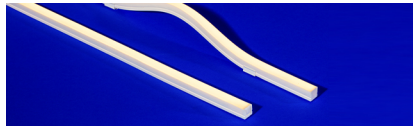




Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures



- Flexible encapsulated fixture
- Up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Four different mounting options
- Available in seamless configuration for a continuous line of light
- Utilize clear endcaps for continuous runs
- 60% smaller than QTL's BOXA fixture
- When using DALI and DMX power supplies, LED wattage must be doubled
- 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
				2.0	

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

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC/TL-P1-BW-BW-N/A-48"-E**

A1 PRODUCT WAVE-DW WAVE-DW-USA Select USA option for BA, BAA and BABA projects. 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 last page for compatible power supplies.	A2 MOUNTING PPS-2 PVC Clip PPS-96 PVC Channel PPS-LP-2 PVC Low Profile Clip PPS-LP-96 PVC Low Profile Channel WSC White Snug Clip 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. PPS mounting clip recommended for seamless applications	A3 RATED DRY IP20 WET IP67	A4 CCT 24/30 2400K/3000K 27/40 2700K/4000K	
A5 WATTAGE 2.0 2.0W-SO SO: Standard Output	A6 LENS ENC/CL Encapsulated in Clear ENC/TL Encapsulated in Translucent For representation of LED visibility, see Diode Visibility section on following pages	A7 WIRE INPUT/OUTPUT SINGLE (Input only) S1 End Feed S5 Seamless Feed PASS THROUGH (Input/Output) P1 End Feed P5 Seamless 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 CL Clear WH White 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". 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 Bend | Data subject to change, all data has +/- 5% tolerance | Only FC fixtures are Field-Cuttable per installation instructions | Field Cuttable is not returnable or refundable after it has been cut



Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

B1	B2	B3	B4	B5	B6
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS
WAVE-FC-DW		DRY		2.0	

ADDITIONAL INFORMATION REQUIRED TO ORDER

B7	B8	B9	B10	B11	B12
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	END CAPS	LENGTH (IN)	EXACT/ OPTIMAL
		N/A	CL	48"	N/A

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC-TL-P1-BW-BW-N/A-48"-E**

B1

PRODUCT

WAVE-FC-DW

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 last page for compatible power supplies.

B2

MOUNTING

PPS-2

PVC Clip

PPS-96

PVC Channel

PPS-LP-2

PVC Low Profile Clip

PPS-LP-96

PVC Low Profile Channel

WSC

White Snug Clip

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.

PPS mounting clip recommended for seamless applications

B3

RATED

DRY

IP20

B4

CCT

24/30

2400K/3000K

27/40

2700K/4000K

B5

WATTAGE

2.0

2.0W-SO

SO: Standard Output

B6

LENS

ENC/CL

Encapsulated in Clear

ENC/TL

Encapsulated in Translucent

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

B7

WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

End Feed

S5

Seamless 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

CL

Clear

Due to cutting, white endcaps are not available.

B11

LENGTH (IN)

48"

Nominal

Starting Run length is 48.475" for S1 & S5. Each cut point subtracts from the Starting Run Length. 2.0 has a 2" cut point. S1 can be cut down to as little as 2.475". S5 can be cut down to as little as 6.475".

B12

EXACT/OPTIMAL

N/A

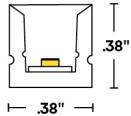
Single ▶



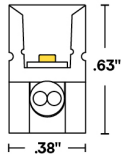
Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

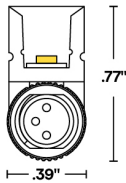
1 PRODUCT - DIMENSIONS



Profile
(Standard)



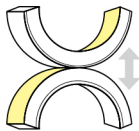
Profile
(Seamless bare wire)



Profile
(Seamless CON6-24)

