



# Underwater Cable

## A Variety of Marine Grade Applications.

At NWI we build a wide range of custom underwater cables that meet or exceed US Coast Guard and American Bureau of Shipping regulations. Whether the application is for freshwater or saltwater, chlorine, chemicals, solvents or all of the above, NWI has your cable solution.

Since 1972, Northwire has been designing and building custom cable solutions for the most demanding underwater applications.



### Reliable Performance

NWI uses unique compounds formulated to withstand the effects of long-term immersion in aqueous fluids. In addition to these insulation and jacket extrusions, NWI leverages an assortment of fillers, tapes and other compounds that protect the cables from water penetration. In the event that the cable is cut or impaled, these materials will absorb and swell, resulting in blockage at the point of entry.



### Custom Designs for Power, Video, Control and Data Communication Needs

Underwater cable uses include lighting, camera, video and monitoring systems, sonar, control, sensors, well, sewer and geophysical applications.



### Consider Your Requirements

Cables in submerged environments require unique consideration:

- Materials must be compatible with a wide range of fluid environments
- Fluid blocking components may be desirable to block migration of fluid (should the outer jacket become compromised)
- Strength members may be desirable to isolate stress from electrical components
- Buoyancy (neutral, positive and negative)
- Temperature of liquid environment
- Special markings on cable (for depth for example)

In addition to the above, all the usual discussion items relating to custom cable apply. Included in these are conductor strandings and platings, insulating options, electrical performance requirements, colors, conductor marking options, shielding necessities and jacketing options, to name a few.

### STANDARDS, AGENCY AND ENVIRONMENTAL COMPLIANCE:

