

Tubing Encapsulated Cable



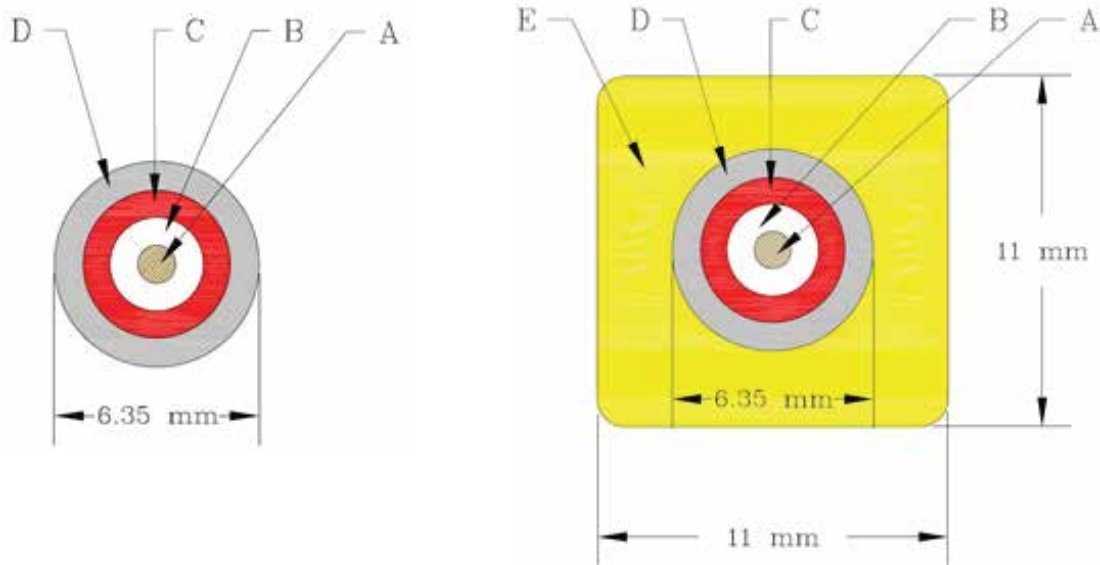
Description

Tubing Encapsulated Cable (TEC) is used to provide both power and signal transmission to and from the downhole gauges to the SST data acquisition unit on surface. The SST permanent monitoring system uses a 1/4" OD TEC that houses a 16 AWG copper single wire conductor. The TEC is rated for harsh downhole environments and contains several internal layers of polymeric encapsulation for added protection. Various TEC configurations are available depending on the downhole environment and application. Additionally, the TEC can be housed within square profile polymeric encapsulation and is available in various materials.

During installation, the TEC can be spliced as needed using SST Splice Kits. The control line protectors are used to anchor the TEC to the production tubing and provide additional cable protection.

Features

- Up to 32 gauges can be operated using a single TEC
- Available in 316L for standard service and 825 Incoloy alloy for sour service
- Optional external encapsulation, square profile



Operating Specification

A	CONDUCTOR	16 AWG Stranded Bare Copper; O.D. 1.29mm (0.051in.)
B	INSULATION	T-01 FEP
C	FILLER	P-06 Polypropylene
D	TUBING	Material: 316L (Sweet); 825 Incoloy Alloy (Sour) Standard Wall: O.D.: 6.35 mm (0.250 in.) nom Thin Wall: 0.71 mm (0.028 in.) nom
E	ENCAPSULATION	Material: CP-1 Polypropylene, square profile Dimensions: 11mm x 11mm
	OPERATING PRESSURE	316L: 16,371 psi (Thin Wall); 19,688 psi (Standard Wall) 825 Incoloy: 17,281 psi (Thin Wall); 20,781 psi (Standard Wall)
	MAXIMUM VOLTAGE	1000 Vdc
	MAX CONDUCTOR RESISTANCE AT 20°C	4.10 ohms/1000ft (13.5 ohms/km)