



# TRACK RECORD

## CM2000 Wet-Mate Connectors

- Total number of CM2000 connectors sold (as of June 2015): 3,977
- The estimated number of CM2000's installed and in operation: 3,438
- Initial year of connector supply: 1997
- Total number of customers: >62

• **Range of connectors versus contact sizes:**

Contact Size	Number of Contacts	Quantity Sold
2mm	1, 2, 4, 6, 7, 8, 12, 16, 19	2,549
2mm HP	1	54
3mm	4, 8, 12, 16	1,622
6mm	1, 4, 12	196
8mm	3	4
12mm	4	2

• **Actual connector applications:**

Actual Connector Applications		
Drilling Programs	Defense	Production Control Systems
Production Risers	WSQ-9 Navy Sonar	MUX Systems
FPSO's	Mine Countermeasures	BOP Control Systems
Instrumentation	Deepwater Cutting Machines	ROV's
Oceanographic	Cathodic Protection	Marine Renewables
Marine Survey	Subsea Mining	Workover Control Systems

• **Subsea and operation list:**

Year	Estimated Quantity of Connectors Installed Subsea
1997 to 2002	721
2003 to 2005	1,029
2006 to 2008	262
2009 to 2011	555
2012 to Current	871
<b>Total Connectors</b>	<b>3,438</b>
<b>Total Contacts</b>	<b>43,701</b>

• **Mean Time Between Failure (MTBF)**

A single-sided chi-squared analysis yields the following actual Mean Time Between Failure (MTBF) reliability information:

- Over 3,438 connectors in operation around the world
- Accumulated subsea operating time in excess of 190 million hours
- Subsea MTBF of better than 41 million hours with a 99% confidence level

Within these 3,438 connectors in operation around the world, there is a total of 43,701 individual plug or socket contacts with accumulated operating time in excess of 2,476 million contact hours.

