Technical Specification Sheet

Permanent Gauge Downhole Cable

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

Hardware Characteristics

Combinability	KPerm Peizo, Quartz, Hybrid Quartz

*Cables are third-party sourced.

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