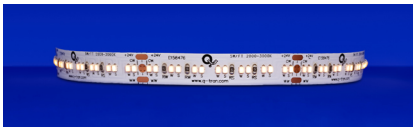
DW-HE24/4.0

LED Strips - For Tunable Applications



- High efficacy dynamic white linear LED strip for tunable applications
- 14 diodes per 2" cut point
- 7 diodes per CCT
- Ambient operating temp: -4-130°F
- Installation temp: 50-100°F | Storage temp: -4-140°F
- Calculated L70 = 70000 hrs
- When using DALI and DMX power supplies, LED wattage must be doubled

1 V/WATTS	2 RATED	3 CCT	4 CONNECTOR/WIRE IN	5 CONNECTOR/WIRE OUT	6 WIRE COLOR	7 WIRE TYPE	8 ILLUMINATED LENGTH
DW-HE24/4.0	DRY						

Sample Part Number: **DW-HE24/4.0-DRY-20/27-BW-CLS-WH-CL2-48"**

1 V/WATTS

DW-HE24/4.0

Voltage: 24VDC
Wattage: 4.0W/ft
LED engine is built with 3 wires requiring 0-10V, DMX or DALI control.
Using DALI, DMX, or non QTL power supplies may double watts/ft.
See following pages for compatible power supplies.

2 RATED

DRY	IP20

3 CCT

18/30	1800K/3000K
18/35	1800K/3500K
20/27	2000K/2700K
24/40	2400K/4000K
20/30	2000K/3000K
27/40	2700K/4000K
27/55	2700K/5500K

4 CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24")
CLS	Closed End (No feed)
CON6	Connector 6"
CON24	Connector 24"

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

5 CONNECTOR/WIRE OUT

BW	Bare Wire (Standard 24")
CLS	Closed End (No feed)
CON6	Connector 6"
CON24	Connector 24"

Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

6 WIRE COLOR

WH	White
BK	Black

7 WIRE TYPE

CL2	Class 2
CL2P	Class 2 Plenum Rated

CL2P only available with bare wire leads (BW)

8 ILLUMINATED LENGTH

DRY: 2"-144" in 2" increments
DMP: 2"-144" in 2" increments

Dry version also available in reel lengths of 12' (Class 2) and 100'. Each reel will have a 2' soldered lead wire attached. Contact factory for larger reels.

COMPATIBLE EXTRUSIONS

	WIDE	TORQ	TRE3	LALO	TALO	ARKA	TELA	VEVE	FLUR	EMBD	LATO	MDIN	OPTI-FLAT	OPTI-OPTICS	THIN	POSH
DRY	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓		
DMP																
WET																

5 year warranty | Warranty only valid with QTL power supplies | Field modifications must comply with QTL's installation methods otherwise warranty is null & void | All data has +/- 5% tolerance | UL Listed | Consult factory for alternate Kelvin temperature | Title 24 - JA8-2019 Strips: DRY rated, 2000K and above

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DW-HE24/4.0

LED Strips - For Tunable Applications

3 CCT – LUMENS/CRI - DELIVERED LUMENS

DRY

[Calculated L70 = 70000 hrs]
Tested with DW-HE24/4.0-DRY
Data in these tables measured at the endpoint of each range. For example, 3000K value is take from the 20/30K LED strip

CCT	Lumen/ft	Luminous Efficacy	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	Circuit Wattage
1800K	***	***	***	***	***	***	***
2000K	348	87 Lm/W	93	61	87	105	4.01
2400K	***	***	***	***	***	***	***
2700K	418	104 Lm/W	97	94	94	100	4.03
3000K	437	110 Lm/W	98	93	93	99	3.96
3500K	***	***	***	***	***	***	***
4000K	449	116 Lm/W	97	99	93	100	3.90
5500K	488	121 Lm/W	97	94	92	100	4.00

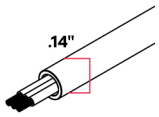
TEMPERATURE RATINGS

	Min	Max
Ambient Operating Temp - Surface	-4°F	130°F
Storage Temp	-4°F	140°F
Installation Temp	-50°F	100°F

4/5 CONNECTOR/WIRE – IN/OUT

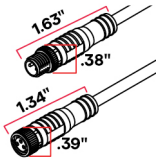
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW



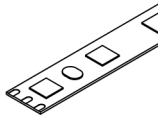
Bare Wire 24"
22 AWG

CON6/CON24



6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

CLS



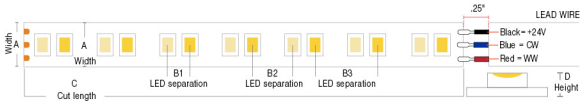
Not soldered

6 WIRE COLOR

White

Black

8 ILLUMINATED LENGTH - DIMENSIONS



Section (in)	A	B1	B2	B3	C	D
DRY (IP20)	0.39"	0.07"	0.20"	0.27"	2.00"	0.05"

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Specification subject to change. Rev-08-07-26

