# LUMI·LINK™ SUPRA BRIDGE
## Installation Guide

*Please read the following pages before attempting installation to ensure complete understanding of the LUMISHORE Lumi-Link SUPRA Bridge*



## PARTS INCLUDED



*1 x FIELD INSTALL RJ45 IP67 COVER KIT*
*(39-0235)*

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45-0156 - Rev 2

# Lumi-Link SUPRA Bridge Installation Instructions

## Before you start...

- Always ensure that the vessel's power source and battery are disconnected or isolated prior to installation.

- A qualified professional should carry out both the electrical and mechanical installation.

- The SUPRA lighting system should be fully installed before connecting the Lumi-Link SUPRA Bridge.

- The Lumi-Link SUPRA Bridge must be mounted in a dry location and on a flat (not curved) surface away from any sources of heat or vibration

- The Lumi-Link SUPRA Bridge works with the Lumi-Link Display and or compatible Multi-function Displays (MFD). - check the compatibility of your MFD prior to installing the Lumi-Link SUPRA Bridge. The MFD may require a software update.

- The Lumi-Link SUPRA Bridge has an accessible SD card slot for future software upgrades. When mounting, future access to this SD card slot should be taken into consideration.

## Connection Options...

The Lumi-Link SUPRA Bridge is a cross platform device. Via ethernet, it can connect to a single or multiple MFD network, connect to a Lumishore Lumi-link display or be controlled by a smart Phone/tablet (via Wi-Fi).

Compatible MFD's include the following...

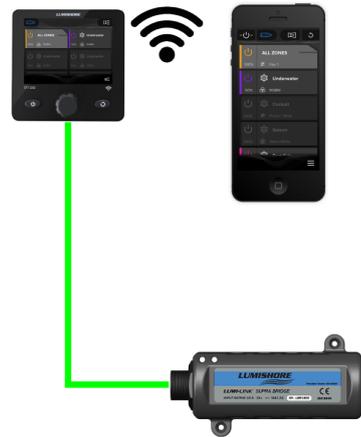| | |
|---|---|
| MFD COMPATABILITY | - Garmin (OneHelm Enabled)<br>- Raymarine - Axiom (Lighthouse Partner App)<br>- Navico - Simrad (NSO EVO3 and EVO2,<br>  NSS EVO3 and Go**), B&G (Zeus3 Glass Helm,<br>  Zeus3 and Vulcan)<br>- Furuno (Models TBC) |

The Lumi-link Display can be used if there are no MFD's on the vessel or if additional access points are required around the vessel. For full details of the Lumi-link Display see Lumi-Link Display installation instructions.

