

NEOFLEX Bendable Neon Flex



24V DC, Outdoor-Rated Neon Flex,
Dual* Bendable



PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

- **Non-pixelated light diffusion**, enables the product to be freely bent in any direction, vertically and horizontally*
- **Field-cuttable** for quick, in-field customization (*connects sold separately*)
- **Easy installation** with clips, fixed channel, trimless channel, and bendable channel
- Slim silicone construction with 6" minimum bending radius
- Indoor or outdoor rated drivers available (*sold separately*)
- **50,000-hr rated life**, Title 24 compliant, and 5-year limited warranty

* Select models

PERFORMANCE

Catalog Number	Type	Input Voltage	Color Temperature	Reel Length	Max Output Wattage	Max Lumens	IP Rating	CRI	Cutting Increment	Max Run
TNFYY	Static CCT, 16 ft	DC24V	2700K	16 ft	4.27 W/ft	202 lm/ft	IP67	90	Any	16 ft
TNFY			3000K			213 lm/ft				
TNFYN			3500K			213 lm/ft				
TNFN			4000K			224 lm/ft				
TNFCW			5000K			218 lm/ft				
TNFLGY	Static CCT, Low Glare, 16 ft	DC24V	3000K	16 ft	4.27 W/ft	40 lm/ft	IP67	90	Any	16 ft
TNF/LCB*	Tunable White, 16 ft	DC24V	Tunable white 2700-6500K	16 ft	2.5W/ft	WW: 220 lm/ft. CW: 135 lm/ft. Mix: 130 lm/ft.	IP67	90	2 in	32 ft
TNF/RGB*	RGBW, 16 ft	DC24V	2200-3000K and 16+ million colors	16 ft	4.27 W/ft**	Mix: 94 lm/ft W: 33 lm/ft	IP67	90	5 in	49 ft

* Requires Lightcloud Blue Controller, sold separately
** Only applies to white colors

ACCESSORIES



Catalog Number	Description	Packaging includes
TPF2NF	Tape Light Silicone End Caps Kit	1 2-Pin hard wiring, 11.81" 1 Tail fed + 1 side/bottom-fed front cap 1 Silicone endcap 1 Glue
Compatible with: TNFY, TNFY, TNFY, TNFN		



Catalog Number	Description	Packaging includes
TPF2NFB	2-Pin Power Feed Kit for 16mm Black Neon	1 2-Pin hard wiring 1 Tail fed + 1 side/bottom-fed front cap 1 Silicone endcap 1 Glue
Compatible with: TNFLGY		



Catalog Number	Description	Packaging includes
TPF3NF	Tape Light Silicone End Caps Kit	1 3-Pin hard wiring, 11.81" 1 Tail fed + 1 side/bottom-fed front cap 1 Silicone endcap 1 Glue
Compatible with: TNF/LCB		



Catalog Number	Description	Packaging includes
TPF5NF	Tape Light Silicone End Caps Kit	1 5-Pin hard wiring, 11.81" 1 Tail fed + 1 side/bottom-fed front cap 1 Silicone endcap 1 Glue
Compatible with: TNF/RGB		



Catalog Number	Description	Packaging includes
TPFE3	Tape Light Wire Extender	3-Pin connected w/8' wire
Compatible with: TNF/LCB		



Catalog Number	Description	Packaging includes
TPFS3	3-Pin Y-shaped Wire Splitter	3-pin Y-shaped wire splitter with M12 connector
Compatible with: TNF/LCB		



Catalog Number	Description	Packaging includes
TPFE5	Tape Light Wire Extender	5-Pin connected w/8' wire
Compatible with: TNF/RGB		



Catalog Number	Description	Packaging includes
TPFS5	5-Pin Wire Splitter	5-Pin + 2-pin connectors
Compatible with: TNF/RGB		



Catalog Number	Description	Packaging includes
TAP16	16mm Tape Light Aluminum Channel	3.28' Length
Compatible with: TNFY, TNFY, TNFY, TNFN, TNFLGY, TNF/LCB, TNF/RGB		