DW-HE24/4.0

LED Strips - For Tunable Applications

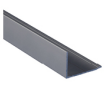
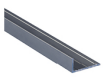
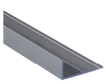
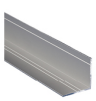
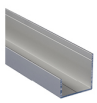
COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR
	DW-HE Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle

DIMMING PROTOCOL	INDOOR
	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QTM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8-AWN
DMX LED wattage must be doubled for DW-HE products	QZ-DMX
DALI-2: DT6 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6
DALI-2: DT8 LED wattage must be doubled for DW-HE products except for AWN	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with TW App Dongle

COMPATIBLE MOUNTING ACCESSORIES

QUOVA-MICRO	BL-GRAZER	BL-MICRO	BL-LARGE	SD-L-LARGE	SD-L-MEDIUM	SD-L-MICRO	SD-J-LARGE	iQ-STRAP
								
QUOVA Knife Edge	Backwards L Mounting Bracket	Backwards L Mounting Bracket	Backwards L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	J Mounting Bracket	Plastic strap, Fits all LED strips

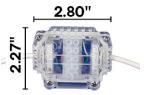
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DW-HE24/4.0

LED Strips - For Tunable Applications

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP



Read and write DMX addresses and adjust voltage

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DW-HE24/4.0

LED Strips - Lumen Multiplier

Finish

ST Satin finish **BK** Black finish **BZ** Bronze finish

Lens

CL Clear **FR** Frosted **PR** Polar **DF** Diffused



Lumen Multiplier Formula

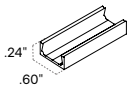
Bare LED Lumens x Extrusion Finish/Lens Value

Example:

437 lm/ft x 0.61 = 266.57 lm/ft

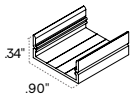
DW-HE24/4.0 at 3000K x TORQ Extrusion in Black with FR Lens

SLIM



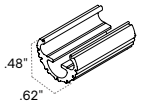
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.90	0.87	0.87
DF	0.75	0.64	0.64

WIDE



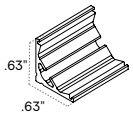
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.90	0.81	N/A
FR	0.87	0.79	N/A
PR	0.84	0.74	N/A
DF	0.76	0.63	N/A

ROND



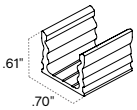
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.83	**	N/A
FR	0.81	**	N/A
PR	0.77	**	N/A
DF	0.71	**	N/A

ARKA



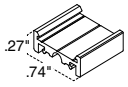
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.95	0.90	0.90
FR	0.93	0.89	0.89
PR	0.86	0.81	0.81
DF	0.79	0.70	0.70

TORQ



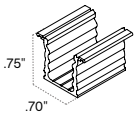
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.76	0.63	0.63
FR	0.74	0.61	0.61
PR	0.64	0.51	0.51
DF	0.57	0.41	0.41
ENC/CL	0.64	0.36	0.36
ENC/TL	0.53	0.26	0.26

TRE3



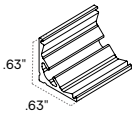
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
DF	0.76	N/A	N/A

FLUR



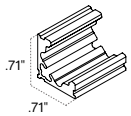
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.68	0.55	N/A
FR	0.66	0.51	N/A
PR	0.54	0.38	N/A
DF	0.45	0.28	N/A
ENC/CL	0.54	0.30	N/A
ENC/TL	0.34	0.16	N/A

TELA



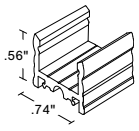
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
FR	0.89	0.86	0.86
PR	0.83	0.79	0.79
DF	0.79	0.72	0.72

VEVE



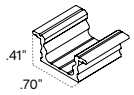
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.83	0.71	N/A
FR	0.82	0.71	N/A
PR	0.76	0.63	N/A
DF	0.64	0.50	N/A

TALO



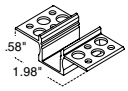
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.84	0.71	N/A
FR	0.83	0.70	N/A
PR	0.77	0.64	N/A
DF	0.70	0.54	N/A
ENC/CL	0.72	0.46	N/A
ENC/TL	0.36	0.20	N/A

LATO



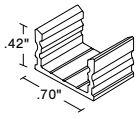
Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.83	0.70	0.70
FR	0.83	0.70	0.70
PR	0.77	0.63	0.63
DF	0.66	0.51	0.51
ENC/CL	0.73	0.48	0.48
ENC/TL	0.47	0.27	0.27

MDIN-S



Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
DF	0.51	N/A	N/A

LALO



Lens	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
CL	0.83	0.71	N/A
FR	0.83	0.70	N/A
PR	0.78	0.63	N/A
DF	0.70	0.53	N/A
ENC/CL	0.73	0.47	N/A
ENC/TL	0.39	0.20	N/A

Diode free or near Diode free

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Specification subject to change. Rev-10-03-25