Via an on-board Wi-Fi network (either through the MFD Wi-Fi or through the Lumi-Link Display on-board Wi-Fi) the Lumi-link app can be controlled from a smart device. Full instructions for this are included in the Lumi-Link SUPRA Bridge user manual.
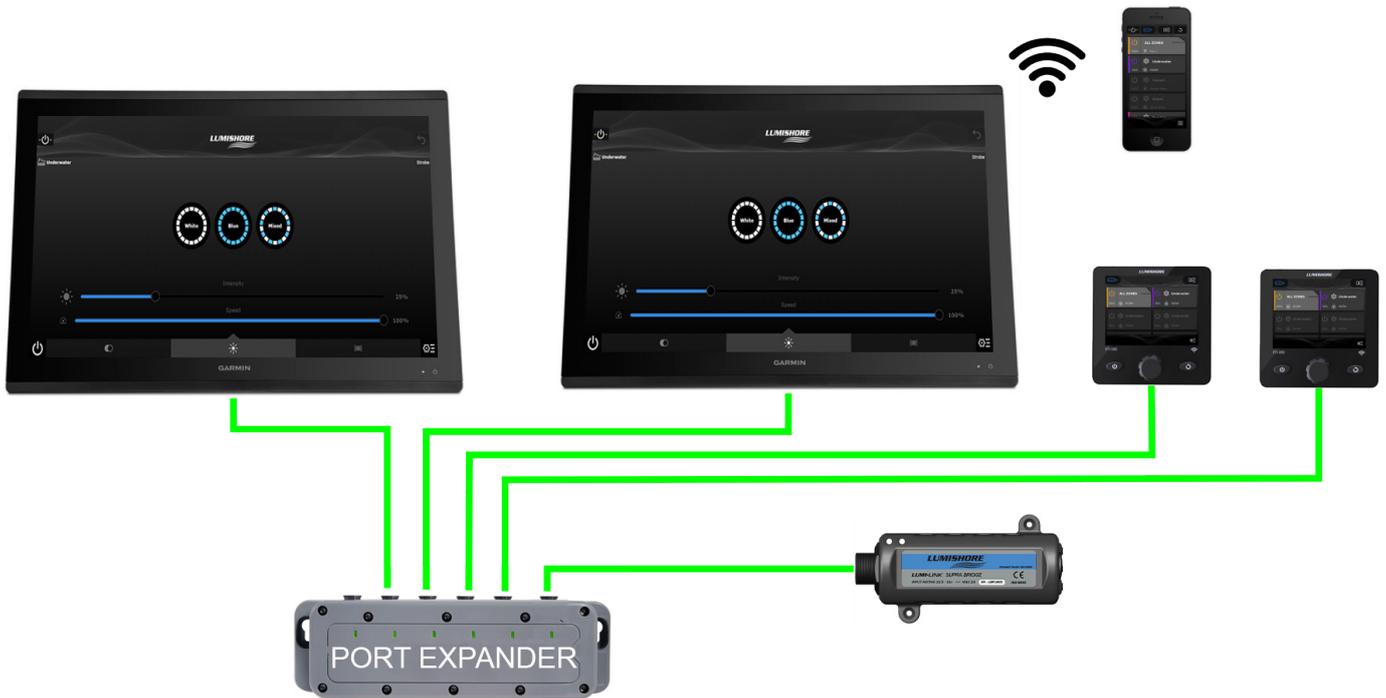
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## Single MFD Connection

## Lumi-Link Display Connection

## Multiple MFD Connection

PORT EXPANDER

**Note: use a MFD manufacturer specific Network expansion port - consult with your MFD installation guide or contact a dealer for further advice**

## Connecting the Lumi-Link SUPRA Bridge to the Lumi-Link Display or MFD

For direct connection to the Lumishore Lumi-Link Display any standard ethernet network cable can be used. Connection to the various brands of MFD's are brand specific. The following diagrams show the components required to connect the Lumi-Link SUPRA Bridge to each brand.

The length of network cable depends on where the Lumi-link SUPRA Bridge has been installed relative to the Display or MFD.  Each MFD manufacturer offers different lengths of network cable, check your installation length before ordering.

Lumishore supplies a Field install RJ45 IP67 cover to make your connections to the Lumi-Link SUPRA Bridge waterproof. The cover should be used on all installations. Note: The internal support may or may not be required depending on the type of Ethernet connector molding.

