

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

Stock#	Description
SBLC-CV4C-TP-AS	UPoE+ Constant Voltage SPICEbox (4-Channel)

## Description

The MechoNet™ UPoE+ Constant Voltage SPICEbox™ is an IoT interface designed to provide efficient power and control for lighting systems in a PoE network. It is compatible with IEEE 802.3bt Type 3 or Type 4 PoE Network Switches and can draw up to 90W\* of power under optimal conditions. It is equipped with two NuLINK ports, and supports up to 15 EIPs per unit, offering a versatile and reliable solution for diverse lighting applications.

**NOTE:** The maximum 90W power refers to optimal conditions with minimal PoE cable losses. The actual power may vary based on factors such as PoE cable length and device efficiency.

This versatile lighting solution can provide either RGBW or four channels of a single color to any environment. It can be easily paired with Wall Controllers, Ambient light, and PIR Motion sensors to create a fully customizable lighting system. With its exceptional performance and management capabilities, the SPICEbox™ ensures that your lighting needs are met with maximum efficiency.

The SPICEbox™ offers endless automation possibilities to optimize today's intelligent buildings and enhance the occupant experience. By utilizing CoAP (Constrained Application Protocol) messaging and MUD (Manufacturer Usage Description), the UPoE+ Constant Voltage SPICEbox™ provides unparalleled security in communication across building systems. It is the ultimate partner for Cisco's Smart Building Solutions and is engineered for occupant comfort, productivity, and wellness while simultaneously optimizing building performance and sustainability.



## Features

- Supports IEEE 802.3af, 802.3at, and 802.3bt
- Type 4 PoE Network Switches with LLDP (PoE, PoE+, UPoE, UPoE+ compliant)
- Single cable pull for power and communication
- Provides up to 90W of continuous power
- Provides 4-channel RGBW or single color lighting control
- Easy power and control of Wall Controllers, Ambient Light and PIR Motion Sensors using Cat5 cables
- The lighting system can be customized and managed for maximum system performance as needed
- Single network solution across the building
- Cisco DNA/Smart Building Solutions Partner - Employs CoAP (Constrained Application Protocol) messaging and MUD (Manufacturer Usage Description) for secure, open communication across sub-systems
- UL Listed, FCC Part 15 Class A and CE compliant

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

### Specifications

Equipment Kit		
MechoNet™ UPoE+ Constant Voltage SPICEbox™, Installation Guide		
Hardware		
Standby Power 4W		
Input Power 24VDC, Up to 90W (IEEE 802.3 af, 802.3 at, 802.3 bt)		
Input Voltage PoE 36-57VDC		
Output Voltage 24VDC		
Input One PoE Port Optional DC Power Input available (Not Standard)		
NuLINK™ Sensor Ports (Output) Two Serial Ports for EIPs Supports 15 unique sensors by Daisy Chain Sequence (No duplicate sensor type)		
Protocols NuSPICE™, CoAP		
Configuration 4 Channels (RGBW) or 4 Channels Single Color		
Control Interface NuLEDs™ NuPAC		
Continuous Load Up to 90 Watts, 22AWG Conductor Cable		
Maximum Load Wiring Length	Distance	Wires
	230 ft. (70m)	14AWG
	145 ft. (44m)	16AWG
	90 ft. (27m)	18AWG
Wiring (Power) CAT5e or CAT6 22 AWG Ethernet Cable - 328 ft. (100m) Max Network switch to SPICEbox™		
Mechanical		
Dimensions 6.5 in. (165mm) x 4.5 in. (114mm) x 1.5 in. (38mm)		
Weight 12 oz.		
Mounting Screw mounted flange, Surface or Stand-alone <b>Caution:</b> Please be aware that when mounting SPICEbox™ to metal surfaces or pockets, the gateway must be isolated from possible earth or building electrical grounding and other gateways.		
Dimming NuLEDs™ NuSPICE™		
Environmental		
Operating Temperature 32° to 104°F (0° to 40°C) ambient		
Humidity 10-80% Non-Condensing		
Agency Listings and Compliance		
UL Listed UL60950-1, FCC Class A Compliant, CE Compliant, RoHS		

### Mounting

Should be mounted to wood or drywall backing via mounting tabs.

**Caution:** Please be aware that when mounting SPICEbox™ to metal surfaces or pockets, the gateway must be isolated from possible earth or building electrical grounding and other gateways.



### Warning

- Caution** - Observe precautions for handling electrostatic sensitive devices.
- Case to the SPICEbox™ should not be earth grounded.
- Do not use outdoors.
- Warning** - Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet or damp surfaces.
- Use only with Class 2 Power Unit - 60VDC maximum.
- Conforms to UL60950-1, CE, FCC standards.
- Warranty** - Voided if device has been modified from its original configuration.