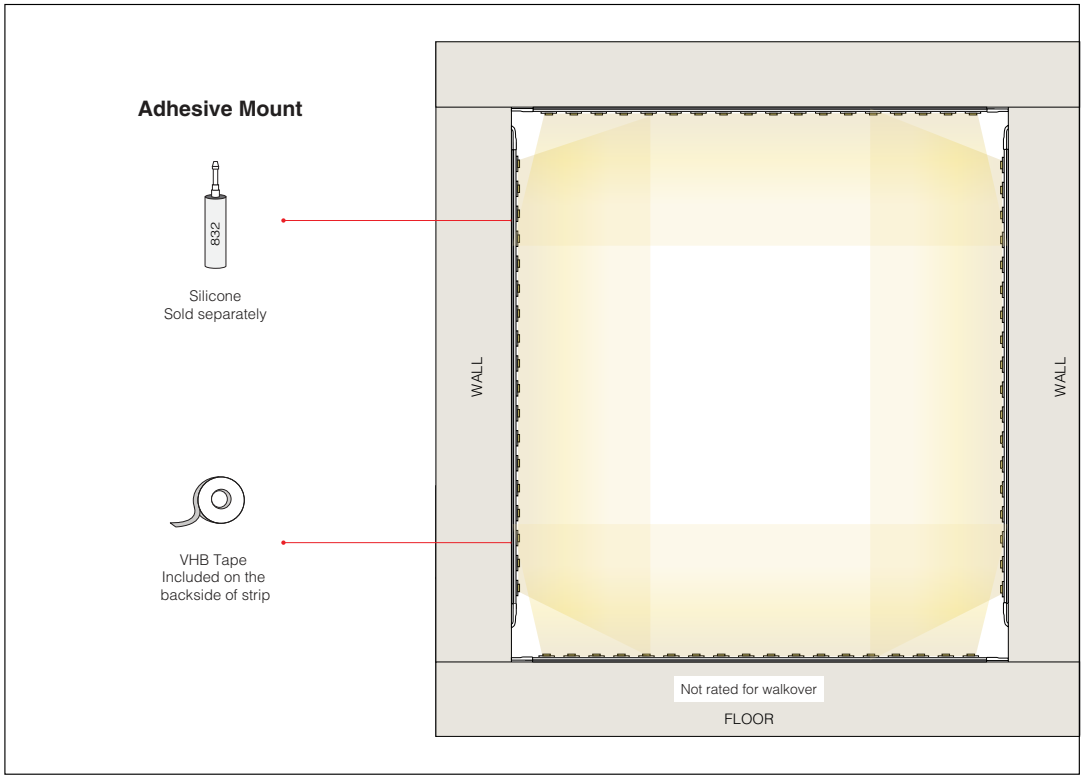
LINEAR LED STRIP

Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician
- Always ensure power supply connection to electrical circuit is disconnected before working on it
- Follow diagram to connect Secondary Voltage wires to power supply. Refer to QTL power supply instructions for wiring
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Suitable for DRY, DAMP, and WET locations
- Suitable for installation in storage area of a clothes closet when assembled as a finished extrusion up to 4W/ft at QTL facility
- Temp Rating: Refer to cut sheet
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.
- Once a wet strip or a damp strip is cut, it cannot be reconnected.

METHODS OF INSTALLATION:



NOTES:

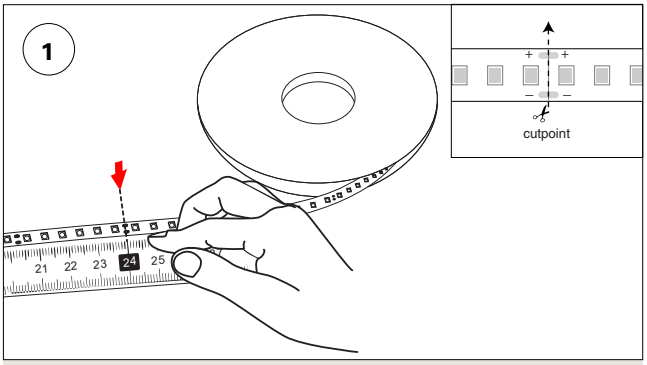
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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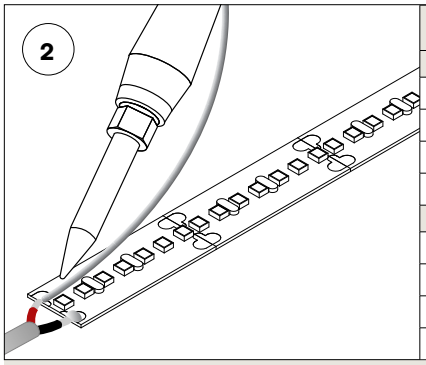
LINEAR LED STRIP
Installation Instructions

LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DRY IP20**

If LED wires are pre-soldered from the factory, skip to page 5.



Measure and cut LED strip to desired length with scissors along the cut point.

