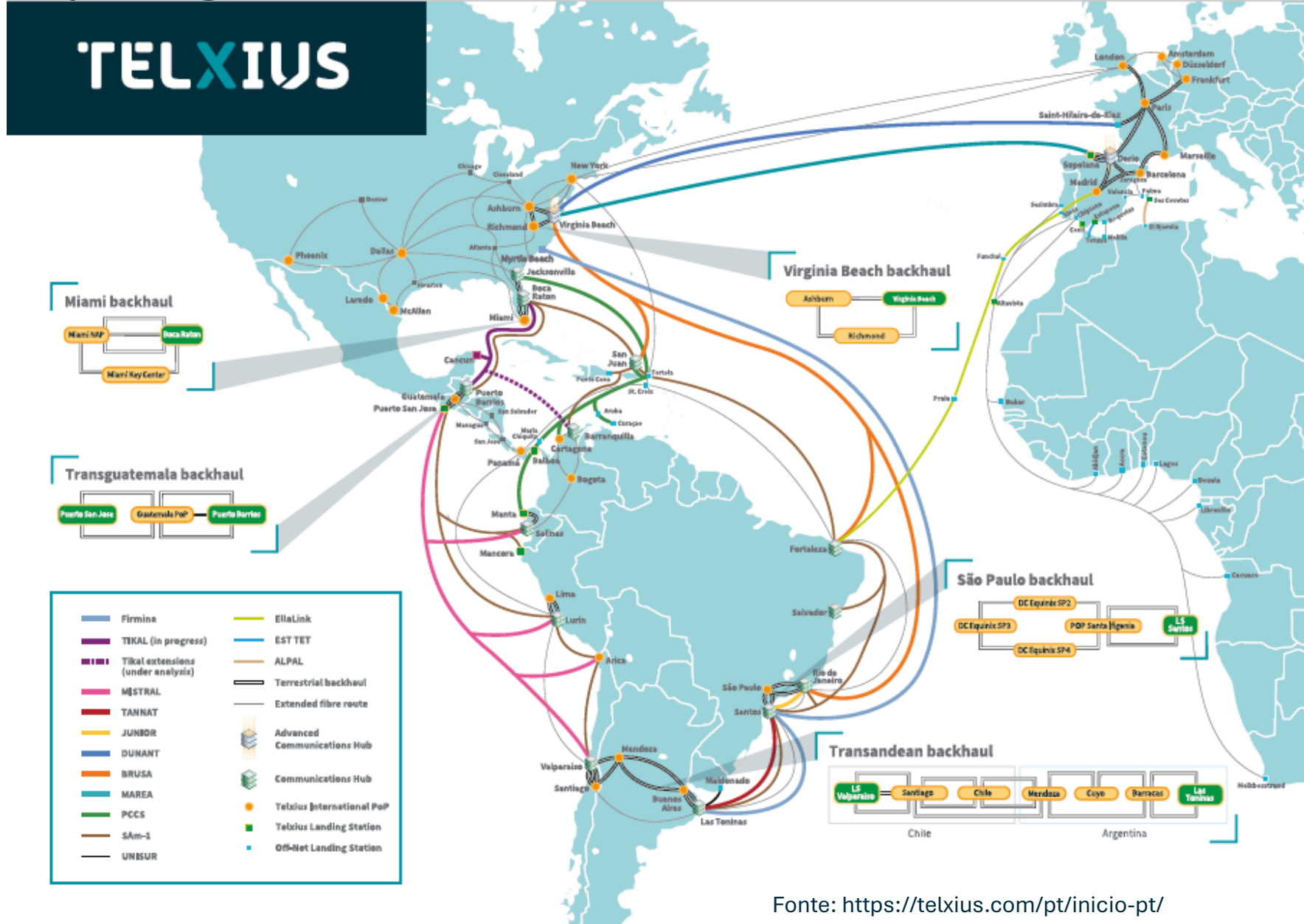


Sistemas de Cabos Submarinos

Construção, desafios, manutenção e curiosidades

28 de agosto de 2024

Topologia da rede de cabos submarinos

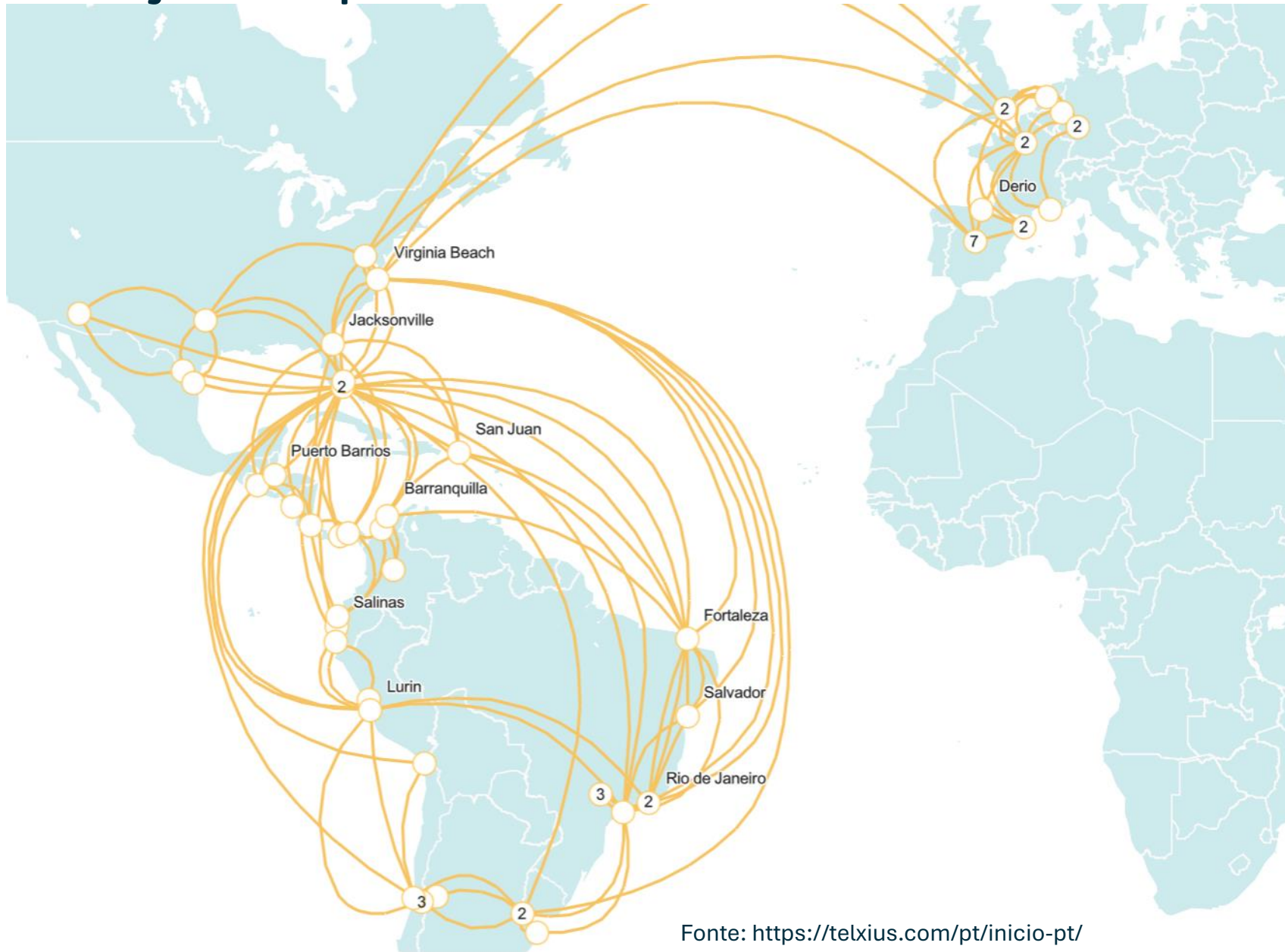


Presença Global

- Backbone Tier-1
- AS 12956
- +100.000 km
- ~ 100 POP's
- 17 Países

Fonte: <https://telxius.com/pt/inicio-pt/>

