SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date _____

Project Notes _____

IP20 | **24 VDC** | **NEC CLOSET RATED**

FEATURES

- Durable articulation points for multi-directional bending
- 3.84 W/ft.
- 16.4 ft. Max. Run
- 7 Year Warranty

ORDERING CODES
Order spools, and components for field assembly

OPTIONAL ORDERING CODES
Add Assembly Preferences, Finish, Lens, Mounting, Driver, and Delivery

	Voltage	Model	Color	Length	Channels				Finish	Lens	Mounting	Driver	Delivery
DI													
	24V (24V Volt)	SQ2	RGBW (RGBW)	016 (16 feet)	A1 (A1)	S45 (S45)	90 (90° Sideview)	REF (Reflector)	AL (Aluminum)	*blank* (Classic Frosted Lens)	3M (3M Adhesive)	O/O (On / Off)	Field Assembly
					A2 (A2)	16 (16mm Square)	SL (Slim)	MI1 (1-inch Mud-In)	BL (Black)	AFS (Arch. Frosted Satin Lens)	MC (Mounting Clip)	PoE (Power over Ethernet)	Factory + Field (Hybrid)
					A3 (A3)	RC20 (20mm Round)	SQ (Square)	MI2 (2-inch Mud-In)	WH (White)	BL (Black Lens)	RC (Rotating Clip)		Factory Assembly
					S1 (S1)	SQ20 (20mm Square)	45 (45°)	WF (Waveform)		CLT (Arch. Clear Lens)	CHN (Mounting Channel)		
					S2 (S2)	45DCO (45° Deco)	REC (Recessed)			FRT (Arch. Frosted Lens)			
										OPT (Opal Lens)			
										PD (Prem. Diffusion Lens)			

See page 2 for Channel / Lens / Mounting compatibility

SQUIGGLY™ RGBW - SPECIFICATION TABLE

Models	24V-SQ2-RGBW
Voltage	24VDC
Wattage	3.84W/ft.
Lumens RGBW	Red: 33 Lm/ft. Green: 72 Lm/ft. Blue: 15 Lm/ft. 3000K: 75 Lm/ft. All on: 188 Lm/ft.
Cut Points	4.92 in.
Max Run (ft.)	16.4 ft.
CRI	90+
Dimensions	0.47 × 0.1 in. (W x H)
TM-21 (LM-80)	>50,000 hours
Environment	Indoor/Damp Location (IP20)
Lead Wire A	36 in. White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
Lead Wire B	36 in. White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
LED Chips	14/ft.
Chip Type	5050
Certification	UL Listed 2108
Warranty	7 Year

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
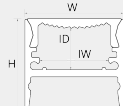Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20 | 24 VDC | NEC CLOSET RATED

CHANNEL / LENS / MOUNTING COMPATIBILITY

Channel	Compatible Lenses	Available Finishes	Mounting Options
A1 (A1)	FRT	AL / WH / BL	UC
A2 (A2)	CLT / FRT / AFS	AL / WH / BL	UC
A3 (A3)	CLT / FRT / AFS	AL / WH / BL	UC
S1 (S1)	*blank*	AL	UC
S2 (S2)	*blank*	AL	UC
S45 (S45)	*blank*	AL	UC
16 (16mm Square)	FRT	AL	MC
RC20 (20mm Round)	*blank*	AL	UC
SQ20 (20mm Square)	*blank*	AL	UC
45DCO (45° Deco)	*blank*	AL	MC
90 (90° Sideview)	*blank*	AL	MC
SL (Slim)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / 3M / MAG
SQ (Square)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / VC / RC / HNG
45 (45°)	*blank* / CLT / FRT / BL / PD	AL / WH / BL	MC / VC / RC / HNG
REC (Recessed)	*blank*	AL	3M
REF (Reflector)	*blank*	AL	
MI1 (1-inch Mud-In)	OPT	AL	
MI2 (2-inch Mud-In)	OPT	AL	
WF (Waveform)	*blank*	AL	3M / UC

LEGEND

Lens	
blank	Classic Frosted Lens
AFS	Architectural Frosted Satin Lens
BL	Black Lens
CLT	Architectural Clear Lens
FRT	Architectural Frosted Lens
OPT	Opal Lens
PD	Premium Diffusion Lens

Finish	
AL	Aluminum
WH	White
BL	Black

Mounting	
3M	3M Adhesive
HNG	Hanging Hardware
MAG	Magnetic Clip
MC	Mounting Clip
RC	Rotating Clip
UC	U-Clip
VC	Vertical Clip

