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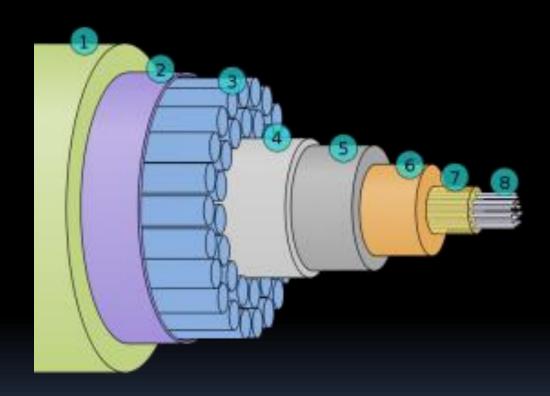


WHAT IS AN UNDERSEA FIBER OPTIC CABLES..?

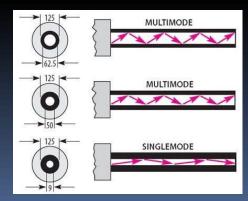


Carry telecommunication signals across stretches of ocean

Cross section of undersea fiber optic cable



- 1.Polyethylene
- 2."Mylar" tape
- 3.Stranded metal (steel) wires
- 4. Aluminum water barrier
- 5.Polycarbonate
- 6.Copper or aluminum tube
- 7.Petroleum jelly
- 8. Optical fibers

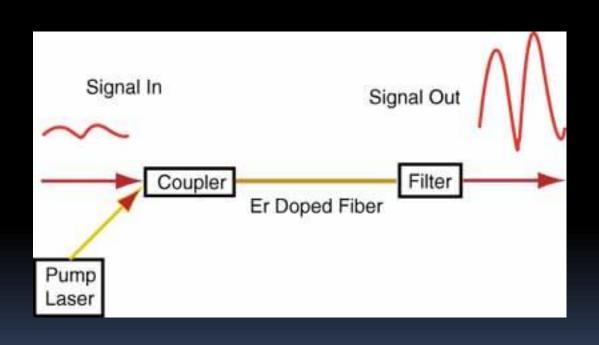


UNDERSEM FIBER OPTIC CMBLE





OPTICAL AMPLIFIER

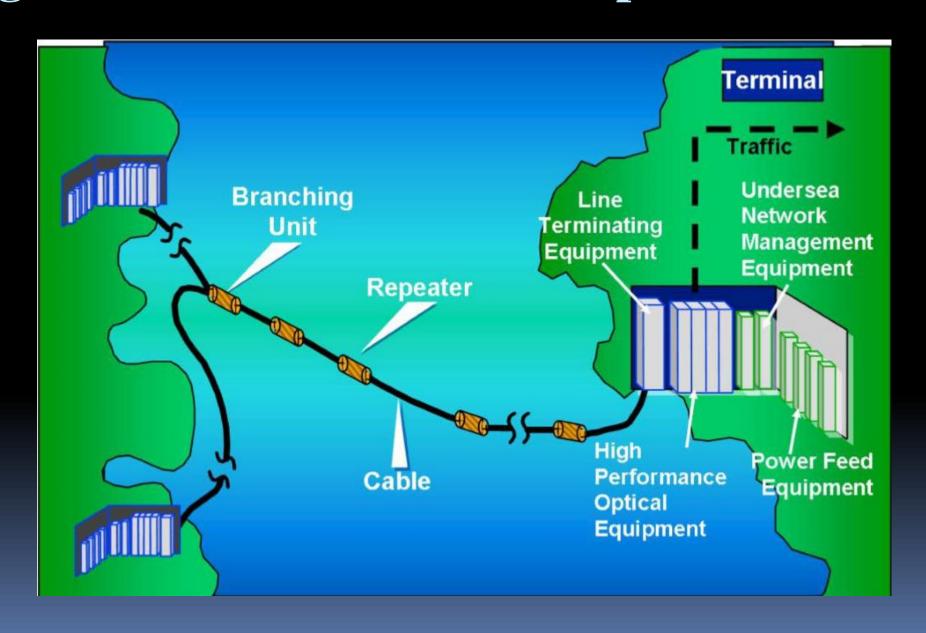


- Optical amplifiers increase the intensity of a signal
- There are different types, for different spectrums of light.
- The most common is the Erbium Doped Fiber Amplifier.

