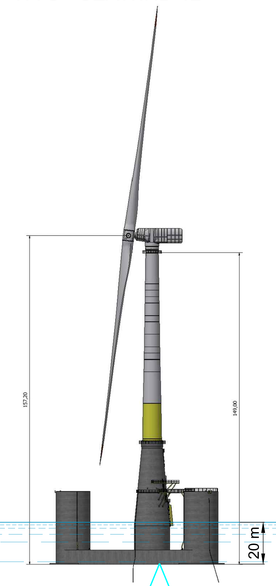
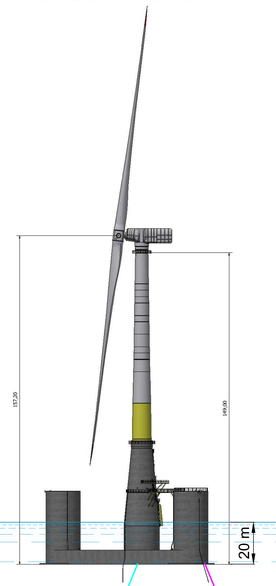
WTG - SEAWIND 12

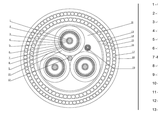


WTG - SEAWIND 12



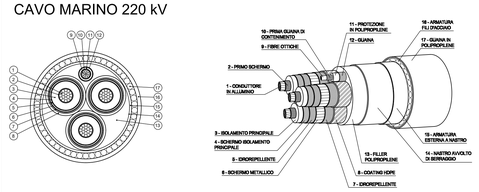
TIPOLOGIE CAVI

CAVO MARINO 66 kV

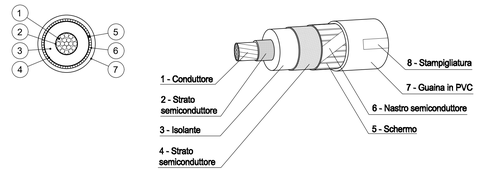


1 - Copper round compacted class 2 according to IEC 60228 of nominal cross-section equal to 240 sq.mm, longitudinally water sealed by special water-blocking compound.
2 - Semiconducting tape applied with overlap.
3 - Conductor non-metallic extruded screen: Extruded semiconducting compound
4 - Insulation: XLPE according to IEC 62620 of 11.1 mm nominal thickness. \r
5 - Core non-metallic extruded screen: Extruded semiconducting compound bonded to outer surface of insulation.
6 – Semiconducting waterblocking tape(s) applied with overlap.
7 -Metallic screen: Copper wires helically applied over each individual core. Cross-section of copper wire screen: 20 (sq.mm)
8 - Copper equalization tape helically applied in counter helix to the CWS (nominal cross-section : 1 mm2)
9 – Semiconducting waterblocking tape(s) applied with overlap.
10 – Sheath: Semi conductive MDPE type ST7 of 3.0 mm nominal thickness. Sheath colour: Black
11 – Extruded fillers at the outer interstices between cores in order to give the cable a circular cross-section.
12 – polypropylene round central fille
13 – Binding tape(s) helically applied with overlap. (manufacturer's option)
14 – Semiconductive Polyethylene layer (bedding) of 3 mm approximate thickness.
15 – Armour consisting of one layer of helically applied bitumen compound coated galvanized round steel wires of grade 34, class A, 4.25 mm nominal diameter according to EN 10257-2
16 – Two layers of polypropylene yarns with total approximate thickness of 2.0 mm. Over the inner (first) layer bitumen compound is applied. Also, the outer (second) layer shall consist of black and yellow polypropylene yarns as to form a helical yellow stripe.
17 – Second armouring layer consisting of one layer of helically applied bitumen compound coated galvanized round steel wires of grade 34, class A, 4.6 mm nominal diameter according to EN 10257-2
18 – Serving consisting of extruded HDPE with 4 mm approximate thickness.
19 – One armoured optical unit of 13 mm approximate diameter that consists of a stainless steel tube, PE inner sheath, stainless steel wire armour and PE oversheath. Each F.O. unit contains 48 Single Mode fibres.

CAVO MARINO 220 kV



CAVO TERRESTRE 220 kV



SEZIONE B-B
POSA CAVO TERRESTRE

(conformi all' Allegato A1 della Prescrizione Tecnica TERNA UX LK401 Rev.00 del 20-02-2008)

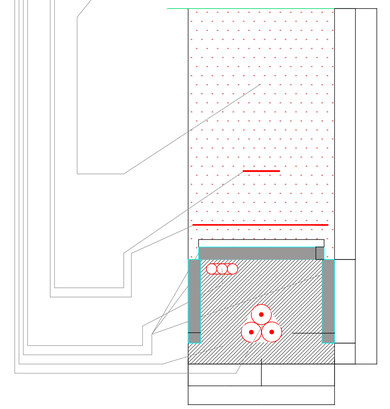
A1 — Cavo 150-220 kV Trifoglio Posa in terreno agricolo