### Field install IP67 RJ45 Cover Assembly

*PLEASE REFER TO RJ45 IP67 ASSEMBLY INSTRUCTIONS SUPPLIED WITH RJ45 COVER KIT (39-0235)*

**Lumi-Link Display - Use standard Ethernet Cat5e cable**



Lumi-Link Display

Ethernet Cable - Cat5e

Field Install Rj45 Ip68 Cover

Lumi-link SUPRA Bridge
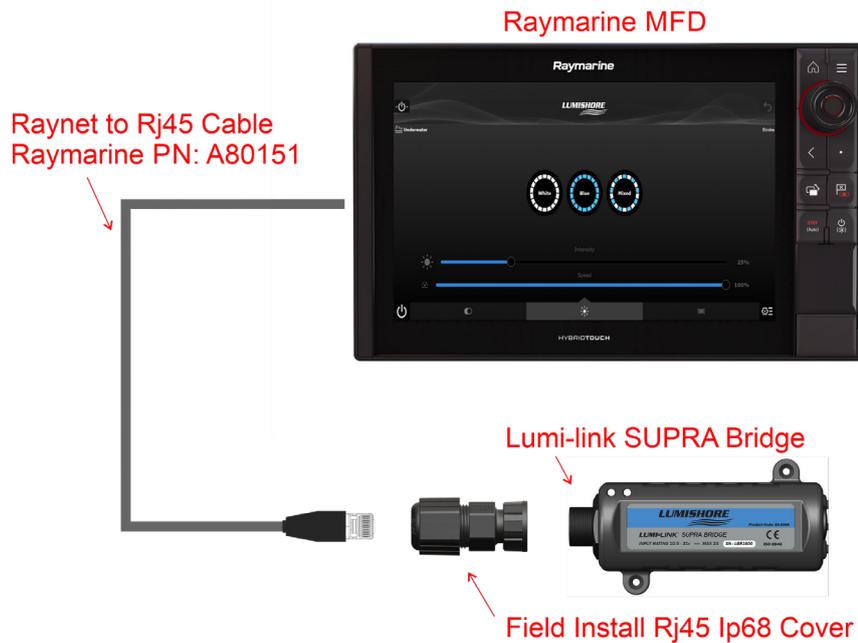
Field Install Rj45 Ip68 Cover

**Garmin MFD Install - Use Garmin Conversion Cable PN: 60-0372 and Garmin Network Cable.**

**(Note: The Garmin Conversion cable MUST be installed - only use Garmin network cables)**
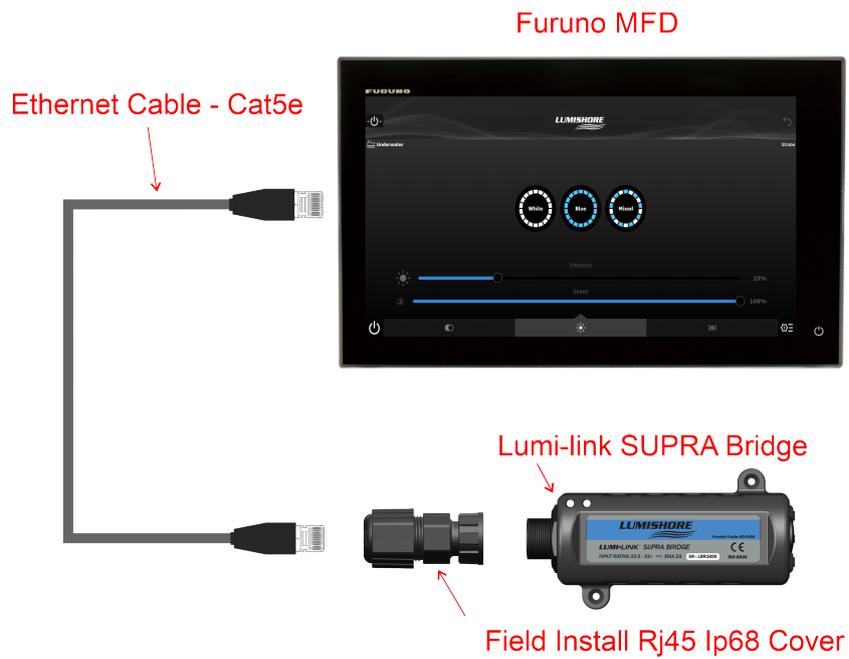
Garmin MFD

