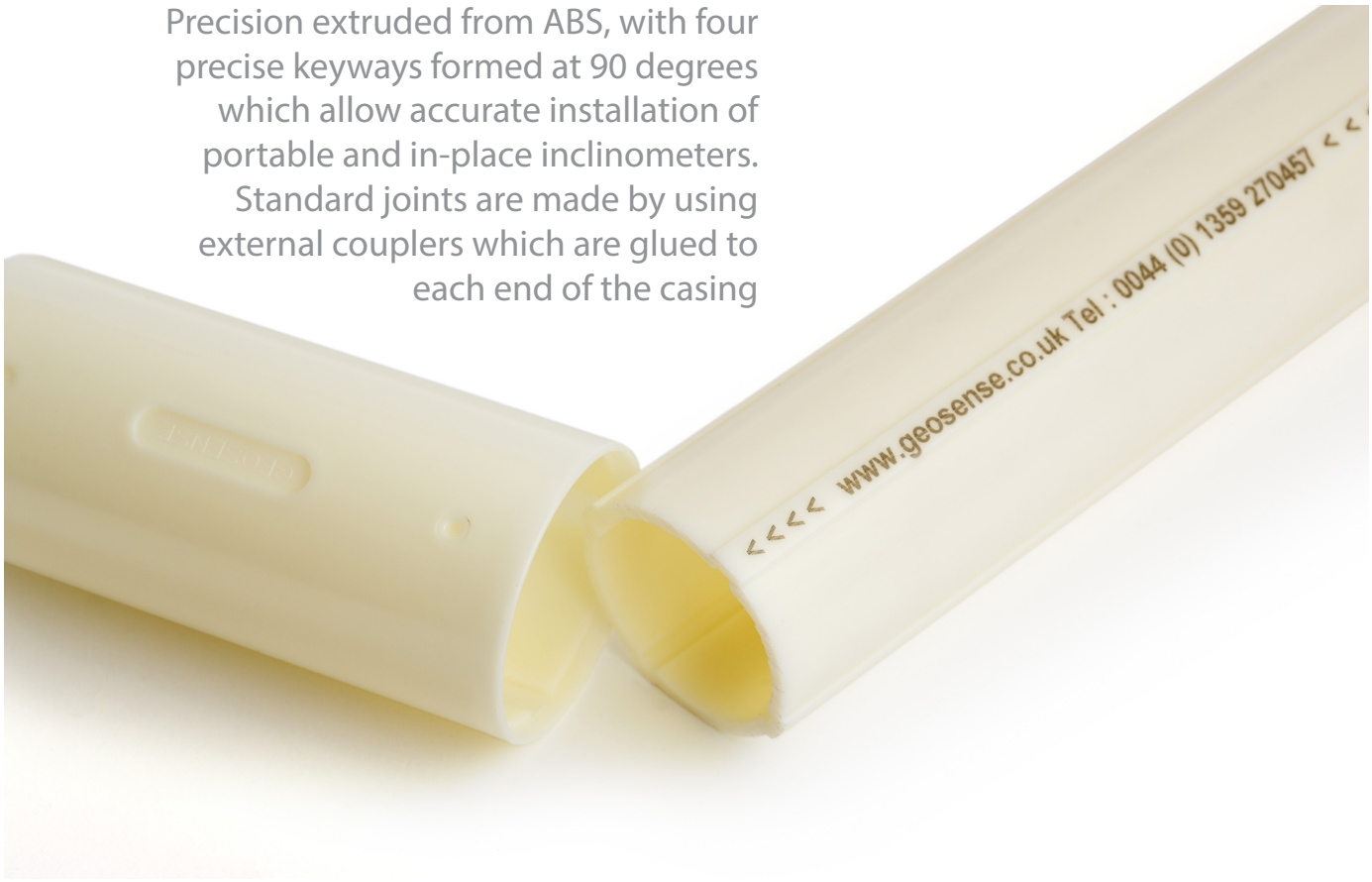
DATASHEET

Inclinometer Casing XC (External Coupler)

Precision extruded from ABS, with four precise keyways formed at 90 degrees which allow accurate installation of portable and in-place inclinometers. Standard joints are made by using external couplers which are glued to each end of the casing



GEOSENSE

Inclinometer Casing XC (External Coupler)

Overview

Geosense® XC (External Coupler) Inclinometer Casing is precision extruded from ABS, with four precise keyways formed at 90 degrees which allow accurate installation of portable and in-place inclinometers.

Standard joints are made by using external couplers which are glued to each end of the casing. Telescopic sections are riveted together to allow movement during settlement and sealed with mastic and tape to prevent the ingress of water and grout.

Advantages of the XC Inclinometer casing is that it can be cut and re-joined on site allowing maximum flexibility and makes any damage easily repairable.

It can be used in boreholes, fill material, cast into concrete or attached to structures and is designed to move with the ground, material or structure to provide inclination information over a period of time.

As the casing is designed to deform with movement of the ground or structure the useful life of the casing ends when the continued movement of the casing causes deformation of shear so that the inclinometer probe can no longer be placed into the casing. Larger casing generally ensures a longer life.

Where vertical settlement or heave is anticipated to be greater than 2% it is recommended to use telescopic sections to eliminate axial load on the casing which would cause buckling.

A full range of accessories including bottom and top caps, anchors and groutable anchors are available and can be used in conjunction with magnetic targets for combined inclinometer/ magnetic extensometers.

APPLICATIONS

For use with inclinometer systems for monitoring stability & movement of:

- Slopes
- Embankments
- Diaphragm & sheet piled walls
- Deep foundations
- Tunnelling operations
- Piles
- Pre-loads
- Deep excavations

FEATURES

- Low spiral
- Fast installation
- Can be cut & repaired on site
- Available in 3 & 1.5 metre lengths
- Made from 100% virgin ABS plastic
- Fully compatible with all probe types
- 70 and 85mm diameters
- Telescopic sections available
- Can be combined with magnetic targets

Inclinometer Casing XC (External Coupler)

Specifications

CASING SPECIFICATIONS		
Material	100% virgin ABS (Acrylonitrile-butadiene-styrene)	
Groove spiral	< 0.3°/3m	
Collapse resistance	~ 2000kPa	
Joint strength	710 Kgf	
Torque	525Nm	
Bend rating	2.6kN	
Maximum temperature	+80°C	
Colour	Natural (other available on request)	
CASING DIMENSIONS		
Outside diameter	70mm	85mm
Inside diameter	62mm	77mm
Length (effective)	3 & 1.5 metre	3 & 1.5 metre
STANDARD COUPLER DIMENSIONS		
Outside diameter	77mm	91mm
Inside diameter	70mm	85mm
Length	160mm	200mm
TELESCOPIC COUPLER DIMENSIONS		
Outside diameter	77mm	91mm
Inside diameter	70mm	85mm
Length	400mm	380mm
Telescopic range	±75mm	±75mm
WEIGHTS		
Casing	2.66kg/m	3.18kg/m
Top cap	48g	64g
Bottom plug	70g	90g
Standard coupler	136g	236g
Telescopic coupler	400g	380g

INSTALLATION ACCESSORIES

Rivets, sealing tape (1 roll per 6 couplings), mastic and solvent cement (1 tin per 20 joints) available.

Inclinometer Casing XC (External Coupler)

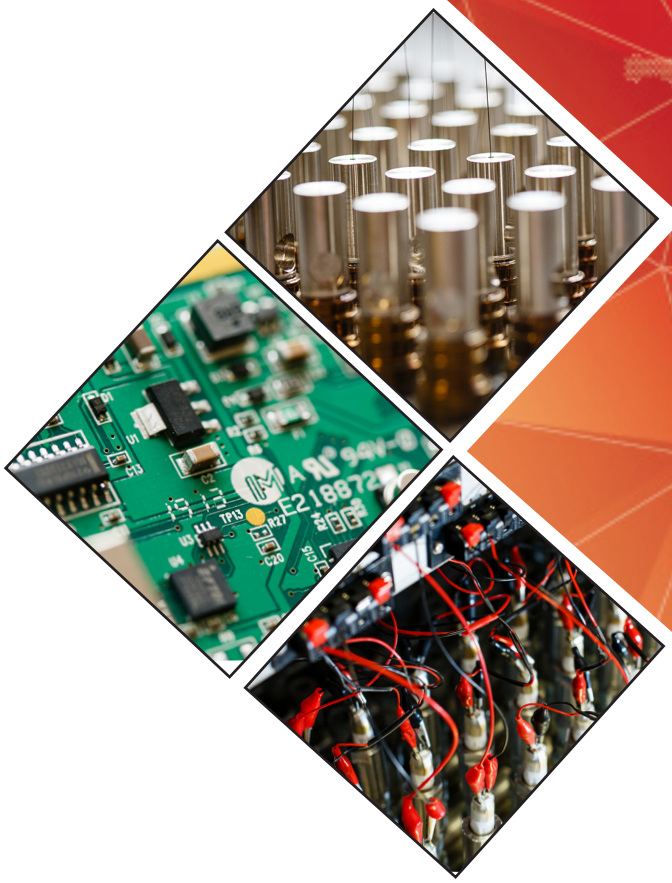
Casing Accessories

ACCESSORIES

Casing Accessories include, from left, Centralisers, Caps and Guides

ORDERING INFORMATION

Diameter
Length
Telescopic sections
Bottom cap
Top cap
Anchor type



GEOSENSE

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