

BHC6 | Hydrophone String

The hydrophone string BHC6 is used to receive P-waves in water filled boreholes. The BHC6 consists of a downhole cable containing a Kevlar tension string and a number of moulded hydrophones at pre-defined intervals. Each hydrophone consists of a sensor with a pre-amplification board. The electronic boards are powered from the surface by a bank of AA battery cells. The BHC6 amplifier boards are equipped with an internal test function to allow a quality check at any time. The test function outputs a synthetic signal on each channel where the amplification factors can be evaluated. The string is terminated by a connector to the seismograph.

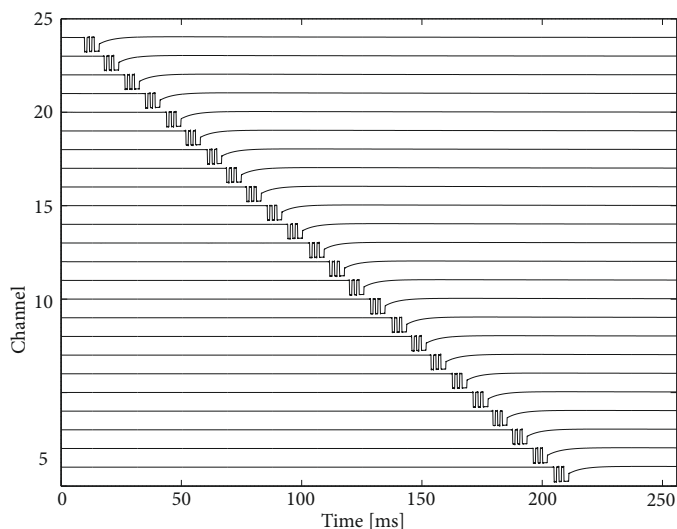


Hydrophone string BHC6 with cable drum, hydrophones moulded on cable and battery box for pre-amplification and accessories, such as a cable spooler device and work bench

Technical Details

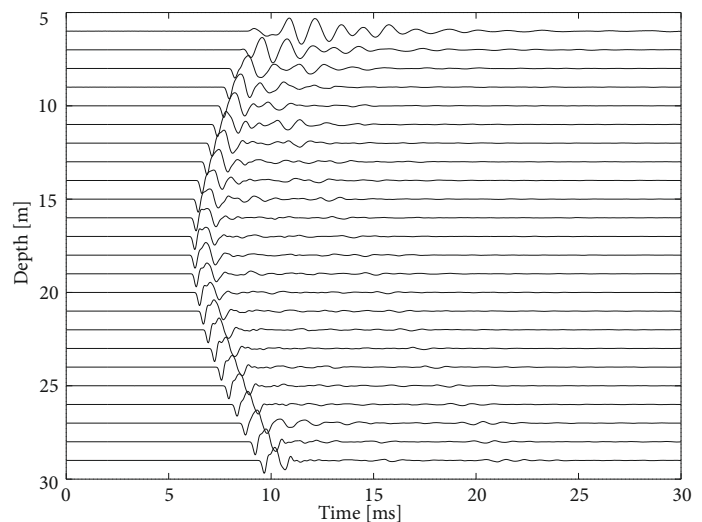
Hydrophone sensor: SQ54 or AQ2000
Frequency response: Flat from 1 to 10.000 Hz
Pre-Amplification: 4 or 10 x
Test function: Internal test with synthetic signal
Power supply: AA cells
 (battery box on surface)
Operational depth: Up to 500 m
Number of hydrophones: 24
 (others on request)
Hydrophone interval: 1 m (others on request)
Hydrophone diameter: 40 mm
Cable weight in air per metre: 200 g
Cable strength: 4700 N
Borehole diameter: Min. 50 mm
Depth indicator: Cable marking every 2 m
Connector: To any seismograph
Storage: On drum

Quality Check



⁰ The signal output of the test function shows a synthetic testing signal generated by each amplification board.

Data Example



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