

# Electrical Technologies Panel

Summer Panel Meeting  
August 13-14, 2025

Manchester, NH

# Agenda

Day 1 – Wednesday, 8/13/2025

Time	Presentation	Speaker
7:30 am	Continental Breakfast	
<b>8:00 am</b>	<b>Convene Meeting – Begin Webinar</b>	
8:00 am	Welcome and Introductions	Jason Farmer, Electrical Technologies Panel Chair
8:15 am	NSRP Update	Lydia Szydlo, ATI
8:30 am	Advances and Evolution in Shipboard Cable Applications, Designs, and Manufacturing Processes	Bruce Sinnott, Marmon Aerospace and Defense
9:30 am	Fiber Optic Cables Enhancements	Gio Tomasi, RSL Fiber Systems
10:00 am	15kV MIL-SPEC Cable Development for U.S. Navy Ships	Greg Keyes, Ingalls Shipbuilding Bruce Sinnott, Marmon Aerospace and Defense
10:30 am	NAVSEA 05Z33 Update	Chris Nemarich, NAVSEA 05Z33
11:30 am	The Need for Fatigue Mitigation Lighting <a href="#">in</a> Naval Industrial Facilities	Dr. Eliza Van Reen, CPS
12:00 pm	Lunch	
1:00 pm	Panel Project White Paper Presentations	Project Teams
4:30 pm	Review Action Items	Walt Skalniak, ET Panel Vice-Chair
<b>5:00 pm</b>	Adjourn	

\* Times listed are Eastern Time Zone

# Agenda

Day 2 – Thursday, 8/14/2025

Time	Presentation	Speaker
7:30 am	Continental Breakfast	
7:45 am	Tour of Marmon Aerospace & Defense Cable Manufacturing Facilities** <i>**Must be pre-registered</i>	Bruce Sinnott, Marmon Aerospace & Defense
12:00 pm	Lunch	All
1:00 pm	Convene Meeting – Begin Webinar	
1:00 pm	Navy Fiber Optic Specs and Standards Update	Chris Good, Brandon Nelson, NSWC Dahlgren Division
1:30 pm	Distributed Temperature Sensing (DTS) Integration into Ship Electrical Plants	Gio Tomasi, RSL Fiber Systems
2:00 pm	Fiber Optic Test Enhancement for Cost Reduction	Dan Morris, KITCO Fiber Optics
2:30 pm	Rollable Ribbon Fiber Qualification Progress	Bruce Sinnott, Marmon Aerospace and Defense
3:00 pm	Innovative SSL (LED) Technical Lighting Solutions for Navy and Coast Guard	Fabas Luce
3:30 pm	High Density Blown Optical Fiber Cable and Tooling for Shipboard Installations Qualification	Adair Brown, Sumitomo Electric
4:00 pm	For the Good of the Panel/Open Discussion	All
4:30 pm	Review Action Items / Closing Remarks	Walt Skalniak, ET Panel Vice-Chair
5:00 pm	Adjourn	

\* Times listed are Eastern Time Zone

# Electrical Technologies Panel

## Purpose

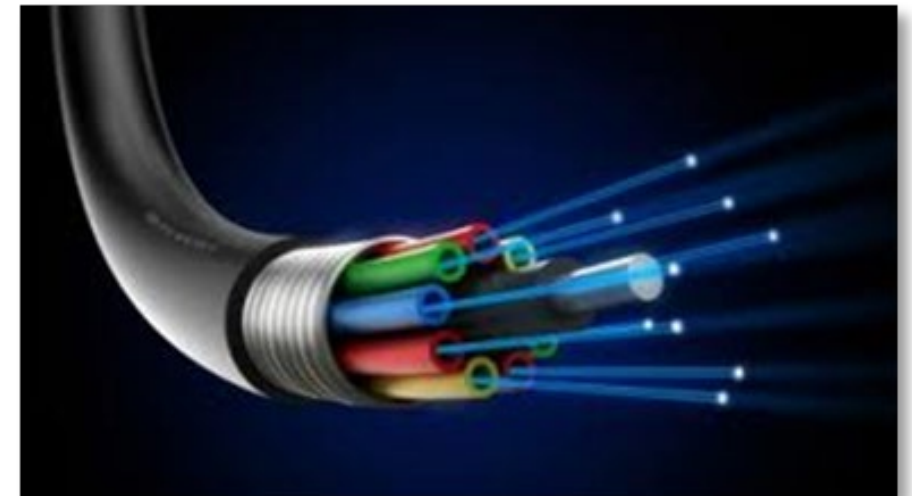
- Evaluate & transition improved electrical system technologies, installation processes, and electrical system specifications.
- Facilitate collaboration with the Navy and industry to identify & implement electrical technologies, processes, and best practices.

