

tomography



crosshole



downhole



surface seismic



geotomographie

manufacturer of seismic borehole equipment



BHC5 | Hydrophone String

The hydrophone string BHC5 is used to receive P-waves in water filled boreholes. The BHC5 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 BHC5 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 BHC5 with cable drum, hydrophones moulded on cable and battery box for pre-amplification. Accessories, such as a cable spooler device for cable on drums and a clamping device supports a proper positioning and clamping the cable during operation.

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

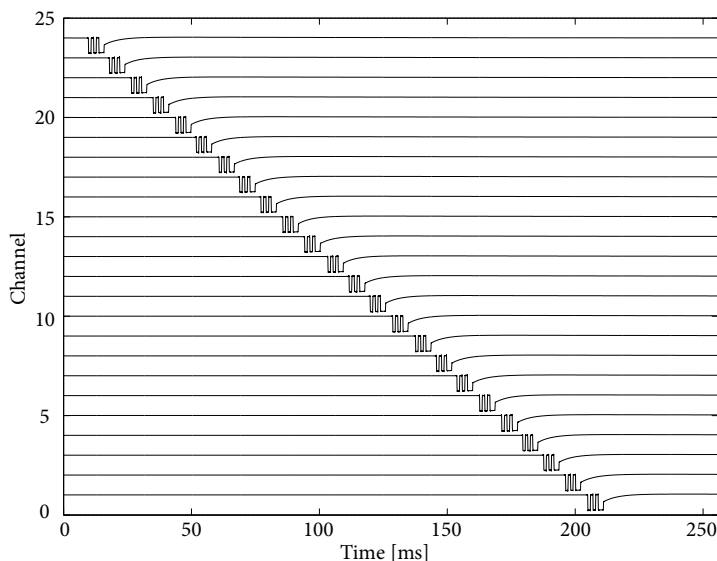
Borehole diameter: Min. 50 mm

Depth indicator: Cable marking every 2 m

Connector: To any seismograph

Storage: On drum

Quality Check



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

Data Example

