tomography | crosshole | downhole | surface seismic

geotomographie
manufacturer of seismic borehole equipment

BHC4 | Hydrophone String

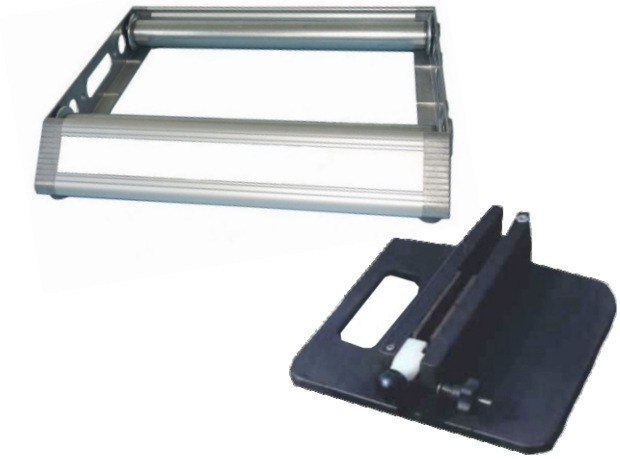
The hydrophone string BHC4 is used to receive P-waves in water filled boreholes. The BHC4 consists of a downhole cable containing a Kevlar tension string and a number of moulded hydrophones at pre-defined intervals. Each hydrophone consists of a sensor with a pre-amplification board. The electronic boards are powered from the surface by a bank of rechargeable AA cells. The cable is terminated by a connector to the seismograph.

Hydrophone string BHC4 with cable drum, hydrophones moulded on cable and battery box for pre-amplification.

Technical Details

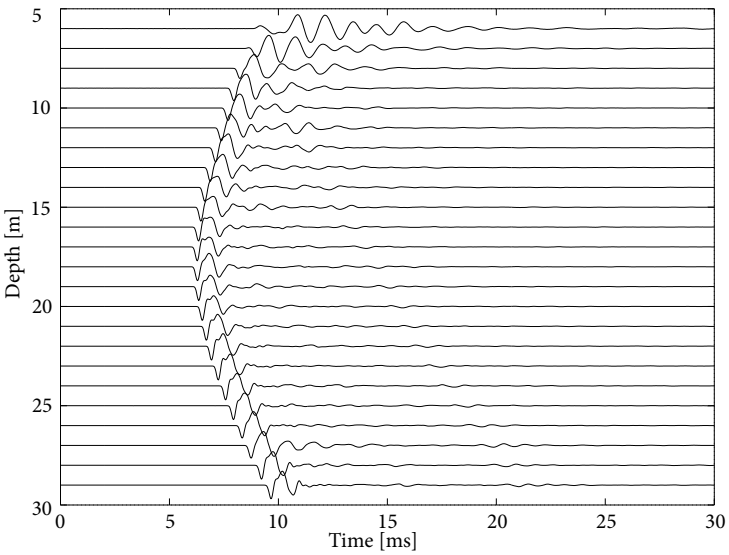
Hydrophone sensor: SQ54 or AQ2000
Frequency response: Flat from 1 to 10.000 Hz
Pre-Amplification: 4 or 10 x
Power supply: AA cells
(battery box on surface)
Operational depth: Up to 500 m
Number of hydrophones: 24
(others on request)
Hydrophone interval: 1 m (others on request)
Hydrophone diameter: 38 mm
Cable weight 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

Accessories



Cable spooler device for cable on drums and clamping device for proper positioning and clamping the cable during operation.

Data Example



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