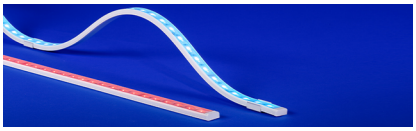
Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures





- Flexible encapsulated fixture with CLEAR encapsulation only
- Both helical bend and up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Two mounting options available
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures

ORDERING PROCESS

(A) Specify Non-Field Cuttable Q-CAP

(B) (Optional) Specify field cuttable 4' piece - used to adjust total run length in the field (dry applications only)

A. NON-FIELD CUTTABLE Q-CAP

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

A1	A2	A3	A4	A5	A6
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS
WURM-RGBW				4.0HE	ENC/CL

ADDITIONAL INFORMATION REQUIRED TO ORDER

A7	A8	A9	A10	A11	A12
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	END CAPS	LENGTH (IN)	EXACT/ OPTIMAL
			WH		

Sample Part Number: **WURM-RGBW-WSCS-DRY-RGBW-30-4.0HE-ENC/CL-P1-BW-BW-N/A-48"-E**

A1 PRODUCT

WURM-RGBW

See last page for compatible power supplies.

A2 MOUNTING

MCS	Magnetic Clip Small
WSCS	White Snug Clip Small
BN-UD-SST-16'	16' BENDIT Up/Down Stainless Steel Channel
BN-UD-SST-32'	32' BENDIT Up/Down Stainless Steel Channel
BN-UD-WH-16'	16' BENDIT Up/Down White Stainless Channel
BN-UD-WH-32'	32' BENDIT Up/Down White Stainless Channel

White snug clip only for indirect cove use, not intended for hanging fixtures upside down.

A3 RATED

DRY	IP20
WET	IP67

A4 CCT

RGBW-27	RGBW-2700K
RGBW-30	RGBW-3000K
RGBW-35	RGBW-3500K
RGBW-40	RGBW-4000K

A5 WATTAGE

4.0HE 4.0WHE-SO

SO: Standard Output

A6 LENS

ENC/CL Encapsulated in Clear

For representation of LED visibility, see Diode Visibility section on following pages

A7 WIRE INPUT/OUTPUT

SINGLE (Input only)
S1 End Feed

PASS THROUGH (Input/Output)
P1 End Feed

A8 CONNECTOR/WIRE IN

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

A9 CONNECTOR/WIRE OUT

N/A Closed End (No feed)

BW Bare Wire (Standard 24")
CON6 Connector 6"
CON24 Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

A10 END CAPS

Single
WH White

Pass Through
N/A Not Applicable

A11 LENGTH (IN)

Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12".
RGBW-HE: Available in 2" increments.

A12 EXACT/OPTIMAL

O Optimal Illumination
E Exact Specified Length

Exact fixtures are the exact length specified +0 -1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.

5 year warranty | Up/Down & Helical Bend | Data subject to change, all data has +/- 5% tolerance | Ambient or mounting surface must not be lower than -4°F or higher than 125°F | Patent # D846,786 S, 10,619,828 B2 | Only FC fixtures are Field-Cuttable per installation instructions | Field Cuttable is not returnable or refundable after it has been cut

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Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

ADDITIONAL INFORMATION REQUIRED TO ORDER

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS	WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	END CAPS	LENGTH (IN)	EXACT/ OPTIMAL
WURM-FC-RGBW		DRY		4.0HE	ENC/CL			N/A	WH	48”	N/A

Sample Part Number: **WURM-FC-RGBW-WSCS-DRY-RGBW-30-4.0HE-ENC/CL-S1-BW-N/A-WH-48"-N/A**

B1 PRODUCT

WURM-FC-RGBW

See last page for compatible power supplies.

B2 MOUNTING

MCS	Magnetic Clip Small
WSCS	White Snug Clip Small
BN-UD-SST-16’	16’ BENDIT Up/Down Stainless Steel Channel
BN-UD-SST-32’	32’ BENDIT Up/Down Stainless Steel Channel
BN-UD-WH-16’	16’ BENDIT Up/Down White Stainless Channel
BN-UD-WH-32’	32’ BENDIT Up/Down White Stainless Channel

White snug clip only for indirect cove use, not intended for hanging fixtures upside down.

B3 RATED

DRY	IP20

B4 CCT

RGBW-27	RGBW-2700K
RGBW-30	RGBW-3000K
RGBW-35	RGBW-3500K
RGBW-40	RGBW-4000K

B5 WATTAGE

4.0HE	4.0WHE-SO

SO: Standard Output

B6 LENS

ENC/CL	Encapsulated in Clear

For representation of LED visibility, see Diode Visibility section on following pages

B7 WIRE INPUT/OUTPUT

SINGLE (Input only)	
S1	End Feed

B8 CONNECTOR/WIRE IN

BW	Bare Wire (Standard 24”)
CON6	Connector 6”
CON24	Connector 24”

BW: Standard length is 24”, Max length is 120”. Request custom length by writing in part number next to BW (example: BW48)

B9 CONNECTOR/WIRE OUT

N/A	Closed End (No feed)

B10 END CAPS

WH	White

Due to cutting, white endcaps are not available.