## Goal

- The goal of the Electrical Technologies Panel is to improve shipboard electrical systems and installation processes to achieve reduced cost, improved performance, and improved safety.

**Focus Areas:** The panel's focus is to identify and implement technologies and processes that improve:

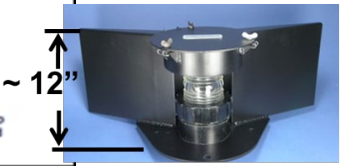
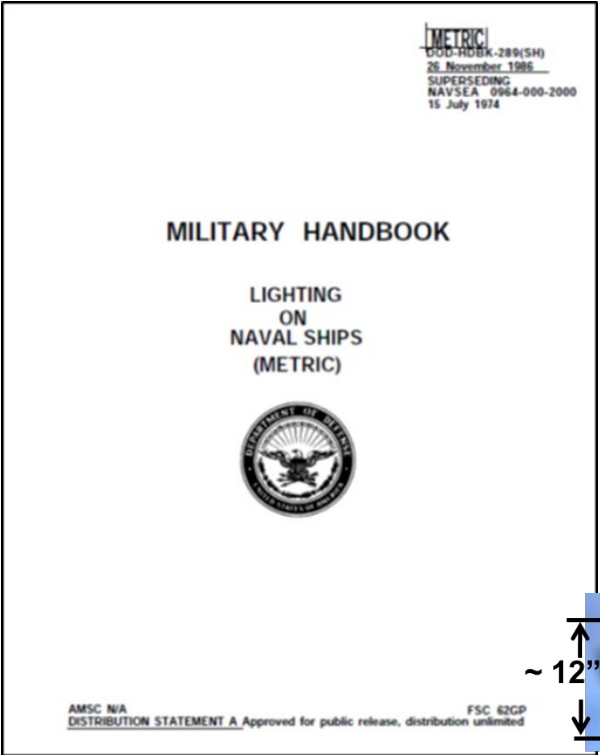
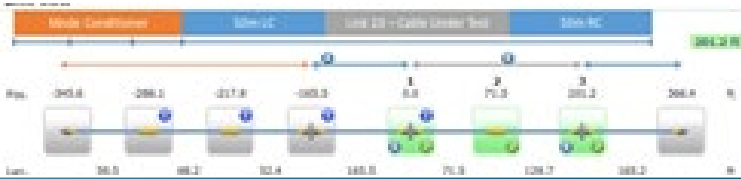
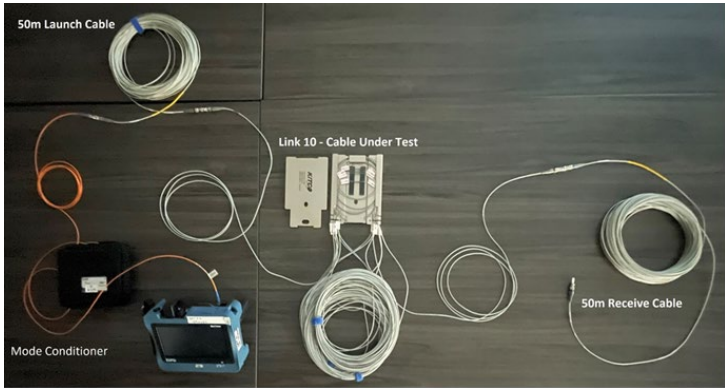
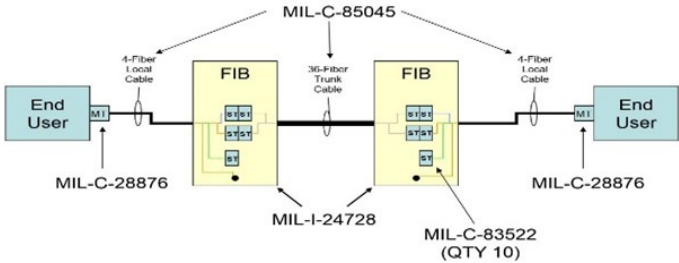
- Total Ownership Cost
- Energy Efficiency
- Electrical System Performance
- Safety of Workforce and Ship's Crew



