



HGS (INDIA) LIMITED



LAND CASES, STRING ACCESSORIES & GEOPHONE CONNECTORS

VERTICAL LAND CASES (HL-3 / HL-5 / HL-11 / HL-12 / HL-14 / HL-15 / HL-16)

Vertical Land Case(s): For dry surfaces where the case can be fully embedded in the ground, these cases are preferred choice. The top cable entry ensures that the cable lies flush with 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



HL-3 / HL-5 / HL-11 /
HL-14 / HL-12 / HL-16



HL-15
(with spike)



HL-15
(with levelling screws)

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VERTICAL LAND CASE SPECIFICATIONS				
Geophone Types	HL-3 Case	HG-24, HG-24 CT, HG-24 SG, HG-4, HG-7 upright geophones		
	HL-5 Case	HG-6 upright geophones		
	HL-11 Case	HG-24 HS, HG-11 upright geophones		
	HL-12 Case	HG-5 HS series upright geophones		
	HL-14 Case	HG-6 LF		
	HL-15	HG-2 upright geophones		
	HL-16 Case	HG-5 LF		
Cable OD		4.57 mm (0.180") or 5.33 mm (0.210")		
Case Type →	HL-3	HL-5 / HL-14	HL-11 / HL-16	HL-12
Length	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")	40 mm (1.57")
Width	35 mm (1.38")	35 mm (1.38")	35 mm (1.38")	35 mm (1.38")
Height (excluding spikes)	58 mm (2.28")	63 mm (2.48")	58 mm (2.28")	65 mm (2.56")
Weight (approx.)	170 g	185 g	180 g	205 g
Top Plate colour options	Yellow/ Blue/ Red/ Green			

Case Type →	HL-15
Diameter	54 mm (2.13")
Height (excluding spike/levelling screws)	95 mm (3.74")
Weight (with spike / with levelling screws)	880 g / 983 g approx.

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HORIZONTAL LAND CASE (HLH)

Horizontal Land Case(s): Horizontal geophones are housed in the Horizontal HLH case. Its bubble level and dual spike mounting ensures correct levelling and ground coupling. This water proof land case with easy case access for geophone or leader cable maintenance has an IP67 rating. A single spike mounting option is also available.



HLH



**HLH-15
(with levelling screws)**

HORIZONTAL LAND CASE SPECIFICATIONS

Geophone Types	HLH Case	HG-4, HG-6, HG-7, HG-11, HG-24, HG-24 CT, HG-24 SG & HG-24 HS horizontal geophones		
	HLH-12 Case	HG-5 HS series horizontal geophones		
	HLH-14 Case	HG-6 LF		
	HLH-15 Case	HG-2 horizontal geophones		
	HLH-16 Case	HG-5 LF		
Cable OD		4.57 mm (0.180") or 5.33 mm (0.210")		
Case Type →		HLH	HLH-12 / 14 / 16	HLH-15
Length		45 mm (1.57")	40 mm (1.57")	85 mm (3.35")
Width		57 mm (2.24")	71 mm (2.80")	120 mm (4.72")
Height (excluding spikes)		41 mm (1.61")	41 mm (1.61")	60 mm (2.36")
Weight (approx.)		245 g	275 g	1190 g (with spike) / 1183 g (with levelling screws)
Top Plate colour options		Yellow/ Blue/ Red/ Green		NA

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THREE COMPONENT LAND CASES (HL-6B / HL-15 3C)

HL-6 Series Three Component Land Case(s) utilize PCB cable termination and are available in both conventional and 'Spike' versions.

HL-6B Three Component Land Case: Is a field proven, robust, low profile 3C waterproof case. Single or dual entry lead ins are available. Accommodates a wide range of HG series geophones. Selection of base fittings for optimum coupling are available. It has a bubble level and triple spike base to ensure correct levelling. This case is also used to house the 2X2 HG-24HS elements for single point high sensitivity recording. The operating temperature range is 20°C to +70°C with an IP67 rating.



