



## CABLES



Systel Geotechnical Instruments used to measure the performance and safety of structure requires secure and reliable connections between the sensors and the data retrieval location. Our Instruments uses the highest quality cables made to British and European standards. They have excellent strength and flexibility which makes them ideal for installation

The cables are designed for a variety of geotechnical and hydrological applications. They are waterproof, have good electrical properties and can be buried in soil or embedded in concrete. Cable construction consists of one or more shielded pairs with individual drain wires for electrical noise protection. A variety of cable jackets are available including PVC for standard applications, Teflon for use at high temperatures and Polyurethane for use in situations where extra abrasion resistance is required. Armored cables, for use in earth dams, and cables with straining wires and integral vent tubes are also available.

## **ARMOUR**

Where extra protection against point loads is required typically within rock fills, landfills, embankments etc, wire armored cable is often used. A wide range of armoring is available to suit the individual protection requirement.

## **ACCESSORIES**

A wide range of splicing kits, cable end protectors and connectors are also available to ensure cabling connectors on site are quick & easy.



**SPECIFICATION**

Conductors 22 AWG (stranded 7 × 30 AWG) tinned copper  
 Conductor Insulation Polypropylene, 10-Mil high density, color coded  
 Shielding Aluminum polyester with drain wire,

24 AWG tinned copper

Jackets Extruded PVC standard (-20°C to +60°C),

Teflon (-80°C to +200°C), Polyethylene, Polyurethane,

and Armored Polyethylene

Temperature Range -20°C to +60°C

CABLE TYPE	MODEL RT 2010/1	MODEL TR 2010/2	MODEL RT 2010/8	MODEL RT 2010/12	MODEL RT 2010/30
<b>Outer sheath type</b>	PUR	PUR	PE	PE	PE
<b>Outer Sheath OD</b>	6.5mm.	4.9mm.	8.9mm.	10.1mm.	12.5mm
<b>Outer Sheath Colour</b>	Orange, black, red, grey	Orange, black, red, grey	Orange, black, red, grey	Orange, black, red, grey	Orange, black, red, grey
<b>Conductor Type</b>	Stranded tinned copper	Stranded tinned copper	Stranded tinned copper	Stranded tinned copper	Stranded tinned copper
<b>Conductor Number</b>	4 core	4 core	4 twisted pair	6 twisted pair	15 twisted pair
<b>Conductor Size</b>	22 AWG 0.5mm <sup>2</sup> , 0.25mm	24 AWG 0.35mm <sup>2</sup> , 0.25mm	24 AWG 0.35mm <sup>2</sup> , 0.25mm	24 AWG 0.35mm <sup>2</sup> , 0.25mm	24 AWG 0.35mm <sup>2</sup> , 0.25mm
<b>Conductor Insulation</b>	PE	PE	PVC	PVC	PVC
<b>Shield</b>	Aluminium foil	Aluminium foil	Aluminium foil	Aluminium foil	Aluminium foil
<b>Resistance</b>	60 Ω per Km.	104 Ω per Km.	82 Ω per Km.	82 Ω per Km.	82 Ω per Km.
<b>Temperature Range</b>	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C
<b>Weight Kg/Km</b>	44	28	72	93	170