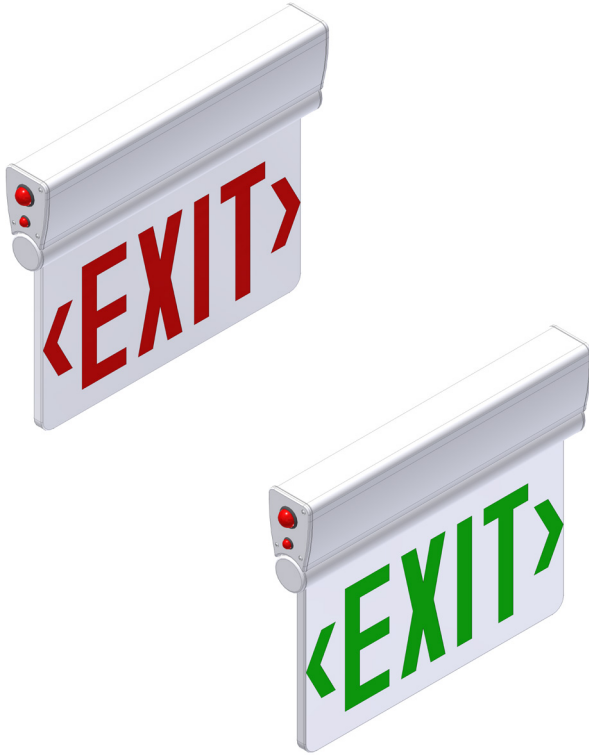


# Exit Light

## Datasheet



### Description

The exit light is a durable, versatile system with a die-cast aluminum housing and double-sided acrylic panel for clear visibility. It offers flexible mounting options, including wall, ceiling, and recessed installations. Powered via the MechoNet UPoE+ SPICEbox, it consumes less than 5W and supports dual voltage (120/277 VAC). Equipped with a 4.8V NiCad battery, it provides 90 minutes of emergency lighting during power failure and features a fast-charging system. Safety is enhanced by self-testing, multi-color LED status indicators, and protection against brownouts, overloads, and short circuits.

Stock#	Description
EXIT-GREN-1S-TP	Exit Light One Sided Green
EXIT-GREN-2S-TP	Exit Light Two Sided Green
EXIT-RED1-1S-TP	Exit Light One Sided Red
EXIT-RED1-2S-TP	Exit Light Two Sided Red

### Features

#### 1. Construction & Design:

- **Housing:** Made from durable die-cast aluminum.
- **Panel:** Clear acrylic, double-sided with a mirrored configuration for optimal visibility.
- **Mounting Options:** Suitable for wall, sloped, and high ceilings; includes recessed mounting for drop ceilings or new construction. Comes with directional arrow indicators.

#### 2. Power & Energy Efficiency:

- **Power Source:** Powered via the MechoNet UPoE+ SPICEbox through a NuLINK bus.
- **Low Energy Consumption:** Less than 3W for AC-only models and less than 5W for battery backup models.
- **Dual Voltage Input:** Operates at 120/277 VAC with an LED display indicating AC/ON status.

#### 3. Battery Backup & Protection:

- **Battery:** 4.8V maintenance-free NiCad battery with low-voltage cut-off protection.
- **Emergency Operation:** Provides 90 minutes of uninterrupted operation during power failure.
- **Charging System:** Solid-state, two-rate charger to fully recharge in 24 hours.

#### 4. Safety Features:

- **Self-Test & Monitoring:** Continuous self-checks with multi-color LED indicators to signal status.
- **Protection Mechanisms:** Includes brownout, overload, and short-circuit protection.
- **Test Switch:** External push button for manual testing and status checks.

#### 5. Environmental Tolerance:

Battery operating range from 32°F to 104°F (0°C to 40°C).

