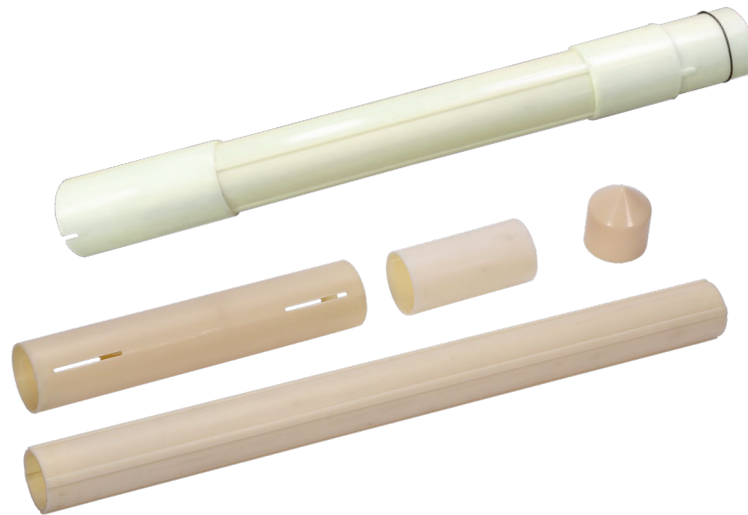




DATASHEET

INCLINOMETER CASING



INTRODUCTION

Inclinometer casing play a vital role in measurement of lateral deformation. The grooved casing acts as an access guide for digital inclinometer probe, or in-place inclinometer chain for determining the movement in ground, embankment, or structure. The sturdy ABS casings have longitudinal keyways, specially produced to close tolerances. Wheels of tilt sensing probe can run smoothly inside these keyways. Encardio-rite provides two types of inclinometer casing:

- Conventional casing installed using fixed or telescopic couplings, connected with pop rivets, sealed with mastic tape and BOPP tape.
- Snap-in quick to install inclinometer casing, supplied with male and female couplings attached to it.

FEATURES

- High precision machined internal grooves
- Self-aligning, leak-proof couplings
- ABS material and thick walls make it strong enough for use in any kind of application
- No spiral effect, less than $0.3^\circ/3\text{ m}$
- One of the best design with advanced technology for the snap in
- Simple one-touch installation with snap-in type reduces field installation time.

APPLICATION

- Determination of lateral movement and deformation of earth works or structure.
- Measurement of magnitude of inclination or tilt and its variation with time in structures like retaining/diaphragm walls, piles etc.



ADVANCED SNAP-IN INCLINOMETER CASING WITH ATTACHED COUPLINGS

Model EAN-ATS series of snap-in access tubes are specially designed for easy and quick installation at site. The casings are supplied with factory attached male and female couplings at both ends.

The casing is made of fresh ABS resin using precision moulding. ABS material retains its shape and flexibility over a wider range of temperature. The built-in couplings are made of ABS adhesive optimised with high quality control at the factory.



'O' rings are attached on the male coupling to make it leak-proof, to prevent grout/water seeping into the pipe.

Around the male coupling a protrusion is provided. When the male and female couplings are fastened, a strong resistance is developed against the separation force due to its own weight.

EAN-ATS70 snap-in access tube with built-in couplings

Self-aligning ABS tubing, 70 mm o.d. (~ 2.75 in), 62 mm groove i.d., 3 m (~9.85 ft) length. Coupling o.d. 75 mm.

Tensile strength after joint coupling – 85 kgf

CONVENTIONAL INCLINOMETER CASING WITH SEPARATE COUPLINGS

Model EAN-AT series of conventional access tubes are 3 m (~9.85 ft) in length. Different kinds of couplings are available to rapidly join access tubes. Telescopic couplings are available in case settlement is expected to take place. Design of these couplings ensure that correct alignment of keyways is maintained throughout depth of gage well.



EAN-AT70 self-aligning access tube

Self-aligning ABS tubing, 70 mm o.d. (~ 2.75 in), 58 mm i.d., 3 m length.

EAN-FC70 ABS fixed coupling (70 mm)

ABS fixed coupling for 70 mm o.d. access tube; 77 mm o.d. x 160 mm length.

EAN-TC70 ABS telescopic coupling (70 mm)

ABS telescopic coupling for 70 mm o.d. access tube; 77 mm o.d. x 300 mm length, displacement up to 150 mm.

EAN-EC70 End cap for ABS tubing (70 mm)

ABS end cap for 70 mm o.d. access tube to fit at top or bottom.

EAN-TT70 Top cap for ABS tubing (70 mm)

ABS lockable top cap for 70 mm o.d. access tube.

Pop rivets for ABS tubing

Pop rivets packets of 100 numbers for fixed coupling.

Self tapping screws for ABS tubing

Self tapping screws packets of 100 numbers for telescopic coupling.

Pop rivet gun

Hand held manually operated.

Power drill

230 V 50 Hz operation power drill with two 3.2 mm dia drill bits.

Mastic tape

50 mm width x 10 m long mastic tape.

ABS casing sealing accessories

BOPP tape 50 mm width x 30 m long.

Note: EAN-AT series of casing with 85 mm o.d. (~ 3.35 in), 77 mm i.d., available on request.