

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 |
|---------------------------|-------|---------|-----------|
|---------------------------|-------|---------|-----------|

| | | | |
|------------------------|-------------|----------------|-------------|
| 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.