Catalog Number	Description	Packaging includes
TAP16TL	Trimless 16mm Wide Aluminum Profile	3.28' Length
Compatible with: TNFY, TNFY, TNFY, TNFN, TNFLGY, TNF/LCB, TNF/RGB		



Catalog Number	Description	Packaging includes
TSG	10mL Silicone Glue	1 Tube
Compatible with: TNFY, TNFY, TNFY, TNFN, TNFLGY, TNF/LCB, TNF/RGB		



Catalog Number	Description	Packaging includes
TB16	Tape Light Brackets	10 Brackets and screws
Compatible with: TNFY, TNFY, TNFY, TNFN, TNF/LCB, TNF/RGB		

ACCESSORIES (cont'd)



Catalog Number	Description	Packaging includes
TB16B	Tape Light Brackets. Black	10 Brackets and screws
Compatible with: TNFLGY		



Catalog Number	Description	Packaging includes
TBB16	16mm Tape Light Bendable Channel	Mounting screws included
Compatible with: TNFY, TNFY, TNFY, TNFN, TNF/LCB, TNF/RGB		

DRIVERS



Catalog Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable
TID-60	60W Linear Driver	60W/6W	100-277V AC	24V DC	Yes, MLV/ELV/TRIAC*
TID-96	96W Linear Driver	96W/9.6W	100-277V AC	24V DC	Yes, MLV/ELV/TRIAC*
TOD-96	96W Linear Driver for /LCB or /RGB Tape Light	96W/9.6W	100-277V AC	24V DC	Phase (ELV/MLV/TRIAC) / 0-10V / 1-10V / 10V PWM / Potentiometer
TOD-96x2	96W Linear Driver, 2-Channel	192W/9.6W	100-277V AC	24V DC	Phase (ELV/MLV/TRIAC) / 0-10V / 1-10V / 10V PWM / Potentiometer
TOD-96x3	96W Linear Driver, 3-Channel	288W/9.6W	100-277V AC	24V DC	Phase (ELV/MLV/TRIAC) / 0-10V / 1-10V / 10V PWM / Potentiometer
TND-96	96W Linear Driver for /LCB or /RGB Tape Light	96W	100-277V AC	24V DC	No. When paired with LCB Controller, tape can be dimmed wirelessly.

* See dimmer compatibility list in this document.

DRIVER ACCESSORIES



Catalog Number	Description	Packaging includes
TND/B	J-box for TND drivers	Junction box
Compatible with: TND-96		

LIGHTCLOUD BLUE CONTROLLERS



Catalog Number	Description	Compatible Driver	Compatible Tape	Features
LCBLV/TW	LCB 24V Controller for Tape - Tunable White	TND-96	TIC/LCB, TOS/LCB, TNF/LCB	- Wireless control with Lightcloud Blue - Configure scenes or dynamic color changing light shows (RGB only) - Indoor range: 60ft obstructions, 200ft clear line of sight - Outdoor range: 120ft obstructions, 200ft clear line of sight
LCBLVD/RGB	LCB 24V Controller for Tape - RGBW	TND-96	TOS/RGB, TNF/RGB	

TECHNICAL SPECIFICATIONS

LIGHTCLOUD BLUE FEATURES

Color Tuning*

Choose from 16+ million colors to customize your space to fit every mood.
*/RGB models only

Light Shows*

Dynamic RGBW light shows with customizable effects and color sequences using the Lightcloud Blue mobile app.
*/RGB models only

Tunable White*

Adjust the color temperature via the Lightcloud Blue mobile app and devices.
*/LCB and /RGB models only

Direct Connect

Use the Lightcloud Blue mobile app to connect to your device(s) in minutes via Bluetooth Mesh; no Gateway or Hub required.

Mobile App Control

Use the Lightcloud Blue mobile app to configure features for On/Off Control, Dim Level, Color Temperature, Schedules, Scenes, SmartShift and more.

SmartShift

Easily configure automated lighting profiles to automatically adjust brightness and color temperature for circadian and aesthetic needs.

