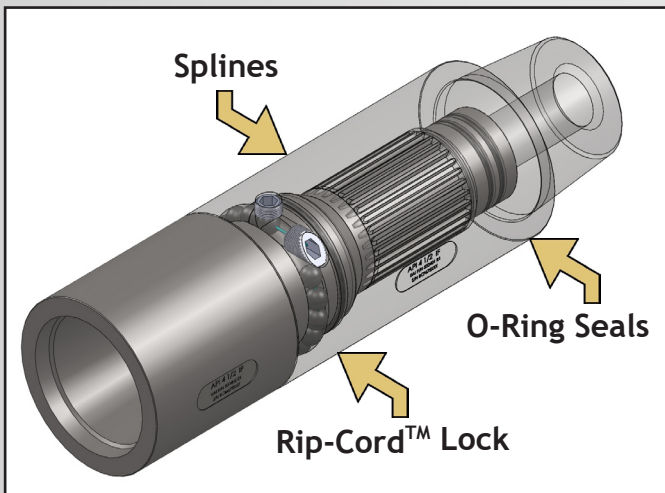



BI-TT Connector™
Quick Connect
Technology

Overview:

The BI-TT Connector is a specialized downhole sub that makes BHA assembly/disassembly faster and safer. The splined sub components transfer torque while the Rip-Cord™ bead string locks the assembly together.



Features:

- Single Allen wrench to assemble connection
- Hardened ball-bearings create locking mechanism
- Integrates seamlessly with standard BHA connections
- Minimal overall length

Applications:

- **Reduces BHA make-up/break-out time up to 80%**
- Only 1 person required for assembly/disassembly
- Safer than conventional make-up/break-out methods
- Can be used anywhere in the BHA to replace a traditional threaded connection

| | 2-1/8 in. | 2-7/8 in. | 6-3/4 in. |
|-----------------------------------|----------------------------------|-----------------|-----------------|
| Physical | | | |
| OD (in./mm) | 2.125 / 54.0 | 2.875 / 73.0 | 6.750 / 171.5 |
| ID (in./mm) | 0.65 / 16.5 | 1.062 / 27.0 | 2.000 / 50.8 |
| Material | 4140 Steel w/ QPQ Surface Finish | | 4140 Steel |
| Overall Length (in./mm) | 9.13 / 231.9 | 12.75 / 323.9 | 24.25 / 616.0 |
| Make-Up Length (in./mm) | 7.13 / 181.1 | 10.50 / 266.7 | 19.75 / 501.7 |
| Uphole Connection | 1.5 AMMT Box | 2-3/8 PAC Box | 4.5 IF Box |
| Downhole Connection | 1.5 AMMT Pin | 2-3/8 PAC Pin | 4.5 IF Pin |
| Mechanical | | | |
| Pressure (psi/bar) | 10,000 / 689 | 10,000 / 689 | 10,000 / 689 |
| Temperature (°C/°F) | 175 / 347 | 175 / 347 | 175 / 347 |
| Compression (lb _f /kN) | 30,000 / 133.4 | 60,000 / 266.9 | 830,000 / 3,692 |
| Tension (lb _f /kN) | 54,000 / 240.2 | 104,000 / 462.6 | 830,000 / 3,692 |
| Torque (ft•lb/Nm) | 3,500 / 4,745 | 10,000 / 13,558 | 31,000 / 42,030 |

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