UNDERSEM CMBLE MMP



Configurations of undersea fiber optic cables

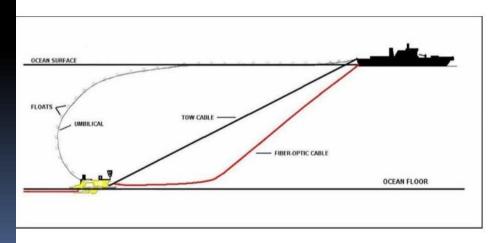


Installation of Undersea Fiber Optic Cable







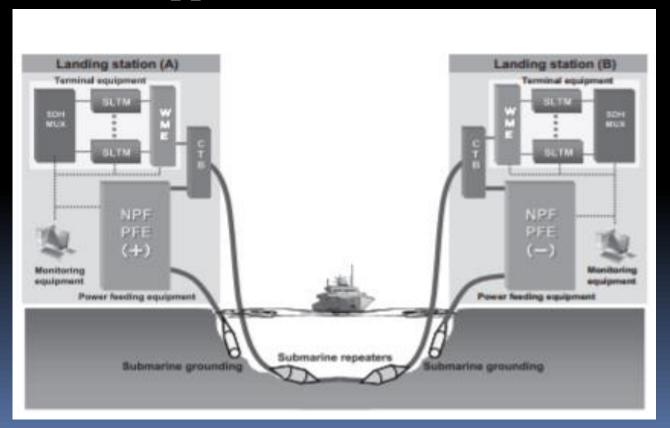


 Cable burial remains the most effective and economical method of protection

 Towed cable plows remain the industry standard for cable burial (1 to 3m typical)

POWERING UNDERSEM FIBER OPTICS

➤ A submarine cable system is fed power from power feeding equipment that supplies constant current.

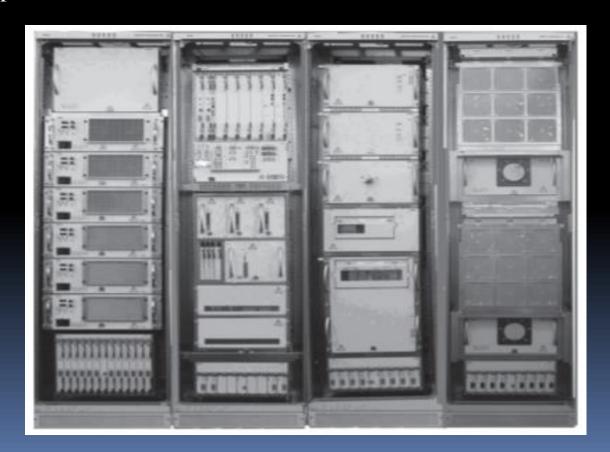


➤ Outline of Power Feeding Equipment

- •Power Feeding Equipment Configuration
- •Reliability

➤ Power Feeding Equipment Specifications

- •Reduced Size and Higher Output Power
- •Remote Monitoring/Control



ISSUES

- ► Environmental Impact
- Fault in Submarine cables

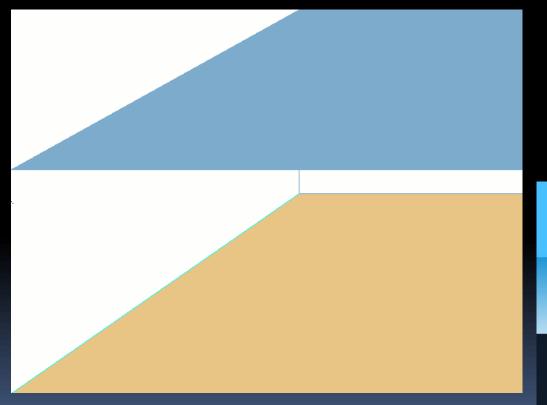


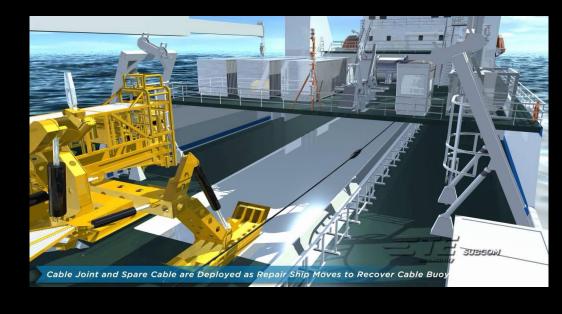


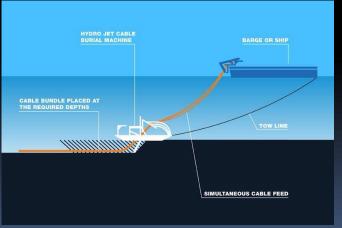




CABLE REPAIR









CONCLUSION..

This concludes our study of Fiber optic cables. We have looked at how they are made and how they are work. We have examined the properties of fibers, and how fibers are joined together. Although this presentation does not cover all aspects of optical fiber work it will have equipped you knowledge and skills essential to the fiber optic industry.

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