# Exit Light

## Datasheet Specifications

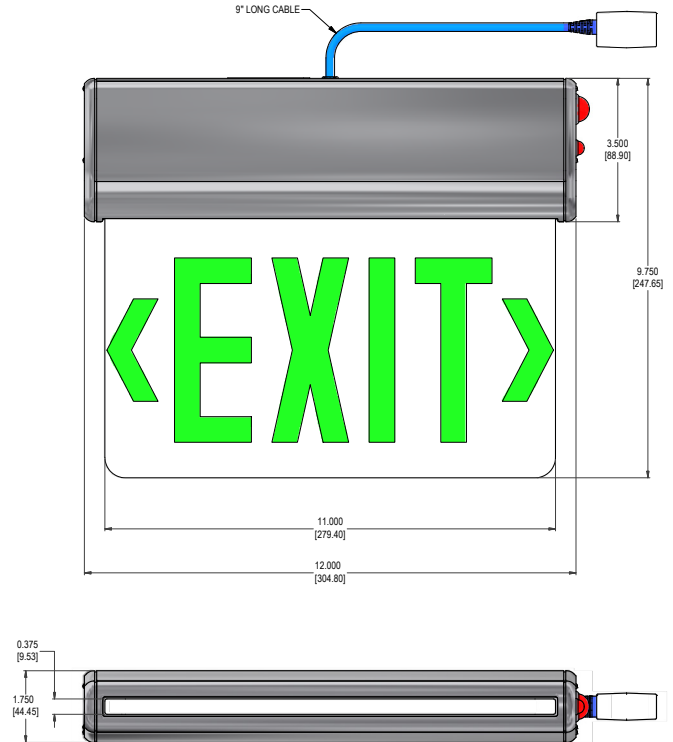
Equipment Kit	
Exit Light, Canopy, Hardware Bag, NiCad Battery (Must be connected after installation), Installation Guide	
Hardware	
<b>Input Voltage</b>	5V DC
<b>Wiring</b>	CAT5e or CAT6 Patch Cable to SPICEbox™
<b>Maximum Wiring Distance</b>	328 ft. (100 m.) Network switch to SPICEbox™
	30 ft. max from Exit Light to SPICEbox™
Mechanical	
<b>Dimensions (L X W X H)</b>	12 in. (305 mm) x 3.5 mm. (89 mm) x 9.75 in. (248 mm)
<b>Mounting</b>	Available with ceiling and wall mount capability. Refer to page 3 for further Mounting information.
<b>Weight</b>	5 to 10 lbs. ( 2.26 to 4.5 kg)
Environmental	
<b>Operating Temperature</b>	32° to 104°F (0° to 40°C) ambient
Agency Listings and Compliance	
UL listed and meets or exceeds the following: UL 924, NEC, OSHA and NFPA 101 Life Safety Code requirements. CE Compliant	

### Safety Warning

- All electrical connections must be in accordance with local codes, ordinances and the National Electric Code. If you are unfamiliar with methods from installing electrical wiring, secure the services from a qualified licensed electrician.
- Before starting the installation, disconnect the power by turning off the circuit breaker or by removing the appropriate fuse at the fuse box. Using the light switch to turn the power off is not sufficient to prevent electrical shock.
- Do not use outdoors
- Do not let power supply cords touch hot surfaces
- Do not mount near gas or electric heaters
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition
- Do not use this equipment for other than its intended use.
- All servicing should be performed by a qualified personnel only.
- Allow battery to charge for 24 hours before first use.
- **Warranty:** Voided if device has been modified from its original configuration



### Dimensions



**NOTE:** Dimensions and color may vary based on the model type.

### Battery Safety Information

- The proposed long term storage temperature is 59 °F to ~77 °F (15 °C to ~25 °C), humidity in 45-85% for all type battery.

#### Lead-Acid battery handling and storage

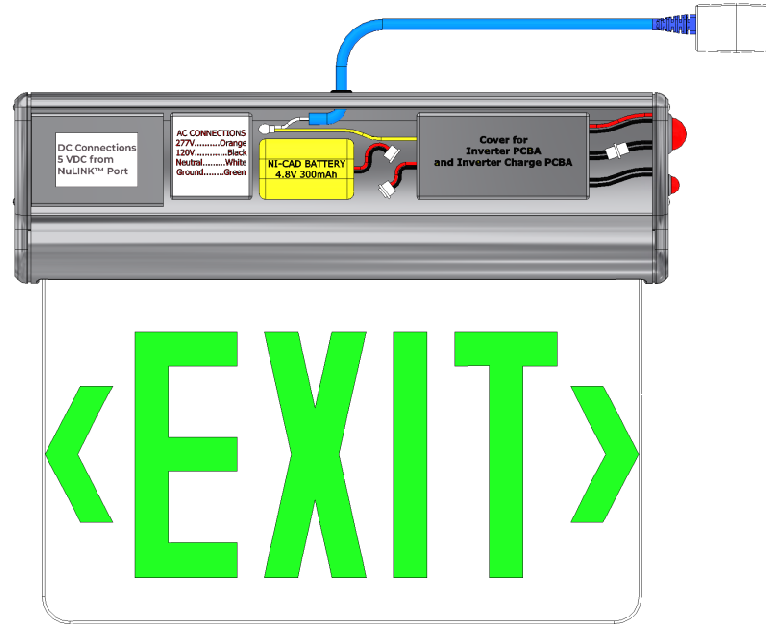
- Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills.
- Batteries should also be stored under roof for protection against adverse weather conditions.
- Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control.
- Avoid damages to containers. Keep away from fire, sparks and heat.