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

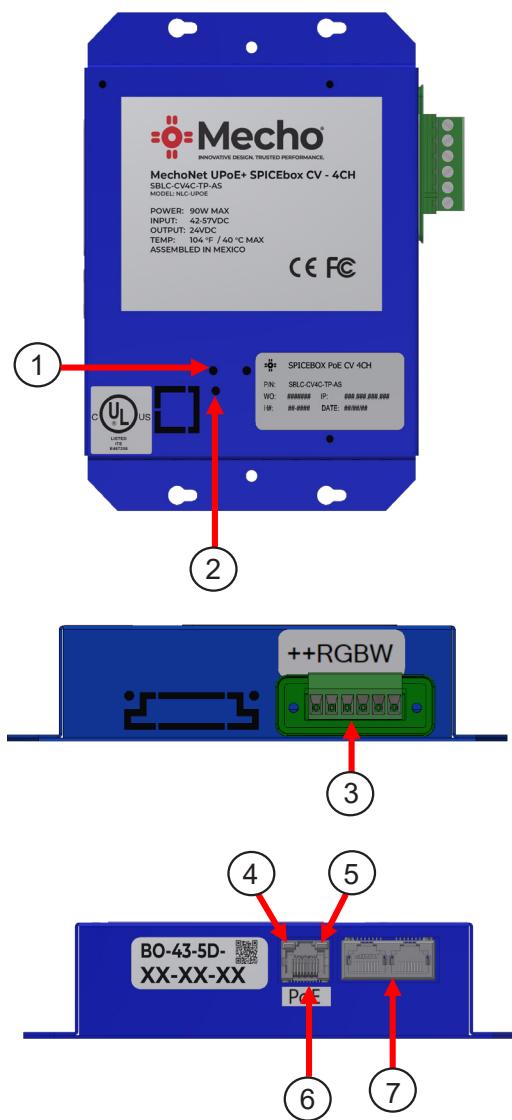
## Datasheet

### Dimensions



### Connections and Indicators

Supports both ANSI/TIA/EIA 568 A & B Standards

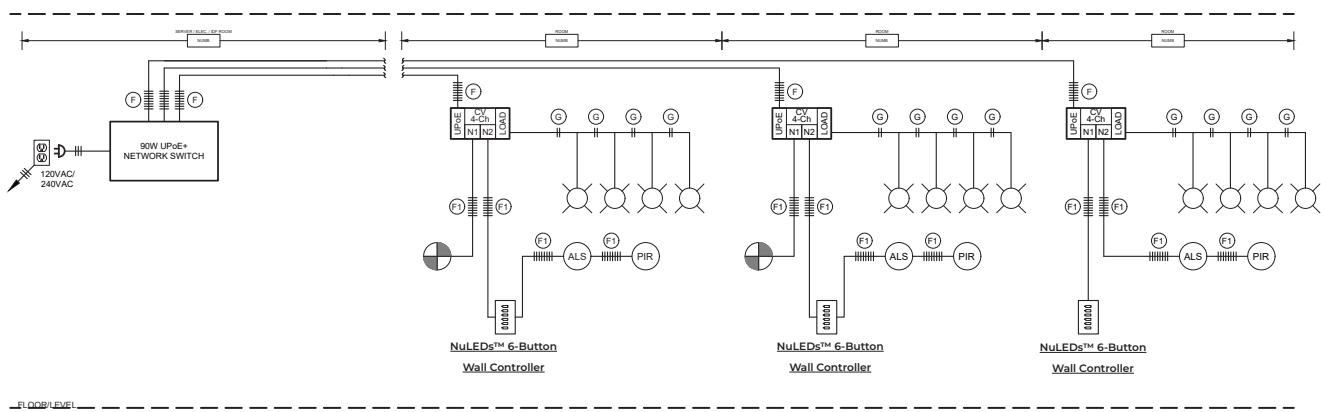


No.	Description	Function
1	Reset Button	Factory Reset
2	Power LED	Power Indication
3	Load Terminal Block	Constant Voltage Output Power to Lights
4	Ethernet Port Green LED	Function ON - Ethernet Active
5	Ethernet Port Amber LED	Network Traffic
6	Ethernet Port	Power and Data Input from PoE system
7	NuLINK Ports	Up to 15 EIP connections

