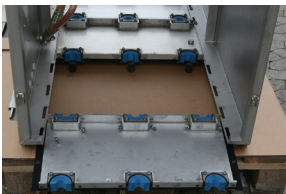
- Section-wise assembly of bottom flange



1



2



3



4



5

Parameters to be determined before ordering

- **Mechanical dimensions** - must be coordinated with the type of cable connector in application
- **Amplitude and duration** of max. short-circuit current

Options

- **Cabinet fixing arrangement**



- **Fixed points** for application of earthing and short-circuiting device



- **Warning signs** and labels for cable-identification



- **End covers** prepared for locking device
- **Glands** for auxiliary equipment



Reference projects

- **Horns Rev 2** (91 wind turbines)
- **Gunfleet Sands 1+2** (30+18 wind turbines)
- **Walney 1** (51 wind turbines)
- **Walney 2** (51 wind turbines)

INSULATED SPECIAL TOOLS

For assembling and disassembling of high voltage cables and connectors in cabinets and switchgears



DESITEK A/S

Earthing rod with socket for T-pin

For assembling and disassembling of connectors and application of earthing and short-circuiting device.

Note! Long T-pin required

Length	1 m
Torque:	Max. 50 Nm
Suitable for	½" torque wrench

Type	Article No.
Earthing rod with socket for T-pin	769201/S2

Earthing adaptor

Female thread	M12	M12	M16	M16
Fixed ball point	ø20	ø25	ø25	ø20
Total length	128 mm	139 mm	139 mm	168 mm
For connector type	630 A NKT	630 A NKT	1250 A NKT	Nexans-EuroMold
			/ Nexans-Euromold	
I _{K1s} [kA]	23,7	29,6	29,6	23,7

Type	Article No.
Earthing adaptor M12/ø20	12055.009
Earthing adaptor M12/ø25	12055.018
Earthing adaptor M16/ø25	12055.020
Earthing adaptor M16/ø20	12055.007

Earthing adaptor

for Nexans/Euromold connectors

Type	Article No.
Earthing adaptor for 430TB, ø20	300GP-Bx20
Earthing adaptor for 400TB, ø20	400GP-Bx20

Socket attachment for earthing rod

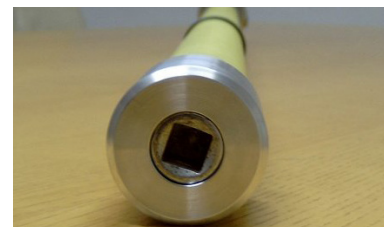
For mounting of earthing adaptor

Type	Article No.
Wrench socket with T-pin 19 mm	12055.014
Wrench socket with T-pin 22 mm	12055.024
Wrench socket with T-pin 24 mm	12055.015
Wrench socket with T-pin 27 mm	12055.021

Hook for end cap

for removal of end cap

Type	Article No.
Long hook for T-pin type SQL	12055.017
Compact hook for T-pin type SQ	12055.027



Earthing rod



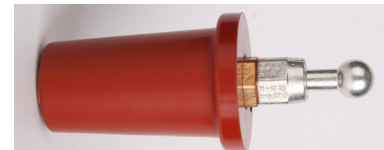
Socket for T-pin



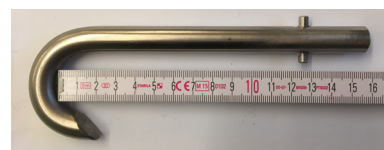
Earthing adaptor



Earthing adaptor for Nexans/Euromold



Socket attachment for earthing rod



Hook for removal of end cap