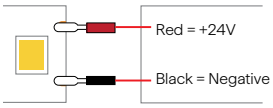


ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

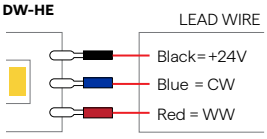
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

NOTE: Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.

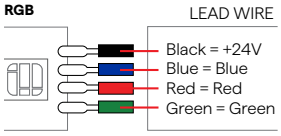
SW, SC, SD-SW, SW-HE, SW-HE+



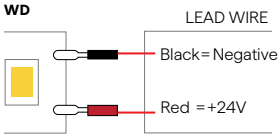
DW-HE



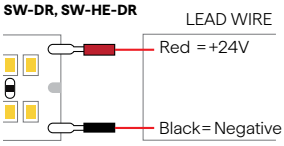
RGB



WD



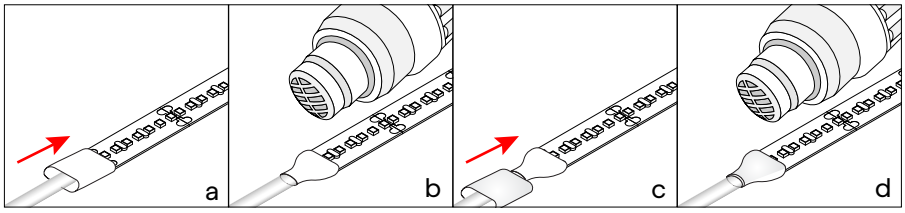
SW-DR, SW-HE-DR



*Middle rail is optional 24V do not connect both 24V rails to power

3

NOTE:
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place 1st sleeve (1/2" Shrink Tube) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube) on lead wire.

d: Shrink the tube with heat gun.

NOTES:

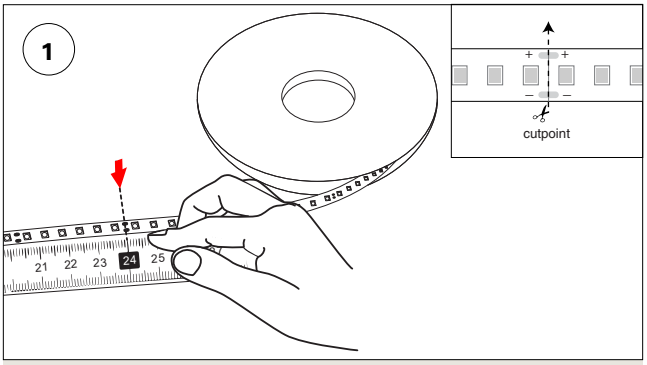
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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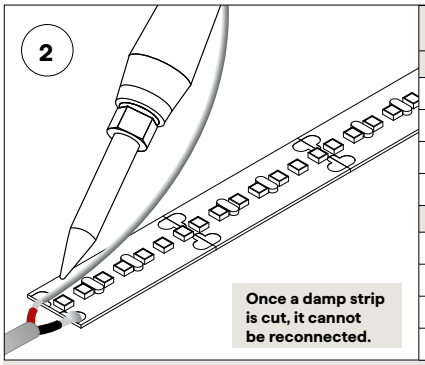
LINEAR LED STRIP
Installation Instructions

LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

If LED wires are pre-soldered from the factory, skip to page 5.



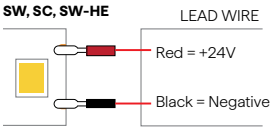
Measure and cut LED strip to desired length with scissors along the cut point.

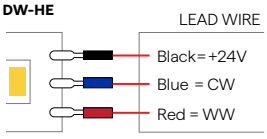


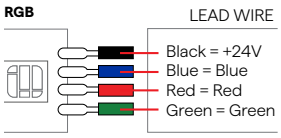
ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

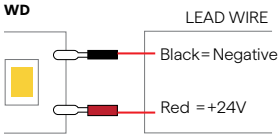
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

NOTE: Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.



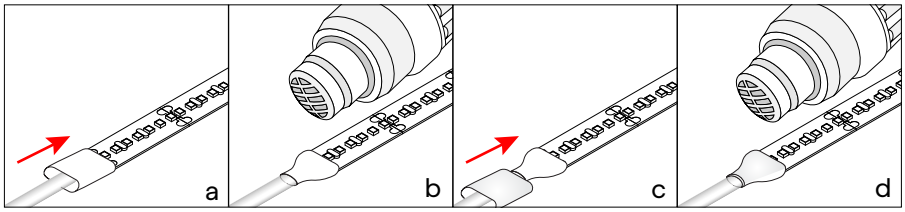






3

NOTE:
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place 1st sleeve (1/2" Shrink Tube) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube) on lead wire.

d: Shrink the tube with heat gun.