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

### NuLINK™ Network Wiring Diagram



#### EQUIPMENT KEY FOR NuLEDs/NuLINK SYSTEM

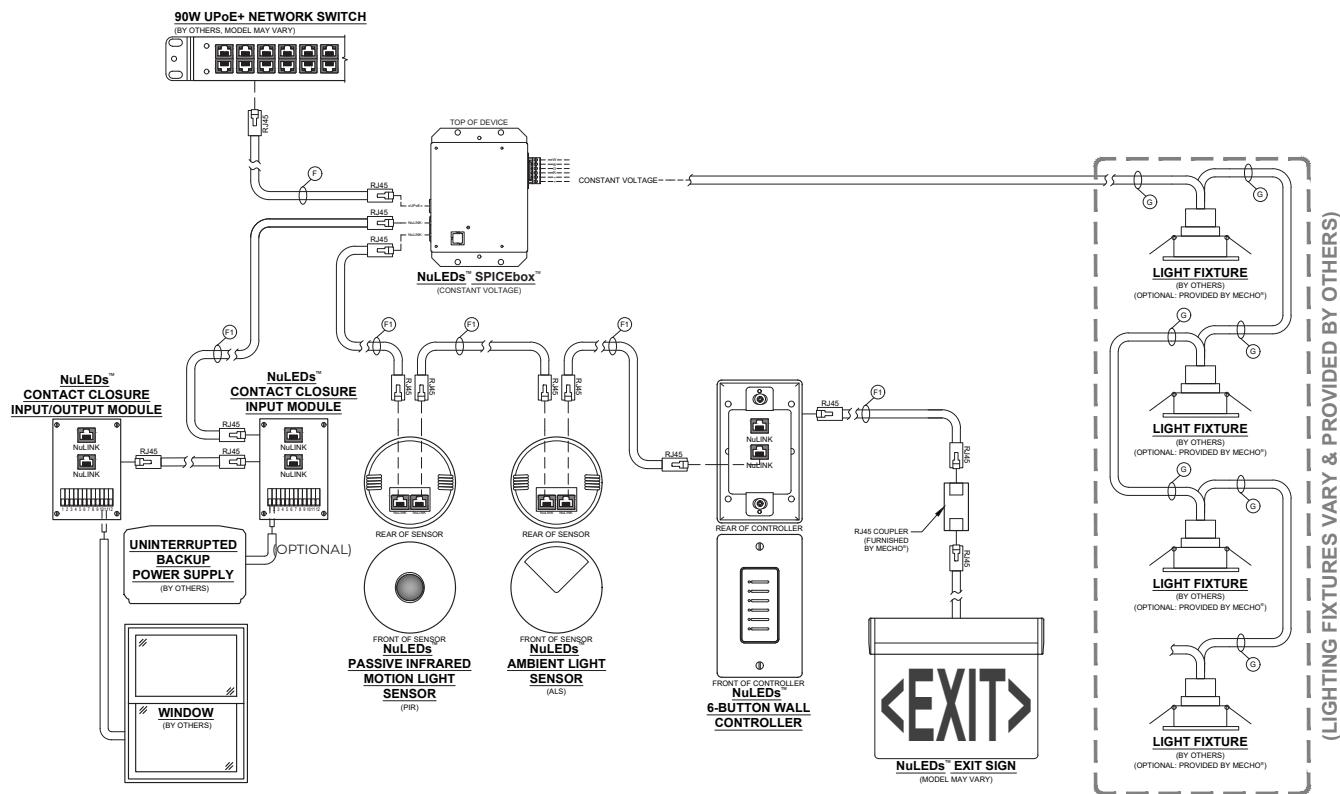
	— 90W UPoE+ NETWORK SWITCH (FURNISHED & INSTALLED BY OTHERS)
	— NuLEDs™ SPICEbox™ CONSTANT VOLTAGE QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: SBL-CV4C-TP-AS
	— NuLEDs™ SPICEbox™ CONSTANT CURRENT QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: SBL-C-C2C-TP-AS (2-CHANNEL) P/N: SBL-C-C4C-TP-AS (4-CHANNEL)
	— NuLEDs™ 6-BUTTON WALL CONTROLLER (EIP) QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: 6BUT-CONT-TP-AS
	— NuLEDs™ PASSIVE INFRARED MOTION LIGHT SENSOR (EIP) QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: PIRS-MOSN-TP-AS
	— NuLEDs™ AMBIENT LIGHT SENSOR (EIP) QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: ALS1-SENS-TP-AS
	— NuLEDs™ EXIT LIGHT (EIP) QTY. REQ. = QUANTITY (FURNISHED BY MECHO® & INSTALLED BY OTHERS) P/N: EXIT-GREN-1S-TP (ONE SIDED, GREEN TOP) P/N: EXIT-GREN-2S-TP (TWO SIDED, GREEN TOP) P/N: EXIT-RED1-1S-TP (ONE SIDED, RED TOP) P/N: EXIT-RED1-2S-TP (TWO SIDED, RED TOP)
	— LUMINAIRE (LOAD) FIXTURE (FURNISHED & INSTALLED BY OTHERS) *SEE ARCHITECTURAL/LIGHTING PLAN & SCHEDULES FOR SPECIFICS*