Garmin Network Cable
**Do not use any other type of Ethernet cable**

Lumi-link SUPRA Bridge

Garmin Conversion cable
PN:60-0372

Field Install Rj45 Ip68 Cover
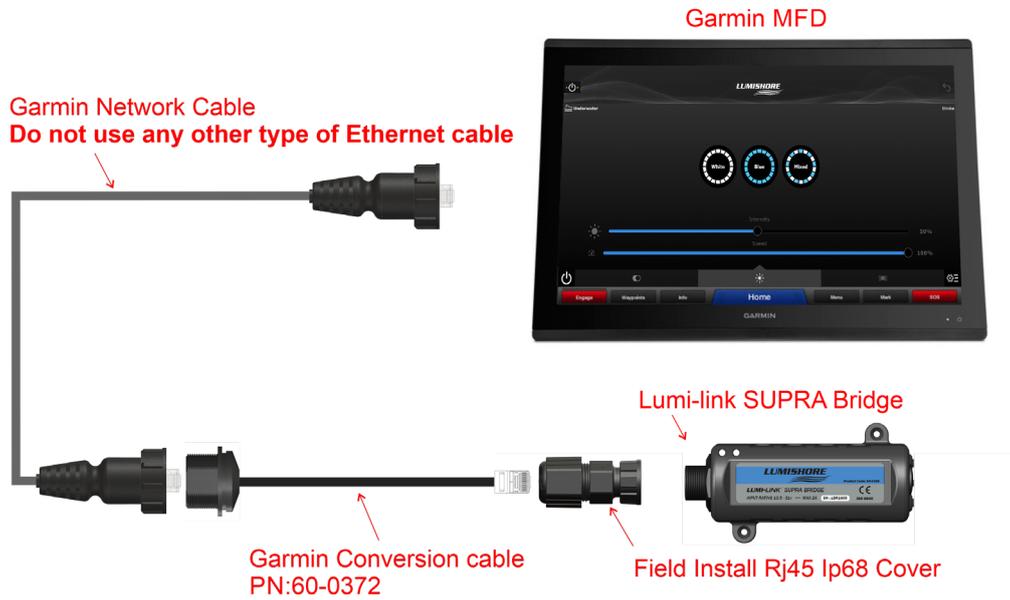
**Raymarine MFD Install - Use Raynet to RJ45 Cable - Raymarine PN: A80151**

Raymarine MFD

Raynet to Rj45 Cable
Raymarine PN: A80151

Lumi-link SUPRA Bridge

Field Install Rj45 Ip68 Cover

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## Simrad & B&G MFD Install - Use Navico Conversion Cable PN: 60-0373

Simrad / B&G MFD

Navico Network Cable
**Do not use any other type of Ethernet cable**

Lumi-link SUPRA Bridge

Navico Conversion cable
PN:60-0373

Field Install Rj45 Ip68 Cover
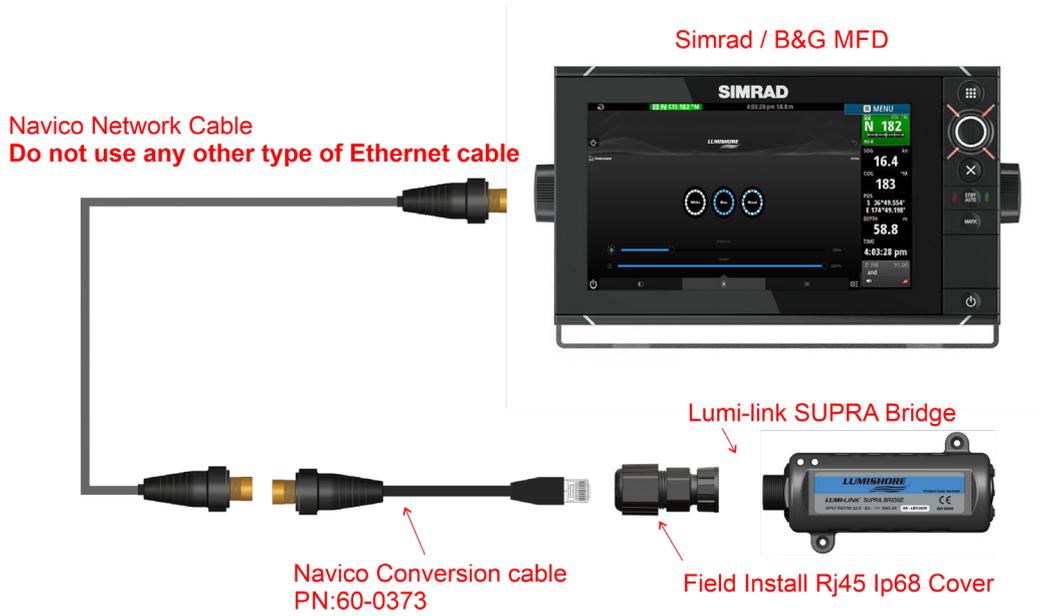
## Furuno MFD Install - Use Standard Ethernet Cat5e cable