HL-6B



HL-15 3C (with spikes)

HL-6B / HL-15 3C LAND CASE SPECIFICATIONS

Geophone types	HL-6B	HG-4, HG-5 LF, HG-6, HG-6 LF, HG-7, HG-11, HG-24, HG-24 CT, HG-24 SG, HG-24 HS, HG-5 HS series geophones	
	HL-15 3C	HG-2 geophones	
Case Type		HL-6B	HL-15 3C
Cable OD		6.86 mm (0.27") or 7.87 mm (0.31")	6.86 mm (0.27") or 7.87 mm (0.31") with mating connector
Length / Diameter		117 mm (4.61")	Ø131 mm
Width		84 mm (3.31")	-
Height		55 mm (2.17")	114 mm
Weight (approx.)		690 g (including spikes)	3100 g (with spikes) / 3214 g (with levelling screws)

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Top Plate colour options	Yellow	NA
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THREE COMPONENT LAND CASE (HL-6S)

HL-6 Series Three Component Land Case(s) utilize PCB cable termination and are available in both conventional and 'Spike' versions.

HL-6S Three Component Aluminium Spike: This case has an aluminium base and is designed for maximum performance and durability, even in the most extreme of conditions with an IP67 rating. The 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.



HL-6S THREE COMPONENT ALUMINIUM SPIKE SPECIFICATIONS

Geophone Types	HG-4, HG-7, HG-24, HG-24 CT & HG-24 SG geophones
Cable OD	6.86 mm (0.27") or 7.87 mm (0.31")
Diameter	72 mm (2.83")
Height	154 mm (6.06")
Weight (approx.)	540 g
Top Plate colour options	Orange

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STRING ACCESSORIES

PARTS & SPARES:

1. **Geophone Cables:** 2, 3 & 6 conductor dry/water-blocked cable. These cables are normally available in black polyurethane sheathing.
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 mm, 75 mm, 90 mm, 120 mm & 150 mm lengths.
4. **Carrying Hasps:** Available in various sizes.
5. **Embossed ID Tags:** Custom numbered aluminium tags for easy string identification.

STRING PARTS:

1. **Y – Mould:** 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 50 m water depth for leakage & will withstand underwater use for extended periods. Over moulded polyurethane sheathing ensures long durability.
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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GEPHONE CONNECTORS

1. HC-4P Connector

A four-contact hermaphroditic field repairable connector that is fully compatible with the Herma IV. Available in 4.57 mm, 5.33 mm, 6.35 mm cable entry versions. Watertight with standard gold-plated connections. Suitable for use in most environmental conditions from -15°C to +70°C. Rugged construction utilizing impact resistant polymers.



2. HGS-IV Connector

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



3. HGS-1BP Male Connector, HGS-1BP Female Connector and HGS-2BP M/F Connector

Rugged land connectors. Easy conversion for Arctic use to -50°C. Parallel geophone strings possible. Male inline version available.

HGS-1BP Male Connector



HGS-1BP Female Connector



HGS-2BP M/F Connector



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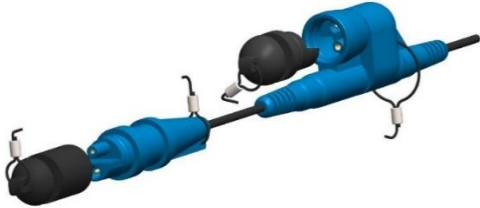
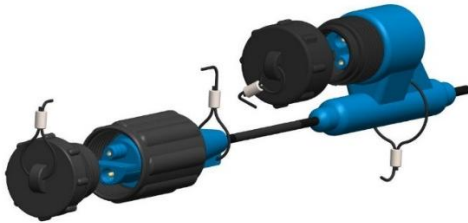
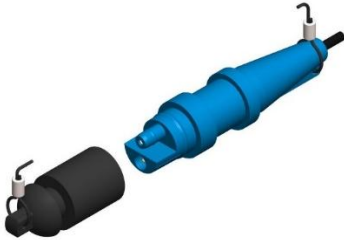





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4. HGS-5515 and HGS-5517 Series of Connectors

Ideal for marsh or transition zone seismic operations and are available as single male or 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.

5515-5517 Push Fit Connector Array	5515-5517 Screw Fit Connector Array
	
5515 Male Push Fit Connector	5515 Female Push Fit Connector
	
5515 Male Screw Fit Connector	5515 Female Screw Fit Connector
	

Version 1.3

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