**NOTE:** Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

**MechoNet™ UPoE+ Constant Voltage SPICEbox™**

## Datasheet

## Point-to-Point Diagram



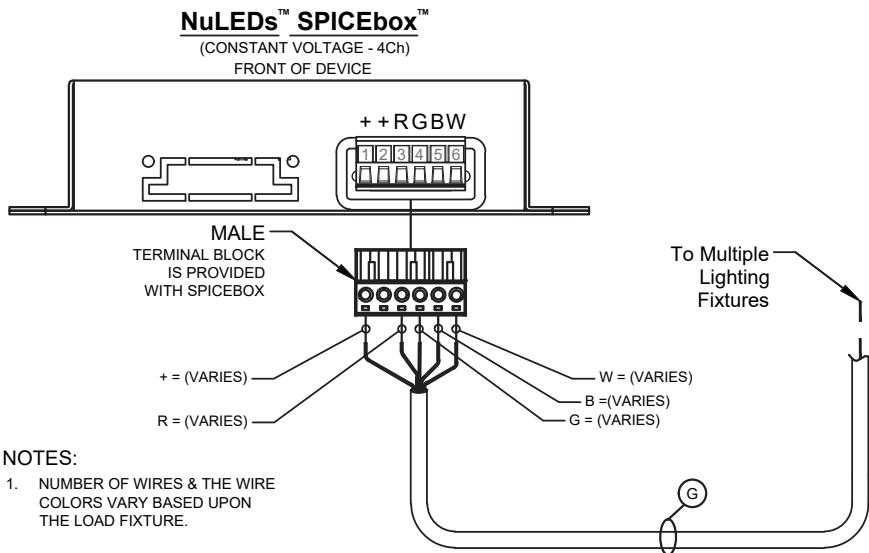
**NOTE:** Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

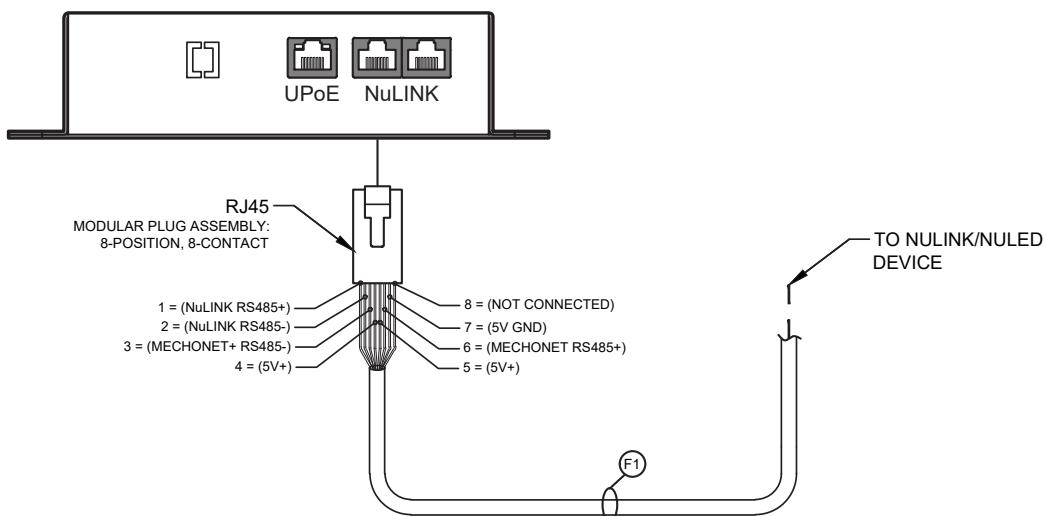
## Datasheet

### Point-to-Point Diagram - Port Connections

SPICEBOX LOAD PORT WIRING PIN OUT		
PIN#	FUNCTION	PIN#
1	POWER (+)	1
2	POWER (+)	2
3	R CHANNEL	3
4	G CHANNEL	4
5	B CHANNEL	5
6	W CHANNEL	6