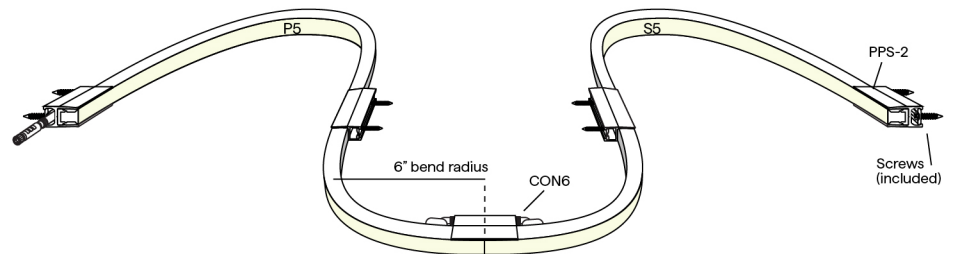
BEND RADIUS

Up/Down Bend



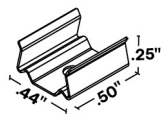
6" bending radius

FLEXIBILITY



2 MOUNTING

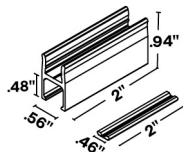
WSC



White Snug Clip
Indirect uplight

To order separately use WSC-02
Each clip comes with a #4x5/8" flat screw

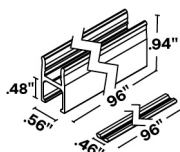
PPS-2



PVC Mounting Clip

To order separately use MICRO5-PPS2

PPS-96

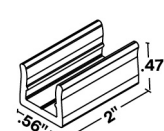


96" straight linear run

To order separately use MICRO5-PPS-96

Each clip comes with a #6" flat screw

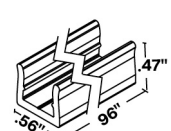
PPS-LP-2



Low profile PVC Mounting Clip

To order separately use MICRO5-PPS-LP-2

PPS-LP-96



Low profile PVC channel
96" straight linear run

To order separately use MICRO5-PPS-LP-96

Each clip comes with a #6" flat screw

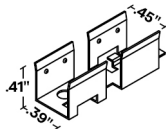


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

MOUNTING CONTINUED

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
MICRO5-BN-UD-SST-16’, MICRO5-
BN-UD-SST-32’, MICRO5-BN-UD-
WH-16’, or MICRO5-BN-UD-
WH-32’

64 #4-40 1/2” screws provided per
16’

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with WAVE-DW-WSC-DRY

CCT	2.0W/FT Total Load				Circuit Wattage
	ENC/CL		ENC/TL		
	LM	CRI	LM	CRI	
2400K	145	93	142	93	1.90
2700K	157	93	139	96	1.90
3000K	150	95	143	96	1.90
3500K	167	98	155	97	1.90
4000K	46	97	53	98	122

6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

	DW 2.0 W/FT		DW 4.0 W/FT	
	QTL power supply other than DALI, DMX		DALI, DMX, or non-QTL power supply	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	135°F	-4°F	110°F
Storage Temp	-4°F	140°F	-4°F	140°F
Install Temp	50°F	100°F	50°F	100°F

BUG RATING

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

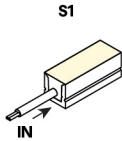


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

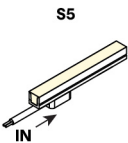
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



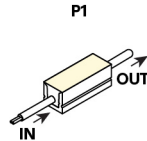
End Feed

SEAMLESS SINGLE (Input only)



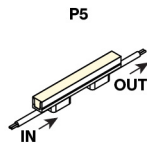
Seamless Feed

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



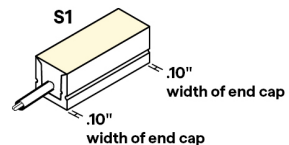
End Feed

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

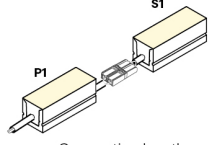


Seamless Feed

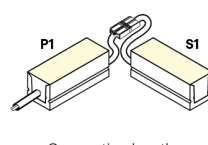
CONFIGURATION OPTIONS



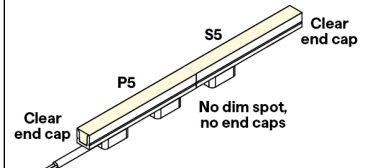
Single End Feed



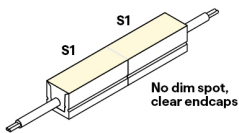
Connection by others
Non-Continuous End Feed



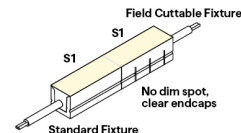
Connection by others
Non-Continuous Corner Feed



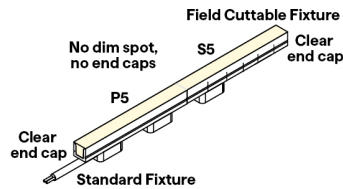
Seamless Bottom Feed



Continuous End to End Feed

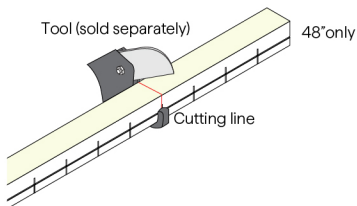


Field Cuttable - Continuous End to End Feed

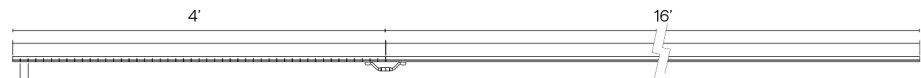


Field Cuttable - Seamless Bottom Feed

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.