Single

B11 LENGTH (IN)

48”	Nominal

Starting Run length is 48.38” for S1
Each cut point subtracts from the Starting Run Length
4.0HE has a 2” cut point
S1 can be cut down to as little as 2.38” for RGBW-HE

B12 EXACT/OPTIMAL

N/A

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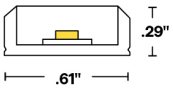
Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

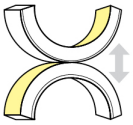
1 PRODUCT - DIMENSIONS



Profile
(Standard)

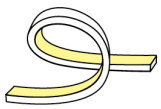
BEND RADIUS

Up/Down Bend



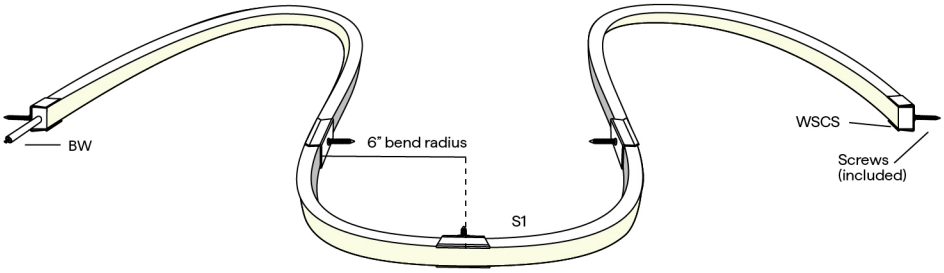
6" bending radius

Helical Bend



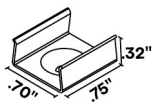
6" bending radius
Max recommended rotation
of 1 rotation per 16"

FLEXIBILITY



2 MOUNTING

WSCS

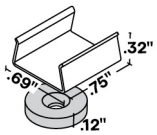


White Snug Clip Small
Indirect uplight

To order separately use WSCS

Each clip comes with a #6x5/8" flat screw

MCS

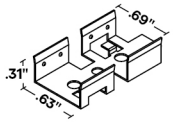


Magnetic Clip Small
Cove use only

To order separately use MCS

each clip comes with a #6x1 1/4" screw

BN-UD



BENDIT Channel
Vertical Stainless Steel
Flexible Channel

Continuous mounting solution for flexible fixtures, 16' or 32' field cuttable lengths

To order separately use either STND-QCAP-BN-UD-S-SST-16', STND-QCAP-BN-UD-S-SST-32', STND-QCAP-BN-UD-S-WH-16', or STND-QCAP-BN-UD-S-WH-32'

64 #4-40 1/2" screws provided per 16'

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Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with WURM-RGBW-HE-WSCS-DRY

4.0HE W/FT Total Load			
CCT	3.0W/FT Per Channel		
	ENC/CL		Circuit Wattage
	LM	Wavelength	
Red	35	630	0.77
Green	128	517	1.2
Blue	31	464	1.1
CCT	1.0W/FT Per Channel		
	ENC/CL		Circuit Wattage
	LM	CRI	
2700K	70	98	0.86
3000K	75	97	0.86
3500K	77	95	0.86
4000K	77	96	0.86

6 DIODE VISIBILITY

ENC/CL - Clear encapsulation

TEMPERATURE RATINGS

	4.0HE W/FT	
	Min	Max
Ambient Operating Temp - Surface	-4°F	110°F
Storage Temp	-4°F	176°F
Installation Temp	50°F	100°F

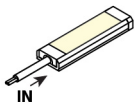
BUG RATING

WATTAGE	B	U	G
4.0HE (ALL CCTs & COLORS)	B0	U1	G0

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

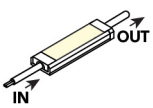
S1



End Feed

PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP

P1



End Feed

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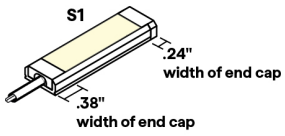
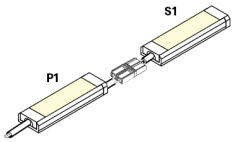
Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

CONFIGURATION OPTIONS

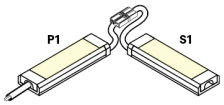


Single End Feed



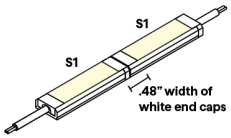
Connection by others

Non-Continuous End Feed

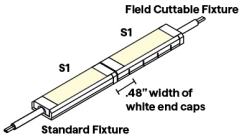


Connection by others

Non-Continuous Corner Feed

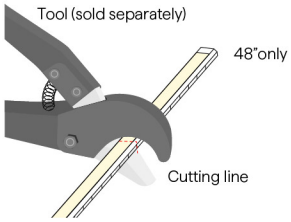


Continuous End to End Feed



Field Cuttable - Continuous End to End Feed

FIELD CUTTABLE MARKING



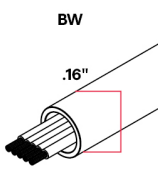
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment



Note: Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.
Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.