NOTES:

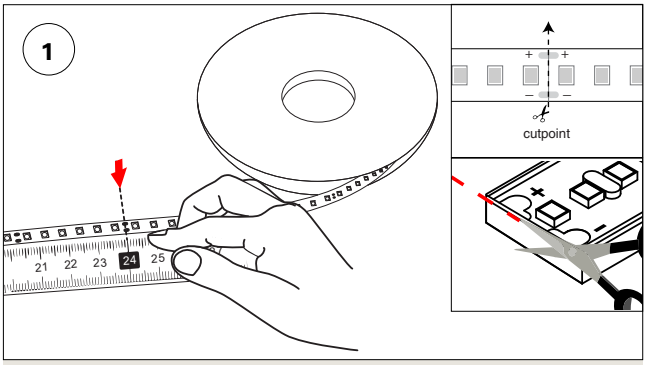
- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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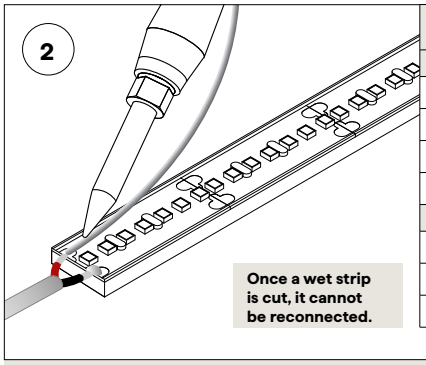
LINEAR LED STRIP
Installation Instructions

LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **WET IP67**

If LED wires are pre-soldered from the factory, skip to page 5.



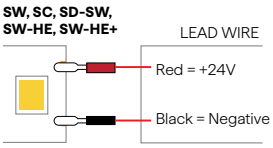
Measure and cut LED strip to desired length with scissors along the cut point.

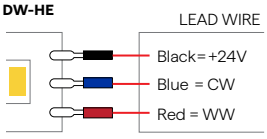


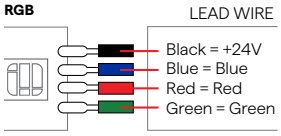
ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

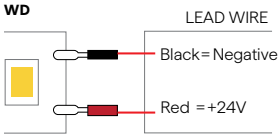
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

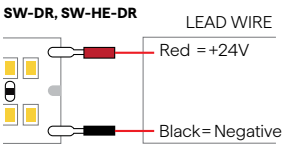
NOTE: Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.







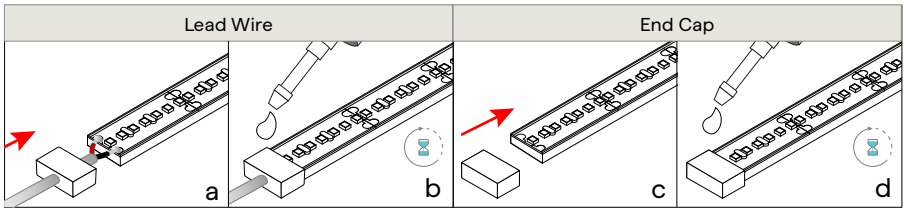




*Middle rail is optional 24V do not connect both 24V rails to power

3

NOTE:
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place lead wire cap over wire

b: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

c: Place end cap over the end of LED

d: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

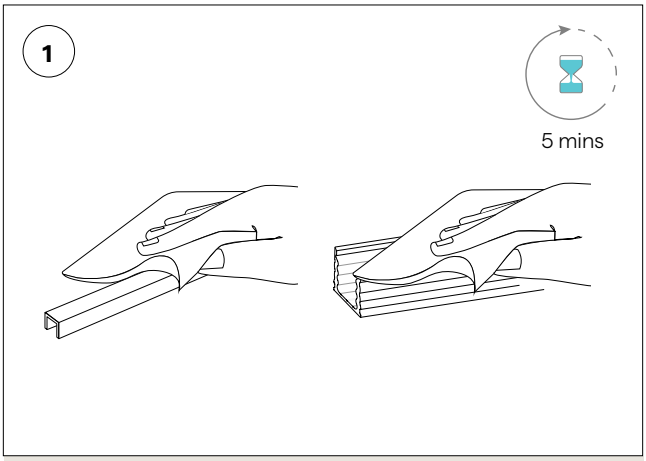
NOTES:

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

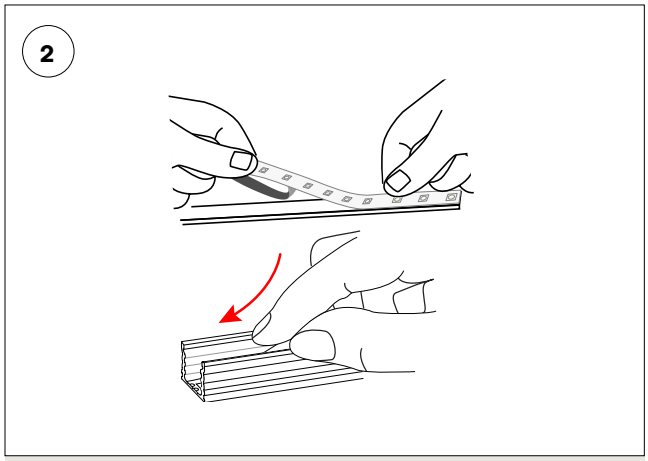
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LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

