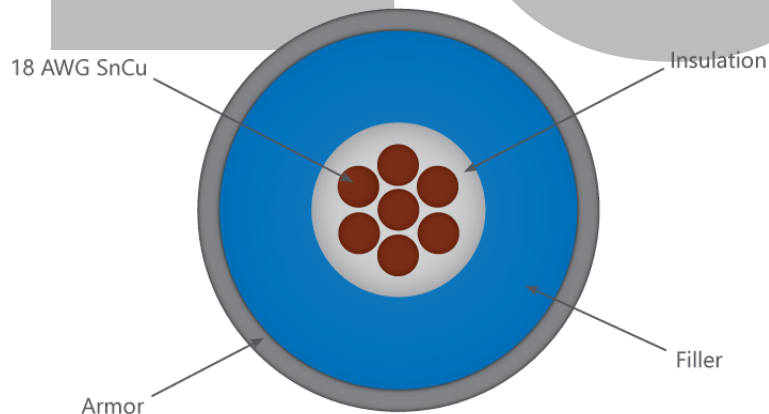


TEC

0.25 OD 0.028 Wall SS



Application

Armored cable for artificial lift downhole monitoring systems.

Features

- 18 AWG Copper conductor
- 150°C Rated Blue Polyolefin Filler
- 316L Stainless Steel

Dimensional Specifications

	Value (in)	Tolerance (in)
Conductor Diameter	0.0460	+ 1 %, - 5%
Insulated Diameter	0.0980	± 0.002
Insulation Wall	0.0260	± 0.002
Filler Diameter	0.194	
Filler Wall	0.048	
Filler Concentricity	80	
Armor Diameter	0.250	± 0.002
Armor Thickness	0.028	+ 0.0005, - 0.0025
Roundness	0.001	0.002 max
Encapsulation Min. Axis	0.433	± 0.024
Encapsulation Max. Axis	± 0.024	± 0.024

Dimensional Specifications

	Value	Tolerance
Armor Tensile Strength (psi)	135,000	± 35,000
Armor Yield Strength (psi)	125,000	± 35,000
Armor Elongation	15%	± 10%
Tube Hardness (HRc)	30	35 max
Cable Collapse Pressure (psi)	17,500	± 5,000
Cable Working Pressure (psi)	13,125	
Core Pullout Force (lbf)	10	5 min, 55 max
Filler Stripping Force (lbf)	20	10 min, 30 max
Cable Weight (lb/1000')	146	± 15
Service Temperature Range	100°C	-25°C to 150°C

Electrical Specifications

	Temperature	Value	Tolerance
Conductor Resistance (Ω/1000')	20°C	7	7 (max)
	150°C	11	11 (max)
Armor Resistance (Ω/1000')	20°C	18.5	± 2.0
	150°C	19.1	± 2.0
Capacitance (pF/ft)	20°C	29.9 max	
	150°C	27.5	
Insulation Resistance (MΩ-1000')		6,500 min	
Velocity of Propagation (%Vel. Light)			
Cutoff Frequency (MHz)		72.2	± 0.2
Effective Impedance (Ω)		22,425	± 1,500
Effective Inductance (uH/ft)		0.08	± 0.01
Voltage Rating 3kV 5 min		1,000 V	