8 / 9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps



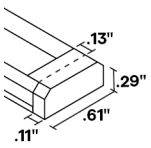
Bare Wire 24"
22 AWG



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

10 END CAPS (NO FEED)

WH
(only used in
A. Non-Field Cuttable
Q-CAP)



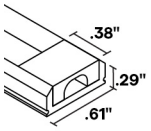
White endcaps
.11" added at end

.24" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1



White endcaps
.0" added at end

.38" dim spot

11 LENGTH - WIRING DETAIL

4.0HEW | 48" with 2" cutpoints



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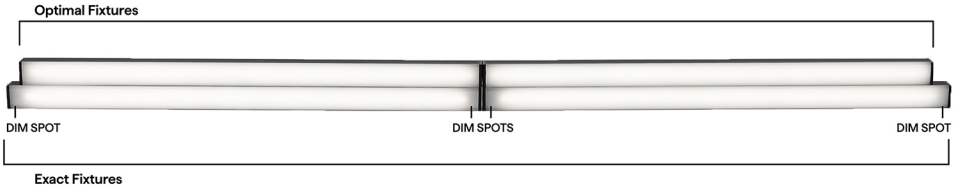
Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

12 EXACT/OPTIMAL FIXTURE LENGTH

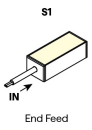
E/O Length Calculator → E/O Explained →

Exact fixtures are the exact length specified +0 -1/8". Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

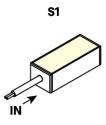
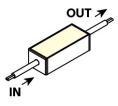


RGBW-HE ENC LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 	P1 
12"	10.75"	11.00"
13"	12.75"	13.00"
14"	12.75"	13.00"
15"	14.75"	15.00"
16"	14.75"	15.00"
17"	16.75"	17.00"
18"	16.75"	17.00"
19"	18.75"	19.00"
20"	18.75"	19.00"
21"	20.75"	21.00"
22"	20.75"	21.00"
23"	22.75"	23.00"
24"	22.75"	23.00"
36"	34.75"	35.00"
48"	46.75"	47.00"
60"	58.75"	59.00"
72"	70.75"	71.00"
84"	82.75"	83.00"
96"	94.75"	95.00"

COMPATIBLE POWER SUPPLIES

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

DIM TO LEVEL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DALI-DT8-PS QOM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

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Q-CAP WURM™ RGBW-HE

24VDC Flexible Fixtures

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

NJ-MEDIUM



J Mounting Bracket

SD-L-MEDIUM



L Mounting Bracket

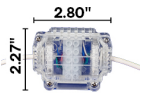
iQ-QCAP-UNV-CUTTER



QTL recommended FC Cutter

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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Q-CAP WURM

Flexible Fixtures

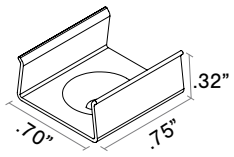
Mounting

NOTE: 2 white snug clips provided per first 12", 1 for each additional 12".
Other mounting styles incur additional charge, see price guide for details.

WSCS:

WHITE SNUG CLIP SMALL

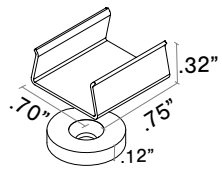
- For indoor/outdoor use
- Surface mounting
- Stainless Steel/Corrosion resistant
- Discrete mounting
- White glossy finish



MCS:

MAGNETIC CLIP SMALL

- For indoor/outdoor use
- Steel clip
- Neodymium magnet
- Easy install
- Easily detachable
- Inaccessible locations such as cove area
- White glossy finish



MOUNTING HARDWARE

- #6 - 5/8" (one provided for each clip)
- 832 Silicone (sold separately)

MOUNTING HARDWARE

- #6 - 1 1/4" (one provided for each clip)
- 832 Silicone (sold separately)

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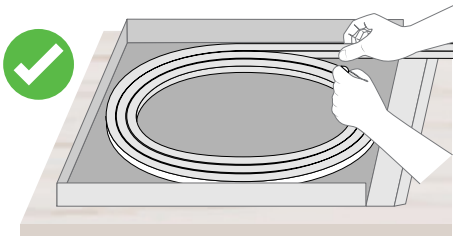
WURM

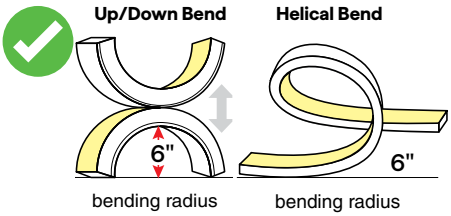
Q-CAP HANDLING INSTRUCTIONS

WARNING: FRAGILE

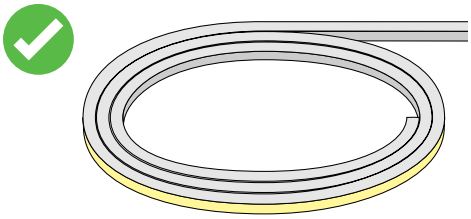
Flexible fixtures contain sensitive electronics, requiring careful handling and installation to preserve their warranty. When unpacking flexible fixtures, handle them gently and test all fixtures upon receiving.



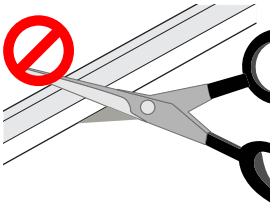
Keep the fixtures flat and supported when removing them from the box. Unroll them carefully on a flat surface and do not bend them against the intended bend direction.



