

HAVINGSTEN FIBRE OPTIC TELECOMMUNICATION CABLE SYSTEM

NOTICE TO MARINERS (Ireland / Irish Sea)

Ref Foreshore Licence FS006915

August 2022

Alcatel Submarine Networks (ASN) was contracted to carry out construction activities for the Havhingsten cable system. The entire cable system comprises marine elements that pass from Denmark to the UK (NE region); from the UK (NW region) to the Republic of Ireland; with two segments installed into landfalls on the Isle of Man. The route in the Irish Sea (Segment 1.1) is shown in **Figure 1 and Table 1**.

The cable installation works in the area shown in Figure 1 were completed between 13-18 December 2021 using the vessel "Ile de Batz". The shore end burial works were completed on 25 January 2022.

This notice is issued to inform of as-laid shallow burial areas and short sections of surface laid/exposed cable in Irish territorial waters in the Irish Sea (Figure 2). Please refer to **Table 2** for full details. The cable is double armoured (38mm in diameter) with articulated pipe protection. The areas of shallow burial and surface laid cable are due to hard ground or rock where cable burial to the target depth was not possible. No further burial or protection works are planned for the Havhingsten cable at this time.

It is requested that all vessels operating in this area keep their distance and avoid any works near the cable position. The Admiralty Mariner's Handbook (NP100) advises: "In order to minimize the risk of such damage as much as possible, vessels should avoid any such activity at a minimum distance of 0.25 nautical mile, on either side of submarine cables."

Please refer to ESCA (European Subsea Cables Association) Position Statement (February 2022) for further information: <https://www.escaeu.org/download/?Id=403>

