

DIAL Datasheet

DIAL Cablehead Termination

High reliability testable TEC connections

About

DIAL in-well units are connected to surface via a Tubing Encased Conductor (TEC). This provides power and communication.

The DIAL Cablehead Termination allows electrical communication between the TEC and the DIAL Units while offering protection from the harsh downhole environment.

Internally, the termination provides a pluggable electrical interface that can be made up on the rig floor during completion operations or off-line ahead of time. Externally, it uses industry standard gas tight cone-and-thread as well as ferrule-style seals to protect the internals from well fluids. After makeup, these seals are fully pressure testable before being installed in the well.

Integral to the DIAL Unit there is also a redundant GTMS (Glass to Metal Seal). This isolates the unit's electronics from the inside of the Cablehead Termination in case there is eventual gas ingress.

Applications

- **All DIAL installations:** Supplied with all concentric, slimline and sensing DIAL units.
- **Splice kits:** Available for planned splices or well-site repair of damaged TEC.
- **Assuring reliability:** Made up and integrity tested prior to and during installation.

Features

- Preassembled with pluggable electrical connectors and no crimps
- Easily reconnectable at the wellsite with no additional equipment cost
- Industry standard and proven metal-to-metal seals
- Pressure testable in the shop and at the rig-floor
- Includes redundant Glass to Metal Seal (GTMS) to protect DIAL unit electronics from gas ingress

Benefits

- Ease of installation by field crew with reduced rig time compared to non "plug-n-play" systems
- Accommodates un-planned adjustments to completion configuration
- Reliable gas-tight connection assures life-of-well provision of power and communications to DIAL system
- Assured and verifiable for reliability of interface between TEC and cablehead termination
- Further assure reliability of DIAL production optimization system



Specification

Dimensions	OD	1.100 in 27.0 mm
	Length	9.90 in 252 mm
Electrical	Connection	Pluggable
	Rating	150 V 1 A
Mechanical	Connection	Cone-and-thread and/or ferrule style
	Seal	Metal-to-metal
	Verification	Field Testable
Rating	Collapse	10,000 psi 689 Bar
	Burst	10,000 psi 689 Bar
	Temperature	Max = 302 deg F 150 deg C Min = -4 deg F -20 deg C
Construction	Metallurgy	Alloy 825
	Critical Seals	Electron Beam Welded Metal-to-metal FKM
	Connection	Plug-n-play pin
Compatibility	TEC Connections	¼" Tubing Encased Conductor 3 Conductor
	TEC Metallurgy	316 SS & Inconel 825

Note: INCONEL® is a registered trademark of the Special Metals Corporation group of companies.

DDS 001 Rev 0 Apr 2022