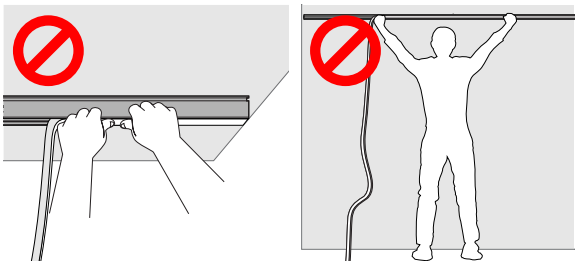
This WURM fixture is omnidirectional and has up/down and helical bending capabilities. Do not bend the fixture more than a 6" radius.



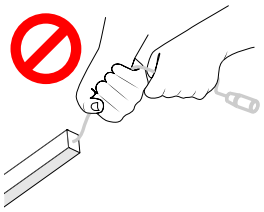
Powering the fixtures prior to installing will warm them up and make them more flexible, preventing damage.



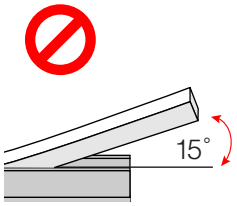
Only FC fixtures are field cuttable. Do not attempt to cut non-FC fixtures. Field modifications void warranty.



Do not let any portion of the fixture hang in any direction during installation. Use two people to install to ensure the fixture does not hang.



Do not grab or pull by the wire feeds.



Do not bend the fixture more than 15 degrees when installing into mounting brackets or channels.

MISHANDLING OF FIXTURES DURING INSTALLATION VOIDS WARRANTY

TEMPERATURE RATINGS

Static White & Static White HE	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		5.0 W/FT		6.0HE W/FT	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	135°F	-4°F	140°F	-4°F	120°F	-4°F	120°F	-4°F	105°F	-4°F	100°F
Storage Temp	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F
Installation Temp	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F

Tunable & Warm Dim	DW 1.5HE W/FT		DW 2.5HE W/FT	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	140°F	-4°F	120°F
Storage Temp	-4°F	140°F	-4°F	140°F
Installation Temp	50°F	100°F	50°F	100°F

RGB	6.0 W/FT	
	Min	Max
Ambient Operating Temp - Surface	-14°F	90°F
Storage Temp	-13°F	176°F
Installation Temp	50°F	100°F

RGBW & RGBW-HE	6.0 W/FT		4.0HE W/FT	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	100°F	-4°F	110°F
Storage Temp	-4°F	140°F	-4°F	176°F
Installation Temp	50°F	100°F	50°F	100°F

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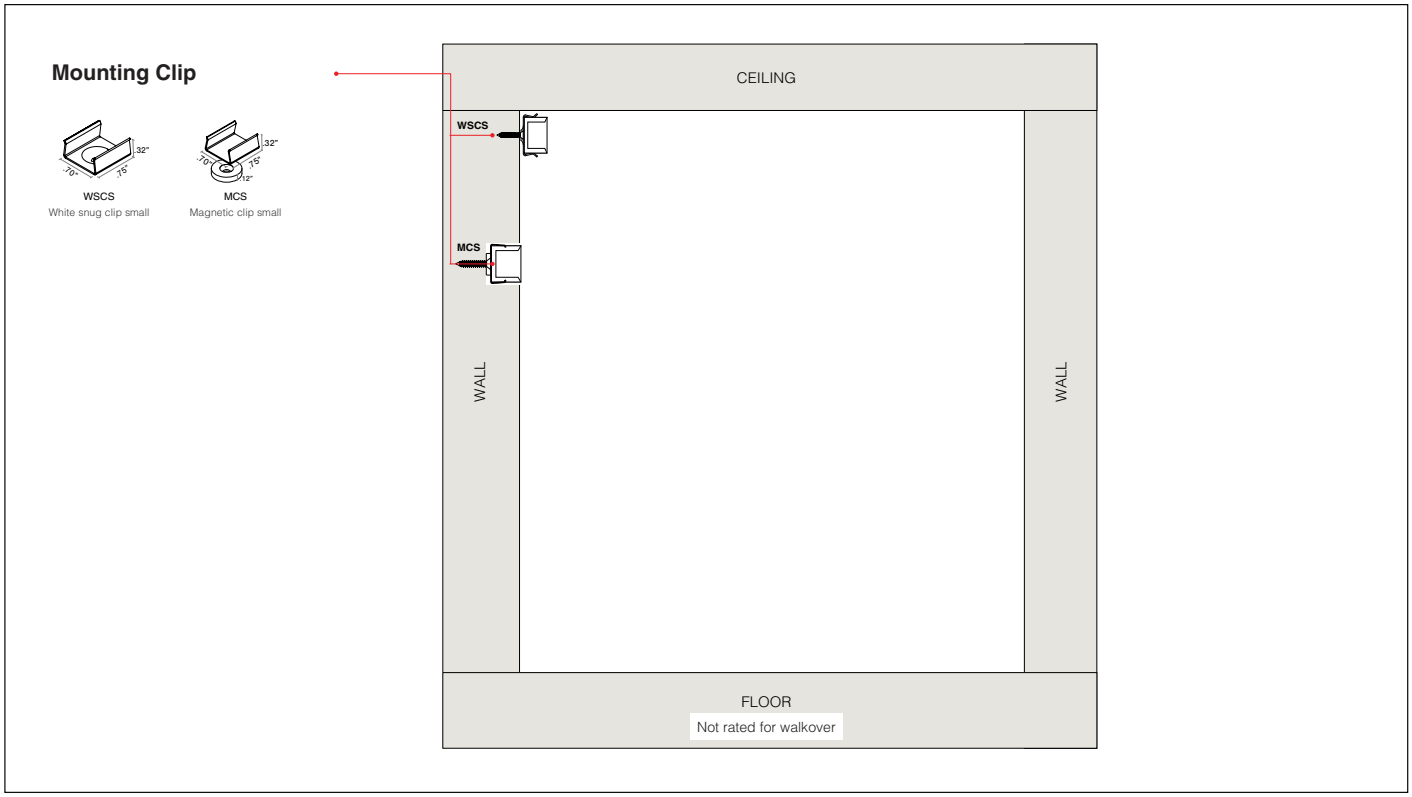
Q-CAP WURM