#### Lead-Acid battery handling and storage

- Do not damage or remove the external tube.
- Never throw out cells in a fire or expose to high temperature.
- Do not soak cells in water and sea water.
- Do not expose to strong oxidizers.
- Do not give a strong mechanical shock or throw down.
- Never disassemble modify or deform.
- Do not connect the positive terminal to the negative terminal with electrically conductive material.
- Do not short or install with incorrect polarity
- Avoid direct sunlight, high temperature, humidity and the places where it is exposed to the static electricity.

(800) 327-9798  
mechoshade.com

# Exit Light Datasheet



## Mounting

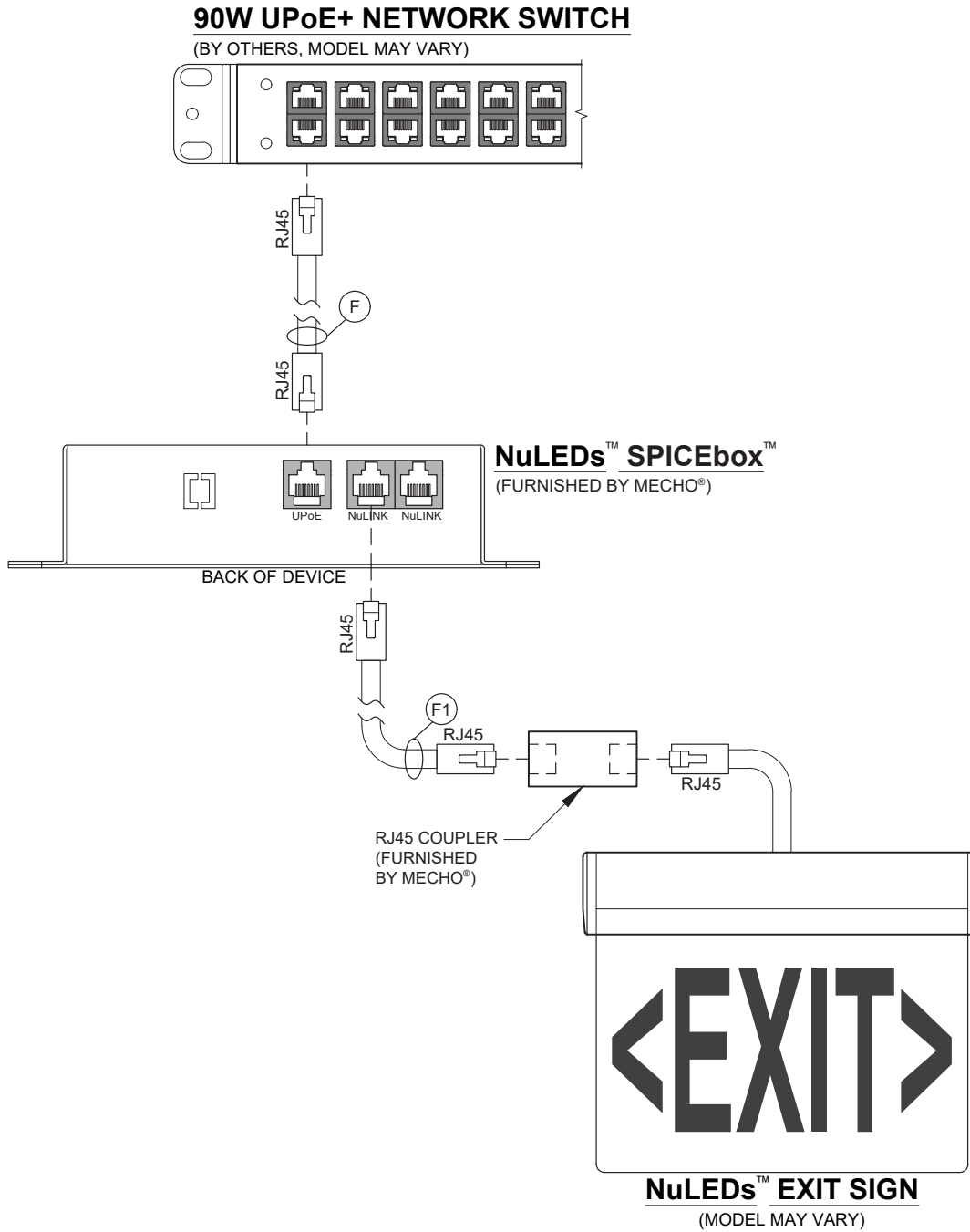
**NOTE:** First turn OFF the electricity.