NuLINK MECHONET+ (RS485) PINOUT		
CABLE TYPE: CAT5/CAT5e/CAT6		
PIN#:	WIRE COLOR:	FUNCTION:
1	ORANGE/WHITE STRIPE	NuLINK RS485+
2	ORANGE SOLID	NuLINK RS485-
3	GREEN/WHITE STRIPE	MECHONET+ RS485-
4	BLUE SOLID	5V+
5	BLUE/WHITE STRIPE	5V+
6	GREEN SOLID	MECHONET RS485+
7	BROWN/WHITE STRIPE	5V GND
8	BROWN SOLID	N/C

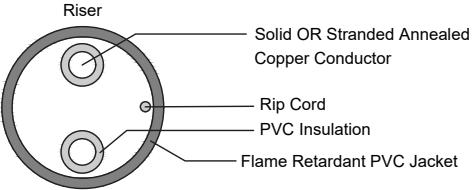
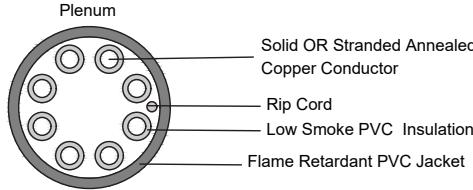


**NOTE:** Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

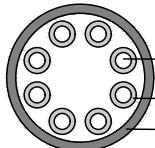
### Cable Reference Drawing

CABLE G REFERENCE DRAWING							
 <p>Drawing not to scale</p>				 <p>Drawing not to scale</p>			
<b>SPECIFICATIONS:</b>							
<b>CONDUCTOR COUNT:</b> 2 THRU 12 CONDUCTORS  <b>CONDUCTOR:</b> FULLY ANNEALED, SOLID OR STRANDED BARE COPPER  <b>AWG (mm):</b> 18 (1.16)  <b>INSULATION:</b> LOW SMOKE PVC  <b>INSULATION COLORS:</b> CONDUCTOR 1: BLACK CONDUCTOR 2: RED CONDUCTOR 3: WHITE CONDUCTOR 4: GREEN CONDUCTOR 5: BROWN CONDUCTOR 6: BLUE CONDUCTOR 7: ORANGE CONDUCTOR 8: YELLOW CONDUCTOR 9: VIOLET CONDUCTOR 10: GRAY CONDUCTOR 11: PINK CONDUCTOR 12: TAN  <b>JACKET:</b> RISER: GRAY, FLAME RETARDANT (FR) PVC PLENUM: WHITE, LOW SMOKE PVC  <b>PACKAGE:</b> BLACK, RIBBED, PLASTIC RECYCLABLE SPOOL, REEL-IN-A-BOX OR WOOD REEL				<b>PERFORMANCE COMPLIANCE:</b> NEC ARTICLE 725 NEC ARTICLE 800 NEC ARTICLE 760 UL <sup>®</sup> 13 CL3R/CL3P UL 444 CMR/CMP <sup>*</sup> UL 1424 FPLR/FPLP UL 1666 NFPA 262 CALIFORNIA STATE FIRE MARSHALL RoHS-COMPLIANT/RoHS 2-COMPLIANT  <b>NRTL PROGRAMS:</b> UL LISTED CL3R, CMR, FPLR UL LISTEN CL3P, CMP, FPLP			
<b>Part Numbers and Physical Characteristics:</b>							
Listing	Part Number <sup>1</sup>	Conductor Count	AWG (mm)	Conductor Type	Jacket Color <sup>2</sup>	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)
CL3R/CMR/FPLR	2F-C1x-31	2	18 (1.16)	7 x 26 AWG	GRAY	0.16 (4.1)	17 (25)
CL3R/CMR/FPLR	2F-C2x-31	3	18 (1.16)	7 x 26 AWG	GRAY	0.17 (4.3)	22 (9)
CL3R/CMR/FPLR	2F-C3x-31	4	18 (1.16)	7 x 26 AWG	GRAY	0.19 (4.8)	30 (45)
CL3R/CMR/FPLR	2F-C4x-31	6	18 (1.16)	7 x 26 AWG	GRAY	0.23 (5.8)	43 (64)
CL3R/CMR/FPLR	2F-C5x-31	8	18 (1.16)	7 x 26 AWG	GRAY	0.25 (6.4)	56 (83)
CL3R/CMR/FPLR	2F-C7x-31	12	18 (1.16)	7 x 26 AWG	GRAY	0.30 (7.6)	83 (124)
CL3P/CMR/FPLP	2F-C1x-43	2	18 (1.16)	7 x 26 AWG	WHITE	0.16 (4.1)	17 (25)
CL3P/CMR/FPLP	2F-C2x-43	3	18 (1.16)	7 x 26 AWG	WHITE	0.17 (4.3)	22 (9)
CL3P/CMR/FPLP	2F-C3x-43	4	18 (1.16)	7 x 26 AWG	WHITE	0.19 (4.8)	30 (45)
CL3P/CMR/FPLP	2F-C4x-43	6	18 (1.16)	7 x 26 AWG	WHITE	0.23 (5.8)	44 (65)
CL3P/CMR/FPLP	2F-C5x-43	8	18 (1.16)	7 x 26 AWG	WHITE	0.25 (6.4)	57 (85)
CL3P/CMR/FPLP	2F-C7x-43	12	18 (1.16)	7 x 26 AWG	WHITE	0.30 (7.6)	85 (126)
<b>Packaging Options:</b>							
	Plastic Spool		Reel-in-a-Box		Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
'Replace "x" with:	2	3	4	5	6	7	8

