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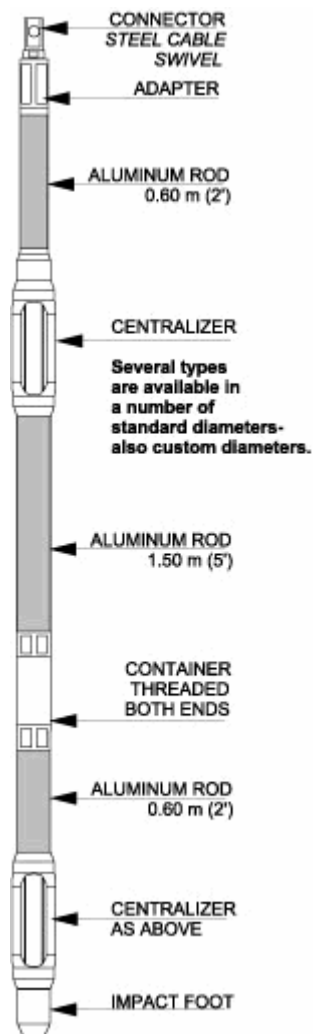
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Tropari - Cable Lowering in Open Hole Survey Trains



(Not to scale)

General

Cable lowering is restricted to holes with inclinations steeper than 45 degrees. Since the magnetic effects of the steel cable swivel and the cable itself are smaller than the drilling rods, the Tropari instrument only needs to be separated from the steel elements by several metres of non-magnetic elements. Additional elements below the container (instrument is inside) are for connections and weight for faster lowering in water filled holes. Other arrangements of the train elements are possible to reduce weight for example if hand manipulated rope lowering is used in short holes.

Notes: Cable lowering techniques are used where the drill is no longer on the site of as a fast surveying method in conventional drilling is desired. In the latter case, some attention should be paid to the integrity of the rocks penetrated by the bore-hole. Rock fragments may wedge the survey train at a depth making the retrieval difficult. If a wedged situation occurs, do not break the cable by using excessive pulling force. Once the cable is broken, the best retrieval techniques can no longer be used. Contact Pajari Instruments Ltd. for details.