Serviços disponíveis: Trânsito IP



Our Network IP SERVICES



Internet Transit

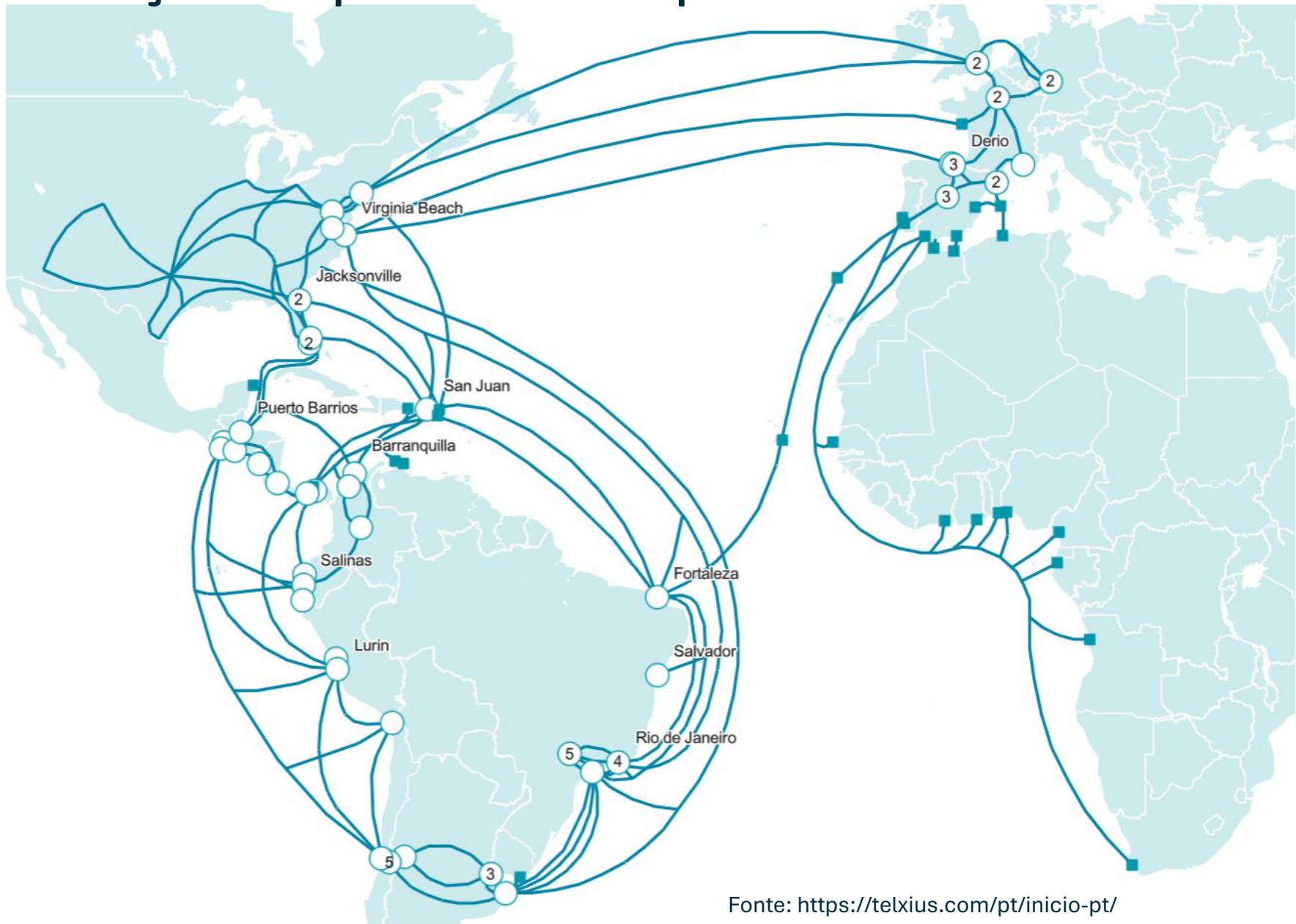
Virtual NAP

DNS


RPKI

Fonte: <https://telxius.com/pt/inicio-pt/>

Serviços disponíveis: Capacidade IP



CAPACITY



A red circular icon containing a network diagram with several nodes and connecting lines.