1. Attach the crossbar to the J-box, using screws if needed. (screws are not provided)
2. Use a screwdriver to open the front cover to connect the battery connector.
3. Feed CAT 5/6 wire through the canopy center hole.
4. Assemble the canopy onto the main body assembly with 2 X PM 4\*15 screws and make accurate wire connections.
5. Use 2 X PM4-40 screws (supplied) to tighten the canopy to the crossbar.
6. Insert the EXIT panel into the main body assembly gently. If the EXIT panel is for a single face, make sure the EXIT letter direction is right.
7. Determine the direction for chevron placement.
8. The unit can be installed on any surface, you may rotate the EXIT panel at any angle from 0° to 180°.
9. To change the ceiling mounting to the wall mounting rotate the Exit panel by 90°.

# Exit Light

## Datasheet

### NuLINK™ Network Wiring Diagram - Exit Light

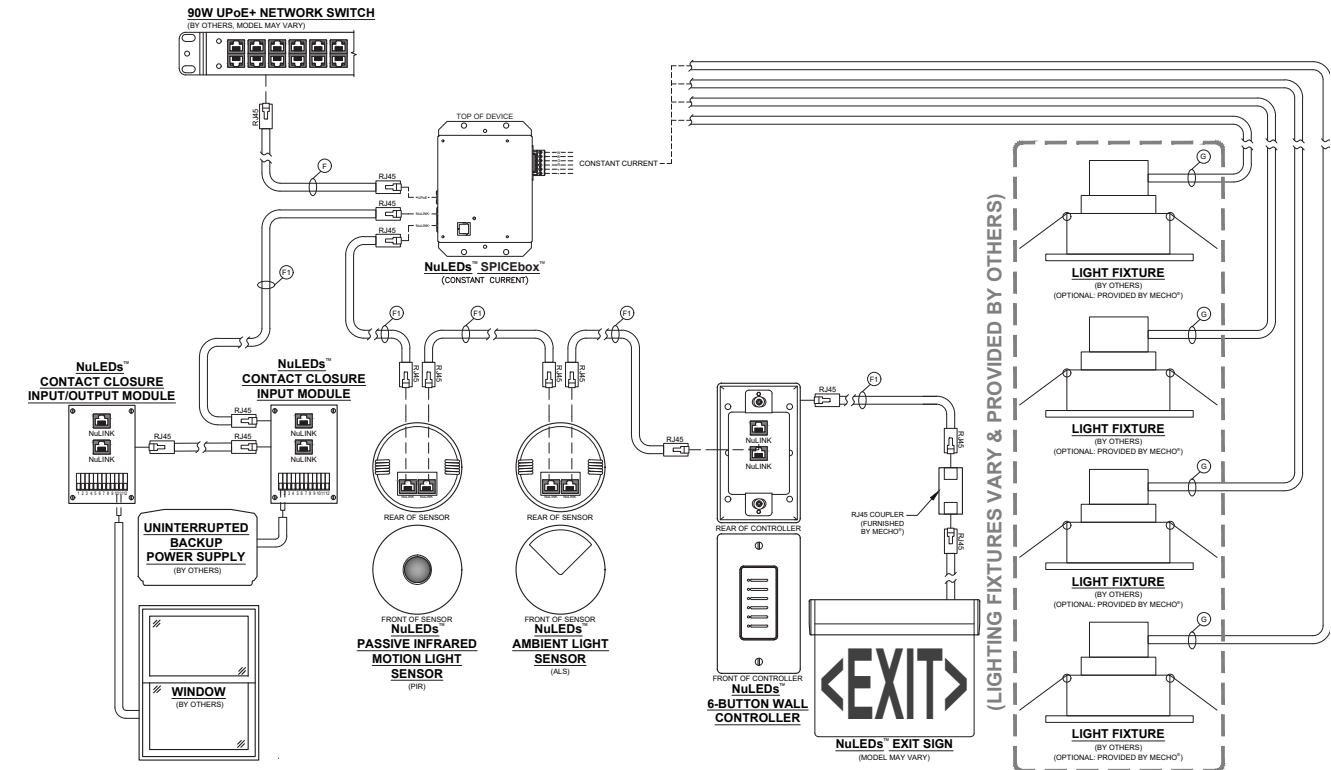


**NOTE:** Refer to page 9 for the Low Voltage Cable Legend and Crimping Instructions.

# Exit Light

## Datasheet

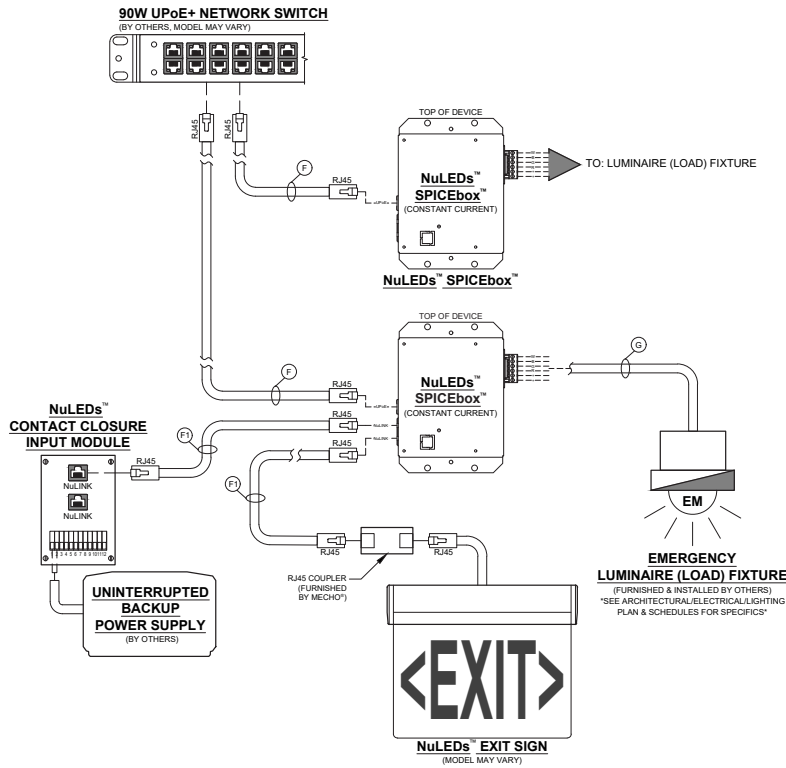
### Point-to-Point Diagram



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

# Exit Light Datasheet

## Point-to-Point Diagram - Emergency Luminaire (Load) Fixture



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

# Exit Light

## Datasheet

### Cable Reference Drawing

### CABLE G REFERENCE DRAWING

Riser

Solid OR Stranded Annealed Copper Conductor

Rip Cord

PVC Insulation

Flame Retardant PVC Jacket

Drawing not to scale

Plenum

Solid OR Stranded Annealed Copper Conductor

Rip Cord

Low Smoke PVC Insulation

Flame Retardant PVC Jacket

Drawing not to scale

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**SPECIFICATIONS:**

CONDUCTOR COUNT:	2 THRU 12 CONDUCTORS	PERFORMANCE COMPLIANCE:	NEC ARTICLE 725 NEC ARTICLE 800 NEC ARTICLE 760 UL®13 CL3R/CL3P UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666 NFPA 262 CALIFORNIA STATE FIRE MARSHALL RoHS-COMPLIANT/RoHS 2-COMPLIANT
CONDUCTOR:	FULLY ANNEALED, SOLID OR STRANGED BARE COPPER	NRTL PROGRAMS:	UL LISTED CL3R, CMR, FPLR UL LISTEN CL3P, CMP, FPLP
AWG (mm):	18 (1.16)		
INSULATION:	LOW SMOKE PVC		
INSULATION COLORS:	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		
JACKET:	RISER: GRAY, FLAME RETARDANT (FR) PVC PLENUM: WHITE, LOW SMOKE PVC		
PACKAGE:	BLACK, RIBBED, PLASTIC RECYCLABLE SPOOL, REEL-IN-A-BOX OR WOOD REEL		

**Part Numbers and Physical Characteristics:**

Listing	Part Number <sup>1</sup>	Conductor Count	AWG (mm)	Conductor Type	Jacket Color <sup>2</sup>	Nominal Diameter in (mm)	Approx. Weight lbs/ft (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/CMP/FPLP	2F-C1x-43	2	18 (1.16)	7 x 26 AWG	WHITE	0.16 (4.1)	17 (25)
CL3P/CMP/FPLP	2F-C2x-43	3	18 (1.16)	7 x 26 AWG	WHITE	0.17 (4.3)	22 (9)
CL3P/CMP/FPLP	2F-C3x-43	4	18 (1.16)	7 x 26 AWG	WHITE	0.19 (4.8)	30 (45)
CL3P/CMP/FPLP	2F-C4x-43	6	18 (1.16)	7 x 26 AWG	WHITE	0.23 (5.8)	44 (65)
CL3P/CMP/FPLP	2F-C5x-43	8	18 (1.16)	7 x 26 AWG	WHITE	0.25 (6.4)	57 (85)
CL3P/CMP/FPLP	2F-C7x-43	12	18 (1.16)	7 x 26 AWG	WHITE	0.30 (7.6)	85 (126)

**Packaging Options:**

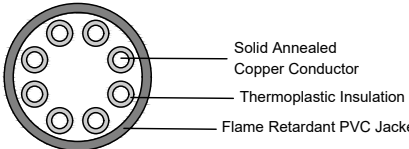
	Plastic Spool		Reel-in-a-Box		Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
<sup>1</sup> Replace "x" with:	2	3	4	5	6	7	8

# Exit Light

## Datasheet

### Cable Reference Drawing

**CABLE F REFERENCE DRAWING**



Solid Annealed  
Copper Conductor

Thermoplastic Insulation

Flame Retardant PVC Jacket

Drawing not to scale

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**SUPERIOR ESSEX (www.superioressex.com) PART No. PW52-H46-X5 (NON-PLENUM) & PW52-H46-X8 (PLENUM)**

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/ICEA 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**

Listing	Part Number <sup>1</sup>	Nominal Diameter in (mm)	Approx. Weight lbs/ft (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**

'Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5
Yellow = 6	Purple = 7	Red = 9	Black = E	



# Exit Light Datasheet

## Low Voltage Cable Legend and Crimping Instructions

F	<p><b>CAT5E+ 4PPOE - CABLE FOR UPOE NETWORK WIRING CONNECTIONS:</b>                  22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR)  <b>TERMINATION:</b> RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS  <b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM)                  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 NULINK NETWORK WIRING CONNECTIONS:</b>                  22AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR)  <b>TERMINATION:</b> RJ-45 MODULAR PLUG CRIMPED (EIA568B) ON BOTH ENDS  <b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM)                  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 F1" REFERENCE DRAWING FOR DETAILED SPECIFICATION.                  (FURNISHED &amp; INSTALLED BY OTHERS)</p>
G	<p><b>CABLE FOR SPICEBOX TO LIGHT (LOAD) FIXTURE WIRING CONNECTIONS:</b>                  2 TO 12-CONDUCTOR, (18AWG UNSHIELDED)  <b>RECOMMENDED:</b> SUPERIOR ESSEX (WWW.SUPERIORESSEX.COM 1-800-551-8948)                  LISTING NO. CL3R/CMR/FFLR (NON-PLENUM), &amp; CL3P/CMF/FFLP (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

STRAIGHT-THROUGH  
CABLE  
TERMINATION  
BOTH ENDS

CABLE TYPE: CAT5/CAT5e/CAT6		
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-

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**EIA 568B CRIMPING - 8 CONDUCTOR CABLE**  
NuLED CONNECTIONS ON NuLINK MECHONET+ (RS485) NETWORK

STRAIGHT-THROUGH  
CABLE  
TERMINATION  
BOTH ENDS

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

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**EIA 568B CRIMPING - 8 CONDUCTOR CABLE**  
ETHERNET NETWORK CONNECTIONS

STRAIGHT-THROUGH  
CABLE  
TERMINATION  
BOTH ENDS

CABLE TYPE: CAT5/CAT5e/CAT6		
PIN#:	WIRE COLOR:	FUNCTION:
1	ORANGE/WHITE STRIPE	TX+
2	ORANGE SOLID	TX+
3	GREEN/WHITE STRIPE	RX+
4	BLUE SOLID	N/C
5	BLUE/WHITE STRIPE	N/C
6	GREEN SOLID	RX-
7	BROWN/WHITE STRIPE	N/C
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.

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.

### Technical support

#### Mecho

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

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

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



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