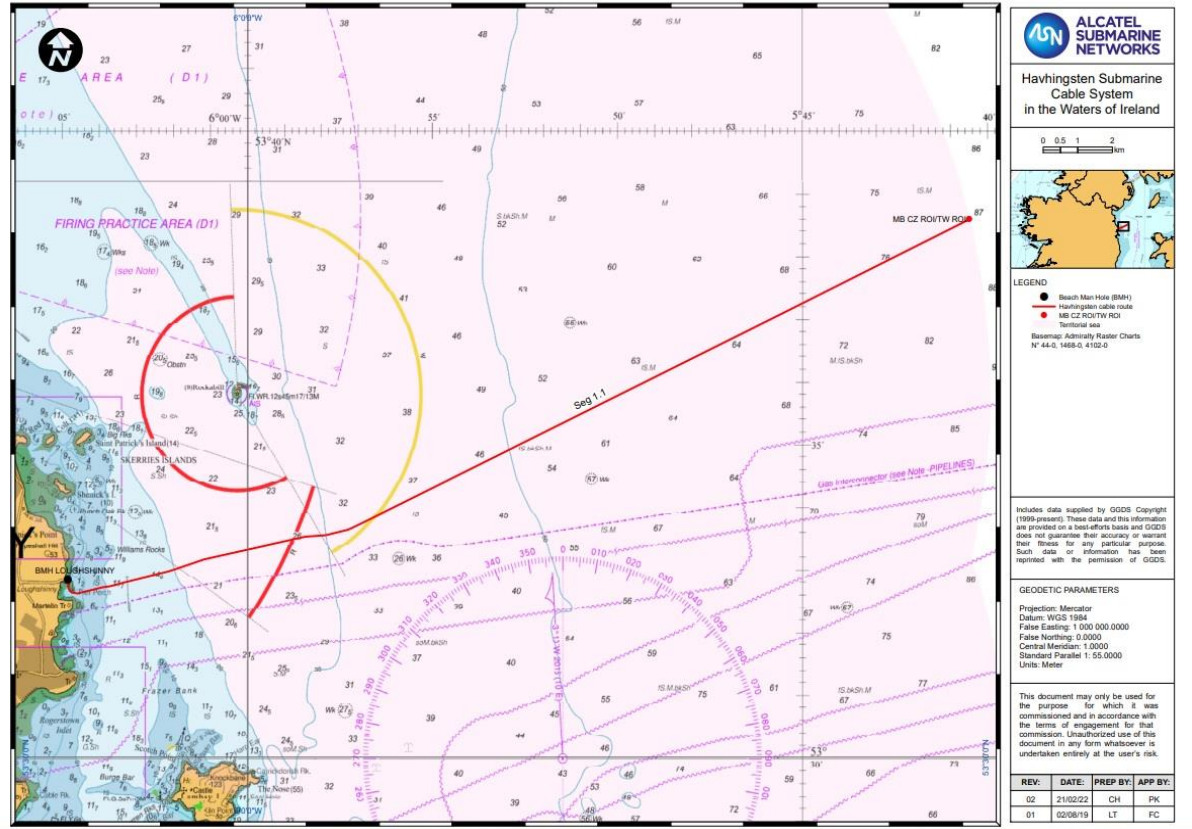


Figure 1 Havhingsten cable route in Irish territorial waters, Irish Sea

| HAVHINGSTEN Cable System - Segment 1.1 As laid route in Republic Of Ireland Territorial Water From Territorial water entrance to BMH Loughshinny | | | | | | | |
|--|------------------|-------------------|-----------|--------------------|-----------|-----------------|------------------|
| Point No | Comment | Latitude (WGS 84) | | Longitude (WGS 84) | | Water Depth (m) | Cum KP Dist (km) |
| 1 | MB CZ ROI/TW ROI | 53 | 38.5753 N | 005 | 40.4797 W | 87 | 0.000 |
| 2 | AC | 53 | 37.0726 N | 005 | 45.5610 W | 68 | 6.258 |
| 3 | AC | 53 | 33.8392 N | 005 | 56.5558 W | 34 | 19.794 |
| 4 | AC | 53 | 33.6581 N | 005 | 57.1963 W | 33 | 20.577 |
| 5 | AC | 53 | 33.6289 N | 005 | 57.3097 W | 33 | 20.713 |
| 6 | AC | 53 | 33.6091 N | 005 | 57.4411 W | 32 | 20.863 |
| 7 | AC | 53 | 33.5446 N | 005 | 57.9001 W | 31 | 21.384 |
| 8 | AC | 53 | 33.5215 N | 005 | 58.4498 W | 28 | 21.992 |
| 9 | AC | 53 | 33.1603 N | 006 | 01.1836 W | 23 | 25.085 |
| 10 | AC | 53 | 32.9854 N | 006 | 02.0390 W | 19 | 26.084 |
| 11 | AC | 53 | 32.9640 N | 006 | 02.1622 W | 18 | 26.226 |
| 12 | AC | 53 | 32.7893 N | 006 | 03.3741 W | 12 | 27.604 |
| 13 | AC | 53 | 32.7670 N | 006 | 03.4832 W | 11 | 27.731 |
| 14 | AC | 53 | 32.7284 N | 006 | 03.7409 W | 10 | 28.025 |
| 15 | AC | 53 | 32.7121 N | 006 | 03.9352 W | 8 | 28.241 |
| 16 | AC | 53 | 32.6145 N | 006 | 04.6143 W | 4 | 29.013 |
| 17 | AC | 53 | 32.6325 N | 006 | 04.7714 W | 3 | 29.190 |
| 18 | AC | 53 | 32.6584 N | 006 | 04.8261 W | 1 | 29.267 |
| 19 | AC | 53 | 32.6880 N | 006 | 04.8500 W | 0 | 29.328 |
| 20 | AC | 53 | 32.7082 N | 006 | 04.8613 W | -1 | 29.368 |
| 21 | AC | 53 | 32.7349 N | 006 | 04.8661 W | -1 | 29.417 |
| 22 | AC | 53 | 32.7453 N | 006 | 04.8626 W | -2 | 29.437 |
| 23 | BMH LOUGHSHINNY | 53 | 32.8410 N | 006 | 04.8760 W | -2 | 29.615 |

Table 1 Havhingsten cable as-laid route position list (RPL) in Irish territorial waters, Irish Sea



Figure 2 Shallow burial areas and surface laid cable sections (Irish Territorial waters)

| Area ID | Latitude (WGS 84) | Longitude (WGS 84) | Water Depth (m) | Burial Depth (m) | Total length of area (km) | Comment |
|---------|-------------------|--------------------|-----------------|------------------|---------------------------|---|
| 1 | N53 32.6286 | W006 04.7369 | 3 | 0.20 | 57m | Rocky area shallow burial inc. 31m surface laid cable |
| | N53 32.6308 | W006 04.7565 | 3 | 0.00 | | |
| | N53 32.6324 | W006 04.7707 | 3 | 0.00 | | |
| | N53 32.6372 | W006 04.7813 | 2 | 0.00 | | |
| | N53 32.6386 | W006 04.7841 | 2 | 0.20 | | |
| 2 | N53 32.6503 | W006 04.8089 | 2 | 0.20 | 37m | Subcropping rock area shallow burial |
| | N53 32.6584 | W006 04.8261 | 1 | 0.15 | | |
| | N53 32.6647 | W006 04.8312 | 1 | 0.20 | | |

Table 2 Shallow burial areas and surface laid cable sections (Irish Territorial Waters)

Note: Shallow burial is defined as a burial depth of less than 0.2m; all areas are located in less than 3m water depth.

Fisheries Liaison

Aqua Comms are the cable operator for the Havhingsten Subsea Cable System and will perform fisheries liaisons services as required. Contact details for the FLO are provided below.

| FLO Contact Details | Aqua Comms (Cable Operator) |
|---------------------|--------------------------------|
| Name: | Havhingsten NOC |
| Role: | Fisheries Liaison Contact |
| Company: | Aqua Comms |
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| Email: | noc@havhingstencablesystem.com |