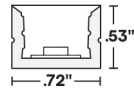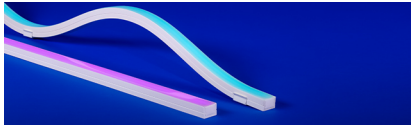# Q-CAP BOXA™ RGBW HIGH EFFICACY
24VDC Flexible Fixtures

- A flexible encapsulated fixture with up/down bending capabilities
- Interior and exterior rated (not including FC)
- Features a 6" bending radius and is compatible with six different mounting hardware options to ensure our product fits any design need
- Available in a seamless option, where wires are hidden so they do not obstruct the look of the design
- Utilize clear endcaps for continuous runs with no light loss
- For standard output, a clear finished BOXA-RGBW fixture produces 120 lumens/foot in green
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures
- IK10 impact rated

.53"
.72"

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
BOXA-RGBW				4.0HE							

Sample Part Number: **BOXA-RGBW-PPS-2-DRY-RGBW-30-4.0HE-ENC/CL-P1-BW-BW-N/A-48"-E**

A1 PRODUCT

BOXA-RGBW

See last page for compatible power supplies.

A2 MOUNTING

RLC	Rigid Lock Channel
MC	Magnetic Clip
SGC	Side Graze Channel
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

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
ENC/TL	Encapsulated in Translucent

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

A7 WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed
S3	Single 3 (Input only) - Left Side Feed
S4	Single 4 (Input only) - Right Side Feed
S5	Single 5 (Input only) - Seamless Feed

P1	Pass Through 1 (Input/Output) - End Feed
P2	Pass Through 2 (Input/Output) - Bottom Feed
P3	Pass Through 3 (Input/Output) - Left Side Feed
P4	Pass Through 4 (Input/Output) - Right Side Feed
P5	Pass Through 5 (Input/Output) - 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

Single

CL	Clear
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". 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.

Q-CAP BOXA™ RGBW HIGH EFFICACY
24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

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
BOXA-FC-RGBW		DRY		4.0HE				N/A	CL	48"	N/A

Sample Part Number: **BOXA-RGBW-PPS-2-DRY-RGBW-30-4.0HE-ENC/CL-P1-BW-BW-N/A-48"-E**

B1 PRODUCT

BOXA-FC-RGBW

See last page for compatible power supplies.

B2 MOUNTING

RLC	Rigid Lock Channel
MC	Magnetic Clip
SGC	Side Graze Channel
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

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
ENC/TL	Encapsulated in Translucent

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

B7 WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed
S3	Single 3 (Input only) - Left Side Feed
S4	Single 4 (Input only) - Right Side Feed
S5	Single 5 (Input only) - 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.

Single

B11 LENGTH (IN)

48" Nominal

Starting Run length is 48.475" for S1, S5 and 48.725" for S2, S3, S4
Each cut point subtracts from the Starting Run Length
4.0HE has a 2" cut point
S2, S3, & S4 can be cut down to as little as 2.725"
S1 can be cut down to as little as 2.475"
S5 can be cut down to as little as 6.475"
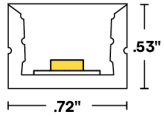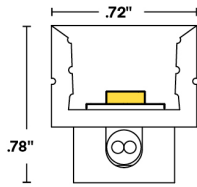
B12 EXACT/OPTIMAL

N/A

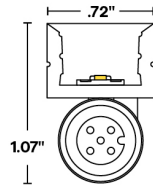# Q-CAP BOXA™ RGBW HIGH EFFICACY
24VDC Flexible Fixtures

1 PRODUCT - DIMENSIONS

.53"
.72"
Profile
(Standard)

.72"
.78"
Profile
(Seamless bare wire)

.72"
1.07"
Profile
(CON6-24 barrel)

BEND RADIUS

Up/Down Bend
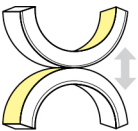
6" bending radius

FLEXIBILITY

P5
S5
PPS-2
6" bend radius
CON6
Screws
(included)

