OOI Coastal & Global Scale Nodes (CGSN)

> 2500 Cables and Wiring Harnesses

Matthew Palanza Woods Hole Oceanographic Institution



Problems

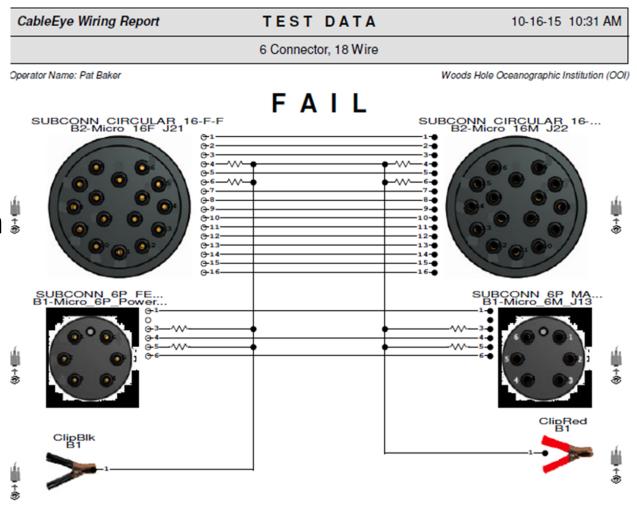
- Environment
- Cost of Failure: Very High
- Refurb 1-2 Times / Year
- Predict End of Life
- Quicker Integration of Complex Systems

)
	Coastal Surface Buoy
- Contraction of the second	45 degree Universal Joint
	5 m EM 3/4" Mooring Chain
	Instrument Frame
	7/16" 3x19 EM Cable
7	Hose Interface Buoyancy
	EM Stretch Hose
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	EM Stretch Hose
Ţ	Hose Interface Buoyancy
	EM Stretch Hose Hose Interface Buoyancy
Ţ	EM Stretch Hose
	Em Suelun nuse 45 degree Universal Joint
<u><u></u></u>	
	MFN with AUV Connection 5000 lb Steinless Steel Anchor



Description

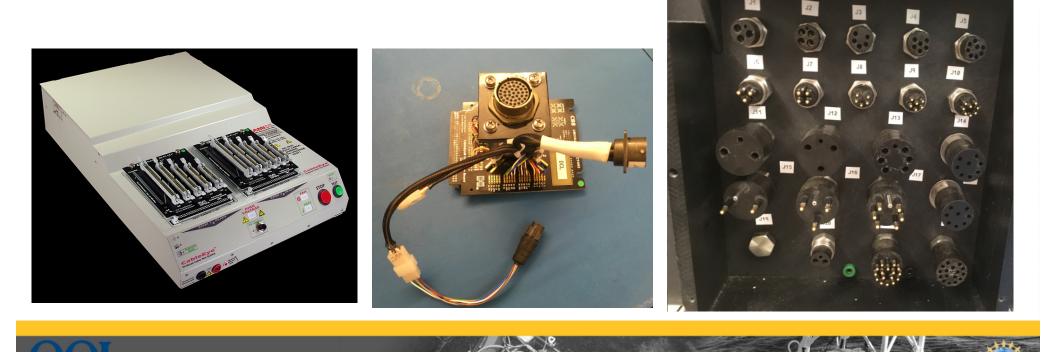
- Incoming Inspections
- Insulation Breakdown \$
- Failed Potting
- Mating Cycles
- Ground Faults
- Material Mismatches





Solution

- Commercially Available Test Equipment
- Customize Interfaces



Lessons Learned / Best Practices

- Ensure Quality
- Track History
- Data Analysis
- Rapidly Verify Go / No-Go
 - Possibly on Ship
- Rapidly Verify Faults