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

### Cable Reference Drawing

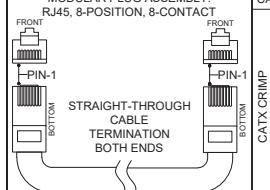
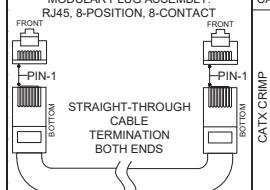
CABLE F REFERENCE DRAWING																																			
 <ul style="list-style-type: none"> <li>Solid Annealed Copper Conductor</li> <li>Thermoplastic Insulation</li> <li>Flame Retardant PVC Jacket</li> </ul>																																			
Drawing not to scale																																			
<b>SUPERIOR ESSEX (www.superioressex.com) PART No. PW52-H46-X5 (NON-PLENUM) &amp; PW52-H46-X8 (PLENUM)</b>																																			
SPECIFICATIONS (SOLID): CATEGORY 5E+																																			
PAIR COUNT:	4	CHARACTERISTIC IMPEDANCE Ohms:	100 ± 15																																
CONDUCTOR:	SOLID ANNEALED COPPER	NOMINAL VELOCITY OF PROPAGATION %:	CMR: 71 CMP: 74																																
AWG (mm):	22 (0.51)	PERFORMANCE COMPLIANCE:	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/I/CEA S-90-661-2012 Article 800, NEC (NFPA 70) HDBaseT Class A and B																																
INSULATION:	CMR: POLYOLEFIN CMP: FEP	NRTL PROGRAMS:	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP HDBaseT Certified																																
INSULATION COLORS:	PAIR 1: COLORTIP LIGHT BLUE, BLUE PAIR 2: COLORTIP LIGHT ORANGE, ORANGE PAIR 3: COLORTIP LIGHT GREEN, GREEN PAIR 4: COLORTIP LIGHT BROWN, BROWN	SUSTAINABILITY:	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant Temperature cable rating: 75°C for CMR and 90°C for CMP																																
JACKET:	CMR: FLAME RETARDANT (FR) PVC CMP: FR, LOW SMOKE PVC																																		
Part Numbers and Physical Characteristics																																			
<table border="1"> <thead> <tr> <th>Listing</th><th>Part Number<sup>1</sup></th><th>Nominal Diameter in (mm)</th><th>Approx. Weight lbs/kft (kg/km)</th><th>Package</th><th>Packages per Pallet</th></tr> </thead> <tbody> <tr> <td>CMR</td><td>PW52-H46-x5</td><td>0.23 (4.6)</td><td>28 (25)</td><td>1,000 ft BrakeBox®</td><td>12</td></tr> <tr> <td>CMR</td><td>PW52-H72-x5</td><td>0.23 (4.6)</td><td>28 (25)</td><td>1,000 ft Plywood Reel</td><td>16</td></tr> <tr> <td>CMP</td><td>PW52-H46-x8</td><td>0.23 (4.8)</td><td>37 (28)</td><td>1,000 ft BrakeBox</td><td>12</td></tr> <tr> <td>CMP</td><td>PW52-H72-x8</td><td>0.23 (4.8)</td><td>37 (28)</td><td>1,000 ft Plywood Reel</td><td>16</td></tr> </tbody> </table>						Listing	Part Number <sup>1</sup>	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet	CMR	PW52-H46-x5	0.23 (4.6)	28 (25)	1,000 ft BrakeBox®	12	CMR	PW52-H72-x5	0.23 (4.6)	28 (25)	1,000 ft Plywood Reel	16	CMP	PW52-H46-x8	0.23 (4.8)	37 (28)	1,000 ft BrakeBox	12	CMP	PW52-H72-x8	0.23 (4.8)	37 (28)	1,000 ft Plywood Reel	16
Listing	Part Number <sup>1</sup>	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet																														
CMR	PW52-H46-x5	0.23 (4.6)	28 (25)	1,000 ft BrakeBox®	12																														
CMR	PW52-H72-x5	0.23 (4.6)	28 (25)	1,000 ft Plywood Reel	16																														
CMP	PW52-H46-x8	0.23 (4.8)	37 (28)	1,000 ft BrakeBox	12																														
CMP	PW52-H72-x8	0.23 (4.8)	37 (28)	1,000 ft Plywood Reel	16																														
Jacket Colors																																			
<table border="1"> <tr> <td>'Replace "x" with:</td><td>Blue = 2</td><td>Gray = 3</td><td>White = 4</td><td>Green = 5</td><td></td></tr> <tr> <td>Yellow = 6</td><td>Purple = 7</td><td>Red = 9</td><td>Black = E</td><td></td><td></td></tr> </table>						'Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5		Yellow = 6	Purple = 7	Red = 9	Black = E																				
'Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5																															
Yellow = 6	Purple = 7	Red = 9	Black = E																																