Q-CAP Flexible Fixtures Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Surface mount or recessed in millwork
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

METHODS OF INSTALLATION



Mounting Method

- WSCS (page 6)
- BN-UD (page 7)
- MCS (page 8)

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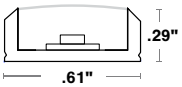
Q-CAP WURM

Q-CAP Flexible Fixtures Installation Instructions

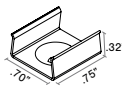


WURM Profile

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

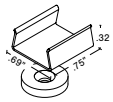
MOUNTING CLIP & MOUNTING CHANNEL	
WSCS	MCS



White snug clip small

Included
• #6 Flat Screw (one provided for each clip)

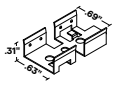
- 2 white snug clips provided per first 12", 1 for each additional 12". Other mounting styles incur additional charge, see price guide for details



Magnetic clip small (Cove use only)

Included
• #6 Flat Screw (one provided for each clip)

SEAMLESS MOUNTING CLIP
STND-QCAP-BN-UD-S



Vertical Flexible Channel

Included
• #4-40 1/2" screws (64 screws for every 16')

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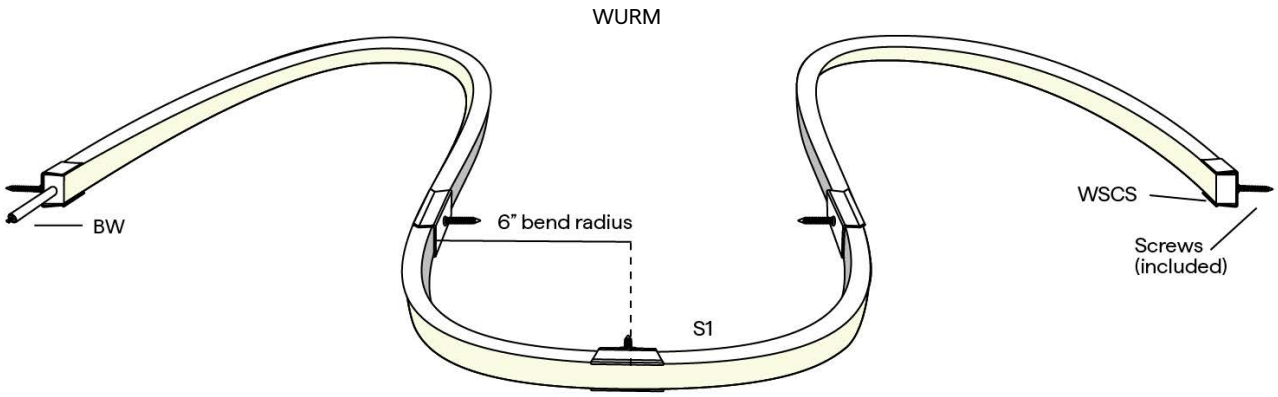
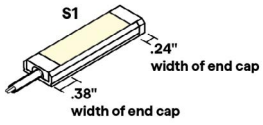
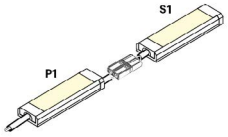
CONFIGURATION OPTIONS



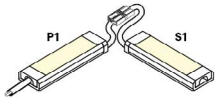


Single End Feed



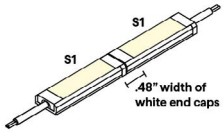
Connection by others

Non-Continuous End Feed

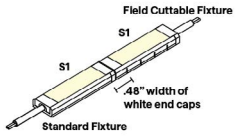


Connection by others

Non-Continuous Corner Feed



Continuous End to End Feed



Field Cuttable - Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting finished fixture.

