

# Intellitite

## Downhole dual-seal dry-mate connector

### APPLICATIONS

- Electrical-cable splicing
- Optical-cable splicing
- Permanent-gauge cable heads for WellWatcher\* permanent monitoring systems
- Multiple-gauge instrumentation systems for intelligent completions

### ADVANTAGES

- Ability to multidrop several gauges without compromising system integrity
- High reliability of permanent monitoring systems even in demanding environments
- Truly redundant sealing or fully welded systems that eliminate risk of fluid ingress into instrumentation cable
- Cable anchoring device for high resistance to axial loads
- High tolerance to vibrations and shocks during installation and operation
- Suitability for sour service

The Intellitite\* downhole dual-seal dry-mate connector is the latest-generation connector for downhole monitoring systems. This premium connector maximizes monitoring system reliability throughout the life of a well, even in the harshest conditions.

### Extensive track record of reliability

In monitoring systems that use the traditional compression fittings, failures can occur at the gauge cable head over time as a result of microleaks and fluid. With the introduction of Intellitite connectors in 2004, this potential problem was eliminated, further enhancing the reliability of WellWatcher permanent monitoring systems. Intellitite connector technology has been field proven, as shown by an extensive track record.

### Minimized number of connectors

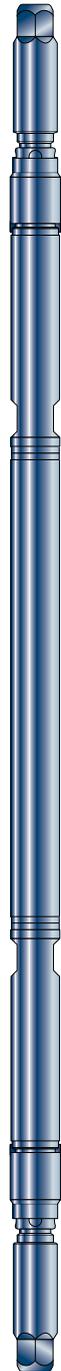
The Intellitite connector uses advanced technology and deployment techniques for connections, such as inline cable splices and gauge cable heads used with WellWatcher permanent monitoring systems. Multigauge systems with Y, T, or W connections are based on a compact welded block design that minimizes the number of connectors. This reduction in number further improves system reliability and reduces deployment and rig time.

### Nonwelded and welded sealing options

Intellitite connectors are available in nonwelded (R) and welded (W) designs. The nonwelded connector incorporates independent, truly redundant metal-to-metal seals and a cable-anchoring device to isolate the seal from any mechanical loading. During installation, seals are independently tested using a microleak detection system. The welded design eliminates any possible leak path and preserves the integrity of the instrument cable.

### Intellitite Connector Specifications

W inline splice, mm [in]	19.1 [0.750] OD × 406.4 [16] length
R inline splice, mm [in]	19.1 [0.750] OD × 533.4 [21] length 21.3 [0.840] OD × 533.4 [21] length
W cable head, mm [in]	19.1 [0.750] OD × 406.4 [16] length 31.8 [1.250] OD × 393.7 [15.5] length
R cable head, mm [in]	19.1 [0.750] OD × 431.8 [17] length 31.8 [1.250] OD × 431.8 [17] length
Pressure rating, kPa [psi]	172,369 [25,000]
Cable conduit, mm [in]	6.4 [0.250] Incoloy® 825
Temperature rating, degC [degF]	175 [347]
Corrosion resistance	Complies with NACE MR0175
Conductor type	Single or twisted pair
Electrical insulation	1 Gohm at 1,000 V DC
Assembly time	<2 h for connection configurations (inline splices; gauge cable head; and T, Y, and W connectors)



*Intellitite downhole dual-seal dry-mate connector.*

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