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date _____

Project Notes _____

IP20   **24 VDC**   **NEC CLOSET RATED**
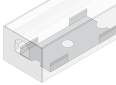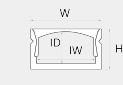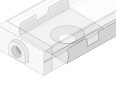
RECOMMENDED CHANNELS

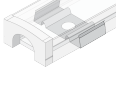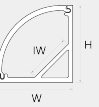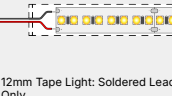| MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
A1 Channel DI-CHB-A1 (A1) 48", 90" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.81 in. Width (W): 0.87 in. Interior Depth (ID): 0.45 in. Interior Width (IW): 0.79 in.	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • 1 retaining clip • End caps: 1x open, 1x closed. 90" Aluminum, Black, & White Channels • 90 in. channel & lens • 4x surface mounting clips • 2x strain relief clip • End caps: 2x open, 2x closed, 2x slotted	12mm Tape Light: Soldered Lead Only	Architectural Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120° Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K • IP Rating Shift: IP40	U-Clip: 0.82 × 0.88 in. (H x W)
A2 Channel DI-CHB-A2 (A2) 48", 96" Aluminum, White, Black For 12mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.49 in.	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • End caps: 1x open, 1x closed. 96" Aluminum, Black, & White Channels • 96 in. channel & lens • 4x surface mounting clips • End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Architectural Frosted Satin Lens SQUIGGLY™ RGBW - SQ2: Runway Diffusion Architectural Frosted Lens SQ2: Runway Diffusion For diffusion options not listed, refer to A2 Channel Specification Sheet.	• Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Architectural Frosted Satin Lens • Light Loss: 45% • CCT Shift: -80K • IP Rating Shift: IP40	U-Clip: 0.56 × 0.64 in. (H x W)
A3 Channel DI-CHB-A3 (A3) 48", 96" Aluminum, White, Black For 12mm Tape Lights or smaller	Height (H): 0.39 in. Width (W): 0.63 in. Interior Depth (ID): 0.33 in. Interior Width (IW): 0.49 in.	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • End caps: 1x open, 1x closed. 96" Aluminum, Black, & White Channels • 96 in. channel & lens • 4x surface mounting clips • End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Architectural Frosted Satin Lens SQUIGGLY™ RGBW - SQ2: Runway Diffusion Architectural Frosted Lens SQ2: Runway Diffusion For diffusion options not listed, refer to A3 Channel Specification Sheet.	• Beam Angle: 120° Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Architectural Frosted Satin Lens • Light Loss: 45% • CCT Shift: -80K • IP Rating Shift: IP40	U-Clip: 0.4 × 0.64 in. (H x W)
S1 Channel DI-CHB-S1 (S1) 48", 90" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.31 in. Width (W): 0.67 in. Interior Depth (ID): 0.25 in. Interior Width (IW): 0.58 in.	48 in. channel & frosted cover 2x surface mounting clips End caps: 1x open, 1x closed.	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Runway Diffusion	• Beam Angle: 120° Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	U-Clip: 0.32 × 0.68 in. (H x W)

SQUIGGLY™ RGBW 24V
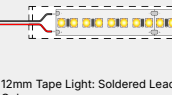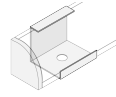
RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20 | 24 VDC | NEC CLOSET RATED

RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
S2 Channel DI-CHB-S2 (S2) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.57 in. Width (W): 0.74 in. Interior Depth (ID): 0.34 in. Interior Width (IW): 0.63 in.	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws / 96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	U-Clip: 0.58 × 0.75 in. (H x W)
S45 Channel DI-CHB-S45 (S45) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.78 in. Width (W): 0.78 in. Interior Depth (ID): 0.54 in. Interior Width (IW): 0.6 in.	48 in. Channel & Frosted Lens, 1 open end cap, 1 closed end cap, 2 mounting clips, 2 mounting screws / 96 in. Channel & Frosted Lens, 2 open end cap, 2 closed end cap, 4 mounting clips, 4 mounting screws	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	U-Clip: 0.79 × 0.79 in. (H x W)
16mm Square Channel DI-CPCHB-16MM (16) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.89 in. Width (W): 0.77 in. Interior Depth (ID): 0.58 in. Interior Width (IW): 0.63 in.	48 in. channel & Architectural Frosted Lens 2x surface mounting clips End caps: 1x open, 1x closed. / 96 in. channel & Architectural Frosted Lens 4x surface mounting clips End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Architectural Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K • IP Rating Shift: IP40	Mounting Clip: 0.89 × 0.77 in. (H x W)
20mm Round Channel DI-CPCHB-RC20 (RC20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 1.18 in. Width (W): 1.18 in. Interior Depth (ID): 0.84 in. Interior Width (IW): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed. / 96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Dotless	• Beam Angle: 180º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	U-Clip: 1.19 × 1.19 in. (H x W)

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
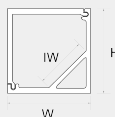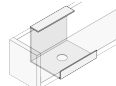Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20 | **24 VDC** | **NEC CLOSET RATED** 410.16.A.1.3 & 410.16.G.13.5
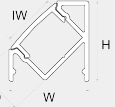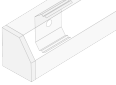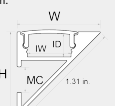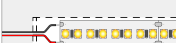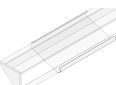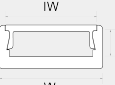
RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
20mm Square Channel DI-CPCHB-SQC20 (SQ20) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 1.18 in. Width (W): 1.18 in. Interior Depth (ID): 0.84 in. Interior Width (IW): 0.84 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed. 96 in. channel & frosted lens 4x surface mounting clips End caps: 2x open, 2x closed. 12mm Tape Light: Soldered Lead Only		Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Dotless	• Beam Angle: 180º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	U-Clip: 1.19 × 1.19 in. (H x W)
45° Deco Channel DI-CPCHB-45DCO (45DCO) 48", 96" Aluminum For 10mm Tape Lights or smaller	Height (H): 0.73 in. Width (W): 0.73 in. Interior Depth (ID): 0.42 in. Interior Width (IW): 0.47 in.	48 in. channel & frosted cover Mounting hardware End caps: 1x open, 1x closed. 96 in. channel & frosted cover Mounting hardware End caps: 2x open, 2x closed. 12mm Tape Light: Soldered Lead Only		Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	Mounting Clip: 0.73 × 0.73 in. (H x W)
90° Sideview Channel DI-CPCHB-90SD (90) 48", 96" Aluminum For 12mm Tape Lights or smaller	Height (H): 0.92 in. Width (W): 0.92 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.48 in. Mounting Canal Width (MC): 0.25 in.	48 in. channel & frosted cover Mounting hardware End caps: 1x open, 1x closed. 96 in. channel & frosted cover Mounting hardware End caps: 2x open, 2x closed. 12mm Tape Light: Soldered Lead Only		Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	Mounting Clip: 0.92 × 0.92 in. (H x W)
Slim Channel DI-CPCHB-SL (SL) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.38 in. Width (W): 0.82 in. Interior Depth (ID): 0.3 in. Interior Width (IW): 0.67 in.	48" Aluminum, Black, & White Channels • 48 in. channel & lens • 2x surface mounting clips • End caps: 1x open, 1x closed 96" Aluminum, Black, & White Channels • 96 in. channel & lens • 4x surface mounting clips • end caps: 2x open, 2x closed 12mm Tape Light: Soldered Lead Only		Architectural Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused. Premium Diffusion Lens SQ2: Dotless For diffusion options not listed, refer to Slim Channel Specification Sheet.	• Beam Angle: 120º Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40	Slim Mount: 0.54 × 0.87 in. (H x W) 3M Adhesive: 0.48 × 0.82 in. (H x W) Magnetic U-Clip: 0.59 × 0.82 in. (H x W) Premium Diffusion: 0.96 × 0.82 in. (H x W)

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.
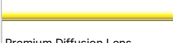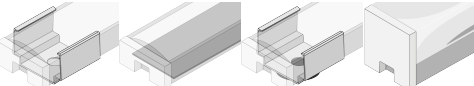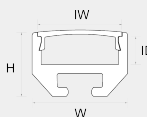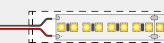
Date

Project Notes

IP20 | 24 VDC | NEC CLOSET RATED
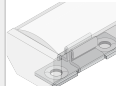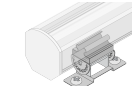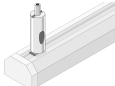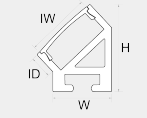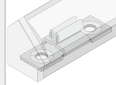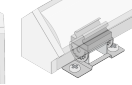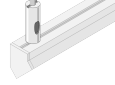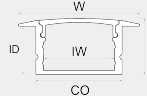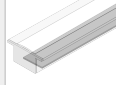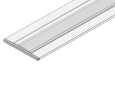
RECOMMENDED CHANNELS

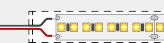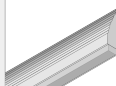| MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
Square Channel DI-CPCHB-SQ (SQ) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.55 in. Width (W): 0.82 in. Interior Depth (ID): 0.27 in. Interior Width (IW): 0.67 in. IW / ID / H / W	48" Aluminum Channel • 48 in. channel & frosted lens • 2x surface mounting clips • End caps: 1x open, 1x closed. 48" Black & White Channels • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects 96" Aluminum Channel • 96 in. channel & frosted lens • 4x surface mounting clips • End caps: 2x open, 2x closed. 96" Black & White Channels • 96 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects	12mm Tape Light: Soldered Lead Only	Architectural Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused Premium Diffusion Lens SQ2: Dotless For diffusion options not listed, refer to Square Channel Specification Sheet.	• Beam Angle: 120º Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40	Chromapath Surface Mount: 0.61 × 0.82 in. (H x W) Vertical Mount: 0.61 × 0.82 in. (H x W) Rotating Mount: 1.29 × 0.82 in. (H x W) Hanging Mount: 1.51 × 0.82 in. (H x W) Premium Diffusion: 1.13 × 0.82 in. (H x W)
45° Channel DI-CPCHB-45 (45) 48", 96" Aluminum, White, Black For 14mm Tape Lights or smaller	Height (H): 0.94 in. Width (W): 0.67 in. Interior Depth (ID): 0.32 in. Interior Width (IW): 0.67 in. IW / H / ID / W	48" Aluminum, Black, & White Channels • 48 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects 96" Aluminum Channel • 96 in. channel & clear, or frosted lens • 8x surface mounted clips • 4x End-to-end interconnects 96" Black & White Channels • 96 in. channel & clear, or frosted lens • 4x surface mounted clips • 2x End-to-end interconnects	12mm Tape Light: Soldered Lead Only	Architectural Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused Premium Diffusion Lens SQ2: Dotless For diffusion options not listed, refer to 45° Channel Specification Sheet.	• Beam Angle: 120º Architectural Clear Lens • Light Loss: 10% • CCT Shift: -20K Architectural Frosted Lens • Light Loss: 30% • CCT Shift: -35K Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K Black Lens • Light Loss: 90% • CCT Shift: -350K Premium Diffusion Lens • Light Loss: 10% • CCT Shift: -30K • IP Rating Shift: IP40	Chromapath Surface Mount: 1 × 0.67 in. (H x W) Vertical Mount: 1 × 0.67 in. (H x W) Rotating Mount: 1.68 × 0.67 in. (H x W) Hanging Mount: 1.9 × 0.67 in. (H x W) Premium Diffusion: 1.52 × 0.67 in. (H x W)
Recessed Channel DI-CPCHB-REC (REC) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.49 in. Width (W): 1.03 in. Interior Depth (ID): 0.42 in. Interior Width (IW): 0.59 in. Cut Out Width (CO): 0.74 in. Recessed Wing (RW): 0.15 in. W / ID / IW / H / CO	48 in. channel & frosted lens 2x surface mounted clips end caps: 1x open, 1x closed 96 in. channel & frosted lens 4x surface mounted clips end caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	3M Adhesive: 0.59 × 1.03 in. (H x W) Recessed Mount: 0.49 × 1.03 in. (H x W)
Reflector Channel DI-CPCHB-RFCTR (REF) 48", 96" Aluminum For 12mm Tape Lights or smaller	Height (H): 2.75 in. Width (W): 1 in. Interior Depth (ID): 0.29 in. Interior Width (IW): 0.54 in. Cut Out Width (CO): 2.35 in. Recessed Wing (RW): 0.2 in. RW / H / CO / IW / ID / RW / W	48 in. channel & frosted cover End caps: 1x open, 1x closed. 96 in. channel & frosted cover End caps: 1x open, 1x closed.	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	Recessed Mount: 2.75 × 1 in. (H x W)

diodeled®

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20   **24 VDC**   **NEC CLOSET RATED** 410.16 A.1.3 & 410.16 C.1.2.5

RECOMMENDED CHANNELS

MODEL	DIAGRAM	INCLUDED ACCESSORIES	CONNECTION OPTIONS	IN CHANNEL DIFFUSION	TECHNICAL RATINGS	MOUNTING OPTIONS WITH DIMENSIONS
1-inch Mud-In Channel DI-CPCHB-MUD1 (MI1) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.54 in. Width (W): 2.42 in. Interior Depth (ID): 0.44 in. Interior Width (IW): 0.81 in. Cut Out Width (CO): 1.19 in.	96 in. channel & opal lens 2x end-to-end connectors End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Opal Lens SQUIGGLY™ RGBW - SQ2: Dotless	• Beam Angle: 120º Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40	Recessed Mount: 0.54 × 2.42 in. (H x W)
2-inch Mud-In Channel DI-CPCHB-MUD2 (MI2) 48", 96" Aluminum For 14mm Tape Lights or smaller	Height (H): 0.8 in. Width (W): 3.86 in. Interior Depth (ID): 0.69 in. Interior Width (IW): 1.84 in. Cut Out Width (CO): 1.97 in.	96 in. channel & opal lens 2x surface mounting clips End caps: 2x open, 2x closed.	12mm Tape Light: Soldered Lead Only	Opal Lens SQUIGGLY™ RGBW - SQ2: Dotless	• Beam Angle: 120º Opal Lens • Light Loss: 55% • CCT Shift: -200K • IP Rating Shift: IP40	Recessed Mount: 0.8 × 3.86 in. (H x W)
Waveform Channel DI-CPCHB-WF (WF) 48" Aluminum For 12mm Tape Lights or smaller	Height (H): 0.3 in. Width (W): 0.71 in. Interior Depth (ID): 0.25 in. Interior Width (IW): 0.49 in. Height W/o Cover (H/C): 0.2 in.	48 in. channel & frosted lens 2x surface mounting clips End caps: 1x open, 1x closed.	12mm Tape Light: Soldered Lead Only	Classic Frosted Lens SQUIGGLY™ RGBW - SQ2: Semi-Diffused	• Beam Angle: 120º • Min. Bend Radius: 8 in. Classic Frosted Lens • Light Loss: 20% • CCT Shift: -40K • IP Rating Shift: IP40	3M Adhesive: 0.4 × 0.71 in. (H x W) U-Clip: 0.31 × 0.72 in. (H x W)

DL diodeled®

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20 | **24 VDC** | **NEC 410.16.A.1.3 & 410.16.0.12.5 CLOSET RATED**

RECOMMENDED 24V DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
MEANWELL Constant Voltage Driver Drivers for on/off or PWM dimming applications.					MEANWELL Constant Voltage Driver Specification Sheet https://www.diodeled.com/custom/download/productFile/filename/commercial-grade-CV-Driver-Specification%20Sheet%20(24V%20Models).pdf/				
						Contains • Additional Models • Additional Features	• Derating Curves • System Diagrams		
DI-CV-MW24V60W-277-LPS3R	120 ~ 277VAC 50/60Hz	24V	60W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	10.79 in.	7.34 in.	2.36 in.
DI-CV-MW24V60W-277-LPS	120 ~ 277VAC 50/60Hz	24V	60W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	11.25 in.	3.75 in.	1.9 in.
DI-CV-MW24V90W-277-LPS3R	120 ~ 277VAC 50/60Hz	24V	90W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	10.79 in.	7.34 in.	2.36 in.
DI-CV-MW24V90W-277-LPL	120 ~ 277VAC 50/60Hz	24V	90W	No Minimum Load	Yes	Yes, with compatible PWM dimmer/controls	13.5 in.	4.5 in.	2.38 in.
PoE (Power over Ethernet) Constant voltage platform, ready for Power over Ethernet (inquire)									

RECOMMENDED CONTROLLERS

SKU	DESCRIPTION
TOUCHDIAL™ Control Systems The TOUCHDIAL™ zone control system controls single color dimming, tunable white, and color changing LED lighting via mobile device and additional TOUCHDIAL controls.	
DI-RF-WMT-RGBW	TOUCHDIAL RGB(W) Wall Control - Single Zone
DI-RF-REC-CV-A	TOUCHDIAL Color Control System - WiFi Receiver
DI-RF-REM-RGBW-4	TOUCHDIAL Color Control System - RGB/RGBW 4-Zone Remote Controller
DI-WIFI-RF-TRMS	TOUCHDIAL Color Control System - WiFi Hub
Nicolaudie DMX LED Controllers Store up to 500 scenes across 10 separate zones with a full-color display.	
DI-DMX-DE3	Nicolaudie STICK-DE3 DMX LED Controller
DI-DMX-ESA	Nicolaudie Easy Stand Alone DMX LED Color Controller - 5k Memory
DMX Color Control System DMX Color Control Systems	
DI-1810	DMX512 4-Channel Decoder with Digital Display controls LED RGB and RGBW lighting fixtures
DI-DMX-DEC-5	DMX512 5-Channel Decoder with RDM and Digital Display, controls LED TW, RGB, RGBW and RGBWW lighting fixtures
DI-DMX-DEC-25	DMX512 25-Channel Decoder with RDM and Digital Display, controls LED TW, RGB, RGBW and RGBWW lighting fixtures

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
Eliminates the need for additional cutting soldering when making 45-degree turns.

Date

Project Notes

IP20 | 24 VDC | NEC CLOSET RATED

MECHANICAL DIAGRAMS

24V-SQ2-RGBW

4.92 in. (125 mm)

Width 0.47 in. (12 mm)

Height 0.1 in. (3 mm)

CONNECTIONS

36 White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief

36 White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief

DELIVERY OPTIONS

- **Field Assembly**
  Fastest order fulfillment. Field connectors and accessories not included.

- **Factory + Field (Hybrid)**
  Onsite modifications with factory connection. Additional accessories not included.

- **Factory Assembly**
  Fastest Installation. Factory made-to-order fixtures.

- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.

- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.

- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.

- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.

- Operating temperature is measured according to the minimum and maximum ambient temperature environment.

SQUIGGLY™ RGBW 24V

RGBW tape light with multi-axis flexibility, designed for intricate signs, lettering, light boxes, stage lining, and architectural accents.
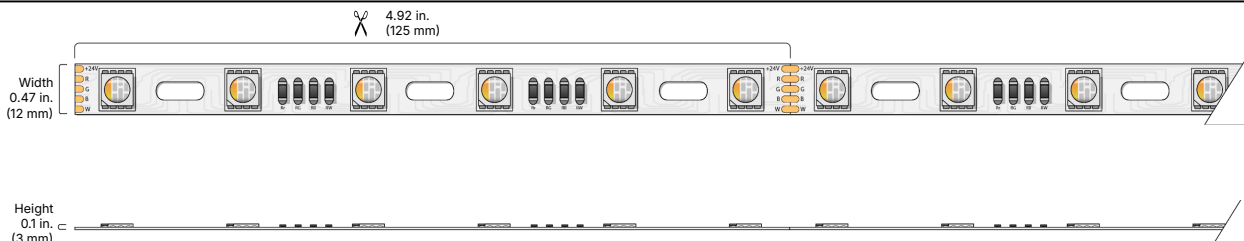Eliminates the need for additional cutting soldering when making 45-degree turns.
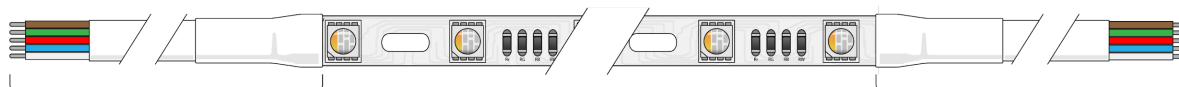
Date

Project Notes

IP20 | **24 VDC** | **NEC** 410.16.A.1,3 & 410.16.C.1,3,5 **CLOSET RATED**

CERTIFICATIONS

Safety

- UL Listed 2108 Flexible Lighting Systems. Certified for United States and Canada. File # E469769.

- UL Listed Field Cuttable.

- Approved for storage areas of clothes closets per NEC 410.16.A.1,3 and 410.16.C.1,3,5

Environment

- Ambient Temperature: -4 ~ 122°F (-20 ~ 50°C)

- Operating Temperature: -4 ~ 176°F (-20 ~ 80°C)

Performance

- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.

2. This product is intended to be installed and serviced by a qualified, licensed electrician.

3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.

4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.

6. Maximum Run values are calculated to show the total length a product may be connected in series without experiencing significant voltage drop and light loss. A product's listed Maximum Run may be greater than its longest purchasable length.

7. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.

8. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.

9. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings

10. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.

11. Do not modify product beyond instructions or warranty will be void.

12. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.

13. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.

WARRANTY

Limited Warranty

- 7 Year limited warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.