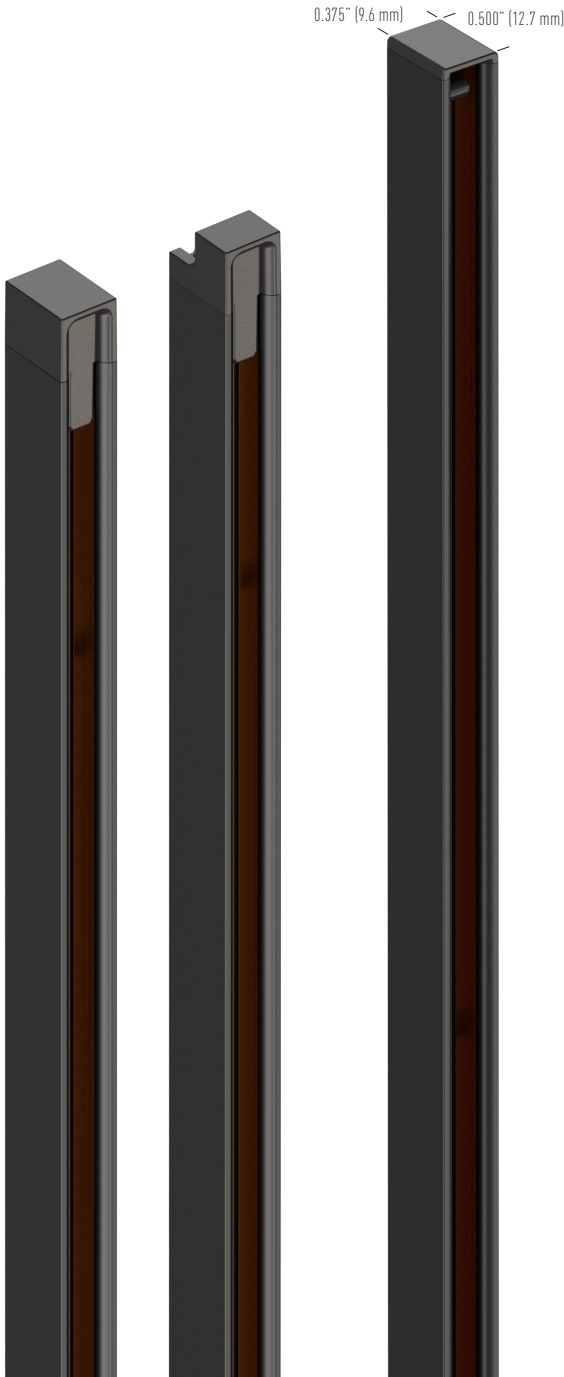


Date \_\_\_\_\_ Specifier \_\_\_\_\_ Project \_\_\_\_\_ Type \_\_\_\_\_



# LIFELINE SURFACE

**A magnetic track system so invisible that light becomes an architectural detail**

**Embeds seamlessly in ceilings and walls to conduct electricity virtually anywhere**

**Infinitely customizable when used with EKLIPSE's magnetic products compatible with the LIFELINE system**



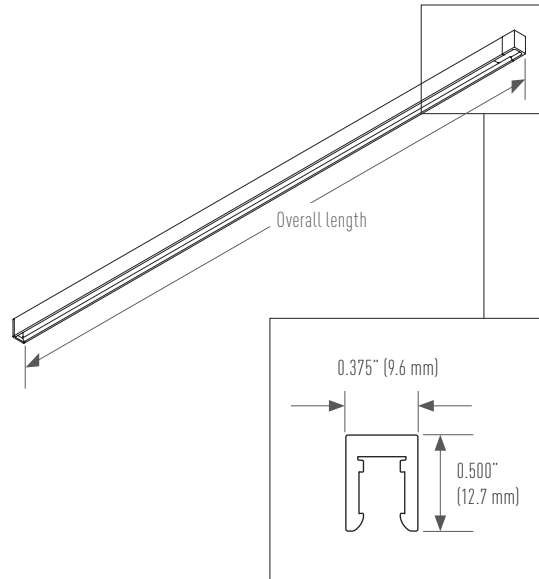
Track system



Supports MILI, PIXIS LIFELINE, PIXIS FIVE LIFELINE

## Physical

### General dimensions

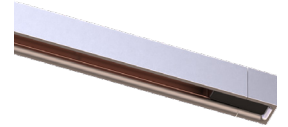


### Finish

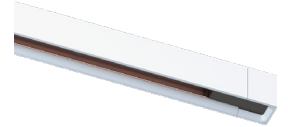
**ABK** Anodized black



**ACL** Anodized clear (internal cap always ABK)



**MW** Matte white (internal cap always ABK)



### Length specifications

2.7" to 100.0" in increments of 0.1".  
May be customizable over 100".

### Ingress protection

IP20

### Construction

Aluminum body

### Weight

0.11 lbs/ft (160 g/m)

### Storage temperature

0 °C to 40 °C, <50% RH.

### Operating ambient temperature

0 °C to 40 °C

⚠ Inside fit is always smaller (see [Length calculation section](#)).

