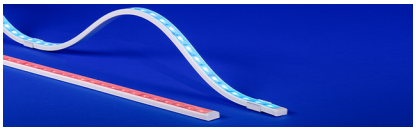
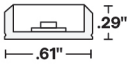
Q-CAP WURM™ RGBW

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

A1 PRODUCT	A2 MOUNTING	A3 RATED	A4 CCT	A5 WATTAGE	A6 LENS	A7 WIRE INPUT/ OUTPUT	A8 CONNECTOR/ WIRE IN	A9 CONNECTOR/ WIRE OUT	A10 END CAPS	A11 LENGTH (IN)	A12 EXACT/ OPTIMAL
WURM-RGBW					ENC/CL				WH		

Sample Part Number: **WURM-RGBW-WSCS-DRY-RGBW-30-6.0-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-27	RGBW-2700K
RGBW-30	RGBW-3000K
RGBW-35	RGBW-3500K
RGBW-40	RGBW-4000K

A5 WATTAGE

6.0	6.0W-SO

SO: Standard Output

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

S1	Single 1 (Input only) - End Feed
P1	Pass Through 1 (Input/Output) - 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: Available in 4" increments.
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

24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

B1 PRODUCT	B2 MOUNTING	B3 RATED	B4 CCT	B5 WATTAGE	B6 LENS	B7 WIRE INPUT/ OUTPUT	B8 CONNECTOR/ WIRE IN	B9 CONNECTOR/ WIRE OUT	B10 END CAPS	B11 LENGTH (IN)	B12 EXACT/ OPTIMAL
WURM-FC-RGBW		DRY			ENC/CL	S1		N/A	WH	48"	N/A

Sample Part Number: **WURM-RGBW-WSCS-DRY-RGBW-30-6.0-ENC/CL-P1-BW-BW-N/A-48"-E**

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

B5 WATTAGE

6.0 6.0W-SO

SO: Standard Output

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

S1 Single 1 (Input only) - 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
6.0 has a 4" cut point
4.0HE has a 2" cut point
S1 can be cut down to as little as 2.38" for RGBW-HE & 4.38" for RGBW

B12 EXACT/OPTIMAL

N/A

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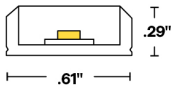
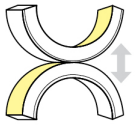
1 PRODUCT - DIMENSIONS



Profile
(Standard)

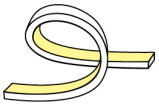
BEND RADIUS

Up/Down Bend



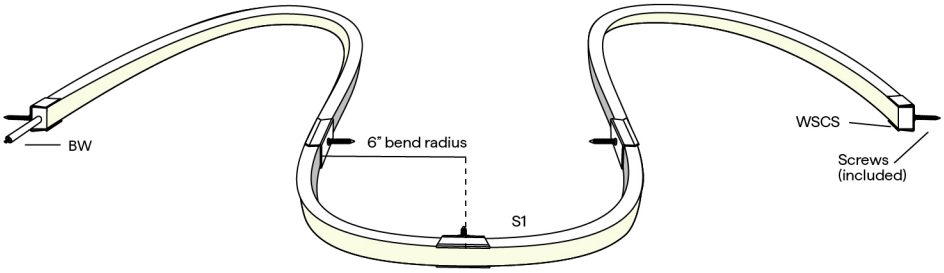
6" bending radius

Helical Bend



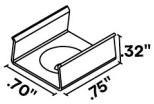
6" bending radius
Max recommended rotation of 1 rotation per 16"

FLEXIBILITY



2 MOUNTING

WSCS

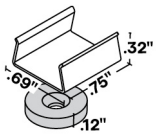


White Snug Clip Small
Indirect uplight

To order separately use WSCS

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

MCS

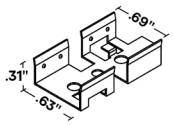


Magnetic Clip Small
Cove use only

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

24VDC Flexible Fixtures

4 / 5 DELIVERED LUMENS

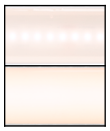
[Calculated L70 = 40000 hrs]
Tested with WURM-RGBW-WSCS-DRY

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

6.0W/FT Total Load		
ENC/CL		Circuit Wattage
LM	Wavelength	
34	632	1.3
99	514	1.5
25	464	1.5

ENC/CL					Circuit Wattage
LM	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	
91	93	69	87	105	1.7
**	**	**	**	**	1.7

6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

	6.0 W/FT		4.0 HE 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

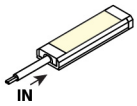
BUG RATING

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

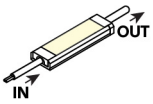
S1



End Feed

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

P1



End Feed

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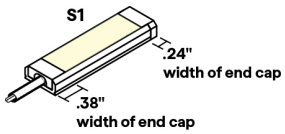
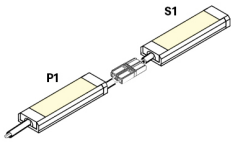
Q-CAP WURM™ RGBW