Scalable

Devices within 60 feet of each other can communicate within the Bluetooth Mesh network to manage a maximum of up to tens of thousands of devices per account.

Required Controller

Requires Low Voltage 24V Controller (LCBLV[D]/[TW]/[RGB]), sold separately. Max run length for a single controller is 45 ft.

CONSTRUCTION

Product Type

Dual Flex Silicone Wet Rated Neon Tape Light

Width

3/8 in

Length

16 ft

Light Source

SMD LED White

Material Construction

Dual-flex design which can be used to create curved and complex irregular designs

Note: /RGB models are top-bend only

Light Effect

Soft linear lighting performance

Packaging

Recyclable cardboard reel packaged in anti-static paper bag

INSTALLATION

Field Cuttable Increment

TNFXX & TNFLGY: any length

TNF/LCB: 2 in

TNF/RGB: 4.9 in

Max Run Length

TNFXX & TNFLGY: 16 ft

TNF/LCB: 32 ft

TNF/RGB: 49 ft

Mounting

Easy installation with clips, fixed channel, trimless channel, and bendable channel.

ELECTRICAL

Dimmable

PWM Dimming Signal, dimmable down to .1% with LED Driver (*sold separately*)
Lightcloud Blue models are only dimmable via the mobile app or devices and should not be connected to standard dimmers.

Input Voltage

24V DC

Input Current

5 mA/LED at 120V

Operating Temperature

-4° to 113°F (-20° to 45°C)

Storage Temperature

-4° to 140°F (-20° to 60°C)

Flicker

Flicker Free - Pst LM<1, SVM<0.4, Percent Flicker≤5%@≤200Hz

LED CHARACTERISTICS

Chip Density

TNFXX: 37 LED/ft

TNFLGY: 36 LED/ft

TNF/LCB: 73 LED/ft

TNF/RGB: 29 LED/ft

Beam Angle

120°

Color Temperature

TNFXX: 2700K, 3000K, 3500K, 4000K, 5000K

TNFLGY: 3000K

TNF/LCB: 4000K, Tunable white 2700-6500K*

TNF/RGB: 4000K, Tunable white 2200-3000K*

**Requires Lightcloud Blue Controller, sold separately*

Color Accuracy (CRI)

90

R9 Value

High color performance with R9 greater than 50

Color Consistency

<5-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

COMPLIANCE

Listing

UL2108

Environment

Suitable for use indoors and outdoors in dry, damp, or wet environments.

IP Rating

IP67

California Title 24 JA8 Compliant

Can be used to conform with the requirements of California Title 24 Part 6.

California Energy Commission (CEC) Status

Lawful for Sales in California

NEC Compliant

Suitable for use in closets when used in an enclosed extrusion based on NFPA 70, NEC section 410.16 (A)(1) and 410.16 (C)(1)

IESNA LM-79 & LM80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

RoHS

Mercury and UV free. RoHS-compliant components.