# MechoNet™ UPoE+ Constant Voltage SPICEbox™

## Datasheet

### Low Voltage Cable Legend and Crimping Instructions

LOW VOLTAGE CABLE LEGEND - EIA568B	
NOTES:	
	<p>1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS.</p> <p>2. ADDRESS SCHEDULES REQUIRED.</p> <p>3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC.</p> <p>4. LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE.</p>
(F)	<p><b>CAT5E+ - CABLE FOR UPoE NETWORK WIRING CONNECTIONS:</b></p> <p><b>SPECIFICATION:</b> 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR)</p> <p><b>TERMINATION:</b> RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS</p> <p><b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM)</p> <p>PART NO. PW52-H46-X5 (NON-PLENUM) &amp; PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE</p> <p><b>DISTANCE LIMITATION: 328'. MAX. NODES: 1</b> SEE "CABLE F REFERENCE DRAWING" FOR DETAILED SPECIFICATION. (FURNISHED &amp; INSTALLED BY OTHERS)</p>
(F1)	<p><b>CAT5E+ - CABLE FOR NuLED NETWORK WIRING CONNECTIONS:</b></p> <p><b>SPECIFICATION:</b> 22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR)</p> <p><b>TERMINATION:</b> RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS</p> <p><b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM)</p> <p>PART NO. PW52-H46-X5 (NON-PLENUM) &amp; PW52-H46-X8 (PLENUM) OR COMPATIBLE CABLE</p> <p><b>DISTANCE LIMITATION: 50'. MAX. EIPS: 15</b> SEE CABLE "F" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED &amp; INSTALLED BY OTHERS)</p>
(G)	<p><b>CABLE FOR SPICEBOX TO LIGHT (LOAD) FIXTURE WIRING CONNECTIONS:</b></p> <p><b>SPECIFICATION:</b> 2 TO 12-CONDUCTOR, (18AWG UNSHIELDED)</p> <p><b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM 1-800-551-8948) LISTING NO. CL3R/CMR/FPLR (NON-PLENUM), &amp; CL3P/CMP/FPLP (PLENUM)</p> <p><b>DISTANCE LIMITATION: VARIES PER LOAD. MAX. LOADS: VARIES BY WATTS</b> SEE CABLE "G" REFERENCE DRAWING FOR DETAILED SPECIFICATION. (FURNISHED &amp; INSTALLED BY OTHERS)</p>