MADE IN CANADA  
FABRIQUÉ AU CANADA

ROHS COMPLIANT

UL US

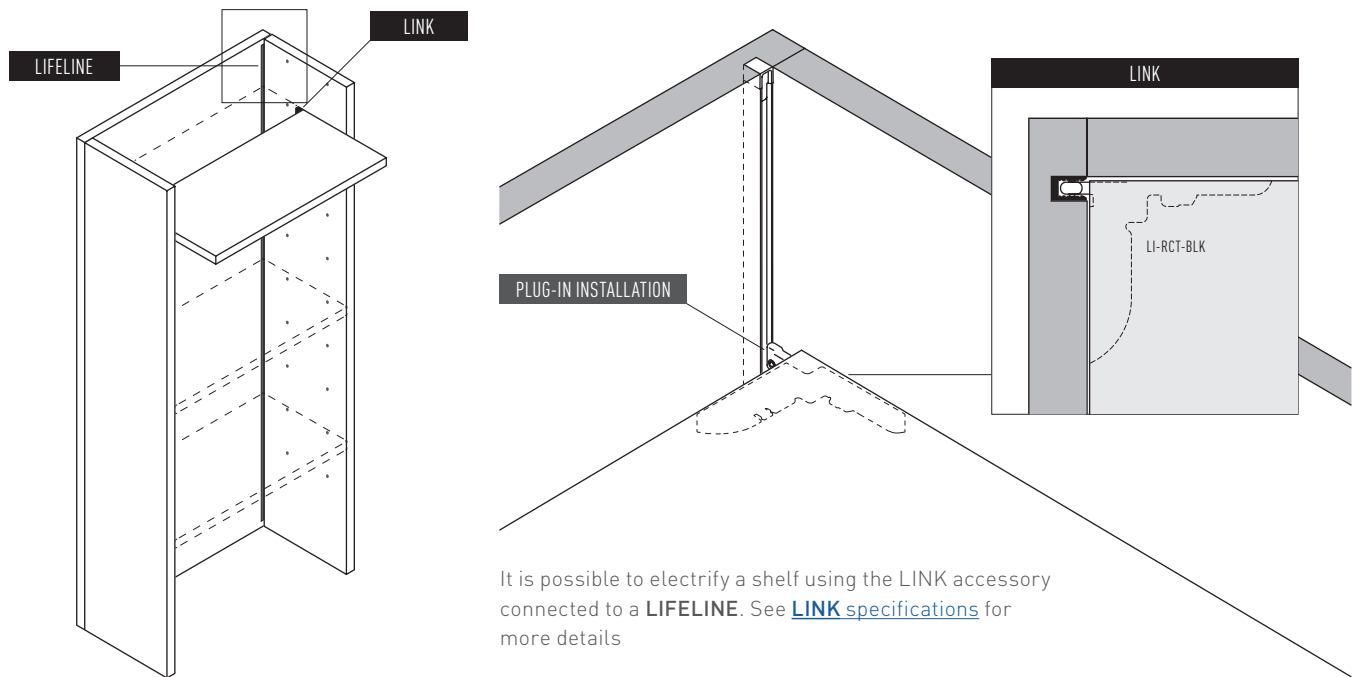
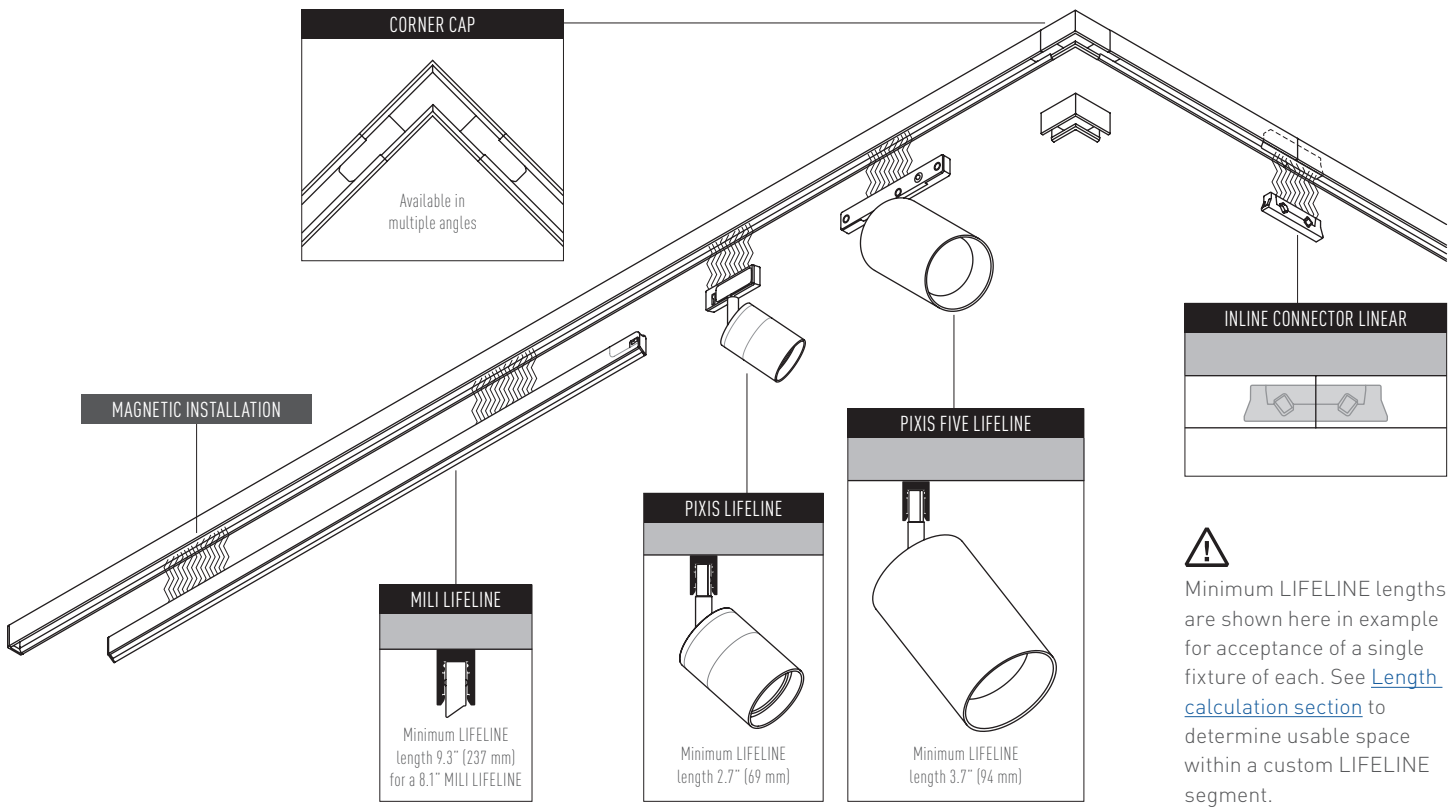
CE

FC

CAN ICES-005 (B)

CAN NMB-005 (B)

## System overview



## Electrical

### Input Voltage

24 VDC in Constant Voltage to be compatible with LIFELINE lighting fixtures and products. LIFELINE tracks are 14 AWG equivalents, however because its loads are distributed along, ignore track lengths when calculating remote power feed allowable cable distances. Account for max voltage drop of 2.5 VDC. For help see [EKLIPSE document K01](#).