# Panel Projects

- Fiber Optic Testing Enhancement for Cost Reduction
- DOD-HDBK-289 Modernization Support

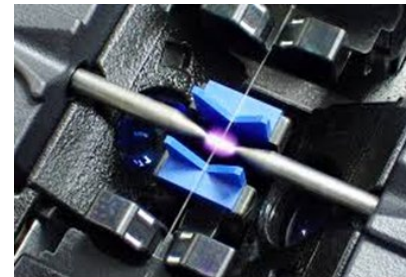
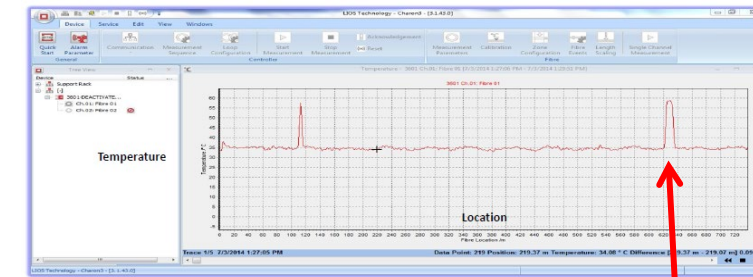
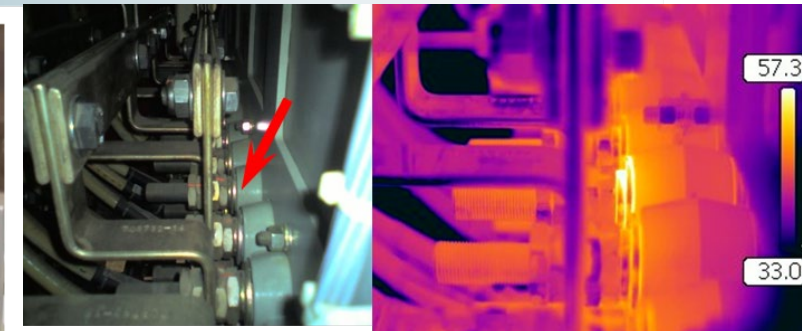
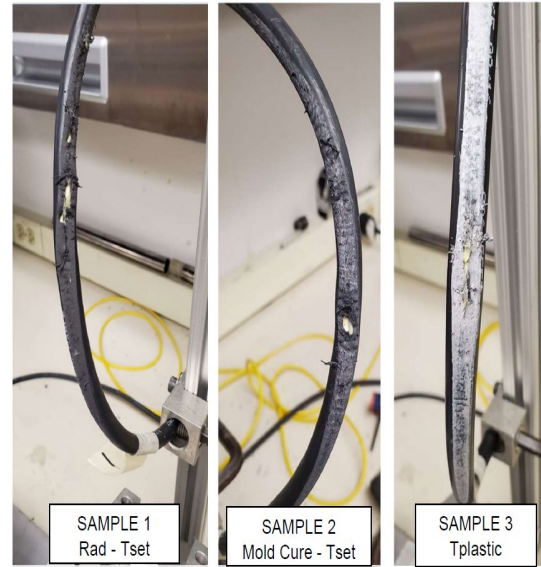
Source Launching Conditions	Source Type	Input Beam	Fiber	Output Beam
Overfilled (LED)				
Slightly under-filled (ideal conditions)				
Under-filled (VCSEL)				





# Panel Projects

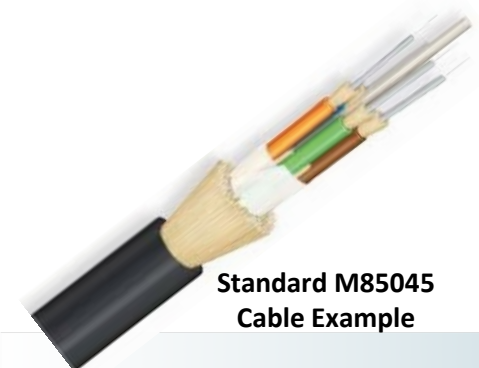
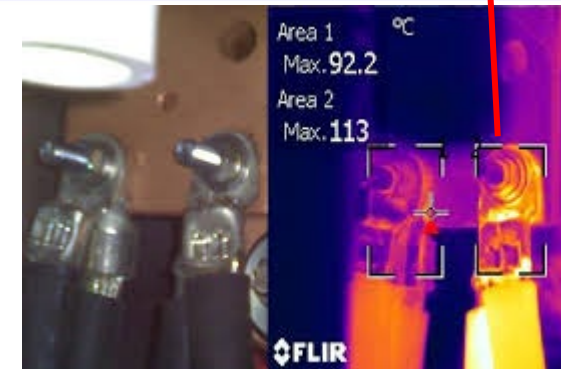
- DTS Integration Into Ship Electrical Plant Monitoring & Controls
- High-Density Ribbon Fiber Optic Cable & Tooling
- Shipboard Fiber Optic Cables Design Enhancements  
(Joint Project with SWSI)
- 15kV MIL-SPEC Cable Development