FCC

Complies with Part 15 of the FCC Rules

WARRANTY

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

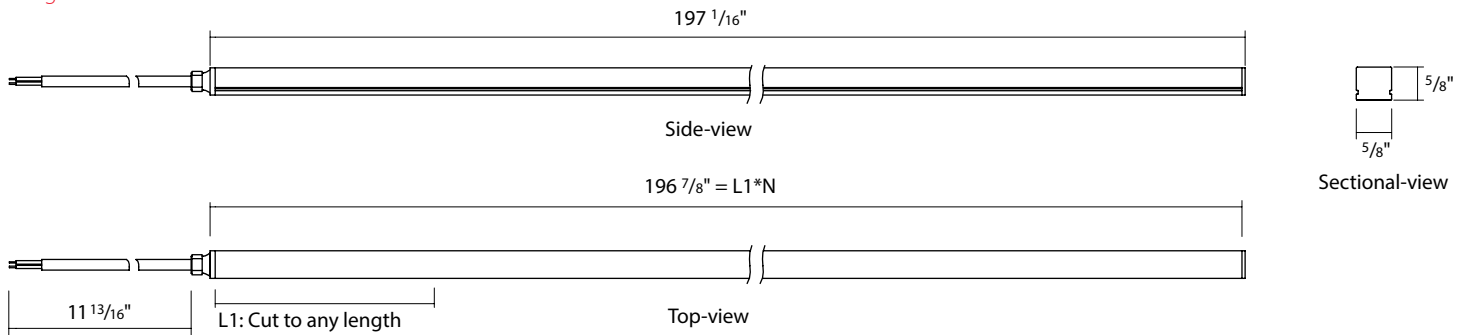
NEOFLEX Bendable Neon Flex



