

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

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

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