NOTE: Additional wire methods include:
S1: Connector/Wire Input only
P1: Connector/Wire Input and Output

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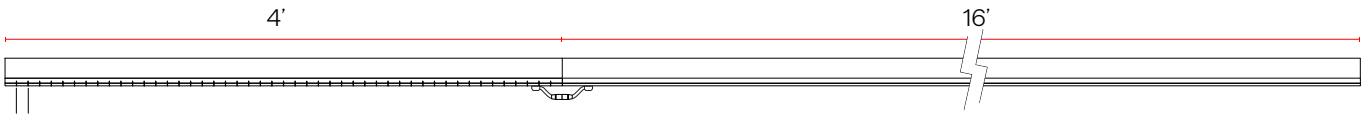
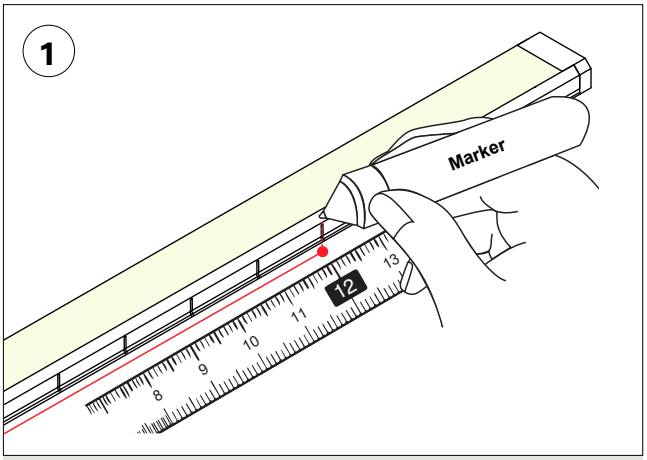
FIELD CUTTABLE

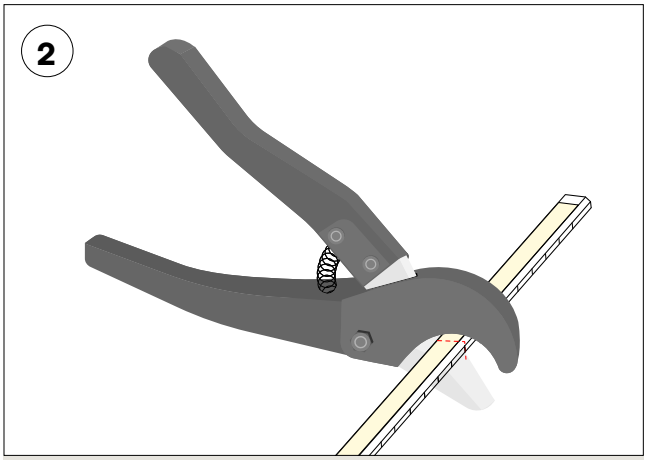
- Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing easy field adjustment
- Only FC fixtures are field cuttable - DO NOT CUT NON-FIELD CUTTABLE FIXTURES
- Do not attempt to cut while power is on





Mark desired length on field cuttable housing on the cut line.

NOTE: Only Cut on the marked cut lines. Only cut from non-feed end.



Cut with Q-CAP cutter tools (sold separately).

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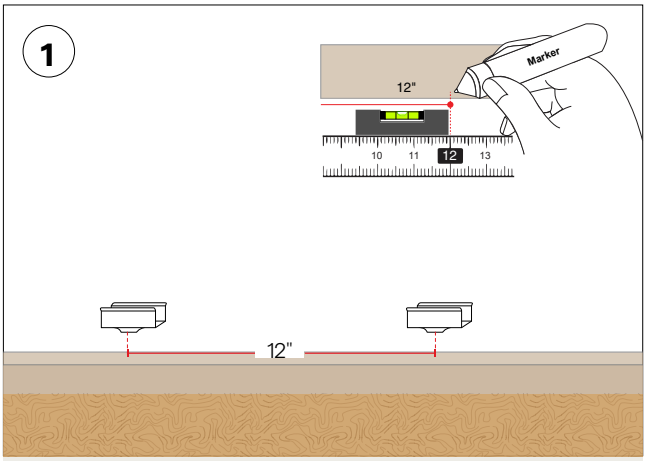
Q-CAP WURM

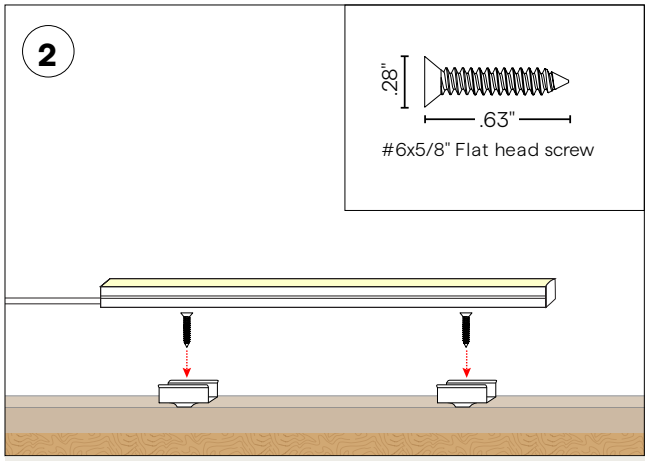
Q-CAP Flexible Fixtures Installation Instructions

SURFACE MOUNTING METHOD: **WHITE SNUG CLIP SNUG SMALL**

- 2 clips provided per first 12", 1 for each additional 12"