DIMENSIONS

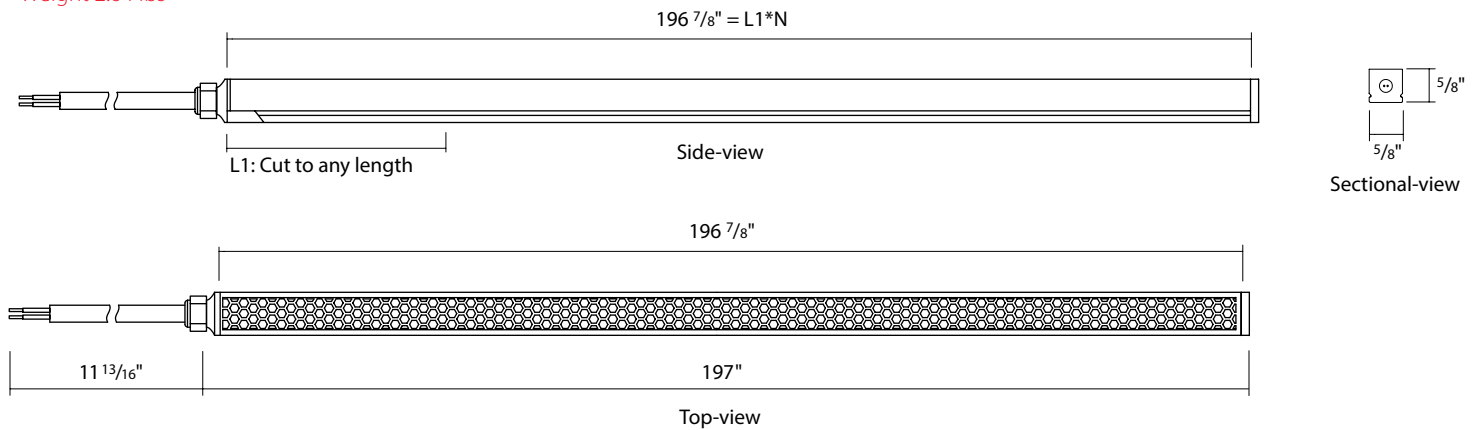
TNFYY, TNFY, TNFYN, TNFN, TNFCW

Weight 2.64 lbs



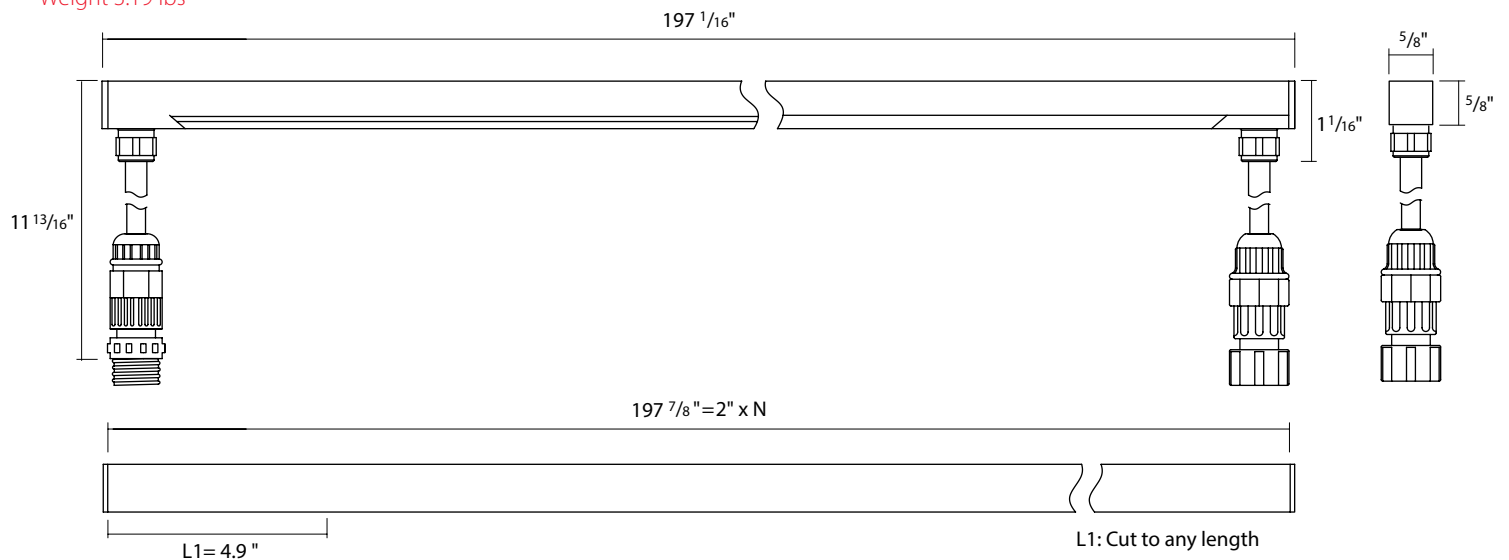
TNFLGY

Weight 2.64 lbs



TNF/LCB