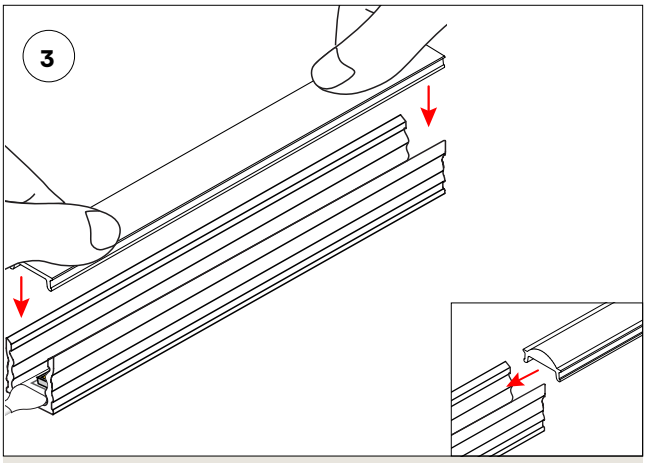
STRIP IN EXTRUSION



Using a 50/50 alcohol mix thoroughly clean, the surface of the extrusion and the multi-tray surface. Allow time to dry (about 5 minutes).

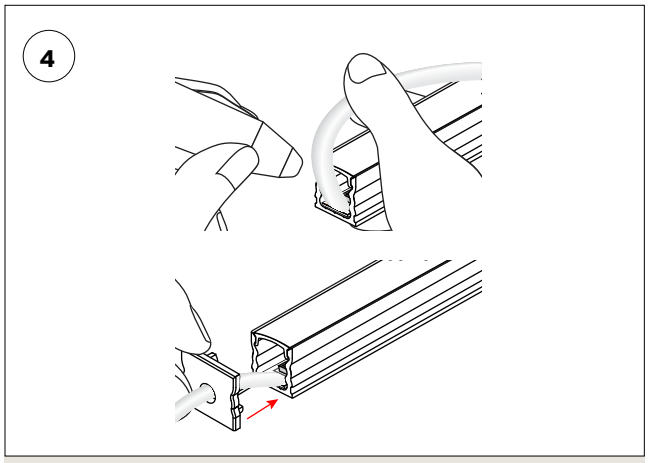


Gently place LED in extrusion/tray. Apply firm pressure to the bonding surface. This will reduce the chances of dust and debris from contaminating adhesive. The smallest amount of exposed adhesive is the best case.



Flat Lenses: Apply uniform pressure until the extrusion and lens snap securely together.

Optical Lenses: Starting from one end of the extrusion, slide the lens into the grooved lip of the extrusion until secured in place.



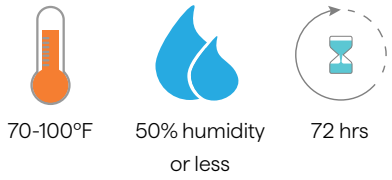
Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

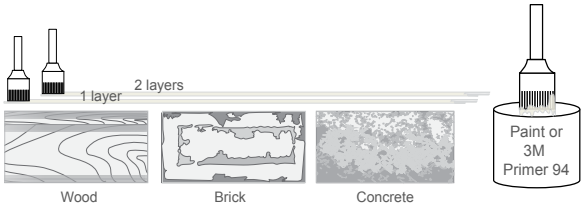
1



Temperature and environmental concerns:

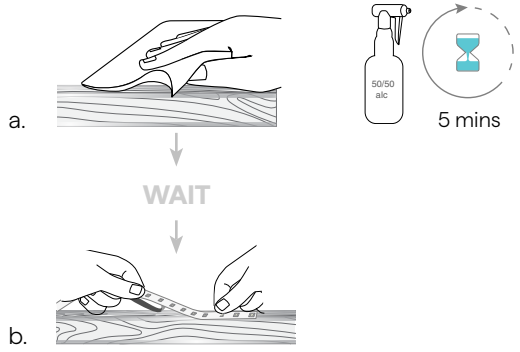
- Ideal application environment is 70-100°F in 50% humidity or less.
- Minimum application temperature: 50°F
- This temperature and humidity should be maintained for 72 hours after application for maximum bond strength.

2



For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

3



a. Using a 50/50 alcohol mix, thoroughly clean surface area where LED will be installed. Allow 5 minutes to dry.

b. Peel back 0.5" of the VHB tape's protective film on one end of LED and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the strip in small sections until the entire length is installed.

