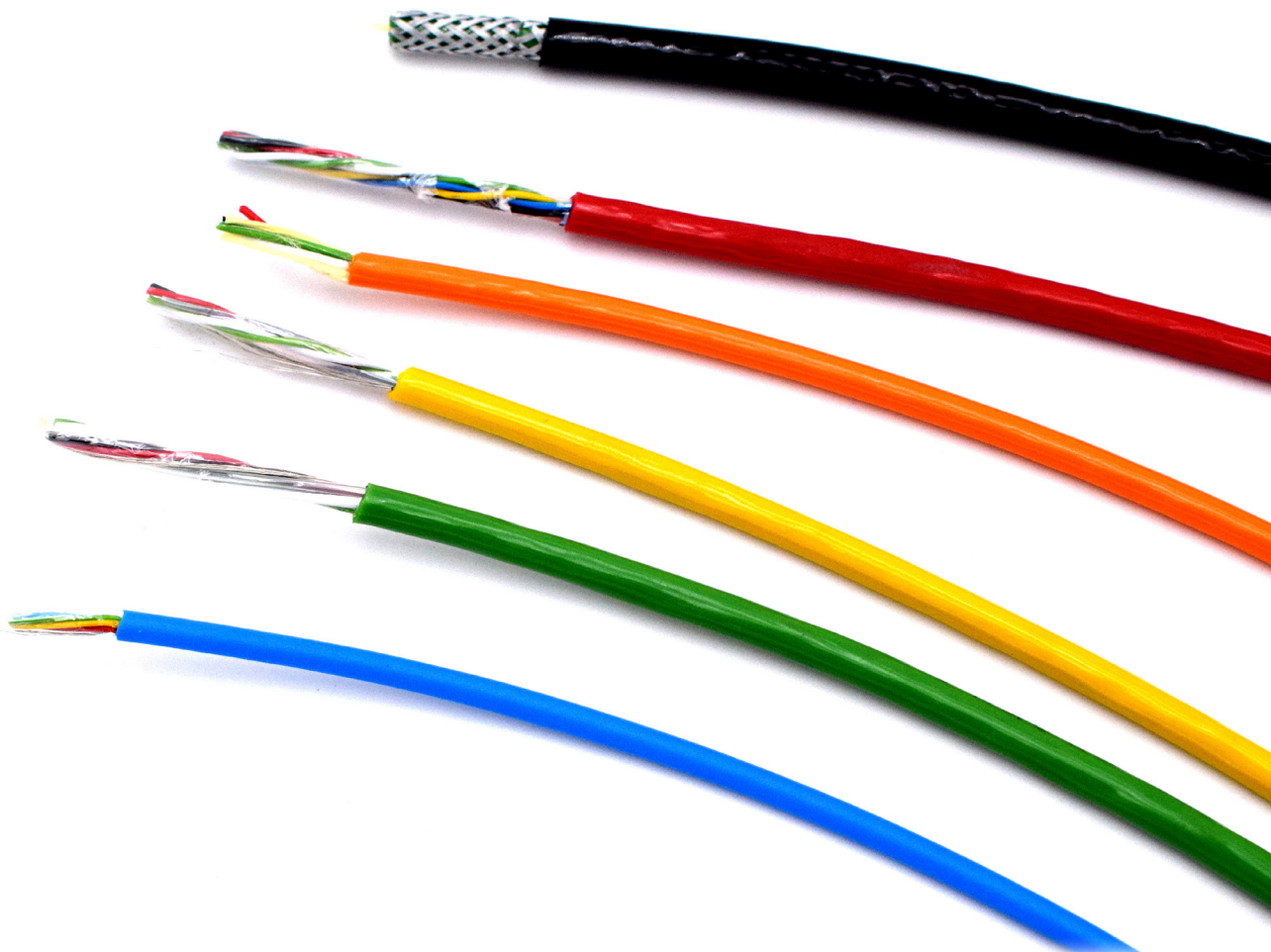




Cables for geotechnical sensors

Technical Features



Instrumentation and multicore cables are designed to meet the characteristics of the signal of the connected instrument. Cable results to be an important and fundamental part of a monitoring system.

The robustness and durability in harsh environments are features to consider when installing instrumentation.

The model for relative piezometers is vented and provides barometrical compensation.

Applications

Instrumentation cables and multicore cables often represent the most delicate part of monitoring. Sometime they may also be an expensive part of the system.

Cable must be resistant to water, chemical liquids and sun exposure.

All the instrumentation cables and multicore cables supplied by OTR have adequate section allowing a correct signal transmission.

Benefits

Sheath (PUR), shielding and twisting couples make the series of cables produced by OTR suitable for use with vibrating wire sensors or with 4-20 mA, mV, mV / V outputs or with direct potentiometric sensors as well.

An inside Kevlar rope makes cables stretch resistant. Outer polyurethane sheath guarantees resistance to ultraviolet light, water and corrosive agents.

Cables with 2 to 6 twisted pairs allow you to group up to 6 vibrating wire instruments, up to 6 4-20 mA instruments, up to 3 inclinometers, or up to 6 resistive crackmeters.

The cable can be placed inside a corrugated sheath to give, in harsh environments, additional protection.



Related Instrumentations

- 4-20mA Output Instruments
- Vibrating Wire Output Instruments
- Clinometers
- Potentiometer crackmeters



Technical Specifications

					
Description	2 twisted pairs	3 twisted pairs	2 twisted pairs + Capillary	6 twisted pairs	Inclinometer cable
Conductors	4	4	4	12	6
Section conductors	0.25 mm ²	0.25 mm ²	0.25 mm ²	0.35 mm ²	0.50 mm ²
Single conductor	Tinned copper	Tinned copper	Tinned copper	Tinned copper	Tinned copper
Protective sheath	polyurethane	polyurethane	polyurethane	Double shealt PVC and Polythene	Polyurethane (Orange color)
Internal shield	Mylar	Mylar	Mylar	Mylar	Stainless steel torsion
Internal reinforce-	-	-	Kevlar rope	Kevlar rope	Soul Steel 2.5 mm
Extrnal Diameter	5.5 mm	5.5 mm	8 mm	12 mm	10 mm
Colors	Red-Black-Green-White	Red-Black-Green-White	Red-Black-Green-White	Any color	Crimped tinned copper every 50 cm or 24 "(optional)
(*) Capillary barometric int. diameter 1 mm					



Codes & Part Numbers

P/N 2015000	Cable 3x2x0.25 PUR KEVLAR Halogen Free
P/N 2015001	VENTED Cable 2x2x0.25 PUR Halogen Free
P/N 2015002	Cable 2x2x0.25 PUR Halogen Free
P/N 2015004	VENTED ARMORED Cable 2x2x0.25 PUR Halogen Free
P/N 2015005	PUR cable 5 x 0.15, Kevlar
P/N 2015006	6 x 0.50 PUR Cable steel rope Armored 500 mm step
P/N 2015007	4 x 0.35 PUR Cable kevlar rope 500 mm step