2 MOUNTING
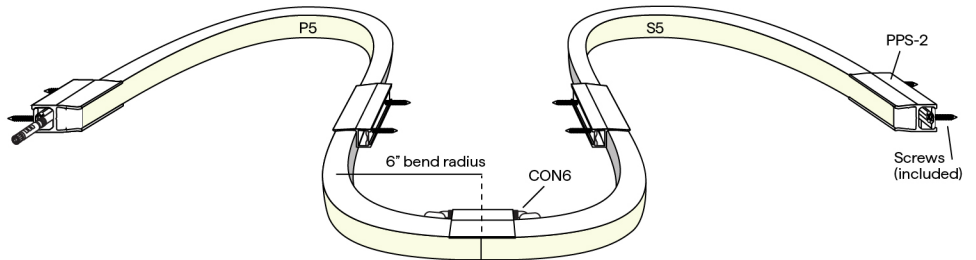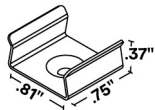
WSC	RLC	MC	SGC	PPS-2
.37" .81" .75"	.84" 1.0" 1.0"	.27" .77" .51" .12"	1.40" .85" 1.0"	.109" .48" 2.0" .86" .69" 2.0"
White Snug Clip Indirect uplight	Rigid Lock Channel	Magnetic Clip Cove use only	Side Graze Clip	PVC Mounting Clip
To order separately use WSC	To order separately use RLC	To order separately use MC	To order separately use SGC	To order separately use BOXA-PPS2
Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	
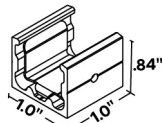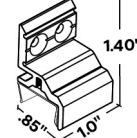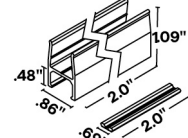
MOUNTING CONTINUED

PPS-96

96" straight linear run

To order separately use BOXA-PPS-96

Each clip comes with a #8" flat screw

PPS-LP-2

Low profile PVC Mounting Clip

To order separately use BOXA-PPS-LP-2

PPS-LP-96

Low profile PVC channel 96" straight linear run

To order separately use BOXA-PPS-LP-96

Each clip comes with a #8" flat 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-SST-16', STND-QCAP-BN-UD-SST-32', STND-QCAP-BN-UD-WH-16', or STND-QCAP-BN-UD-WH-32'

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

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with BOXA-RGBW-**...-DRY

CCT	4.0HE W/FT Total Load				
	3.0W/FT Per Channel				
	ENC/CL		ENC/TL		Circuit Wattage
	LM	Wavelength	LM	Wavelength	
● Red	29	630	21	629	0.77
● Green	120	519	82	519	1.2
● Blue	34	466	25	464	1.1
CCT	1.0W/FT Per Channel				
	ENC/CL		ENC/TL		Circuit Wattage
	LM	CRI	LM	CRI	
● 2700K	63	98	47	98	0.86
● 3000K	74	97	50	96	0.86
● 3500K	72	96	57	97	0.86
● 4000K	77	96	56	96	0.86

6 DIODE VISIBILITY

ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

BUG RATING

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

TEMPERATURE RATINGS

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN

End Feed

S2

IN

Bottom Feed

S3

IN

Side Feed - Left

S4

IN

Side Feed - Right

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

P1

OUT
IN

End Feed

P2

OUT
IN

Bottom Feed

P3

OUT
IN

Side Feed - Left

P4

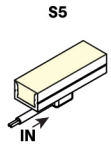OUT
IN

Side Feed - Right

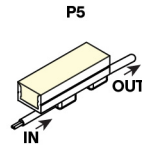# Q-CAP BOXA™ RGBW HIGH EFFICACY
24VDC Flexible Fixtures

SEAMLESS SINGLE (Input only)
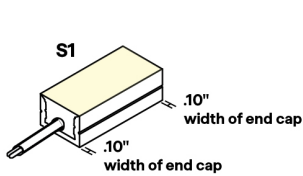
S5

IN

Seamless Feed

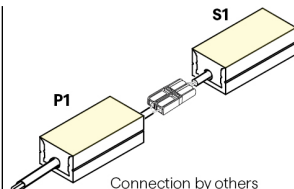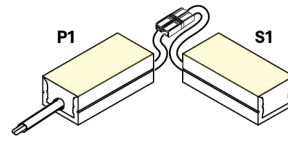SEAMLESS PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP

P5

OUT

IN

Seamless Feed

CONFIGURATION OPTIONS

S1

.10" width of end cap
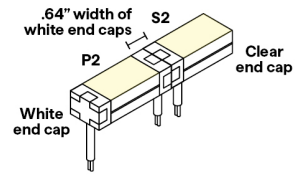
.10" width of end cap

Single End Feed

S1

P1

Connection by others

Non-Continuous End Feed

P1

S1

Connection by others

Non-Continuous Corner Feed

.64" width of white end caps

S2

P2

Clear end cap

White end cap

Continuous Bottom Feed

S3

P3

Clear end cap

White end cap

.64" width of white end caps

Continuous Side Feed - Left

.64" width of white end caps

S4

P4

Clear end cap

White end cap
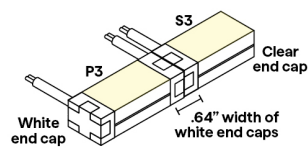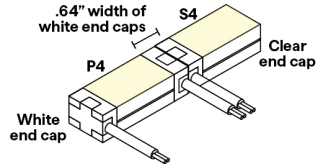
Continuous Side Feed - Right

S5

P5

Clear end cap

No dim spot, no end caps

Clear end cap

Seamless Bottom Feed

S1

S1

No dim spot, clear endcaps

Continuous End to End Feed

Field Cuttable Fixture

S1

S1

No dim spot, clear endcaps

Standard Fixture
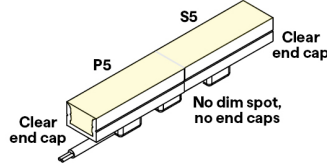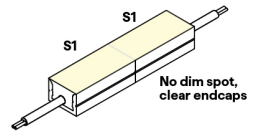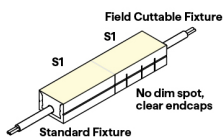
Field Cuttable - Continuous End to End Feed

Field Cuttable Fixture

No dim spot, clear end caps

S5

P5

Clear end cap

Clear end cap

Standard Fixture
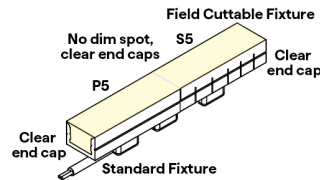
Field Cuttable - Seamless Bottom Feed

FIELD CUTTABLE MARKING

Tool (sold separately)

48"only

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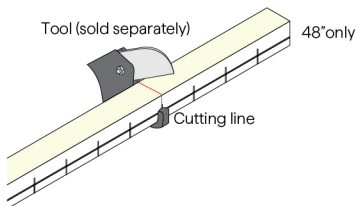
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment

4'

16'

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.
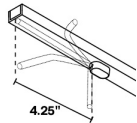
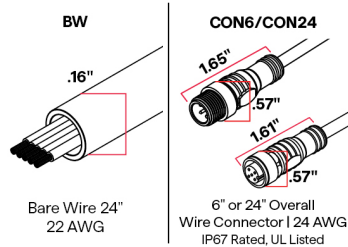# Q-CAP BOXA™ RGBW HIGH EFFICACY
24VDC Flexible Fixtures

SEAMLESS

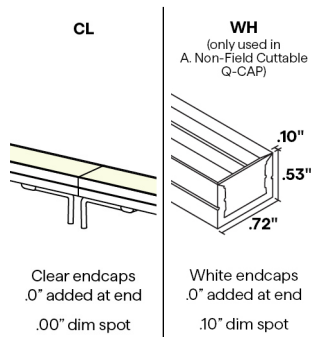Shown with bare wire, connectors vary

4.25"