Global Carrier Ethernet

Private Line

Wavelength

Connect to Cloud

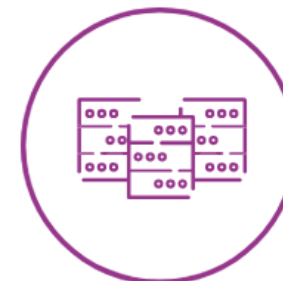
Fonte: <https://telxius.com/pt/inicio-pt/>

Serviços disponíveis: Colocation e Segurança (DDoS)



Fonte: <https://telxius.com/pt/inicio-pt/>

COLOCATION



Colocation

SECURITY

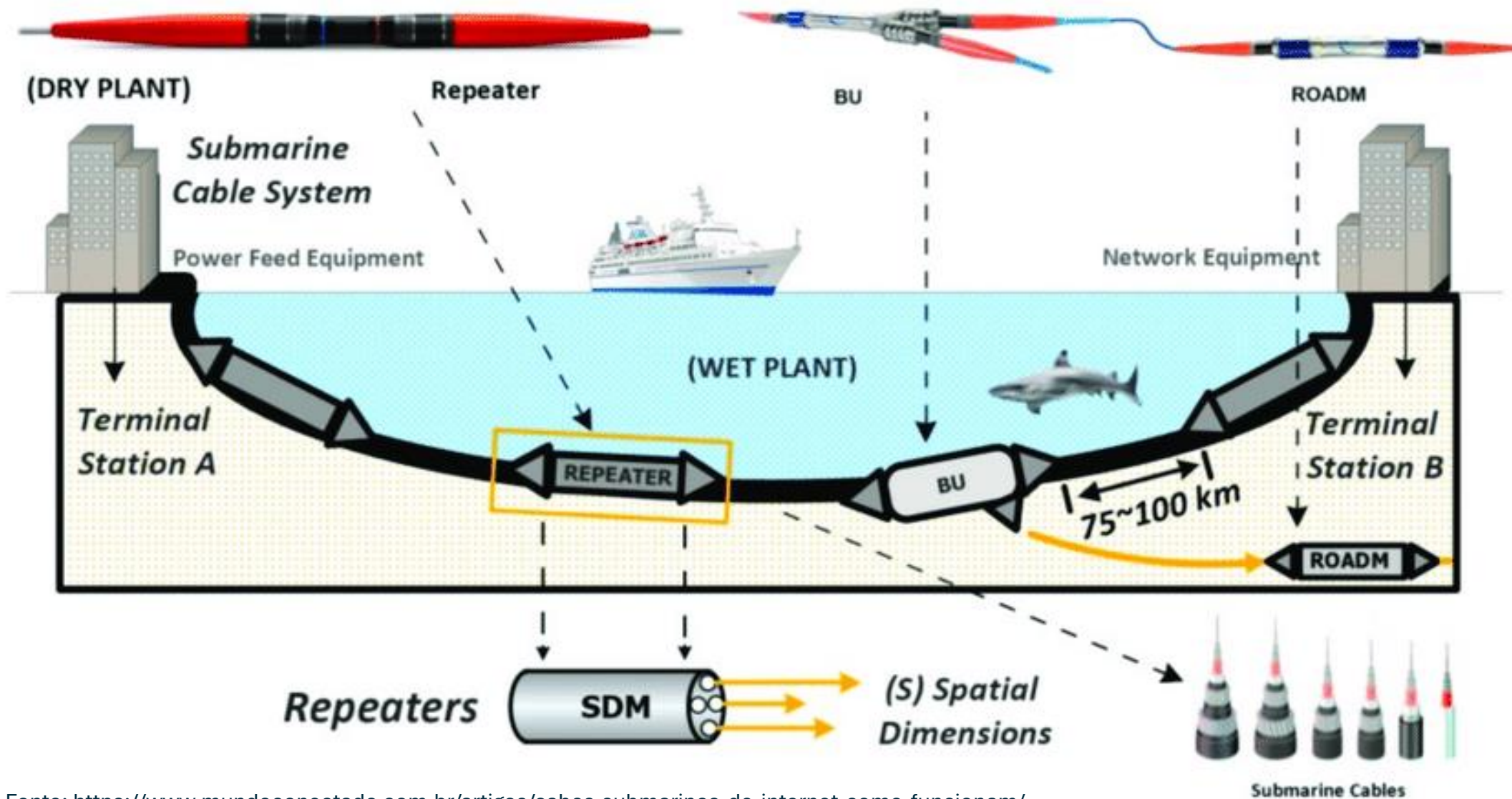


DDoS Shield



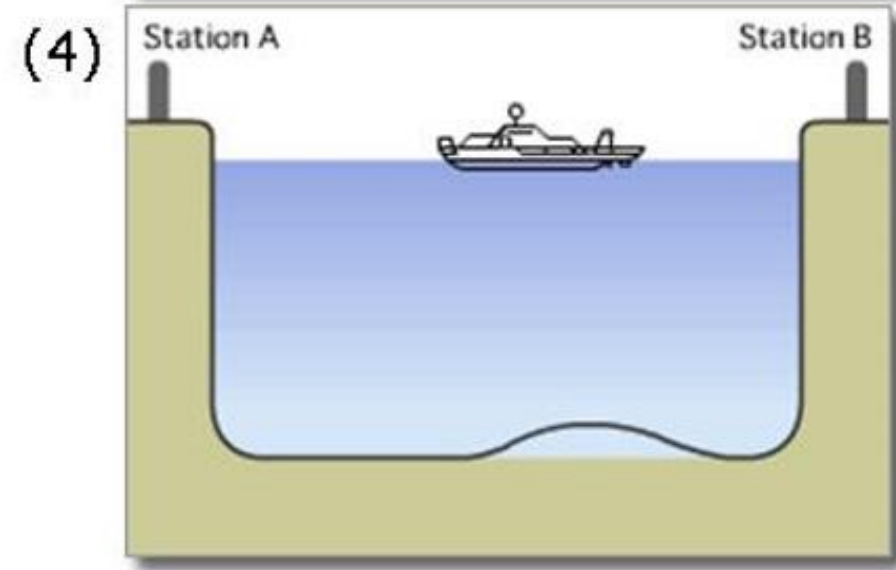
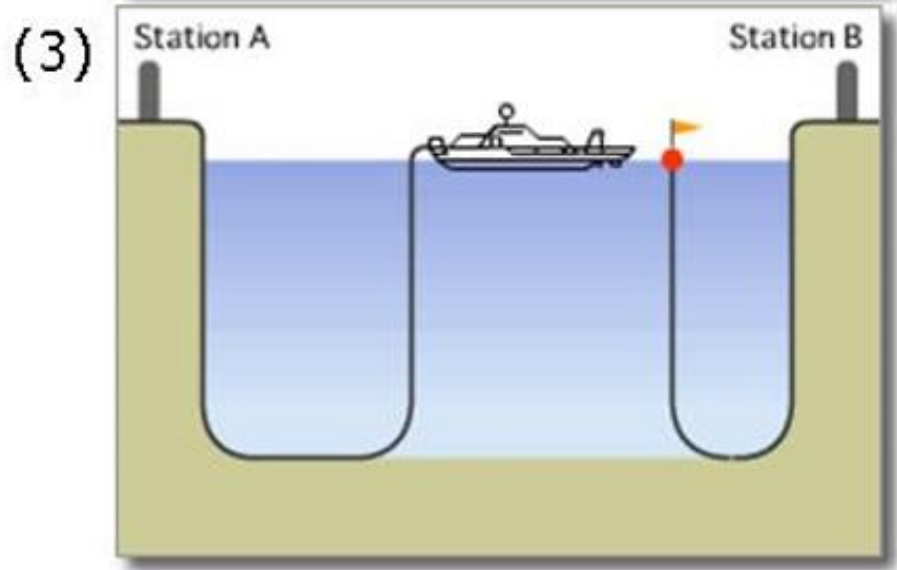
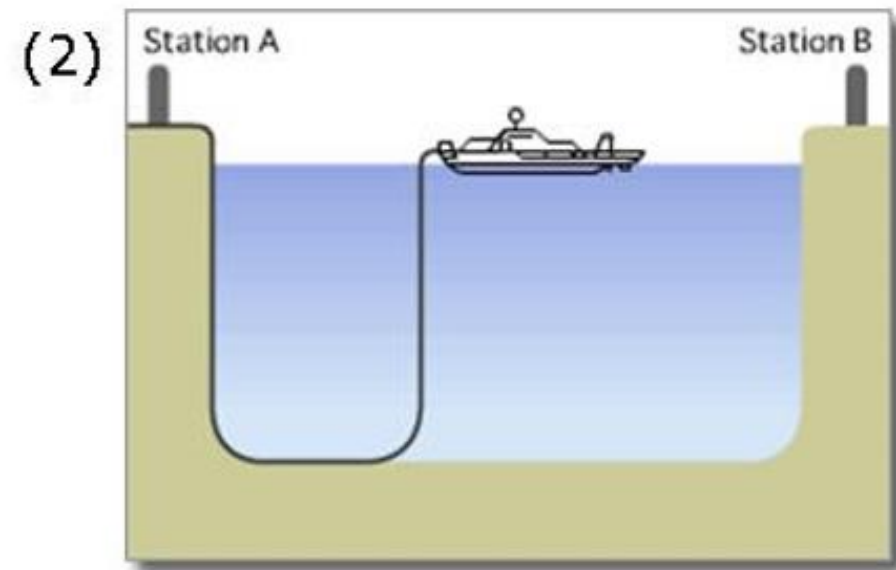
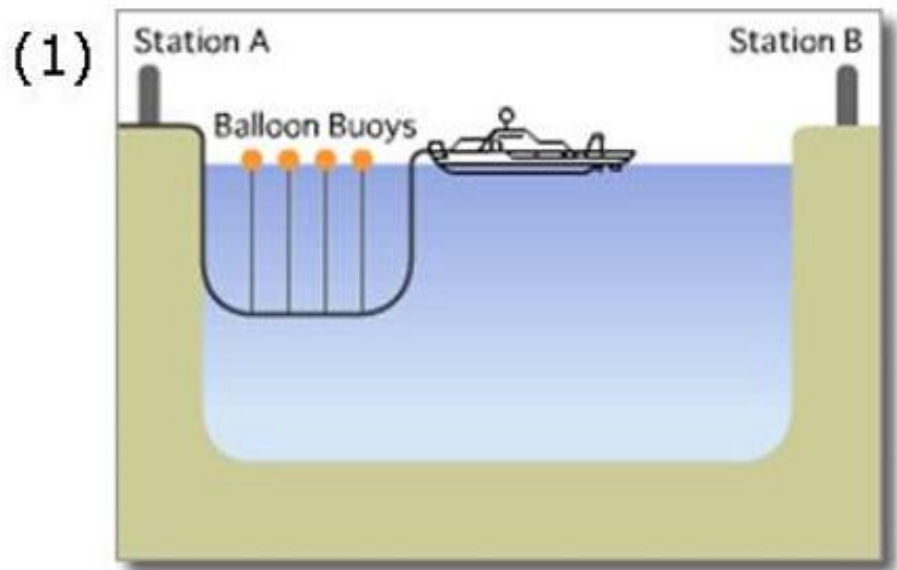
Sistema de cables submarinos

Sistema de cabos submarinos

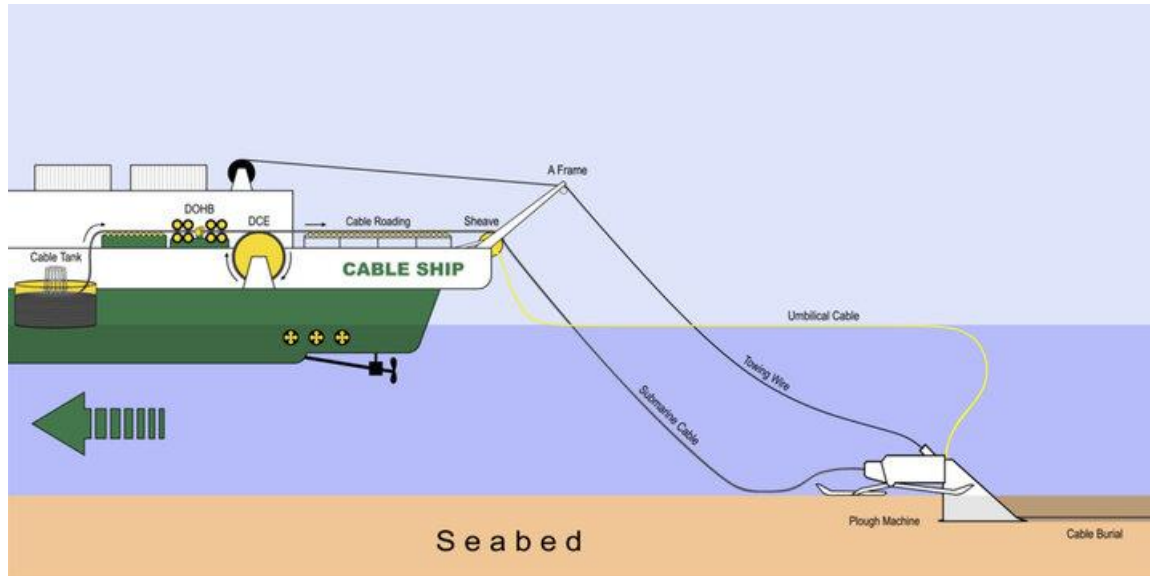


Fonte: <https://www.mundoconectado.com.br/artigos/cabos-submarinos-de-internet-como-funcionam/>

Instalação e proteção de cabos submarinos



Instalação e proteção de cabos submarinos



Fonte: <https://stock.adobe.com/search/images?k=%22submarine+cable%22>



Fonte: <https://eta-ltd.com/plough/>

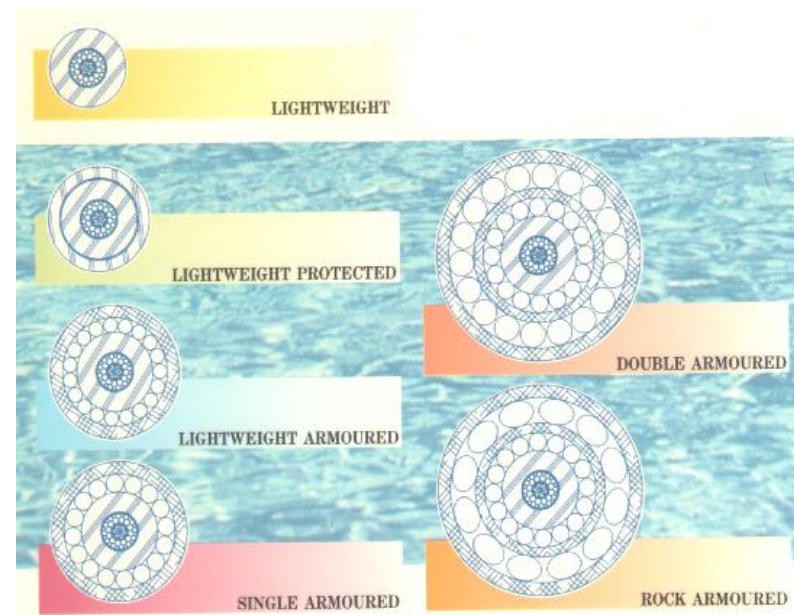
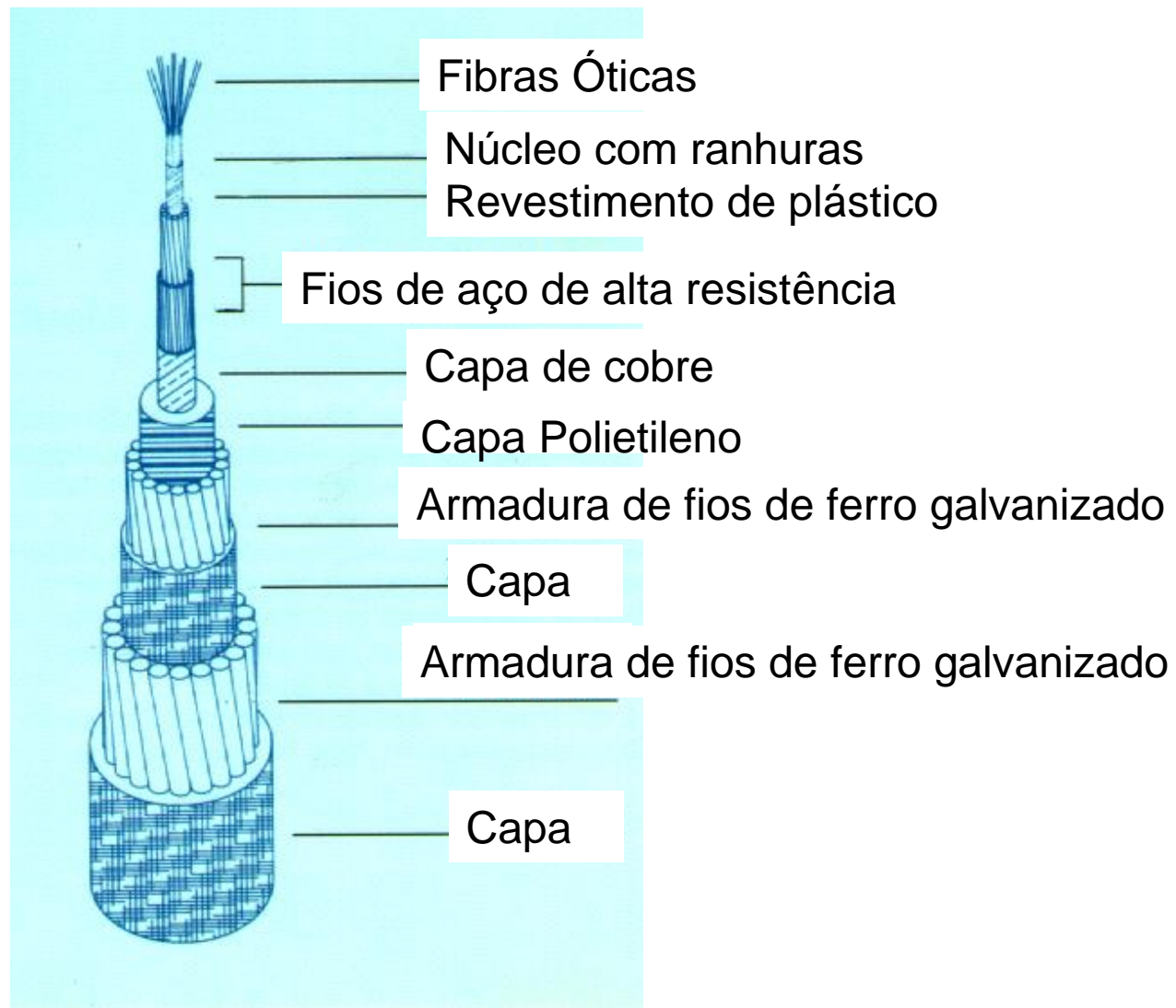


Fonte: Telxius Cable



Fonte: <https://www.escaeu.org/articles/submarine-telecommunications-cables/>

Tipos de cabo submarinos





SERIES PFE - HV

- 6, 9, 12, 15, 18kV Versions Available

Fonte: <https://www.spellmanhv.com/en/high-voltage-power-supplies/PFE-HV>



Fonte: <https://www.mdpi.com/2077-1312/9/9/935>

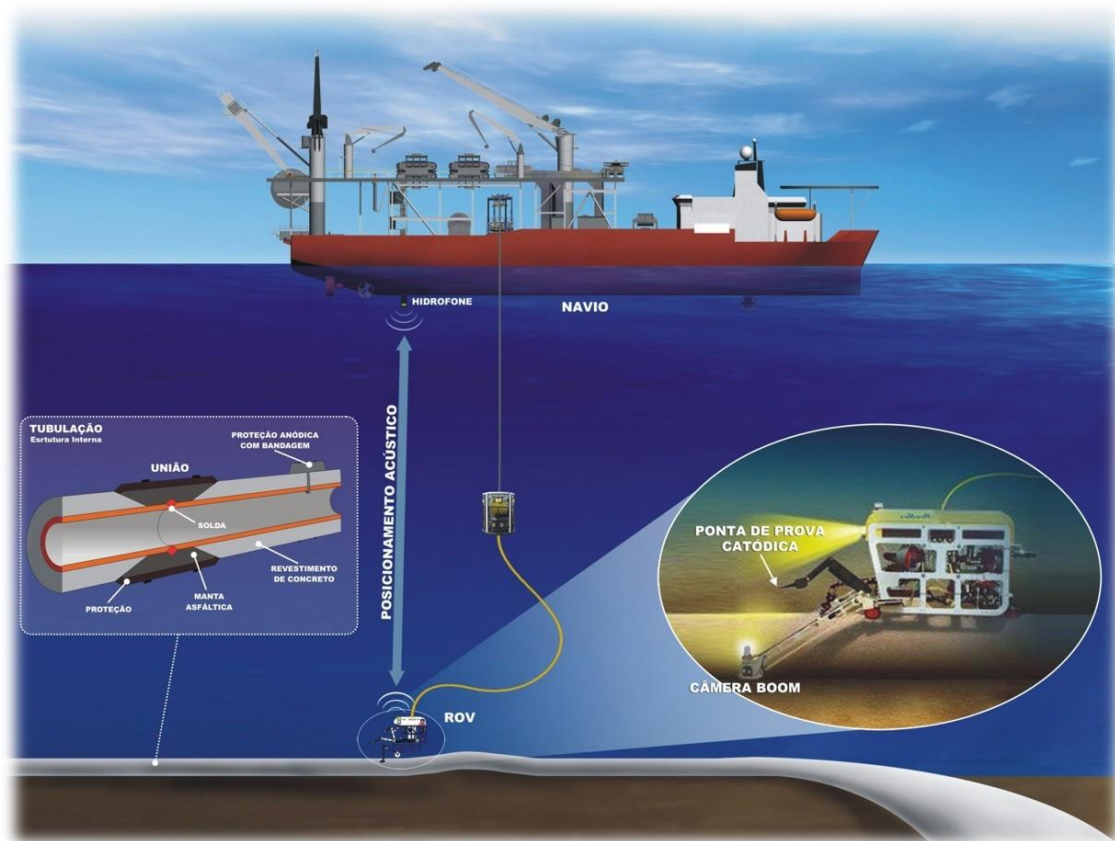


Fonte: https://www.researchgate.net/figure/CARCIP-branching-unit-details_fig8_332862077

A hand in a blue shirt points towards a red curved line on a light blue background. The red line starts from the left, dips down, and then curves upwards towards the right. A teal rectangular box is overlaid on the right side of the image, containing the title text.

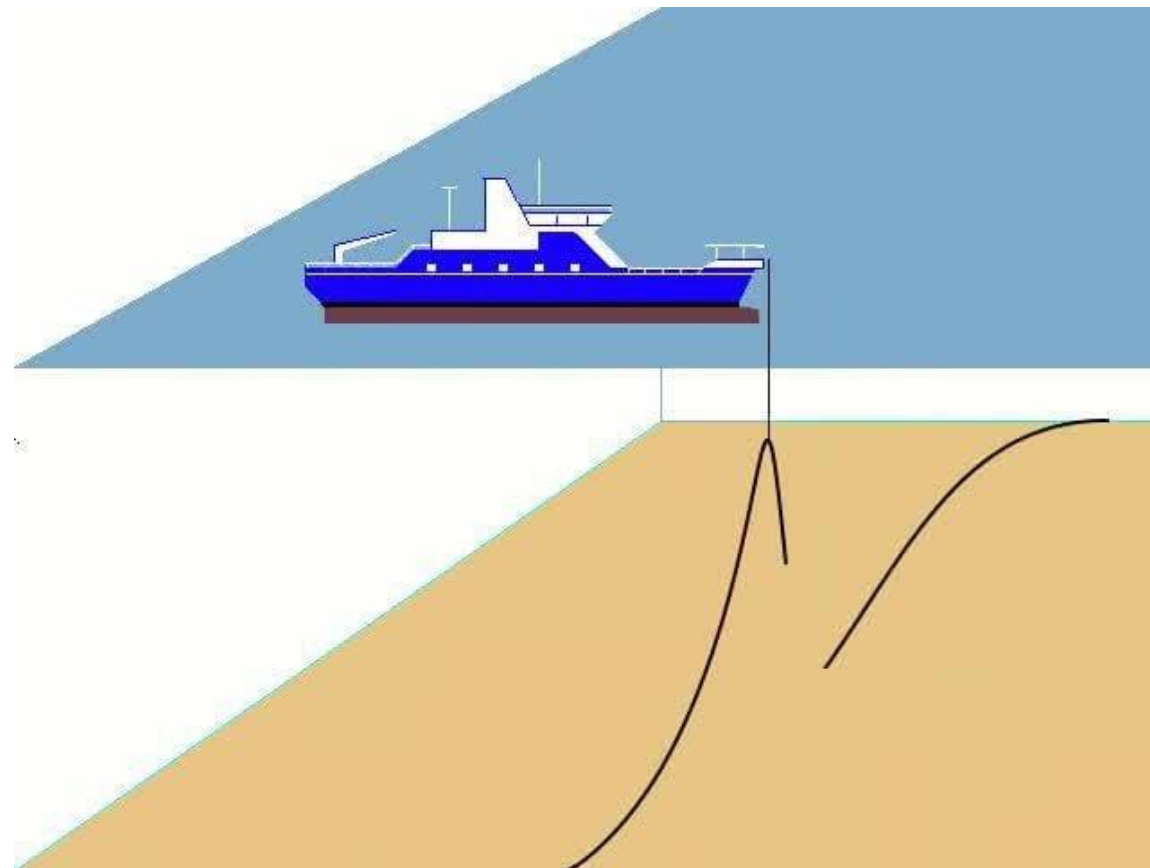
Desafíos: Reparo do cabo

Inspeção com ROV

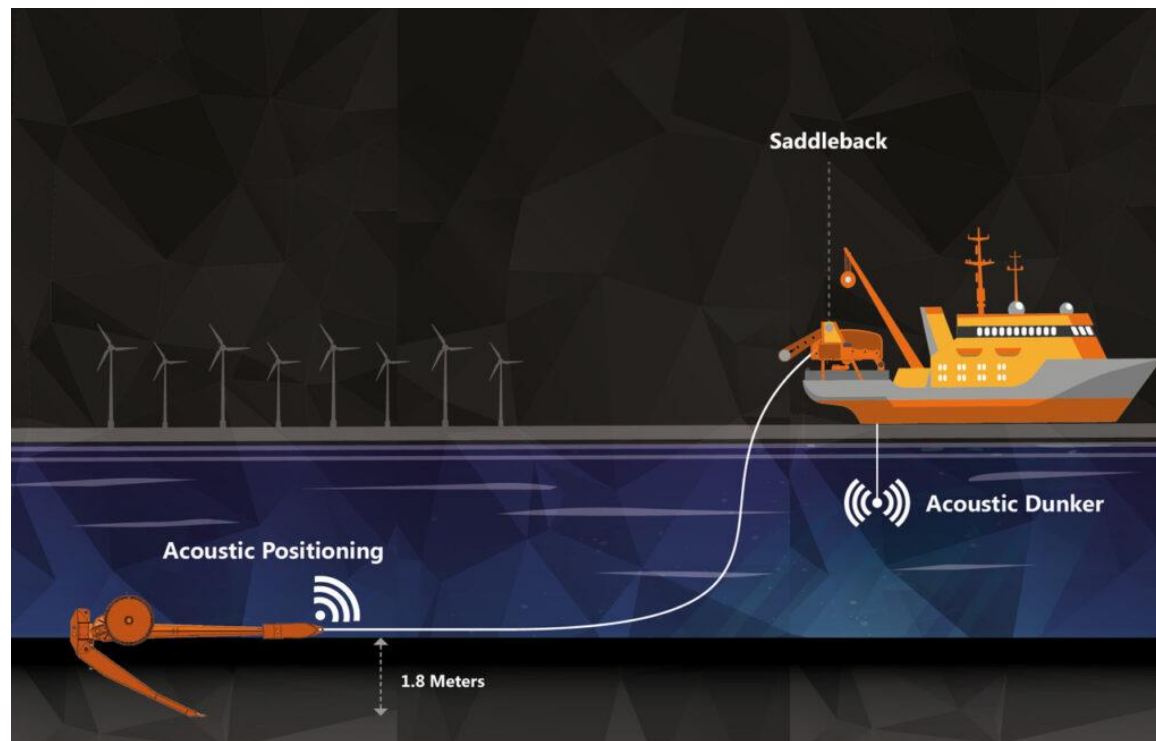


Fonte: <https://www.linkedin.com/pulse/o-uso-do-rov-em-atividades-de-inspe%C3%A7%C3%A3o-submarina-adan-alves/>

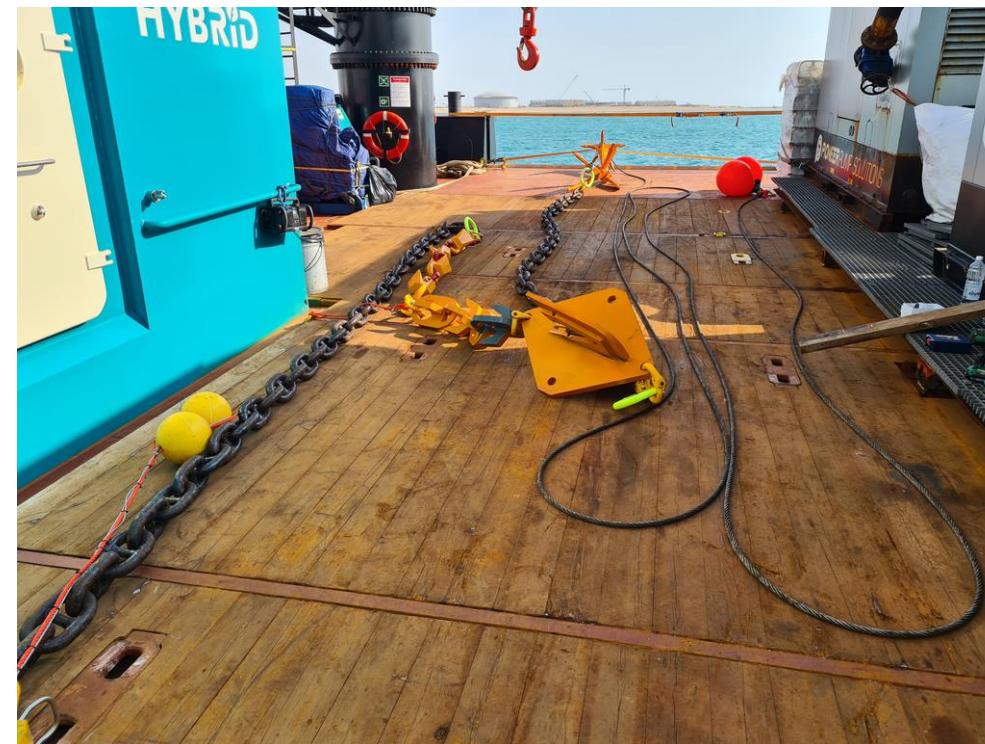
Recuperação do cabo



Fonte: https://canaltech.com.br/produtos/como-funcionam-os-cabos-submarinos-206018/#google_vignette

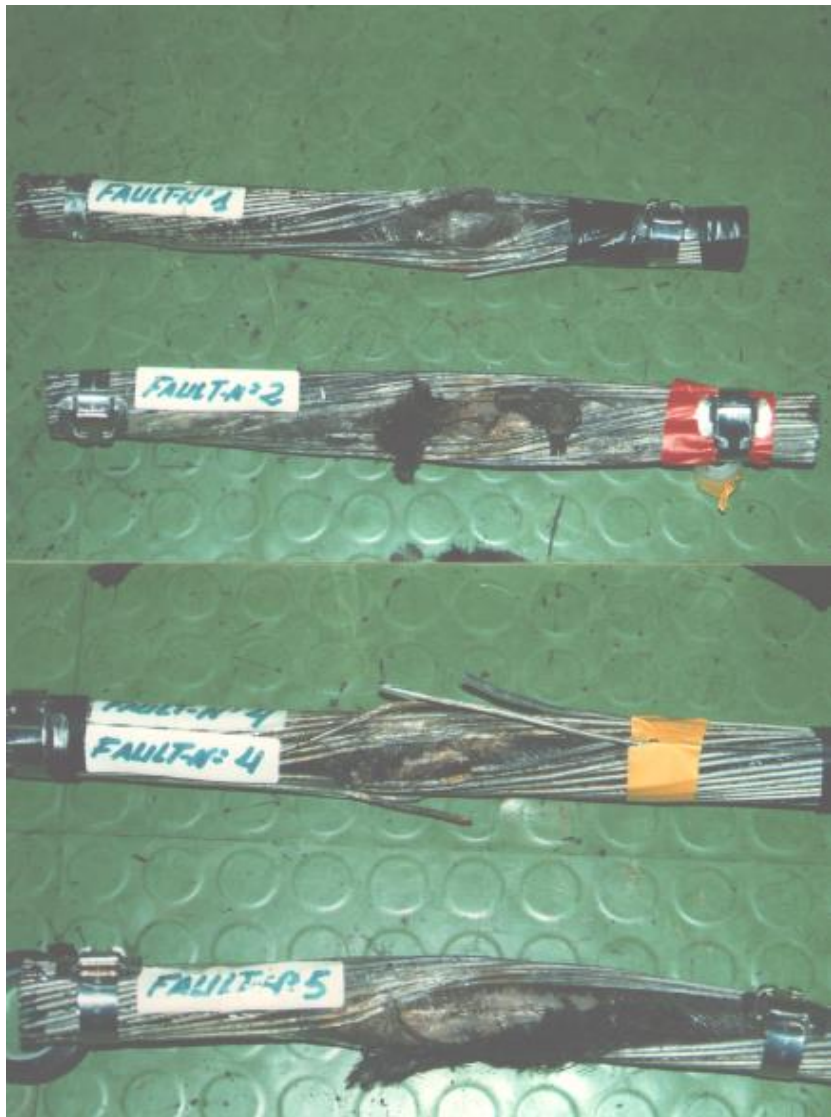


Fonte: <https://www.offshore-energy.biz/french-subsea-cable-repair-vessels-to-sport-dlm-de-trenching-grapnels/>



Fonte: <https://www.eceoffshore.com/cable-installation/>

Tipo de falhas em cabos submarinos (cortes/shunt)



Preparação das emendas e lançamento do novo cabo



Amarração e emenda final do cabo (Shore-End)



A hand in a blue shirt pointing at a red line that curves upwards on a blue background. The hand is in the foreground, and the background is a blurred blue wall.

Informações Adicionais

Vídeos e animações sobre cabos submarinos

Animação sobre instalação e reparo de cabo submarino

https://www.youtube.com/watch?v=JHhv5Fj9CNY&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=15

Animação Shore End 3D

https://www.youtube.com/watch?v=SXRG5rpYUP4&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=22

Animação de reparo de cabo submarino

https://www.youtube.com/watch?v=ZJblHOGXKo4&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=21

Filme 7 Embarcação de cabos: - Explicando a velocidade do navio ao instalar cabos submarinos

https://www.youtube.com/watch?v=yi-C_rORXMg&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=19

Filme 8 Embarcação de cabos - Em caso de rompimento do cabo (sistema Havfrue Cable)

https://www.youtube.com/watch?v=kWO3AZ5TVso&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=20

MAREA e BRUSA a maior capacidade submarina para comunicações mundiais

https://www.youtube.com/watch?v=hJWam18NoAM&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=7

BRUSA em 1 minuto

https://www.youtube.com/watch?v=_8E3pTayofl&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=6

BRUSA: um cabo submarino para o futuro das comunicações

https://www.youtube.com/watch?v=ULTWJGDPxyE&list=PL3lqGUgK8gX2eDYjae3n9Mfa8dPDkaDq_&index=9



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Telxius Cable Brasil



<https://telxius.com/pt/inicio-pt/>



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