24VDC Flexible Fixtures

CONFIGURATION OPTIONS

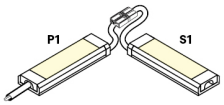


Single End Feed



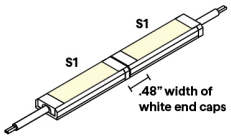
Connection by others

Non-Continuous End Feed

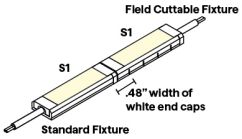


Connection by others

Non-Continuous Corner Feed

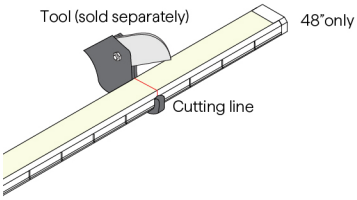


Continuous End to End Feed



Field Cuttable - Continuous End to End Feed

FIELD CUTTABLE MARKING



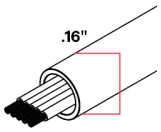
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment

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

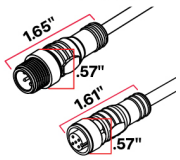
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps

BW



Bare Wire 24"
22 AWG

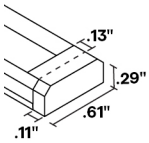
CON6/CON24



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)



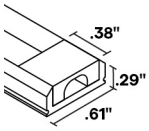
White endcaps
.11" added at end

.24" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1



White endcaps
.0" added at end

.38" dim spot

11 LENGTH - WIRING DETAIL

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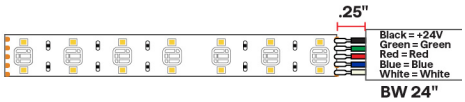
Q-CAP WURM™ RGBW

24VDC Flexible Fixtures

6.0W | Available in 4" increments 12"-191"

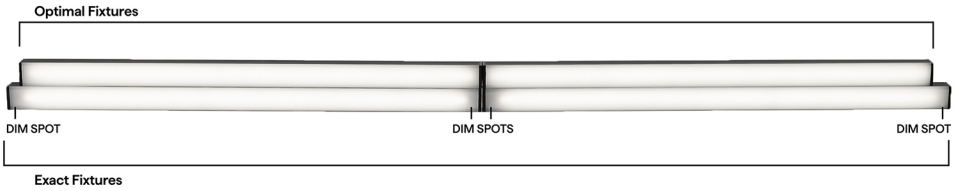
4.0HEW | Available in 2" increments 12"-191"



12 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator → E/O Explained →

Exact fixtures are the exact length specified. 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.



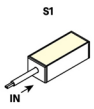
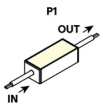
RGBW LENGTHS BY INCH

Available in any length in between 12" and 191", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	2"
13"	.5"
14"	1"
15"	1.5"
16"	2"
17"	.5"
18"	1"
19"	1.5"
20"	2"
21"	.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1  End Feed	P1  End Feed
12"	8.75"	9"
13"	12.75"	13"
14"	12.75"	13"
15"	12.75"	13"
16"	12.75"	13"
17"	16.75"	17"
18"	16.75"	17"
19"	16.75"	17"
20"	16.75"	17"
21"	20.75"	21"
22"	20.75"	21"
23"	20.75"	21"
24"	20.75"	21"
36"	32.75"	33"
48"	44.75"	45"
60"	56.75"	57"
72"	68.75"	69"
84"	80.75"	81"
96"	92.75"	93"

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Q-CAP WURM™ RGBW

24VDC Flexible Fixtures

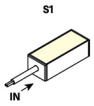
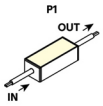
RGBW-HE LENGTHS BY INCH

Available in any length in between 12" and 191", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	.5"
14"	1"
15"	.5"
16"	1"
17"	.5"
18"	1"
19"	.5"
20"	1"
21"	.5"
22"	1"
23"	.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1  End Feed	P1  End Feed
12"	10.75"	11"
13"	12.75"	13"
14"	12.75"	13"
15"	14.75"	15"
16"	14.75"	15"
17"	16.75"	17"
18"	16.75"	17"
19"	18.75"	19"
20"	18.75"	19"
21"	20.75"	21"
22"	20.75"	21"
23"	22.75"	23"
24"	22.75"	23"
36"	34.75"	35"
48"	46.75"	47"
60"	58.75"	59"
72"	70.75"	71"
84"	82.75"	83"
96"	94.75"	95"

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+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

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	

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Q-CAP WURM™ RGBW

24VDC Flexible Fixtures

COMPATIBLE MOUNTING ACCESSORIES

NJ-MEDIUM

J Mounting Bracket

SD-L-MEDIUM

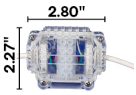
L Mounting Bracket

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

Q-NFC

Read and write DMX addresses and adjust voltage

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