Omnidirectional
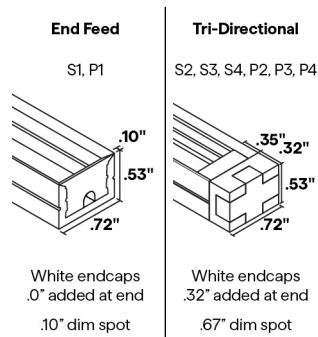wireways
S5, P5

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
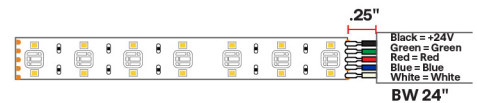
BW

.16"

Bare Wire 24"
22 AWG

CON6/CON24

1.65"
.57"
1.61"
.57"

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

10 END CAPS (NO FEED)

CL

Clear endcaps
.0" added at end

.00" dim spot

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

.10"
.53"
.72"

White endcaps
.0" added at end

.10" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1

.10"
.53"
.72"

White endcaps
.0" added at end

.10" dim spot

Tri-Directional

S2, S3, S4, P2, P3, P4

.35" .32"
.53"
.72"

White endcaps
.32" added at end

.67" dim spot

11 LENGTH - WIRING DETAIL

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

.25"

Black = +24V
Green = Green
Red = Red
Blue = Blue
White = White

BW 24"

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.

Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
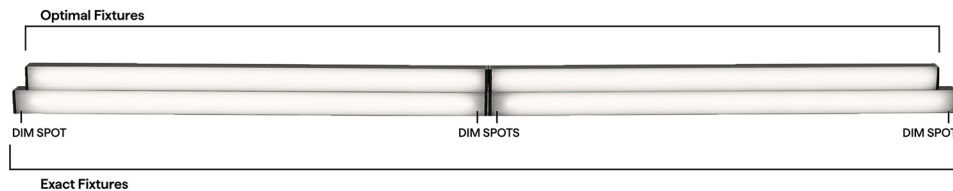
Exact Fixtures

Q-CAP BOXA™ RGBW HIGH EFFICACY
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 with S1 wireway
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	S2 & S3 & S4 — Bottom Feed / Side Feed - Left / Side Feed - Right	P1 — End Feed	P2 & P3 & P4 — Bottom Feed / Side Feed - Left / Side Feed - Right	S5 & P5 — Seamless Feed
12"	10.68"	10.98"	11.1"	11.85"	10.2"
13"	12.68"	12.98"	11.1"	11.85"	12.2"
14"	12.68"	12.98"	13.1"	13.85"	12.2"
15"	14.68"	14.98"	13.1"	13.85"	14.2"
16"	14.68"	14.98"	15.1"	15.85"	14.2"
17"	16.68"	16.98"	15.1"	15.85"	16.2"
18"	16.68"	16.98"	17.1"	17.85"	16.2"
19"	18.68"	18.98"	17.1"	17.85"	18.2"
20"	18.68"	18.98"	19.1"	19.85"	18.2"
21"	20.68"	20.98"	19.1"	19.85"	20.2"
22"	20.68"	22.98"	21.1"	21.85"	20.2"
23"	22.68"	22.98"	21.1"	21.85"	22.2"
24"	22.68"	22.98"	23.1"	23.85"	22.2"
36"	34.68"	34.98"	35.1"	35.85"	34.2"
48"	46.68"	46.98"	47.1"	47.85"	46.2"
60"	58.68"	58.98"	59.1"	59.85"	58.2"
72"	70.68"	70.98"	71.1"	71.85"	70.2"
84"	82.68"	82.98"	83.1"	83.85"	82.2"
96"	94.68"	94.98"	95.1"	95.85"	94.2"

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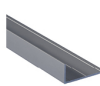
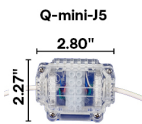| DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

Q-ANGLE	NJ-LARGE	NU-LARGE	SD-J-LARGE	BL-LARGE	NL-LARGE	SD-L-LARGE	iQ-QCAP-UNV-CUTTER
2.23" / 1.38"							
Adjustable mounting accessory	J Mounting Bracket	U Mounting Bracket	J Mounting Bracket	Backwards L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	QTL recommended FC Cutter

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"
2.27"

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

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"
2.58"

Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage