**HALLIBURTON**

WELL COMPLETIONS | INTELLIGENT COMPLETIONS

# Fuzion® suite of downhole wet-mate connectors

Reliability and performance beyond traditional single-trip completion designs.

## FEATURES

- Oil and water-based hydraulic fluid compatibility
- Debris-tolerant design
- Field-redressable
- Field-proven and field-testable control line FMJ connectors
- Compatible with a wide range of casing applications
- Improved sealbore design for safe stabbing procedures

## BENEFITS

- Enables data and control of multi-trip and complex completions
- Minimizes risks when compared to wet-mates that need to be oriented
- Designed with reliability in mind to reduce unnecessary wear
- Reduces necessity and cost of a total completion workover

## Overview

The Halliburton Completion Tools Fuzion® suite of wet-mate connectors facilitates removal of the upper completion from the lower completion without using destructive intervention methods. Consequently, SmartWell® completion systems, interval control, zonal isolation and DataSphere® permanent monitoring systems can remain in place for future reconnection to the tubing, electric and hydraulic lines when the upper completion is redeployed.

Compact and concentric in design, the secure latching mechanism can be delivered with the enhanced cut-to-release or the patented Halliburton Soft-Release technology, which provides eight field-configurable methods to disconnect. In both alternatives, the Fuzion technology ensures no tension effects on the tubing string during disconnection, which prevents impact and preserves the system integrity downhole.

## Applications

- Production optimization using technologies that require periodic maintenance or replacement at different times during the life of the well
  - Recovery of upper completion without removing the intelligent completion components
  - Safety valve or electric submersible pump (ESP) replacement
- Dual-trip completions for well-control scenarios
  - Capability to complete long openhole horizontal and multizone wells
  - Ensure formation isolation during workovers
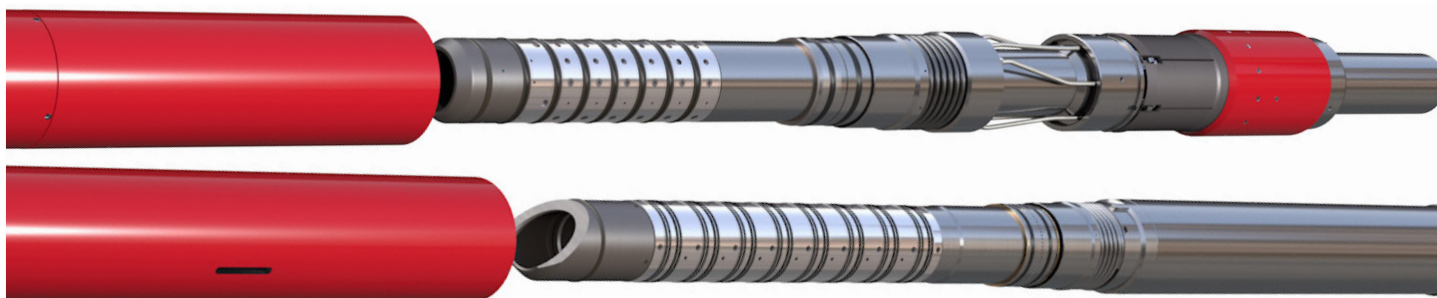- Commingled zones with regulatory requirements

Fuzion®-EH wet-mate connector

HCT1768-013
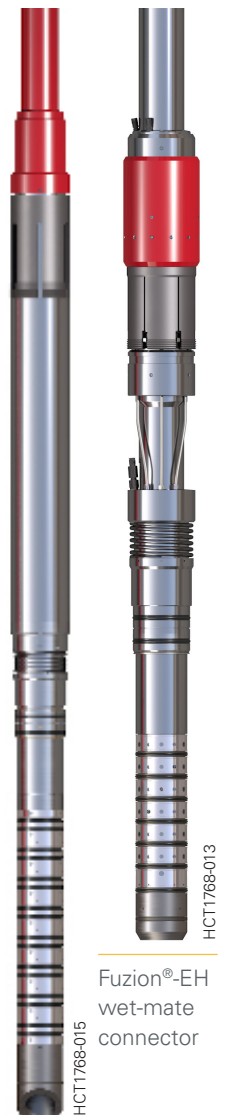
Fuzion®-H wet-mate connector

HCT1768-015

# Fuzion® suite configurations

Tailored to include the required number of electric and/or hydraulic lines for all SmartWell® intelligent completion systems, Fuzion suite connectors are available in the following variants:

- **Fuzion®-H hydraulic downhole wet-mate connector**
  Facilitates reliable disconnection and reconnection to ensure SmartWell® hydraulic system functionality pre- and post workover. Flexible and robust through the life of well, enables safe plug and abandonment (P&A) control line isolation.

- **Fuzion®-EH electro-hydraulic downhole wet-mate connector**
  Features a uniques proprietary concentric design to provide both hydraulic and electric connectivity to your SmartWell® completion system pre- and post workover. No pins, not orientation, just smart reliability.

- **Fuzion®-E electric downhole wet-mate connector**
  Features the same robust concentric design, providing life of well control of your SmartWell® Volta all-electric control system and/or DataSphere® permanent monitoring suite. Downhole data and control that meets the challenges of tomorrow's completion expectations.

- **Fuzion®-L electro-hydraulic/electricdownhole wet-mate connector**
  Integrates an ingenious, field-proven inductive coupler design that enables wireless electrical power and communication for electro-hydraulic or electric SmartWell® system applications.

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