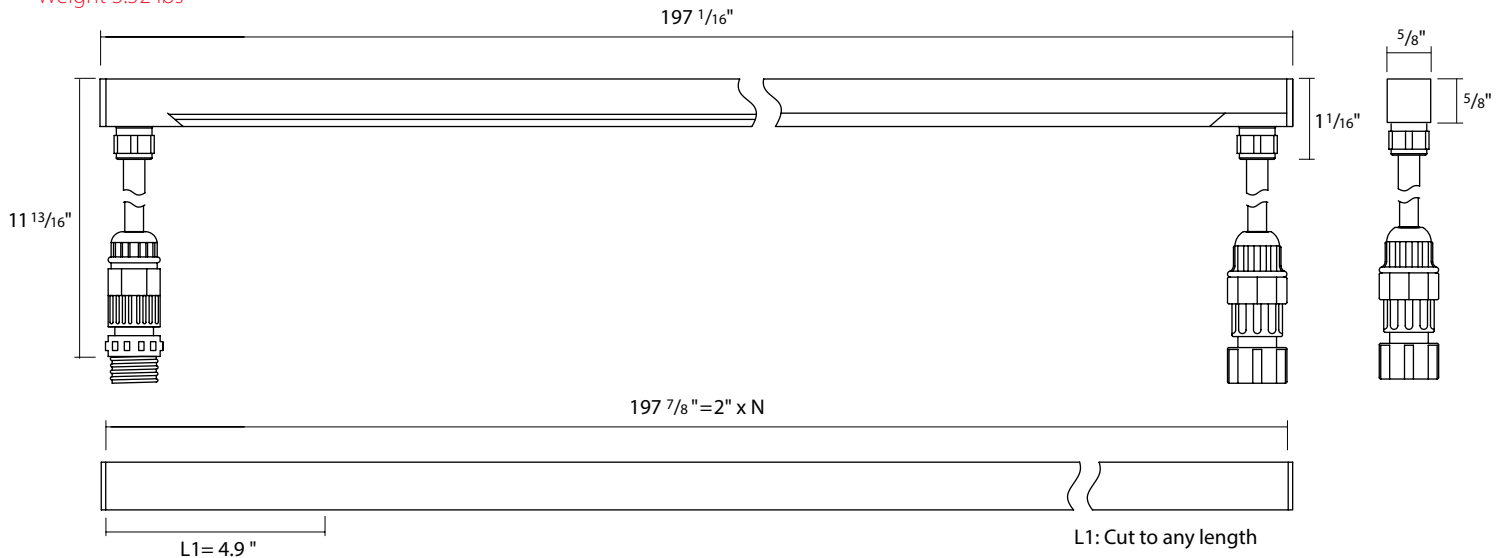
Weight 3.19 lbs



DIMENSIONS

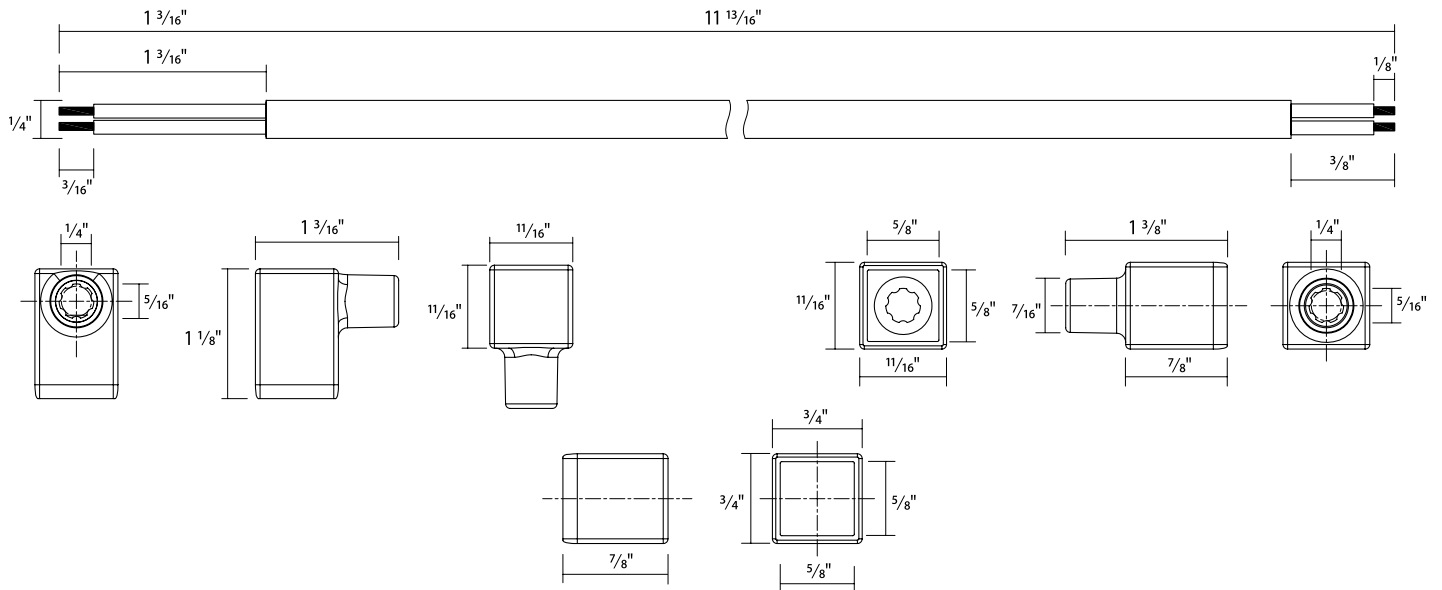
TNF/RGB

Weight 3.52 lbs



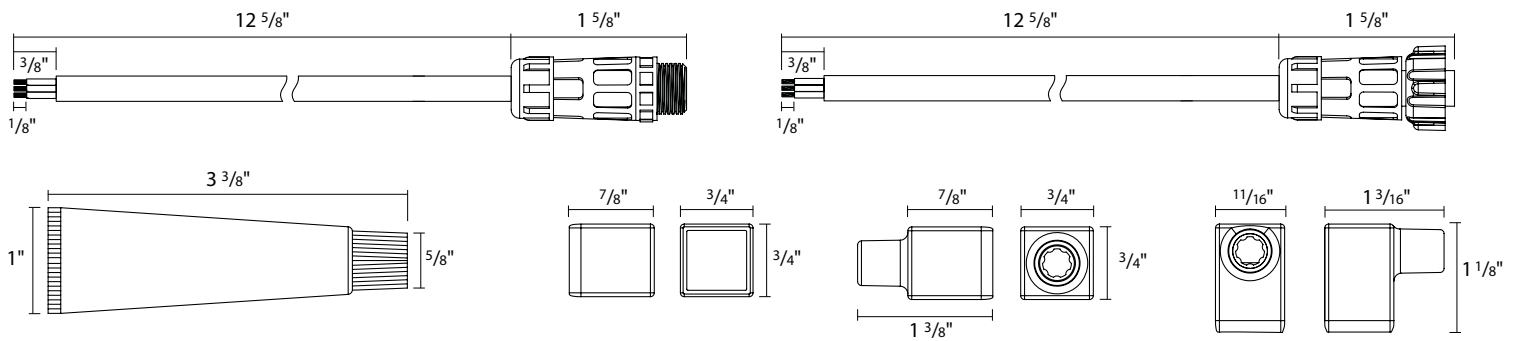