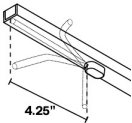


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

SEAMLESS

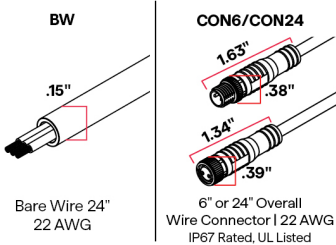
Shown with bare wire, connectors vary



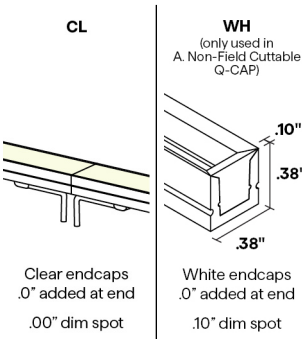
Omnidirectional wireways
S5, P5

8 / 9 CONNECTOR/WIRE – IN/OUT

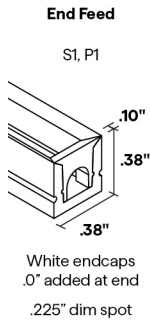
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps



10 END CAPS (NO FEED)



END CAPS (WITH FEED)



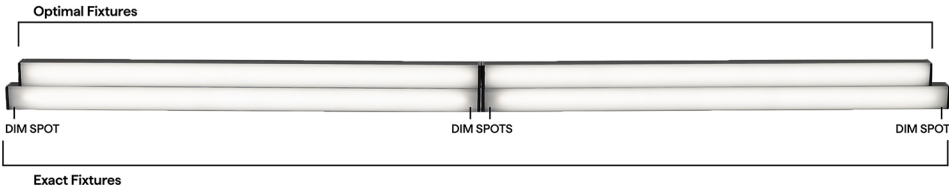
11 LENGTH - WIRING DETAIL

Available in 2 inch increments 12 inch-191 inch



12 EXACT/OPTIMAL FIXTURE LENGTH

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.





Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

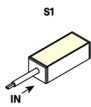
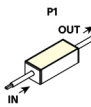
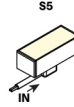
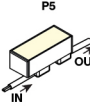
DW LENGTHS BY INCH

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	P1	S5 & P5	
				
12"	10.63"	11"	10.25"	
13"	12.63"	13"	12.25"	
14"	12.63"	13"	12.25"	
15"	14.63"	15"	14.25"	
16"	14.63"	15"	14.25"	
17"	16.63"	17"	16.25"	
18"	16.63"	17"	16.25"	
19"	18.63"	19"	18.25"	
20"	18.63"	19"	18.25"	
21"	20.63"	21"	20.25"	
22"	20.63"	21"	20.25"	
23"	22.63"	23"	22.25"	
24"	22.63"	23"	22.25"	
36"	34.63"	35"	34.25"	
48"	46.63"	47"	46.25"	
60"	58.63"	59"	58.25"	
72"	70.63"	71"	70.25"	
84"	82.63"	83"	82.25"	
96"	94.63"	95"	94.25"	

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
	MICRO 5-DW Warm Dim Applications	MICRO 5-DW Warm Dim Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DMX QZ-DW	Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+WD QZ-DMX QZ-DW
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle	

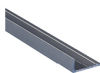


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

DIMMING PROTOCOL	INDOOR	OUTDOOR
	MICRO 5-DW Warm Dim Applications	MICRO 5-DW Warm Dim Applications
Phase	QZ-DW	Q-SET-QZ-DW QZ-DW
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	Q-SET-QZ-DW QOM-eLED+WD QZ-DW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	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	QOM-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	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

QUOVA-MICRO	NJ-MICRO	BL-MICRO	NL-MICRO	SD-L-MICRO	IQ-QCAP-UNV-CUTTER
					
QUOVA Knife Edge	J Mounting Bracket	Backwards L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	QTL recommended FC Cutter

COMPATIBLE WIRING ACCESSORIES



COMPATIBLE CONTROL ACCESSORIES





Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

COMPATIBLE APPS

NFC APP



Read and write
DMX addresses and
adjust voltage