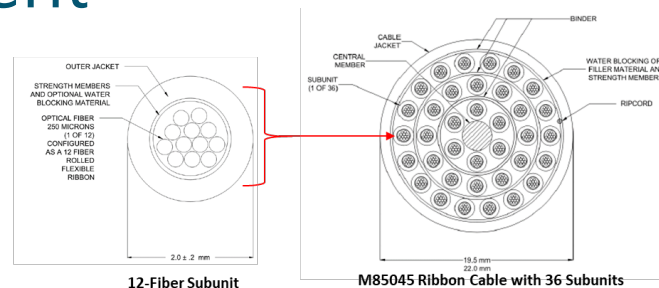
Fusion Splicer  
Individual Fiber



Fusion Splicer  
Ribbon Fiber



Standard M85045  
Cable Example



M85045 Ribbon Cable Example

# Questions?

# Agenda

Day 1 – Wednesday, 8/13/2025

Time	Presentation	Speaker
7:30 am	Continental Breakfast	
8:00 am	<b>Convene Meeting – Begin Webinar</b>	
8:00 am	Welcome and Introductions	Jason Farmer, Electrical Technologies Panel Chair
8:15 am	NSRP Update	Lydia Szydlo, ATI
8:30 am	Advances and Evolution in Shipboard Cable Applications, Designs, and Manufacturing Processes	Bruce Sinnott, Marmon Aerospace and Defense
9:30 am	Fiber Optic Cables Enhancements	Gio Tomasi, RSL Fiber Systems
10:00 am	15kV MIL-SPEC Cable Development for U.S. Navy Ships	Greg Keyes, Ingalls Shipbuilding Bruce Sinnott, Marmon Aerospace and Defense
10:30 am	NAVSEA 05Z33 Update	Chris Nemarich, NAVSEA 05Z33
11:30 am	The Need for Fatigue Mitigation Lighting <a href="#">in</a> Naval Industrial Facilities	Dr. Eliza Van Reen, CPS
12:00 pm	Lunch	
1:00 pm	Panel Project White Paper Presentations	Project Teams
4:30 pm	Review Action Items	Walt Skalniak, ET Panel Vice-Chair
5:00 pm	Adjourn	

\* Times listed are Eastern Time Zone



# Agenda

Day 2 – Thursday, 8/14/2025

Time	Presentation	Speaker
7:30 am	Continental Breakfast	
7:45 am	Tour of Marmon Aerospace & Defense Cable Manufacturing Facilities** <i>**Must be pre-registered</i>	Bruce Sinnott, Marmon Aerospace & Defense
12:00 pm	Lunch	All
1:00 pm	Convene Meeting – Begin Webinar	
1:00 pm	Navy Fiber Optic Specs and Standards Update	Chris Good, Brandon Nelson, NSWC Dahlgren Division
1:30 pm	Distributed Temperature Sensing (DTS) Integration into Ship Electrical Plants	Gio Tomasi, RSL Fiber Systems
2:00 pm	Fiber Optic Test Enhancement for Cost Reduction	Dan Morris, KITCO Fiber Optics
2:30 pm	Rollable Ribbon Fiber Qualification Progress	Bruce Sinnott, Marmon Aerospace and Defense
3:00 pm	Innovative SSL (LED) Technical Lighting Solutions for Navy and Coast Guard	Fabas Luce
3:30 pm	High Density Blown Optical Fiber Cable and Tooling for Shipboard Installations Qualification	Adair Brown, Sumitomo Electric
4:00 pm	For the Good of the Panel/Open Discussion	All
4:30 pm	Review Action Items / Closing Remarks	Walt Skalniak, ET Panel Vice-Chair
5:00 pm	Adjourn	

\* Times listed are Eastern Time Zone