### Wiring

For **CEILING/WALL installation**, wiring option "B12": 12" UL Listed, NEC/CEC compliant CMP **plenum-rated** white cable, 2x 20 AWG and asymmetrically aligned crimp Butt splices for permanent connection. Class 2 wiring: no junction box required. Maintenance: splice accessible by pulling LIFELINE off the CEILING/WALL.

In **MILLWORK applications**, all wiring options: UL certified AWM black cable style 2464, 2x 20 AWG. Maintenance: follow furniture/millwork designer instructions.

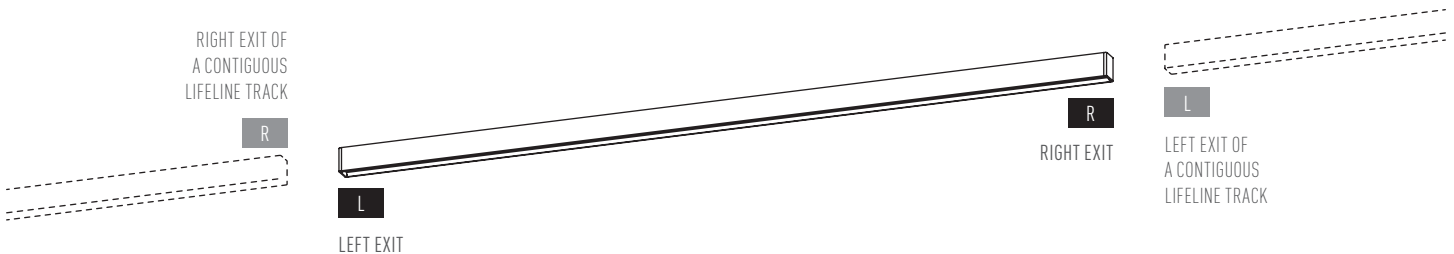
### Max load

In North America: 100 W or 4.1A @24 VDC, per class 2 limits, by UL and the National Electrical Code (NEC) / Canadian Electrical Code (CEC).

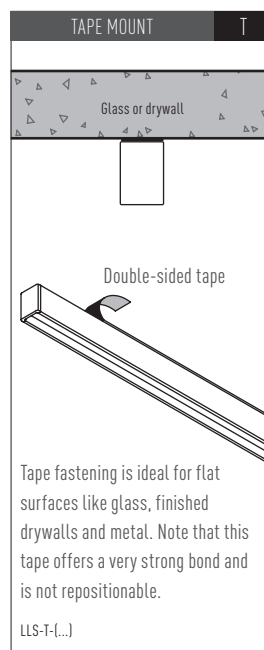
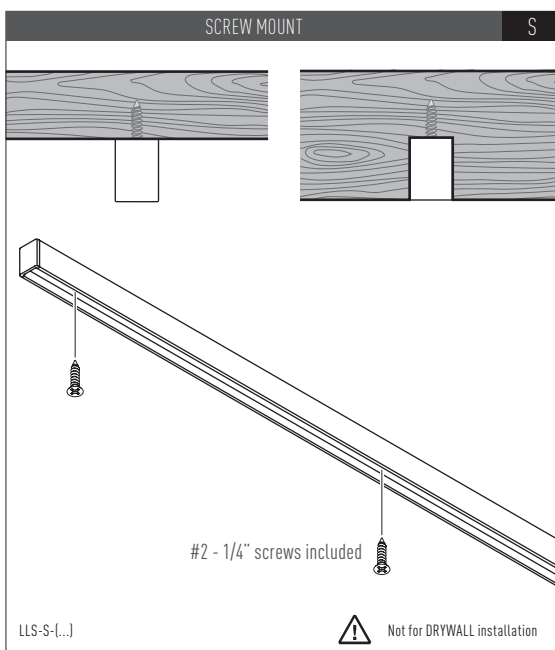
### Installation

Smallest installation in cabinet is 6.0" (152 mm) deep by 6.0" (152 mm) high by the overall product length. Smaller installations could be a fire hazard. Please contact your EKLIPSE representative if your installation is smaller than that.

## Naming rule for wiring specification



## Mounting options



## Length calculation

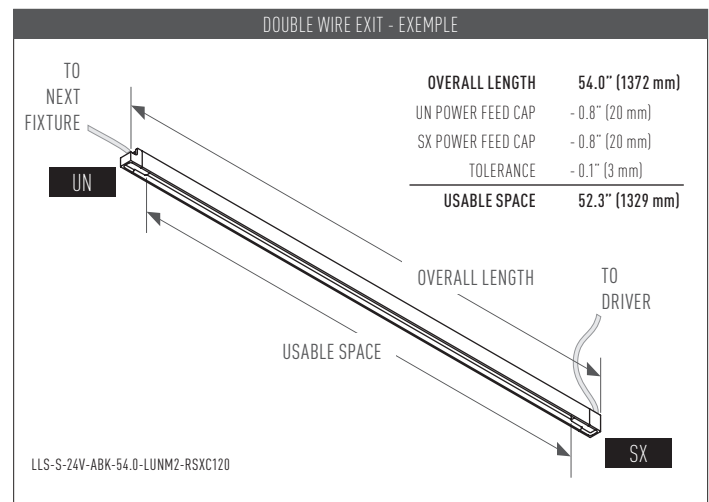
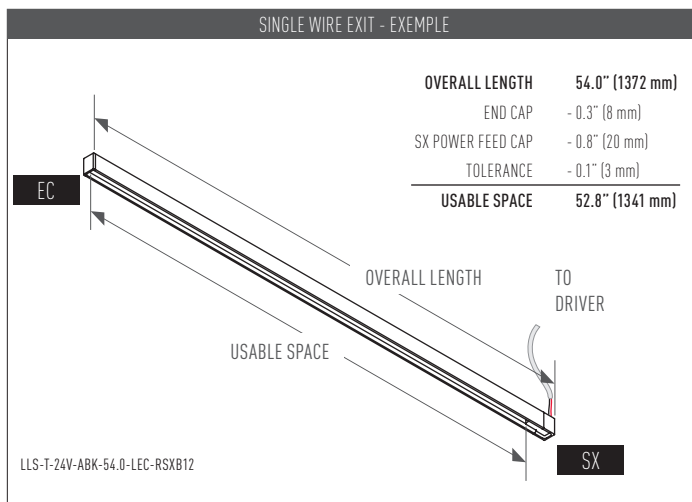
**LIFELINE** is built to match the “end-to-end” length specified in the order code. However, usable space to mount products *within* **LIFELINE** is always *less* than its overall length, due to the space taken off by each end cap. To calculate the usable space, subtract each connector in-channel length from the overall length of **LIFELINE** specified. Then subtract another 0.1” (3 mm) off for additional tolerance.

**END CAP** takes off 0.3” (8 mm). **EC**

**POWER FEED CAP** takes off 0.8” (20 mm). **SX** **UN**

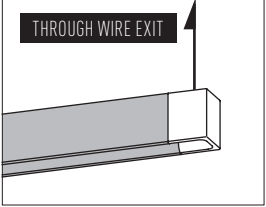
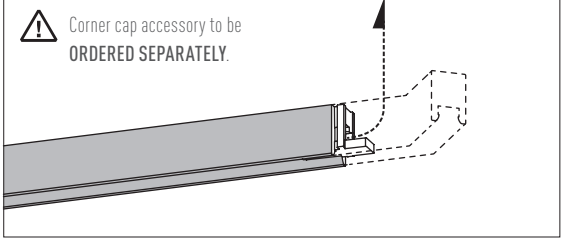
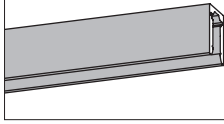
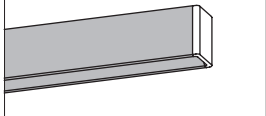
**CORNER CAP** takes off 1.3” (33 mm). **CC**

**INLINE CONNECTOR LINEAR** takes off 0.7” (18 mm) on each side.

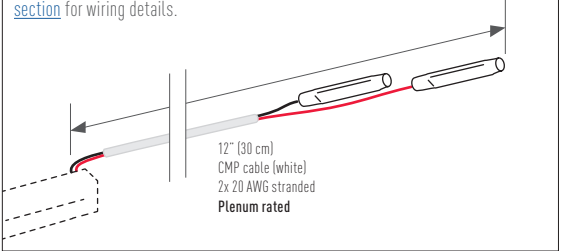
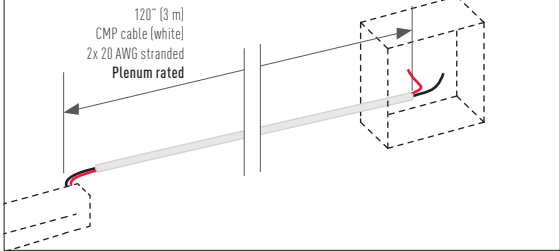
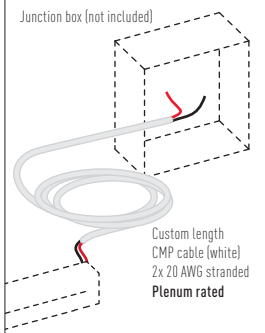


# Ceiling / Wall application wiring

## CAP OPTIONS

<p><b>SURFACE POWER FEED CAP</b>   <b>SX</b></p> <p>Ideal choice for surface/ceiling installation. Power feed cable and through hole are completely hidden.</p>  <p>THROUGH WIRE EXIT</p>	<p><b>CORNER CAP INTERFACE</b>   <b>CC</b></p> <p>Specify option <b>CC</b> at each end to interface fit a corner cap accessory when joining two LIFELINE segments at an angle. Refer to <a href="#">corner cap accessory</a>.</p> <p>⚠ Corner cap accessory to be ORDERED SEPARATELY.</p> 	<p><b>OPEN</b>   <b>OP</b></p> <p>Specify <b>OP</b> (no cap) for connection to next inline track section. Requires the adjacent track end to be <b>OP</b> also.</p> <p>⚠ Requires <b>INLINE CONNECTOR</b> accessory to be ORDERED SEPARATELY (see <a href="#">Accessories section</a>).</p> 
<p><b>END CAP</b>   <b>EC</b></p> <p>Specify <b>EC</b> cap for end of run (i.e. no cable feeds this segment end).</p> 		

## CONNECTOR AND WIRE LENGTH OPTIONS

<p><b>CABLE WITH BUTT SPLICE</b>   <b>B</b>   12</p> <p><b>SX</b> power feed cap with option <b>B12</b> (CMP Cable with integrated inline Butt splice crimps) is required for hidden connection without junction box. See <a href="#">Electrical section</a> for wiring details.</p>  <p>12" (30 cm) CMP cable (white) 2x 20 AWG stranded Plenum rated</p>	<p><b>PLENUM CABLE</b>   <b>P</b>   120</p> <p><b>SX</b> power feed cap with option <b>P</b> (CMP plenum cable) is required for installation in a junction box (not included). See <a href="#">Electrical section</a> for wiring details.</p>  <p>120" (3 m) CMP cable (white) 2x 20 AWG stranded Plenum rated</p>	<p><b>PLENUM CABLE</b>   <b>P</b>   ###</p> <p>Option <b>P</b> (CMP plenum cable) with custom length.</p> <p>Junction box (not included)</p>  <p>Custom length CMP cable (white) 2x 20 AWG stranded Plenum rated</p>
--	--	---

# Millwork application wiring

## CAP OPTIONS

**SURFACE POWER FEED CAP SX**

Ideal choice for surface installation. Power feed cable and through hole are completely hidden.

**THROUGH WIRE EXIT**

**UNIVERSAL POWER FEED CAP UN**

Ideal choice for recessed integration. Wire can be routed out to any direction.

**UNIVERSAL WIRE EXIT**

**CORNER CAP INTERFACE CC**

Specify option **CC** at each end to interface fit a corner cap accessory when joining two LIFELINE segments at an angle. Refer to [corner cap accessory](#).

⚠ Corner cap accessory to be ORDERED SEPARATELY.

**END CAP EC**

Specify **EC** cap for end of run (i.e. no cable feeds this segment end).

**OPEN OP**

Specify **OP** (no cap) for connection to next inline track section. Req. other segment end to specify **OP**.

⚠ Requires **INLINE CONNECTOR** accessory to be ORDERED SEPARATELY (see [Accessories section](#)).

## CONNECTOR AND WIRE LENGTH OPTIONS

**STANDARD CABLE C 120**

Standard cable with bare ends (included lever-nut connectors).

120" (3 m)  
CMG cable (grey)  
2x 20 AWG stranded

**MALE QUICK CONNECTOR M 2**

TE Mate-N-Lok Quick Connectors are used to feed power across segments.

2" (50 mm)  
CMG cable (grey)

M Quick-Connect (QC)  
Cross-section clearance: H0.5"xW0.187" (12.5x4.5 mm)  
When mated with F part: L 1" (24.6 mm)  
For specific dimensions and 3D model, TE #794617-2

**MALE QUICK CONNECTOR M ###**

Always specify **CUSTOM LENGTH** cable in inches by whole number in code following **M**, up to 120" max.

MALE P/N #794617-2  
Custom length AWM grey cable

**FEMALE QUICK CONN. F 2**

TE Mate-N-Lok Quick Connectors are used to feed power across segments.

2" (50 mm)  
CMG cable (grey)

F Quick-Connect (QC)  
Cross-section clearance: H0.5"xW0.187" (12.5x4.5 mm)  
When mated with M part: L 1" (24.6 mm)  
For specific dimensions and 3D model, TE #794616-2

**FEMALE QUICK CONN. F ###**

Always specify **CUSTOM LENGTH** cable in inches by whole number in code following **F**, up to 120" max.

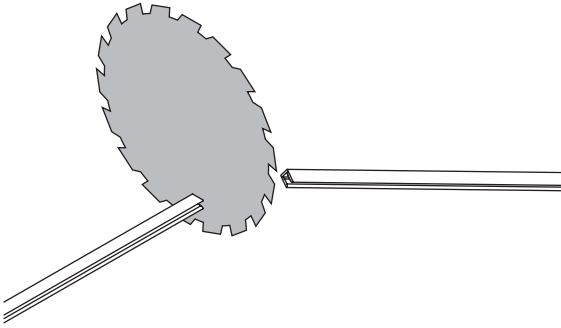
FEMALE P/N #794616-2  
Custom length AWM grey cable

**STANDARD CABLE C ###**

Standard cable with bare ends (included lever-nut connectors).

Custom length  
CMG cable (grey)  
2x 20 AWG stranded

## Field cut option



LIFELINE SURFACE can be field cut following provided procedure.

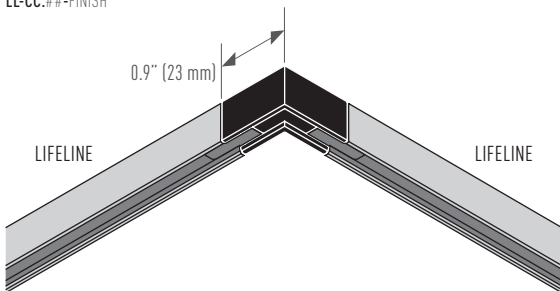


To avoid permanent damages, please follow the procedure outlined in [LIFELINE field cut instructions](#) before proceeding.

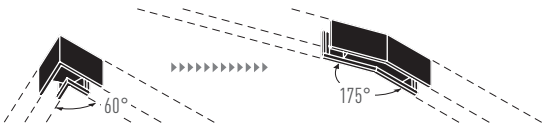
## Accessories

### Corner cap

LL-CC.##-FINISH



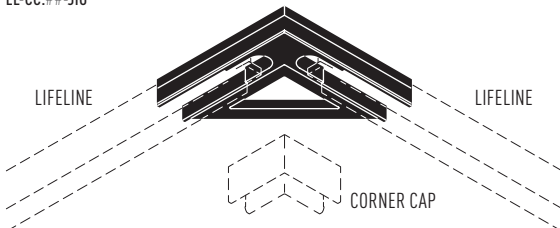
The corner cap is a required accessory (not included) when specifying **CC** interface option to both ends. This accessory is only the mechanical joint between two LIFELINE fixtures.



Angles available between 60° and 175° in 5° increments.

### Corner cap jig

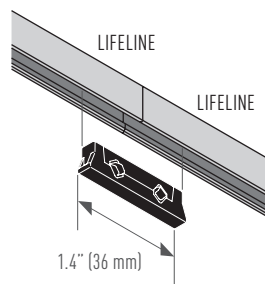
LL-CC.##-JIG



The jig is recommended to properly place the LIFELINE fixtures and the corner cap during the installation. Available for all listed corner cap angles. Jig is reusable, recommended 1 jig per angle per order.

### Inline connector

LL-ICL-ABK



Inline Connectors for Linears, enable powering contiguous LIFELINE segments using a single power feed.

### Extension cable

CAB.W3583-120-F-C

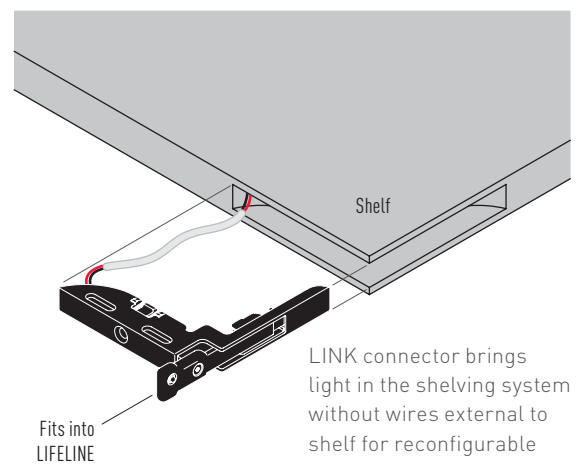
CAB.W3583-###-F-C



Available in 20AWG 120" (3m) (standard) or 20AWG custom length. Compatible with M2 connector only.

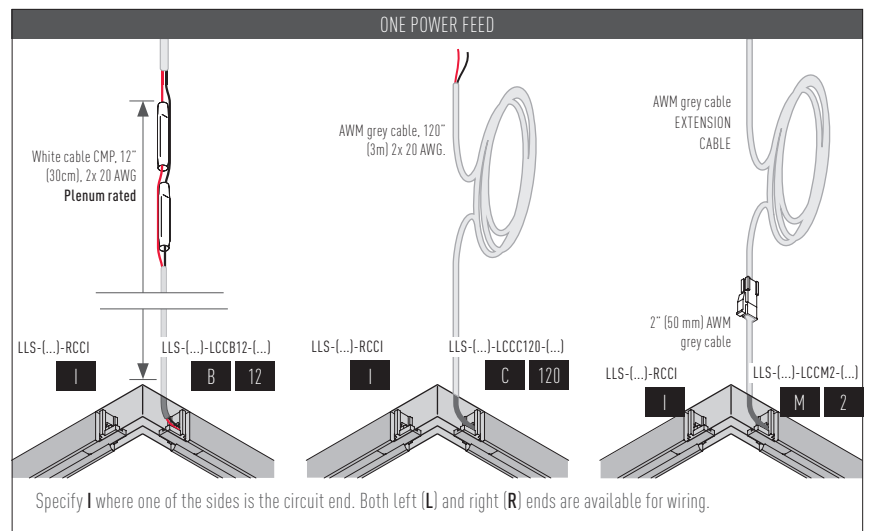
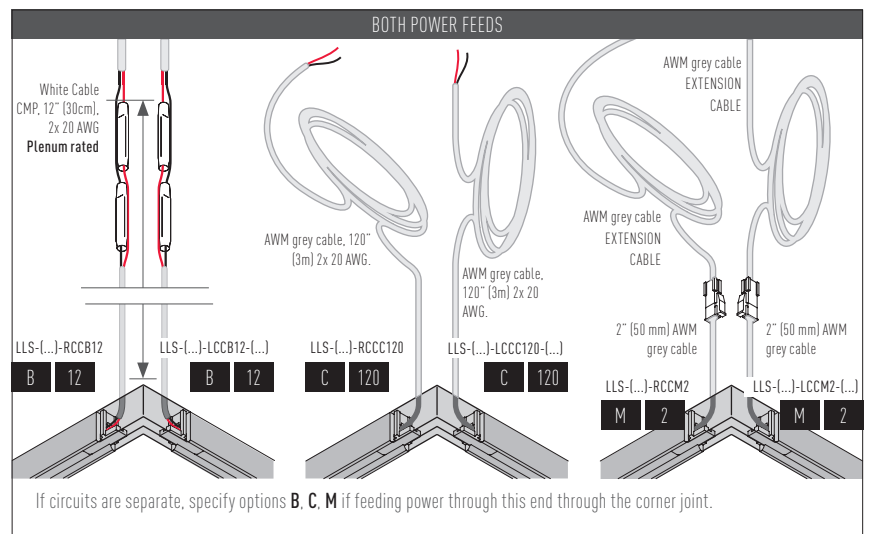
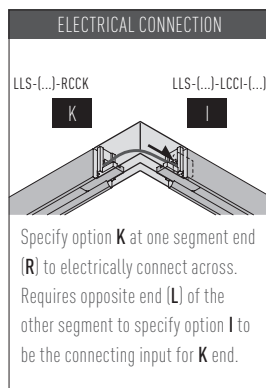
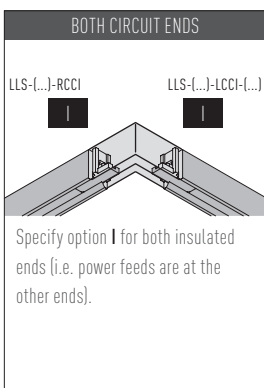
### LINK

LI-RCT-BLK



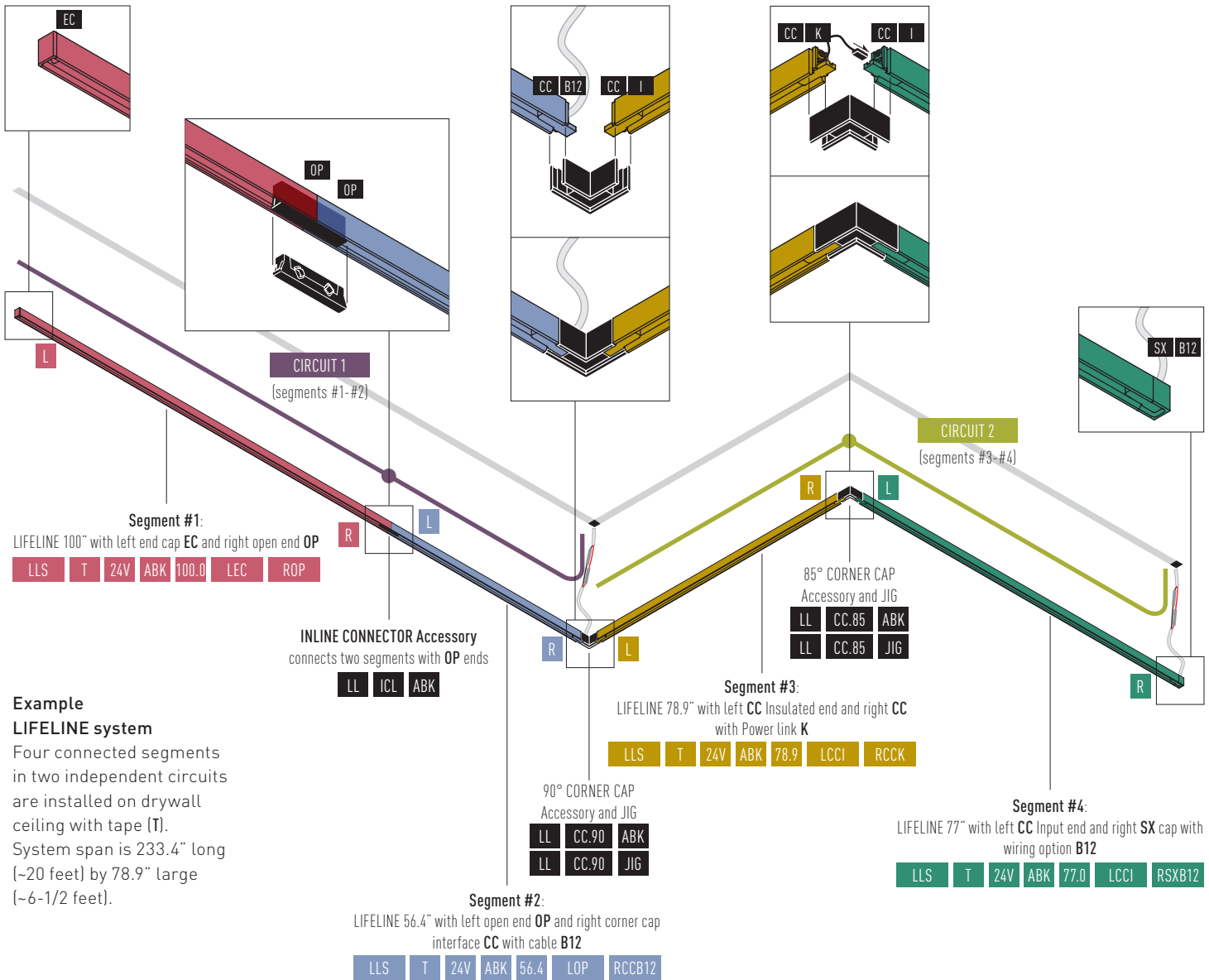
LINK connector brings light in the shelving system without wires external to shelf for reconfigurable showcase displays and cabinets. [Download specsheet](#)

WIRING OPTIONS FOR CORNER CAP





# Specifying a LIFELINE system



### Example

#### LIFELINE system

Four connected segments in two independent circuits are installed on drywall ceiling with tape (T). System span is 233.4" long (~20 feet) by 78.9" large (~6-1/2 feet).

### Example - Track segments - Order Codes

Segment #1	LLS-T-24V-ABK-100.0-LEC-ROP
Segment #2	LLS-T-24V-ABK-56.4-LOP-RCCB12
Segment #3	LLS-T-24V-ABK-78.9-LCCI-RCCK
Segment #4	LLS-T-24V-ABK-77.0-LCCI-RSXB12

### Example - Accessories - Order Codes


Inline connector linear	LL-ICL-ABK
90° corner cap	LL-CC.90-ABK
90° JIG	LL-CC.90-JIG
85° corner cap	LL-CC.85-ABK
85° JIG	LL-CC.85-JIG

A custom LIFELINE system is specified by listing order codes of each item (track segment or accessory).

When the order code system is mastered, a plan is not needed to process your order.

No sub-assembly: each line item is packed separately.

# Ceiling/wall installation ordering code

PRODUCT		CORE OPTIONS			EXTENDED OPTIONS							
ID	MOUNTING OPTIONS	INPUT	FINISH	LENGTH	WIRING OPTIONS							
LLS	T S	24V	ABK ACL MW	2.7 to 100.0	EXIT	END	CONN.	LENGTH	EXIT	END	CONN.	LENGTH
LLS	T		ABK	In inches	L	SX	B	12	R	SX	B	12
LIFELINE SURFACE	S		ACL	Specifiable by 0.1" increments.			P	120			P	120
			MW	 Usable space is always LESS than LENGTH. See <a href="#">Length calculation section.</a>			B	12			B	12
			ABK			Anodized black	P	120		P	120	
			ACL			Anodized clear	###	###		###	###	
			MW	Matte white		K		K				
					I		I					
					OP		OP					
					EC		EC					

LIFELINE overall length and connection lengths are always specified in inches. Convert mm lengths to inches in order codes.

[For remote power - Cable length limits, see our document K01](#)

**SX**  
Surface mount power feed cap

**CC**  
CC Interface end cap; Required to mate with corner cap accessory (to order separately)

**OP**  
Open end; no cap option. To feed electrical to adjacent track, requires linear inline connector accessory (to order separately)

**EC**  
End cap; for track ends without any connections

**B 12**  
12" CMP Cable (2x 20 AWG) with inline butt splice crimps. Required for ceiling/wall install.

**K**  
**Only with CC cap**  
"Power link" feeds electrical to adjacent CC joined track. Must mate with I input link from adjacent corner joined track.

**P**  
Plenum rated cable.

**I**  
**Only with CC cap**  
"Insulated/Input link" is a dual use option. Its insulated terminated as in mechanical joining only of track segments. Its also an input link that can accept Power link connector from adjacent track (CCK)

ORDERING CODE	EXAMPLE	LLS	-	T	-	24V	-	ACL	-	INCHES	62.5	-	LSXB12 - REC
			-		-		-		-			-	
			-		-		-		-			-	
			-		-		-		-			-	

# Millwork installation ordering code

PRODUCT		CORE OPTIONS			EXTENDED OPTIONS							
ID	MOUNTING OPTIONS	INPUT	FINISH	LENGTH	WIRING OPTIONS							
LLS	T	24V	ABK	2.7 to 100.0	EXIT	END	CONN.	LENGTH	EXIT	END	CONN.	LENGTH
LLS LIFELINE SURFACE	S		ABK Anodized black	In inches  Specifiable by 0.1" increments.  ⚠ Usable space is always LESS than LENGTH. See <a href="#">Length calculation section.</a>	L	SX	C	120	R	SX	C	120
							###	###				
	M						2	M			2	
	###		###				F	2				
	F		###				###	###				
	###		###				###	###				
	UN		C			120	UN	C	120			
			###			###		M	2			
			M			###		M	###			
			###			###		F	2			
F	###	###	CC	C	120							
	###	###		M	2							
	###	###		M	###							
K	###	###	I	K	###							
	###	###		I	###							
	###	###		OP	###							
EC	###	###	EC	EC	###							
	###	###		EC	###							

LIFELINE overall length and connection lengths are always specified in inches. Convert mm lengths to inches in order codes.

Custom cable lengths available for Millwork standard (C) and quick connectors terminated (M, F). For further details, refer to [End options section.](#)

[For remote power - Cable length limits, see our document K01](#)

- SX**  
Surface mount power feed cap
- UN**  
Universal power feed cap; for recessed installation or total freedom with cable routing path
- CC**  
CC Interface end cap; Required to mate with corner cap accessory (to order separately)
- OP**  
Open end; no cap option. To feed electrical to adjacent track, requires linear inline connector accessory (to order separately)
- EC**  
End cap; for track ends without any connections

- C 120**  
120" cable standard UL with bare wire ends and lever-nut connectors
- M 2**  
Male Quick Connect with 2" standard UL appliance cable
- F 2**  
Female Quick Connect with 2" standard UL appliance cable
- K**  
Only with CC cap "Power link" feeds electrical to adjacent CC joined track. Must mate with I input link from adjacent corner joined track.
- I**  
Only with CC cap "Insulated/Input link" is a dual use option. Its insulated terminated as in mechanical joining only of track segments. Its also an input link that can accept Power link connector from adjacent track (CCK)

ORDERING CODE	EXAMPLE	LLS	-	S	-	24V	-	ABK	-	INCHES 100.0	-	LUNC120 - REC
			-		-		-		-		-	
			-		-		-		-		-	
			-		-		-		-		-	

## Accessories ordering code

### Extention cable

CAB.W3583	120	F	C
	###		

120  
120" (3m) standard  
length

###  
Custom length in  
inches

EXAMPLE	CAB.W3583	INCHES 146	F	C
ORDERING CODE				

### Inline connector

LL	ICL	ABK
----	-----	-----

ORDERING CODE			

### Link

LI	RCT	BLK
----	-----	-----

ORDERING CODE			

### Corner cap

LL	CC.60	ABK
	CC.65	ACL
	CC.70	MW
	CC.75	ABK Anodized black
	CC.80	
	CC.85	ACL Anodized clear
	CC.90	
	CC.95	MW Matte white
	CC.100	
	CC.105	
	CC.110	
	CC.115	
	CC.120	
	CC.125	
	CC.130	
	CC.135	
	CC.140	
	CC.145	
	CC.150	
	CC.155	
	CC.160	
	CC.165	
	CC.170	
	CC.175	

CC.###  
Corner cap angle in  
degrees

EXAMPLE	LL	CC.120	ABK
ORDERING CODE			

### JIG

LL	CC.60	JIG
	CC.65	
	CC.70	
	CC.75	
	CC.80	
	CC.85	
	CC.90	
	CC.95	
	CC.100	
	CC.105	
	CC.110	
	CC.115	
	CC.120	
	CC.125	
	CC.130	
	CC.135	
	CC.140	
	CC.145	
	CC.150	
	CC.155	
	CC.160	
	CC.165	
	CC.170	
	CC.175	

CC.###  
JIG angle in  
degrees

EXAMPLE	LL	CC.120	JIG
ORDERING CODE			

ARCHITECTURAL LIGHTING **EKLIPSE**

2090 rue Moreau  
Suite 100  
Montréal, QC - H1W 2M3  
Canada

T +1 514 590 0099  
INT 1 877 590 0099  
F +1 514 590 0098  
sales@eklipselighting.com  
www eklipselighting.com

ROHS COMPLIANT cULus CE FC

CAN ICES-005 (B) CAN NMB-005 (B)

MADE IN FABRIQUÉ AU CANADA

## Warranty

Our products and related parts are guaranteed for **three (3) years**. See our terms and conditions on [www eklipselighting.com](http://www eklipselighting.com)