Furuno MFD

Ethernet Cable - Cat5e

Lumi-link SUPRA Bridge

Field Install Rj45 Ip68 Cover

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## Lumi-Link SUPRA Bridge Connections

The SUPRA Bridge uses proprietary data messages to communicate between the lights and controller. The Lumi-Link SUPRA Bridge can only be used to control Lumishore SUPRA products.

The Lumi-Link SUPRA Bridge is plugged into the Data IN port on the SUPRA Hub (see example diagrams on the following pages) .

• The Lumi-Link SUPRA Bridge is for 12/24volt DC operation (10-31volt input). Under no circumstances should the Bridge be connected directly to Mains AC voltage.

• Always use a suitable fuse or circuit breaker to protect the Lumi-Link SUPRA Bridge and each element of the system.
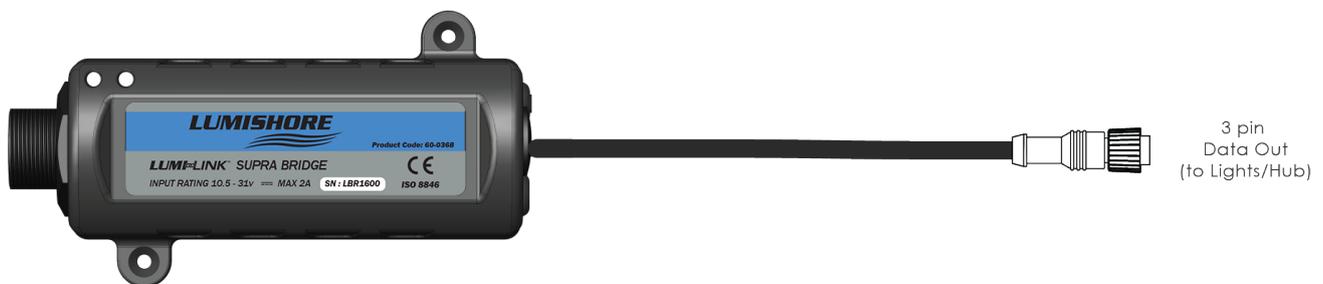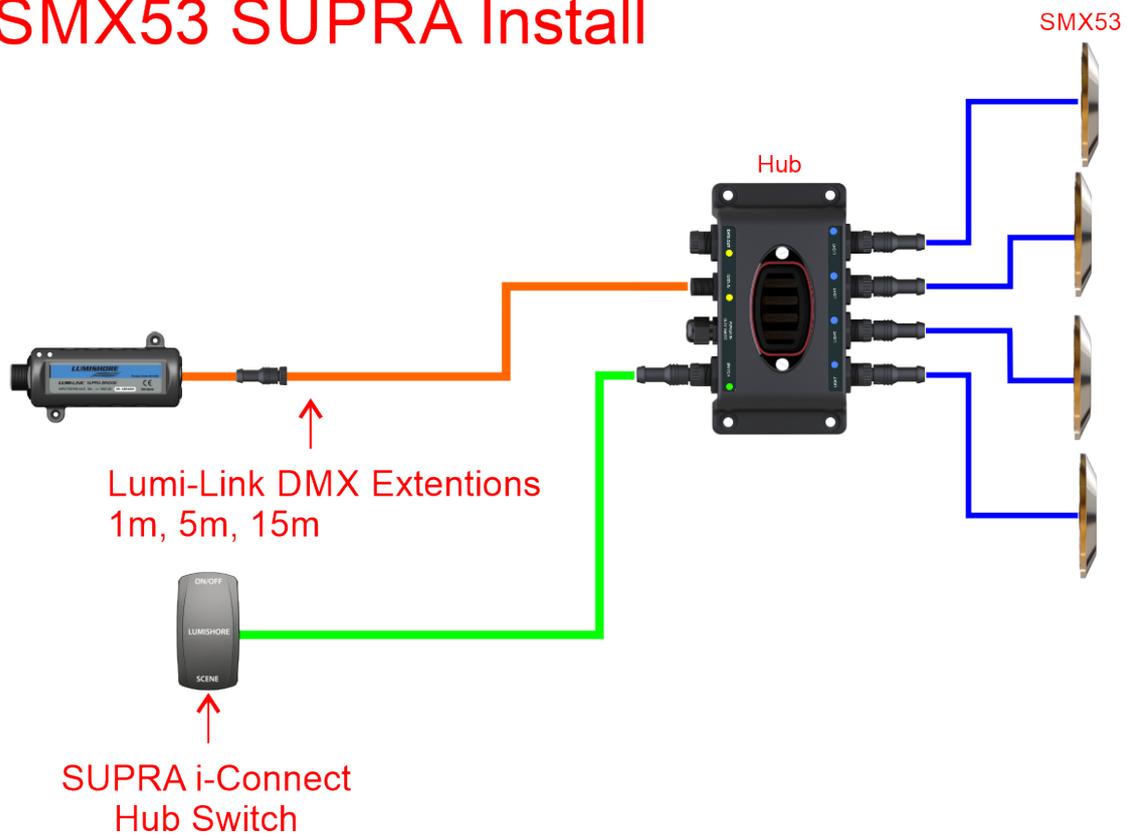