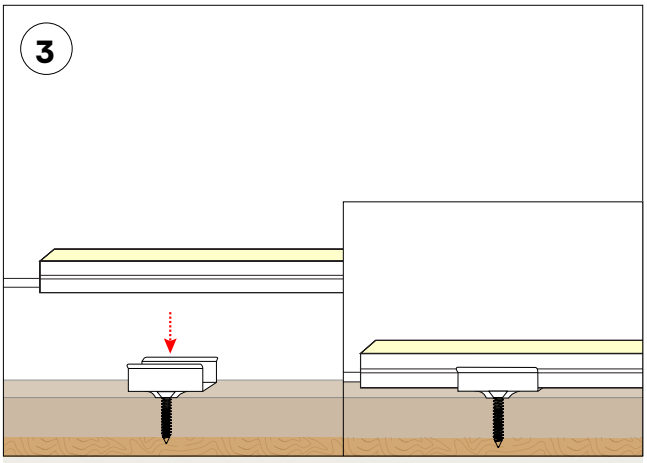


Determine the fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".



- Secure clips using the #6 flat head hardware provided
- Ensure the screw head is flush with the clip's base.

NOTE: Flat head screw type is dependent on surface/application material Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.



Snap fixture onto clips.

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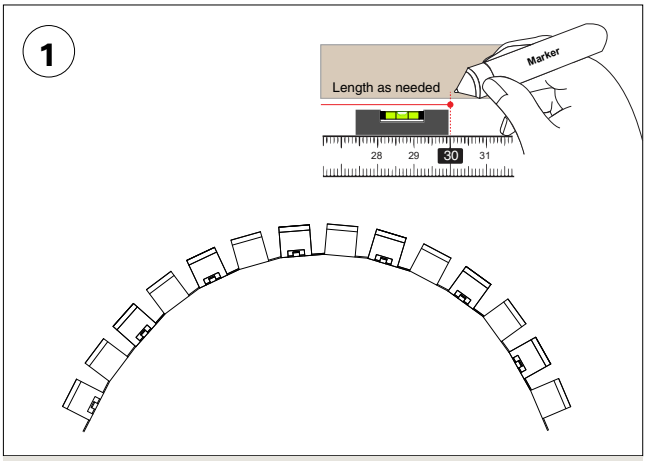
Q-CAP WURM

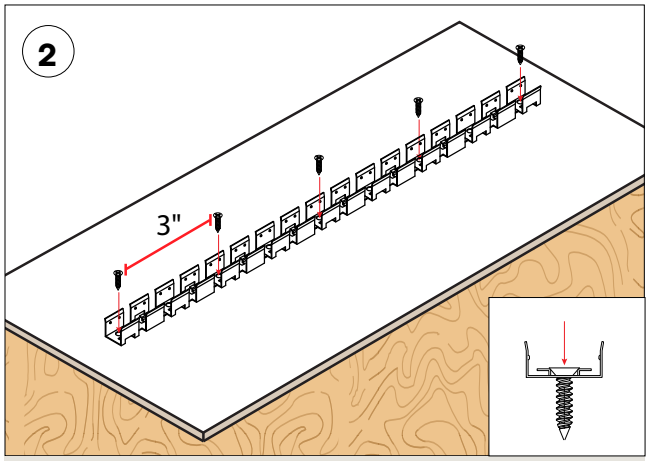
Q-CAP Flexible Fixtures Installation Instructions

SURFACE MOUNTING METHOD: **BN-UD**



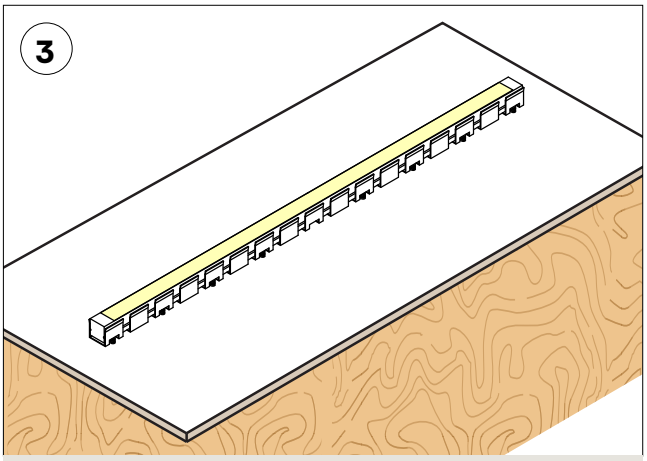
Determine the fixture(s) location and positioning on desired surface and arrange the BENDIT channel into the desired shape. Make any necessary reference markings to indicate where the channel is to be secured in place.

NOTE: The bend of the channel cannot exceed the bend of the fixture, Bending past the recommended amount can damage the fixture, Please see Q-CAP fixture bend radius chart or fixture cut sheet



Use #4 tapping screws to make shape desired while not exceeding fixture bend radius. Recommended 1 screw approximately every 3”

NOTE: Screws should be secured all the way down.



Press fit the fixture into the channel until secure.

