



TRACK RECORD

HYDRALIGHT Optical Wet-Mate Connectors

- Total number of **HYDRALIGHT** connectors sold (as of June 2015): 5,918
- The estimated number of **HYDRALIGHT**'s installed and in operation: 4,718
- Initial year of connector supply: 2000
- Total number of customers: >29

• **Subsea and operation list:**

Year	Estimated Quantity of Connectors Installed Subsea
2000 to 2002	80
2003 to 2005	307
2006 to 2008	1,070
2009 to 2011	885
2012 to Current	2,376
Total Connectors	4,718

• **Actual connector applications:**

Actual Connector Applications		
Production Control Systems	Defense	Buoy Systems
Workover Control Systems	Oceanographic	MUX Systems
Instrumentation	Seabed Seismic	Marine Renewables

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

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

- Over 4,718 connectors installed/operating in over 55 Fields/Projects
 - Over 202 Million Accumulated Operating Hours
 - MTBF of >87 Million Hours based on 202 Accumulated Operating Hours & Zero Known Subsea Failures using a X² Distribution with a 90% Confidence Level Over
- As an academic exercise assuming 1 subsea failure, the MTBF figures would be impacted as follows:
- Subsea MTBF of better than 30 million hours with a 99% confidence level