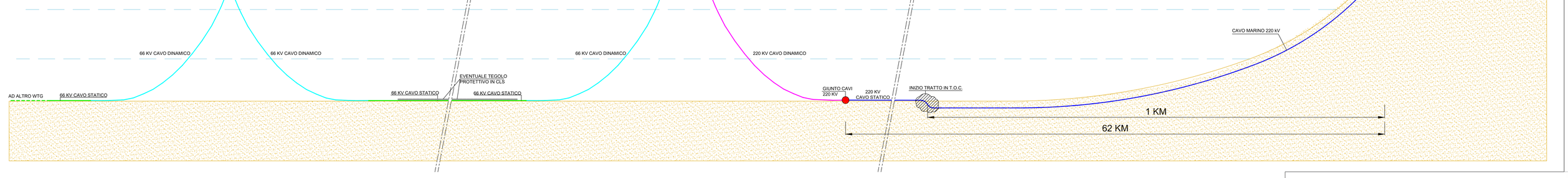
Sezione conforme a Allegato B1 a Prescrizione Tecnica TERNA UX LK401 Rev.00 del 20-02-2008

Cavi XLPE
Cemento magro UX LK50 Rt < 1,2 k m/W
Piastre di protezione in c.a.v. UX LK20/2 e UX LK20/3
Tritubo 3 x 50 mm

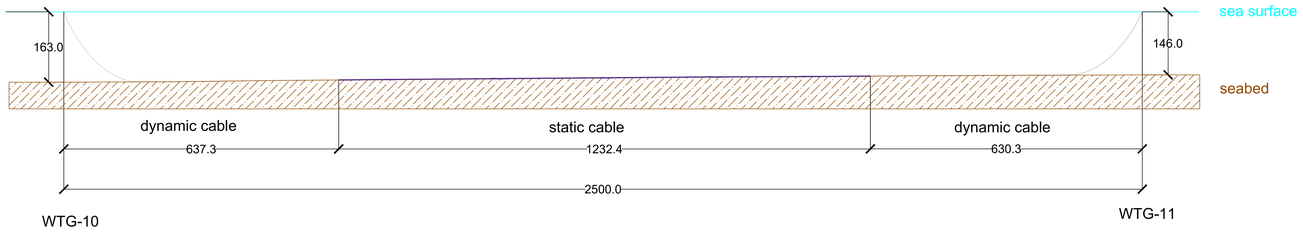
Rete in PVC
Nastro in PVC

Materiale inerte o altro materiale idoneo

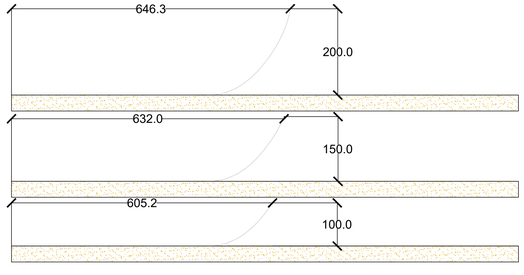




ESEMPIO SEZIONE CAVO 66 kV WTG 10 - WTG 11



ANDAMENTO CAVI DINAMICI 66 kV IN BASE A PROFONDITA' FONDALE



Unione Europea — Repubblica Italiana — Regione Autonoma della Sardegna

VERGELLI VINCENZO
Ordine degli Ingegneri della Provincia di Roma
Ingegnere
07.05.2022 23:13:37 GMT+01:00

Titolo del progetto:

Progetto di una centrale eolica offshore (potenza 292,8 MW) sito nel Sud Sardegna, antistante l'isolotto Del Toro e denominato "Del Toro 1"

PROGETTO PRELIMINARE

Livello di progettazione: Progettazione preliminare

Gruppo progettazione:
SEAWIND ITALIA S.R.L. — Portoscuso (SU) Z.I., Portovesme SNC CAP 09010 — Seawind Ocean Technology Holding B.V. Kabelweg 22 1014 BB Amsterdam The Netherlands
Dott. Ing. Sesto Avolio
Dott. Ing. Eugenio di Belgiojoso
Dott. Ing. Roberto Arese
Dott. Ing. Vincenzo Vergelli

Redazione Studio Preliminare Ambientale: Coordinamento:
ING. ANDREA RITOSSA S.R.L.
ISO 14001:2015 — ISO 9001:2015 — ISO 45001:2018
Dott. Ing. Andrea Ritossa
ORDINE INGEGNERI PROVINCIA CAGLIARI N. 4109 — Dott. Ing. ANDREA RITOSSA
Dott. Ing. Enrico Arangino

Consulenza specialistica:
ELIKA — Esperta ambientale e acquacultura (Dott. ssa Martina Bocci)
SarLand Srl ingegneria e architettura — Esperto in geologia marina (Dott. Geol. Antonello Gelluni)
Dott. Maurizio Medda — Esperto ambientale
Dott. Pier Augusto Pancaldi — Esperto in biologia marina
Dott. ssa Renata Arcaini — Esperta in archeologia

Codice Elaborato: 29

Tipologia elaborato: PP -P.Eol.Dettagli

Titolo elaborato: Schema d'interconnessione e sezioni di posa

Scala: - Formato : A0

Committente:
SEAWIND ITALIA S.R.L.
Portoscuso (SU) Z.I., Portovesme SNC CAP 09010
Seawind Ocean Technology Holding B.V.
Kabelweg 22 1014 BB Amsterdam The Netherlands
European Clean Hydrogen Alliance

RIF. ELABORATO:

REVISIONI	DATA	REDATTO	VERIFICATO	APPROVATO	OGGETTO
00	Maggio 2022	V.V.	Ing. Vincenzo Vergelli	Seawind Italia S.r.l.	Prima emissione - CONSEGNA
01					
02					

Amministratore e Direttore del progetto: Dott. Ing. Fabio Paravento
Vice Direttore tecnico: Dott. Ing. Sesto Avolio