EIA 568B CRIMPING - 8 CONDUCTOR CABLE																													
UPoE CONNECTIONS ON UPoE NETWORK																													
<p>MODULAR PLUG ASSEMBLY: RJ45, 8-POSITION, 8-CONTACT</p>  <p>STRAIGHT-THROUGH CABLE TERMINATION BOTH ENDS</p> <p>CATX CRIMP</p>		CABLE TYPE: CAT5/CAT5e/CAT6																											
		<table border="1"> <thead> <tr> <th>PIN#:</th> <th>WIRE COLOR:</th> <th>FUNCTION:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ORANGE/WHITE STRIPE</td> <td>DATA A+/POWER+</td> </tr> <tr> <td>2</td> <td>ORANGE SOLID</td> <td>DATA A-/POWER-</td> </tr> <tr> <td>3</td> <td>GREEN/WHITE STRIPE</td> <td>DATA B+/POWER+</td> </tr> <tr> <td>4</td> <td>BLUE SOLID</td> <td>DATA C+/POWER+</td> </tr> <tr> <td>5</td> <td>BLUE/WHITE STRIPE</td> <td>DATA C-/POWER-</td> </tr> <tr> <td>6</td> <td>GREEN SOLID</td> <td>DATA B-/POWER-</td> </tr> <tr> <td>7</td> <td>BROWN/WHITE STRIPE</td> <td>DATA D+/POWER+</td> </tr> <tr> <td>8</td> <td>BROWN SOLID</td> <td>DATA D-/POWER-</td> </tr> </tbody> </table>	PIN#:	WIRE COLOR:	FUNCTION:	1	ORANGE/WHITE STRIPE	DATA A+/POWER+	2	ORANGE SOLID	DATA A-/POWER-	3	GREEN/WHITE STRIPE	DATA B+/POWER+	4	BLUE SOLID	DATA C+/POWER+	5	BLUE/WHITE STRIPE	DATA C-/POWER-	6	GREEN SOLID	DATA B-/POWER-	7	BROWN/WHITE STRIPE	DATA D+/POWER+	8	BROWN SOLID	DATA D-/POWER-
PIN#:	WIRE COLOR:	FUNCTION:																											
1	ORANGE/WHITE STRIPE	DATA A+/POWER+																											
2	ORANGE SOLID	DATA A-/POWER-																											
3	GREEN/WHITE STRIPE	DATA B+/POWER+																											
4	BLUE SOLID	DATA C+/POWER+																											
5	BLUE/WHITE STRIPE	DATA C-/POWER-																											
6	GREEN SOLID	DATA B-/POWER-																											
7	BROWN/WHITE STRIPE	DATA D+/POWER+																											
8	BROWN SOLID	DATA D-/POWER-																											
<p>MODULAR PLUG ASSEMBLY: RJ45, 8-POSITION, 8-CONTACT</p>  <p>STRAIGHT-THROUGH CABLE TERMINATION BOTH ENDS</p> <p>CATX CRIMP</p>		CABLE TYPE: CAT5/CAT5e/CAT6																											
		<table border="1"> <thead> <tr> <th>PIN#:</th> <th>WIRE COLOR:</th> <th>FUNCTION:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ORANGE/WHITE STRIPE</td> <td>NuLINK RS485+</td> </tr> <tr> <td>2</td> <td>ORANGE SOLID</td> <td>NuLINK RS485-</td> </tr> <tr> <td>3</td> <td>GREEN/WHITE STRIPE</td> <td>MECHONET+ RS485-</td> </tr> <tr> <td>4</td> <td>BLUE SOLID</td> <td>5V+</td> </tr> <tr> <td>5</td> <td>BLUE/WHITE STRIPE</td> <td>5V+</td> </tr> <tr> <td>6</td> <td>GREEN SOLID</td> <td>MECHONET RS485+</td> </tr> <tr> <td>7</td> <td>BROWN/WHITE STRIPE</td> <td>5V GND</td> </tr> <tr> <td>8</td> <td>BROWN SOLID</td> <td>N/C</td> </tr> </tbody> </table>	PIN#:	WIRE COLOR:	FUNCTION:	1	ORANGE/WHITE STRIPE	NuLINK RS485+	2	ORANGE SOLID	NuLINK RS485-	3	GREEN/WHITE STRIPE	MECHONET+ RS485-	4	BLUE SOLID	5V+	5	BLUE/WHITE STRIPE	5V+	6	GREEN SOLID	MECHONET RS485+	7	BROWN/WHITE STRIPE	5V GND	8	BROWN SOLID	N/C
PIN#:	WIRE COLOR:	FUNCTION:																											
1	ORANGE/WHITE STRIPE	NuLINK RS485+																											
2	ORANGE SOLID	NuLINK RS485-																											
3	GREEN/WHITE STRIPE	MECHONET+ RS485-																											
4	BLUE SOLID	5V+																											
5	BLUE/WHITE STRIPE	5V+																											
6	GREEN SOLID	MECHONET RS485+																											
7	BROWN/WHITE STRIPE	5V GND																											
8	BROWN SOLID	N/C																											

#### Warranty

Mecho's warranty ensures its products against defects in materials and workmanship for up to 25 years. The warranty timeline shall vary for different products. For complete warranty information, please visit <https://www.mechoshade.com/warranty> or contact your Mecho® Representative.

#### Technical support

**Mecho®**

**T:** +1 (800) 327-9798 (Follow prompts for Mecho® & Tech Support)

**E:** [techsupport@mechoshade.com](mailto:techsupport@mechoshade.com)

**W:** [www.mechoshade.com](http://www.mechoshade.com)

Mecho® reserves the right to make improvements or changes to its products without prior notice. Every attempt is made to ensure the information herein is accurate and up to date. Verify with the Mecho® staff to confirm the product's availability, latest specifications, and suitability for your application.



**(800) 327-9798**  
**mechoshade.com**