DIMENSIONS - ACCESSORIES

TPF2NF & TPF2NFB

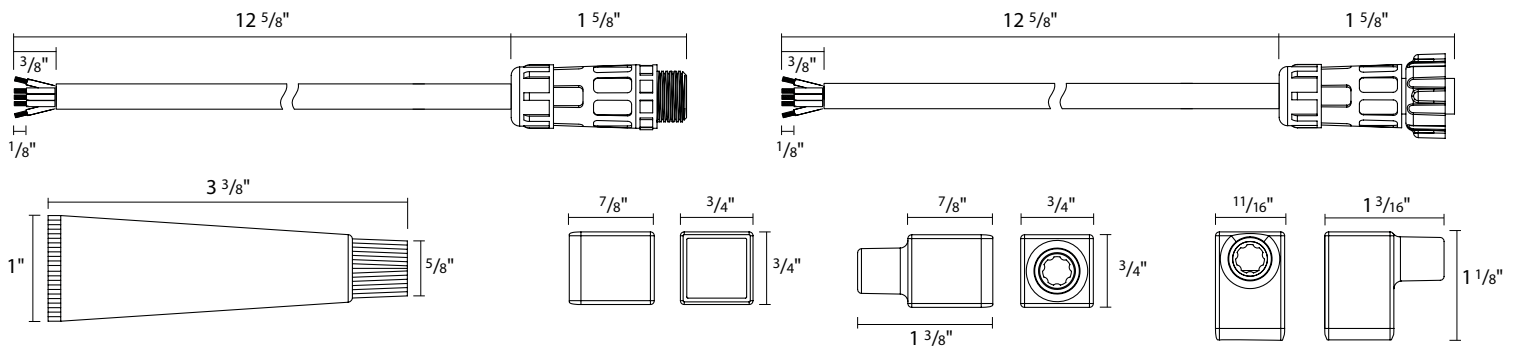


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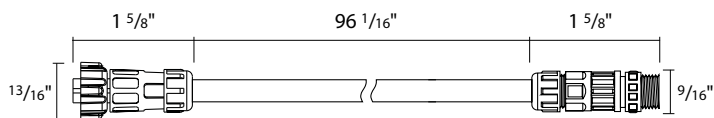
TPF3NF