Q-CAP Fixture Bend Radius			
Fixture	Vertical Bend	Horizontal Bend	Helical Bend
ANYBEND	9"	9"	-
BOXA	6"	-	-
KURV	-	6"	-
KURV-BK	-	10"	-
LUME	6"	-	-
NEXUS	4"	-	4"
WALA	-	6"	-
WAVE	6"	-	-
WURM	6"	-	6"
ZALA	-	6"	-

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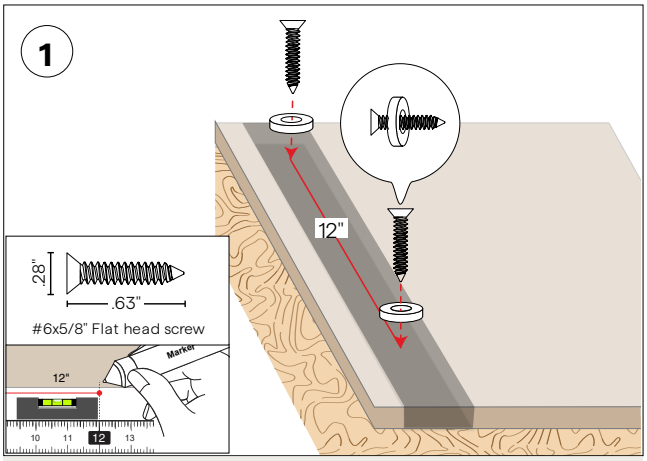
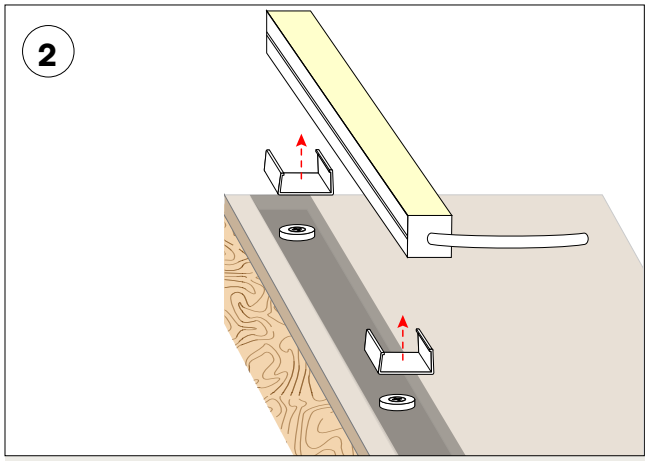
RECESSED MOUNTING METHOD: **MAGNETIC CLIP SMALL**

- 2 clips provided per first 12", 1 for each additional 12"

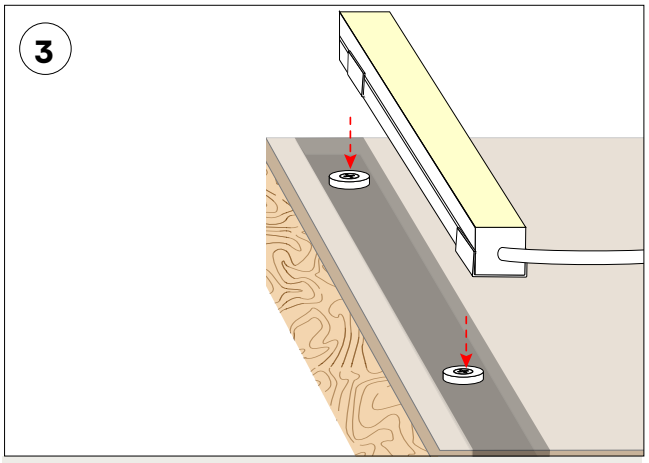


Determine the fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".



Attach clips to fixture matching magnet distances.

NOTE: Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.



Align and snap fixture to magnetic rings.

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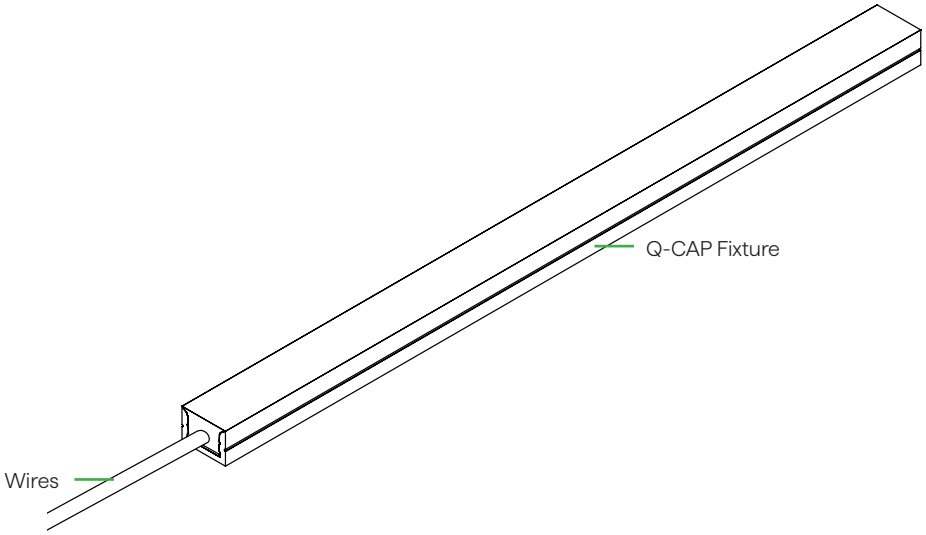
MATERIAL RECYCLING

Q-CAP FLEXIBLE FIXTURES

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

Q-CAP Fixture
Wires

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