



# HGS (INDIA) LIMITED



## HGS HL-3C Land Case



For dry surfaces where the case can be fully embedded in the ground, the HL-3C case is preferable. The top cable entry ensures that the cable lies flush in the ground. It is economical, reliable and field proven.

- Available with different coloured top plates for easy geophone identification.
- UV stabilized single entry and dual entry gasket options.
- Cable pull strength approaches cable break strength.
- Waterproof land case with IP67 rating.
- Easy access for checking / recalling / basic unit exchange or cable maintenance.
- Different steel / brass spikes and tripods available.
- Metal parts corrosion resistant.
- Impact modified polymers used for moulding.
- Operating Temperature Range: -20°C to +70°C



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<b>SPECIFICATIONS of HL-3C Land Case</b>	
Geophone types	HG-24, HG-4, HG-7 upright types
Cable OD	0.457 or 0.533 mm, (0.180 or 0.210 in)
Length	40 mm (1.57 in)
Width	35 mm (1.38 in)
Height	50 mm (1.97 in)
Weight	130 g apprx
HL-3C land Case Top plate Options	Yellow/ Blue/ Red
<b>Accessories</b>	
<ul style="list-style-type: none"><li>• Spikes- Brass/Steel , 60mm, 75mm, 90mm &amp; 120mm.</li><li>• Junction Case- Moulded, repairable, fully water proof, with quick cable replacement.</li><li>• "D" Loop- Moulded poly loops, loose poly loops &amp; steel &amp; brass loops.</li><li>• Carrying Hasp- Trivalent plated, available in various sizes.</li><li>• Sealing Parts available</li></ul>	

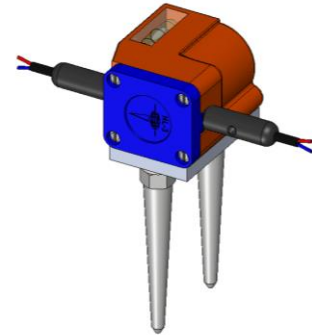
*\*NOTE: HL-5 Version is available for HG-6 Geophones and HL-11 Version for HG-24HS and HG-11 Geophones.*



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**HLH Case:** Horizontal geophones are housed in the HLH case. Its bubble level and dual spike mounting ensures correct levelling and ground coupling. It can accommodate HG-4, HG-6, HG-7, HG-11, HG-24 & HG-24HS geophone elements. Water proof land case with easy case access for geophone or leader cable maintenance, IP67 rating.



## Three Component Cases

HL-6 Series three component cases utilize PCB cable termination and are available in both conventional and 'Spike' versions.

**HL-6B Case** — Field proven, robust, low profile 3C waterproof case. Single or dual entry available. Accommodates a wide range of HG series geophones. Selection of base fittings for optimum coupling. It has a bubble level and triple spike base to ensure correct levelling. Houses HG-4, HG-6, HG-7, HG-11, HG-24 & HG-24HS geophones. This case is also used to house the 2X2 HG-24HS elements for single point high sensitivity recording. Operating temperature range: 20°C to +70°C, IP67 rating



**HL-6S AL Case** — Aluminum base version of the HL-6S 3-C case. This rugged case is designed for maximum performance and durability, in even the most extreme of conditions, with IP67 rating. HL-6S AL case houses a wide range of HG series geophones for maximum 3-C analogue flexibility. It has a bubble level on top for accurate levelling. Houses HG-4, HG-6, HG-7, HG-11, HG-24 & HG-24HS geophone elements.



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## Accessories

### Parts and Spares

1. **Geophone Cables:** 2 Conductor Non-Water/Water Blocked, 3 Conductor Non-Water/Water Blocked and 6 Conductor Non-Water/ Water Blocked . These cables are available normally available in black polyurethane sheathing. Please see attached order sheet for different leader cables available.
2. **Pick –up loops:** Moulded poly loops, loose poly loops steel and brass pick-up loops for different leader cable diameters..
3. **Tripods and Spikes:** Tripod bases are available in steel. Brass and steel spikes are available in 60, 75 90 and 120mm lengths.
4. **Carrying Hasps:** Available in various sizes.
5. **Embossed ID Tags:** Custom numbered aluminium tags for easy string identification.

### String Parts

1. **Y – Mold:** Standard protection and insulation for wide and narrow clip termination.
2. **Standard Moulded Tee:** High tensile strength tee for use in all environments. Pressure tested to 50m water depth for leakage & will withstand underwater use for extended periods. Fully water blocked; Over moulded polyurethane sheathing ensures long durability. The uniquely moulded tee is designed with an internal PCB which prevents electrical leakage even in the event of water migration through a damaged cable.
3. **HL-9 Cable Junction Case:** Field serviceable, watertight with cable entries for 2, 3 or 4 cables. Cable anchoring break strength approaches that of the cable break strength.
4. **HL-7 Paralleling Clip Connector:** Allows any number of paralleled strings to be connected to the main spread while presenting only one set of clips to the take-out.



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## Connectors

1. **HC-4P Connector** - A four contact hermaphroditic field repairable connector that is fully compatible with the Herma IV. Available in 4.57, 5.33, 6.35 mm cable entry versions. Water tight with standard gold-plated connections.



2. **HGS-IV Connector** - Gold plated contacts for reduced corrosion and minimal contact resistance, fully compatible with Amphib IV connector. Accommodates 4.57, 5.33, 6.35 mm cable sizes and is suitable for use in most environmental conditions from -15°C to +70°. Rugged construction utilizing impact resistant polymers.



3. **HGS 1BP/2BP Connector** – Rugged land parallel connector. Easy conversion for Arctic use to -50°C. Parallel geophone strings possible. Male inline version available.



4. **The HGS-5515 and HGS-5517 Series of Connectors** – are ideal for marsh or transition zone seismic operations and are available as single male and female connectors, as well as a back to back paralleling version. These connectors are available in both push-fit and screw-fit options. The 5515 and 5517 connectors are available on customer specified lead in lengths on .180" .210" or .250", dry or water blocked cables. Moulded or steel pick up loop options are also available. The 5517 Connector array consists of a 5515 male connector and a 5517 female inline takeout. The inline connectors can be installed at customer specified intervals.



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**5515-5517 push fit connector array**



**5515-5517 screw fit connector array**



**5515 Male & Female push fit connector**



**5515 Male screw fit connector**



Version 1.1