

# PERMANENT GAUGE DOWNHOLE CABLE



SKU: AN004-150-004

Categories: [Advanced Monitoring](#), [Ancillary](#), [Downhole Gauges](#), [Downhole Instrumentation](#), [Gauges](#), [Kuster®](#), [Well Monitoring](#)

## PRODUCT DESCRIPTION

The Permanent Downhole Cable provides a mechanism to communicate to the downhole gauge, providing power and telemetry to and from the sensor. The standard format is 0.25" OD, 316SS TEC protected by 11mm x 11mm Fluoropolymer encapsulation that provides a high degree of protection for the mono-conductor line. This TEC is 150°C (302°F) rated with 7 strand conductor line. These cables are manufactured under ISO quality control and are fully tested with all relevant documentation available.

### Ratings & Dimensions

<b>Cable Options</b>	Bare cable or Encapsulated	
<b>Max Working Pressure</b>	<b>316 SS (Stainless Steel)</b> 13,125 psi	
	<b>A825 Inconel</b> 20,250 psi	
<b>Outer Diameter</b>	0.25" tube	
<b>Wall Thickness</b>	0.028"	0.035" 4mm
<b>Length</b>	Up to 25,000 ft	
<b>Insulation</b>	<b>Outer Insulation:</b> Expanded Polyolefin Filler <b>Inner Standard:</b> FEP (Fluoropolymer) <b>Superior:</b> Teflon	
<b>Encapsulation</b>	11 x 11 mm or 3/8 in round <b>Standard:</b> Polypropylene <b>Optional:</b> Rilsan, Tefzel, PFA	
<b>Conductor</b>	18 AWG, 7/s, Tin Coated Copper	

### Electrical Specifications

Electrical Specifications	Units	Nominal	Tolerance
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Conductor Resistance			
20°C	Ohms/1000ft	7 ohms	7 ohms max
150°C		11 ohms	11 ohms max
Armour Resistance			
20°C	Ohms/1000ft	18.5 ohms	+/-2 ohms
150°C		19.1 ohms	+/-2 ohms
Capacitance Resistance			
20°C	pF/ft	26.0 ohms	
150°C		27.5 ohms	
Insulation Resistance	Ohms/1000ft	15,000 minimum	

## Hardware Characteristics

### Combinability

KPerm Peizo, Quartz, Hybrid Quartz

\*Cables are third-party sourced.

Version Control: 2021.12.22

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***On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.***