



PRODUCT CATEGORY:  
INCLINOMETERS + TILT SENSORS

## High Endurance Inclinometer Casing

High Endurance Inclinometer Casing is comprised of ABS casing lengths with no machining at the end, except for an alignment notch. Casing sections of either 1.52 m (5 ft) or 3.05 m (10 ft) are assembled with external tight-fitting slip couplings. By construction, the High Endurance Casing is therefore a very homogeneous tubing with extra reinforcement at the location of the connection between casing sections in order to ensure maximal torsional, compressive and bending strength. High Endurance Inclinometer Casing is used in situations where extra robustness is required. For instance, when the casing is installed in a soil formation or an embankment subject to relatively high settlement causing downdrag along the casing, the extra reinforcement ensures that all the strength of the casing will be mobilized. Shear resistance of the casing at the contact between different geological formations is also improved.

If the expected settlement is very high, e.g. substantially more than 1-2%, telescopic sections or telescopic casing as described in separate data sheets, should be used.

High Endurance Inclinometer Casing, with external coupling, shown in two available sizes of 85 mm (left) and 70 mm (right).



### CASING SPECS

DESCRIPTION	70 MM (2.75 IN.) OD	85 MM (3.34 IN.) OD
Casing OD	70 mm (2.75 in.)	85 mm (3.34 in.)
Casing ID	59 mm (2.32 in.)	73 mm (2.87 in.)
Coupling OD	79 mm (3.11 in.)	94 mm (3.70 in.)
Casing Length	1.5 or 3 m (5 or 10 ft.)	1.5 or 3 m (5 or 10 ft.)
Casing Weight	1.27 kg/m (.85 lbs/ft.)	1.49 kg/m (1.0 lbs/ft.)
Bottom Cap OD	79 mm (3.11 in.)	94 mm (3.70 in.)
Material	ABS Plastic	ABS Plastic
Groove Spiral	≤ 0.3 deg./10 ft.	≤ 0.3 deg./10 ft.

### > APPLICATIONS

Pilings.  
Landslides and slope stability.  
Subsidence control.  
Under large storage tanks.  
Embankment and dam stability.  
Bridge pier, abutments deflection.  
Areas next to large excavations.

### > FEATURES

External couplings.  
High precision, machined guide grooves.  
Self aligning, water and grout tight couplings.  
Low spiral ≤ 0.005 Rad/3 m (≤ 0.3 deg./10 ft.)  
Meets or exceeds all applicable standards.  
Compatible with all commercial probe types and in-place inclinometer sensors.

70 mm (2.75 in.) and 85 mm (3.34 in.) OD sizes.

Compatible with inductance, reed switch, magnetic, or mechanical settlement monitoring devices.

### > BENEFITS

- ✓ **Increase Safety**
- ✓ **High Reliability**

### ORDERING INFO

DESCRIPTION	70 MM (2.75 IN.)	85 MM (3.34 IN.)
1.52 m length (5 ft.)	ICHE205	ICHE305
3.05 m length (10 ft.)	ICHE210	ICHE310
Coupling	ICHE2C0	ICHE3C0
Top cap	ICC2TC	ICC3TC
Bottom cap	ICHE2BC	ICHE3BC
Grout cap	ICHE2CP	ICHE3CP
Pop Rivets	IC1010	
ABS Solvent Cement (cannot be shipped by air)	IC1020	

### OPTIONAL EQUIPMENT

Riveting tool  
Casing anchor  
Reconnect adapter  
Reconnect alignment tool  
Female grout adapter  
Grout cap