



Optimize reservoir performance with data-driven insights from the industry's only field proven downhole fiber-optic wet-mate system

SureCONNECT FE downhole fiber-optic/electric wet-mate system

SureCONNECT™ FE transforms the way real-time well data is accessed in multi-trip completions by providing a unique fiber-optic and/or electrical solution that connects the lower and upper completion.

With the SureCONNECT FE system as part of their completion design, operators leverage data-driven insights to optimize reservoir performance, enhance understanding, and maximize production—all while significantly reducing workover time and operational risks.

This new system is part of Baker Hughes next generation of SureCONNECT downhole intelligent wet-mate systems. Since introducing the first SureCONNECT in 1998, we've amassed industry-leading experience with fiber-optic and electrical wet connects globally. With product enhancements in key areas and a design tailored to specific conditions, the SureCONNECT FE system helps advance well performance, reliability, and longevity.

INTELLIGENT CONNECTION

SureCONNECT FE system allow operators to implement, for the first time, fiber-optic monitoring, electronic monitoring, and electric intelligent completion systems—seamlessly and throughout the entire wellbore.

Whether using gravel or frac pack, standalone screens or other completion techniques, operators can get real-time downhole data and remote flow control in the sandface from a simpler, easier-to-deploy surveillance solution.

AVOID COSTLY WORKOVERS

Performing service work in traditional, one-trip intelligent completion systems often requires costly, time-consuming workovers.

The SureCONNECT FE system enables servicing or reconfiguring of the upper completion without retrieving the lower completion. This allows control lines and sensors to remain in place within the lower completion, saving time and resources by eliminating the need to retrieve the entire completion and run a new assembly.

TAP INTO EXPERT SERVICE SUPPORT

In addition to downhole and service tools, the SureCONNECT FE system is backed by the support of Baker Hughes application experts, who provide:

- Engineering services for completion planning and execution

APPLICATIONS

- Extended-reach or complex trajectory wells
- Perforated liners
- Standalone screens
- Gravel packs
- Frac packs
- Offshore, subsea, and other challenging designs

BENEFITS

- Supports electric and fiber lines for full wellbore monitoring and control
- Enables real-time, DAS/DTS/DSS monitoring at the sandface without an intervention
- Allows for workovers without retrieving the lower completion
- Enables decisions based on hard data, not speculation, to save time and money
- Provides options for deploying an electric intelligent completion system in the lower completion

- Highly trained personnel for completion equipment makeup and deployment
- Fiber-optics and well-monitoring data visualization and interpretation through SureSTREAM™
- Production and injection optimization through GaffneyCline™ energy advisory

Contact your local Baker Hughes representative to learn how the SureCONNECT FE downhole fiber-optic/electric wet-mate system can deliver real-time downhole surveillance and control without the costs and complexity of multiple trips.

TECHNICAL SPECIFICATIONS

Performance parameter	Upper reconnect tool	Lower wet connect packer
Product size	9 5/8" x 4 1/2"	
API IID1 validation grade	N/A	V0
Minimum material yield	80 KSI	
Tubing connection (thread up)	4.500 in premium thread	N/A
Tubing connection (thread down)	N/A	4.500 in premium thread
Minimum I.D.	3.875 in	4.875 in
Maximum O.D.	8.310 in	8.320 in
Temperature	45°F to 275°F	
Differential pressure	7,500 psi	10,000 psi
Maximum tensile rating	N/A	400,000 lbs
Maximum compression rating	N/A	250,000 lbs
Set down weight to connect	5,000 to 10,000 lbs	N/A
Shear ring (commit value)	35,000 lbs	N/A
Retrieval method	Pull to release	Shift to release
Shear release (release value)	Adjustable: 50,000-100,000 lbs	N/A
Packing element	N/A	HNBR
Elastomers	Viton – HNBR (or as ordered)	HNBR
Tool length	27.25 ft	9.75 ft
Wet mate connectors	1ea. x fiber-optics (4 SM and 2MM fibers) 1ea. x electric (up to 3 conductors)	



SureCONNECT™ FE

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Real-time. Reliable. Results.