MATERIALS	SUGGESTED EPOXIES
Concrete, Stone, Cinderblock, Metal, and Brick	Loctite Metal and Concrete Two-Part Epoxy
ABS, Fiberglass, Plastic, and PVC	Loctite Plastic Two-Part Epoxy
Tile, Wood, Ceramic, Glass, or Metal	Loctite Clear Two-Part Epoxy
All Purpose	Strong Stik

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DW-HE24/4.0

Linear LED Strips Color Data

2000K

2013 K

CRI: 92.7

CRI R9: 60.8

TM30 Rf: 87.1

TM30 Rg: 105.4

CQS: 77.3

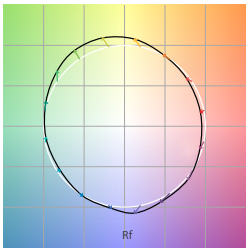
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Y: 0.407

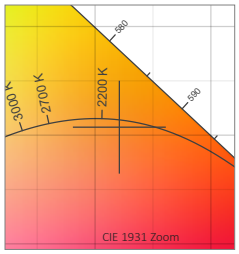
U: 0.304

V: 0.357

Δuv: -0.0020







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.8	97.0	96.8	93.1	93.3	97.3	89.9	80.3	60.8	91.0	94.8	91.4	95.0	96.4	88.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
72.6	83.5	79.5	80.6	80.2	74.0	69.3	73.4	84.3	81.5	80.3	79.0	78.9	78.8	76.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
89.5	86.3	83.3	84.9	86.9	84.7	81.6	85.3	89.6	93.4	90.4	88.1	88.8	72.7	84.6	87.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	90	-5%	-1%
2	86	-3%	6%
3	83	0%	9%
4	85	8%	9%
5	87	12%	5%
6	85	12%	-1%
7	82	7%	-10%
8	85	1%	-11%
9	90	-2%	-5%
10	93	-4%	1%
11	90	0%	5%
12	88	3%	4%
13	89	8%	-9%
14	73	3%	-15%
15	85	2%	-11%
16	87	-3%	-9%

2700K

2732 K

CRI: 97.1

CRI R9: 93.7

TM30 Rf: 94.4

TM30 Rg: 100.1

CQS: 95.3

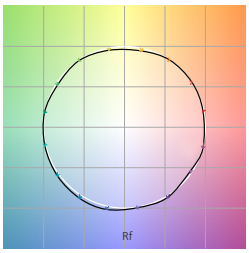
X: 0.455

Y: 0.405

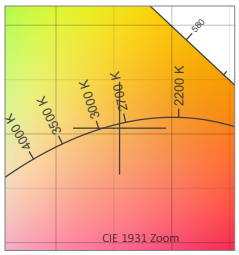
U: 0.262

V: 0.350

Δuv: -0.0016







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.3	97.6	99.2	98.2	97.1	94.6	96.5	96.5	93.7	96.7	95.5	87.5	97.0	98.4	98.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.2	95.1	94.8	94.5	95.3	96.6	96.3	96.5	97.4	97.7	97.6	97.6	97.4	94.4	94.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.5	97.5	96.6	93.5	95.9	97.1	94.5	96.9	93.5	92.9	93.3	92.2	92.8	92.9	93.5	91.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	96	-1%	1%
2	97	0%	0%
3	97	0%	0%
4	94	-3%	-3%
5	96	-3%	0%
6	97	0%	2%
7	95	-2%	3%
8	97	1%	2%
9	94	1%	4%
10	93	2%	4%
11	93	4%	3%
12	92	4%	-3%
13	93	1%	-6%
14	93	2%	-5%
15	93	-2%	0%
16	92	0%	-7%

3000K

3032 K

CRI: 97.9

CRI R9: 93.4

TM30 Rf: 93.4

TM30 Rg: 99.1

CQS: 95.1

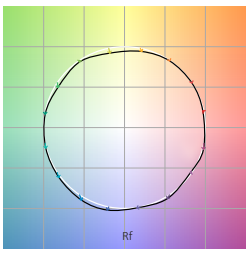
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Y: 0.403

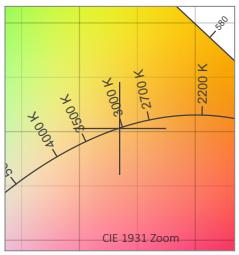
U: 0.250

V: 0.347

Δuv: -0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	99.1	98.3	98.7	98.2	97.0	97.0	96.5	93.4	99.8	98.2	83.9	98.5	97.9	98.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
91.5	95.8	93.8	92.8	93.8	95.4	97.8	97.8	97.5	97.6	98.3	97.8	98.1	96.0	94.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.8	97.3	96.8	93.3	92.9	96.6	90.7	95.7	91.7	89.5	90.9	92.7	93.9	92.7	91.5	90.7

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	97	0%	-1%
4	93	-4%	-3%
5	93	-6%	0%
6	97	-2%	1%
7	91	-4%	4%
8	96	-1%	3%
9	92	0%	6%
10	89	2%	6%
11	91	4%	6%
12	93	4%	-1%
13	94	0%	-5%
14	93	2%	-5%
15	91	-1%	-1%
16	91	1%	-7%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-03-11-24

DW-HE24/4.0

Linear LED Strips Color Data

4000K

4106 K

CRI: 97.3

CRI R9: 98.7

TM30 Rf: 92.5

TM30 Rg: 99.5

CQS: 94.9

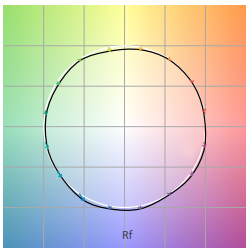
X: 0.377

Y: 0.376

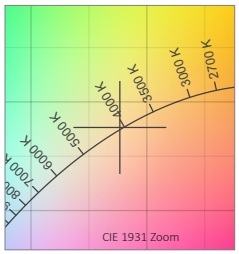
U: 0.223

V: 0.334

Δuv: 0.0010







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	98.2	95.1	97.6	96.4	94.9	98.9	98.3	98.7	93.8	97.2	72.5	98.6	96.7	96.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.8	99.0	89.5	88.6	92.6	95.1	97.0	98.5	97.6	97.7	97.9	98.9	99.3	99.1	97.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.1	97.3	96.1	93.2	91.9	96.3	94.3	93.2	89.9	87.5	86.4	93.1	94.8	95.1	90.4	90.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-1%	0%
2	97	0%	0%
3	96	-1%	0%
4	93	-3%	-1%
5	92	-5%	0%
6	96	-2%	1%
7	94	-3%	2%
8	93	-2%	4%
9	90	-1%	8%
10	88	0%	8%
11	86	4%	9%
12	93	3%	3%
13	95	3%	-1%
14	95	1%	0%
15	90	3%	-4%
16	90	2%	-5%

5500K

5843 K

CRI: 97.0

CRI R9: 93.7

TM30 Rf: 92.1

TM30 Rg: 99.5

CQS: 94.4

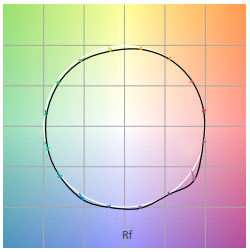
X: 0.325

Y: 0.336

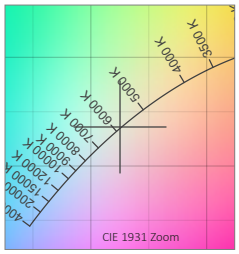
U: 0.204

V: 0.316

Δuv: 0.0026







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.5	98.9	97.4	97.0	96.2	95.0	97.4	96.9	93.7	98.7	98.4	73.9	98.4	98.4	94.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
93.4	99.0	89.5	87.2	91.2	94.3	98.2	98.7	98.0	98.0	96.9	97.6	98.2	98.1	96.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.4	96.9	95.5	92.9	90.4	95.0	95.5	90.0	88.9	86.4	86.5	96.7	94.3	95.1	85.8	96.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	93	0%	1%
2	97	0%	1%
3	95	0%	-1%
4	93	-3%	-2%
5	90	-6%	-1%
6	95	-3%	0%
7	95	-3%	1%
8	90	-3%	5%
9	89	-2%	10%
10	86	1%	9%
11	87	4%	8%
12	97	2%	1%
13	94	3%	-1%
14	95	1%	-1%
15	86	9%	-7%
16	96	-1%	1%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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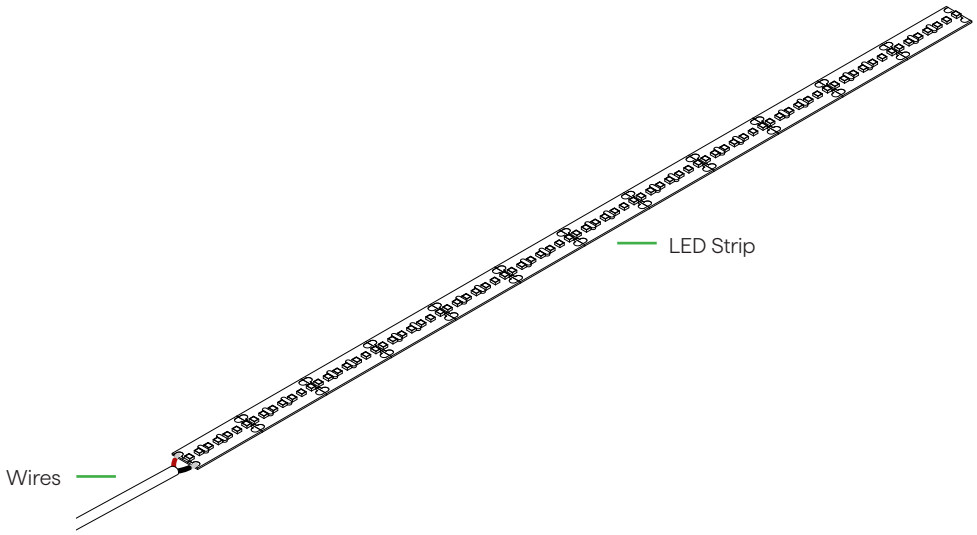
Specification subject to change. Rev-03-11-24

MATERIAL RECYCLING

LINEAR LED STRIPS

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.



E

LED Strips
Wires

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