3 Pin M12 Lumi-Link Data out connector:

Plug the 3-Pin M12 Connector directly into the Data IN port of the SUPRA Hub. The cables can be extended using Lumi-Link extension cables.

Pre-molded Lumi-link DMX cables are available in 1 meter, 5 meter and 15 meter lengths as required. Multiple cables can be combined if a further distance is required.
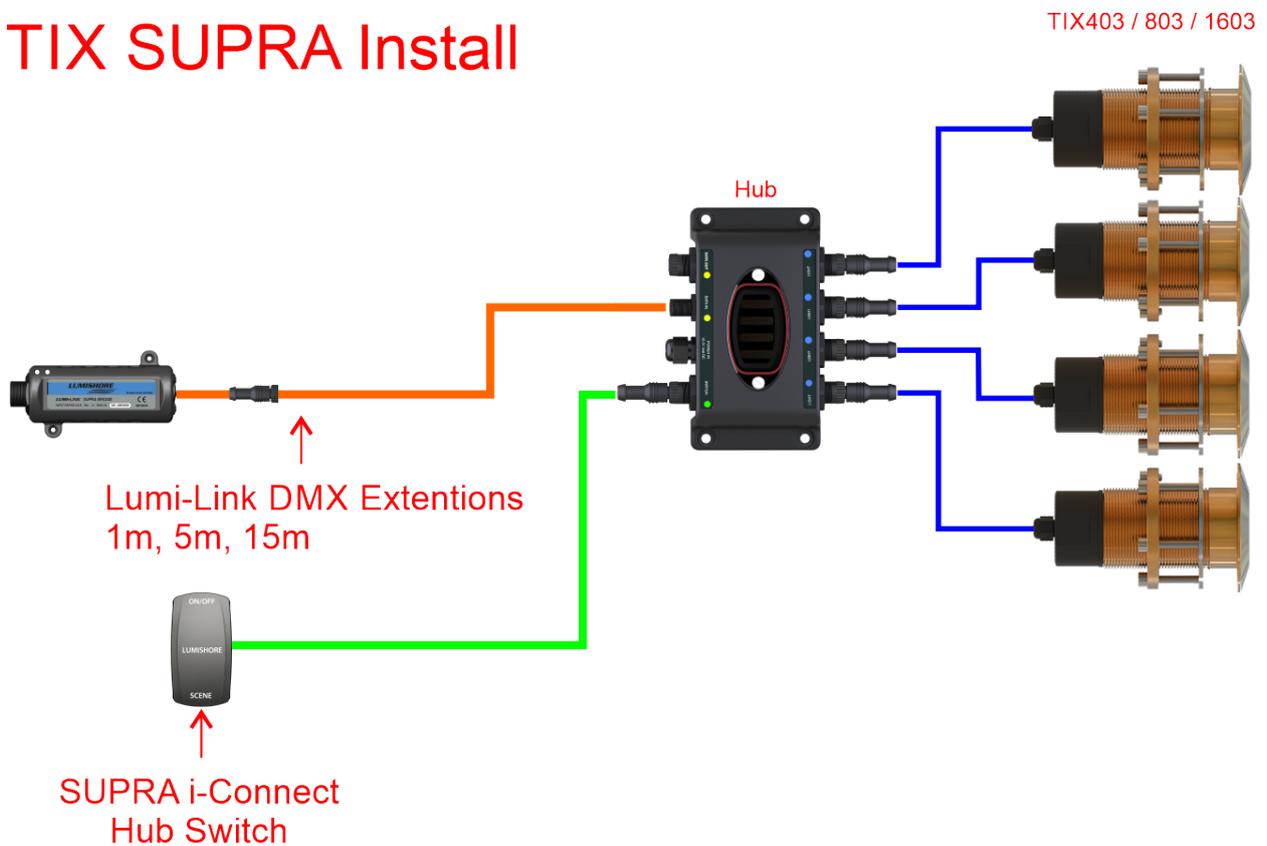
| LENGTH | PART NUMBER |
|--------|-------------|
| 1m | 60-0403 |
| 5m | 60-0404 |
| 15m | 60-0405 |

**SUPRA Underwater Light installation Example diagrams:**

# SMX53 SUPRA Install

SMX53

Hub

Lumi-Link DMX Extentions
1m, 5m, 15m

SUPRA i-Connect
Hub Switch

# TIX SUPRA Install

TIX403 / 803 / 1603

Hub

Lumi-Link DMX Extentions
1m, 5m, 15m

SUPRA i-Connect
Hub Switch

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**Lumi-Link SUPRA Bridge - Status LED's**

Data    Power

| LED Status | Power LED | Data LED |
|------------|-----------|----------|
| Solid ON | Healthy | Healthy - Data Being Received |
| OFF | No Power | No Power |
| Flashing | N/A | Healthy - Ready For Data |

If power to the Lumi-Link SUPRA Bridge is lost temporarily then the system may not fully function until you exit to the Home screen on the MFD, and then re-select the Lumi-Link Screen.

If there are multiple MFDs in use, and one of the MFDs is used to access a set-up mode (e.g. Light Set-Up), then the other MFDs will be locked out and will display a message. If this message is seen, exit to the home screen. Once the set-up is completed the system can be used as normal.

## Warranty

LUMISHORE Ltd warrants the **Lumi-Link SUPRA Bridge** to be free from defects in workmanship and materials for a period of two years, starting from the date of original purchase. Misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, installation by unqualified personnel, unauthorized repair or modification will void this warranty. For the avoidance of confusion and doubt, non-compliance with all installation, maintenance and operating instructions in this document constitute non-conformance with warranty terms.