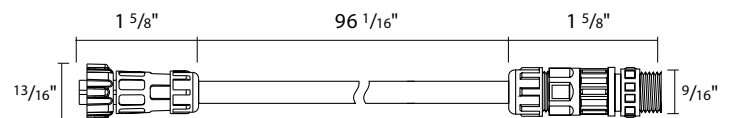
TPF5NF



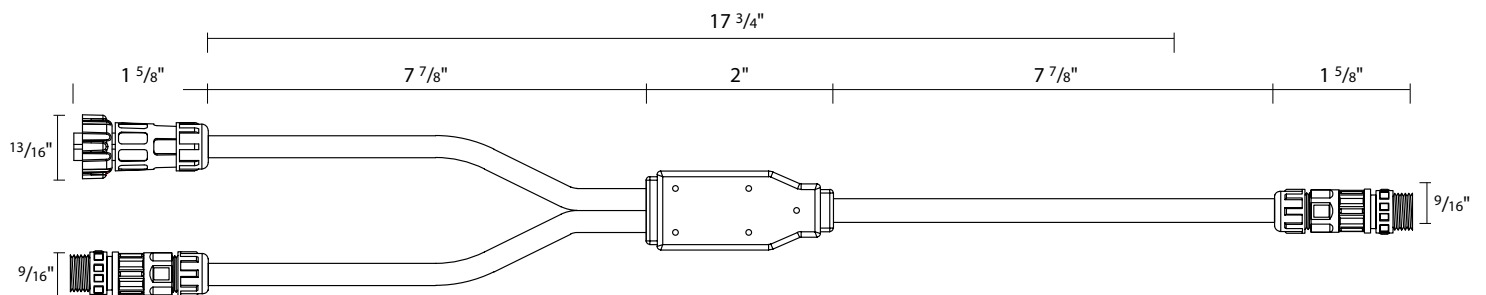
TPFE3



TPFE5



TPFS3



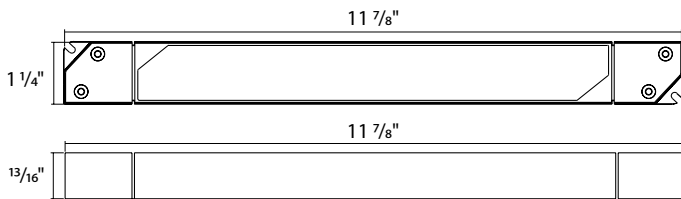
RAB®

TPFS5

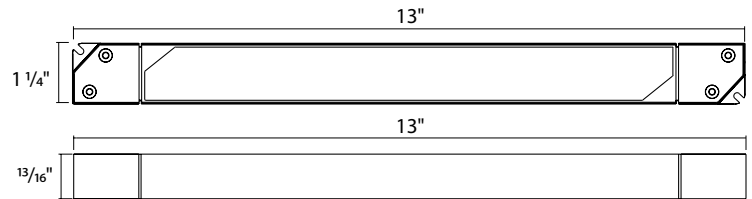


DIMENSIONS - DRIVERS

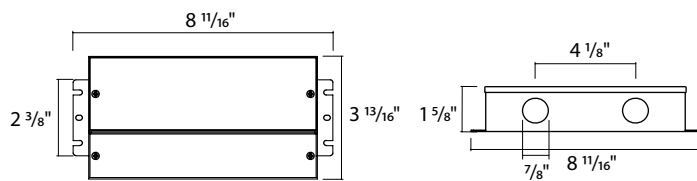
TID-60



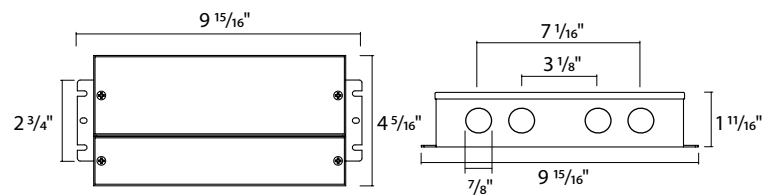
TID-96



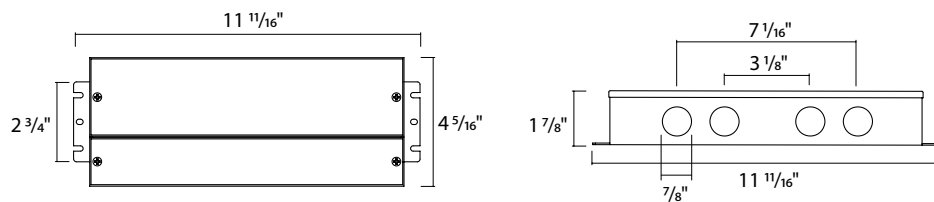
TOD-96



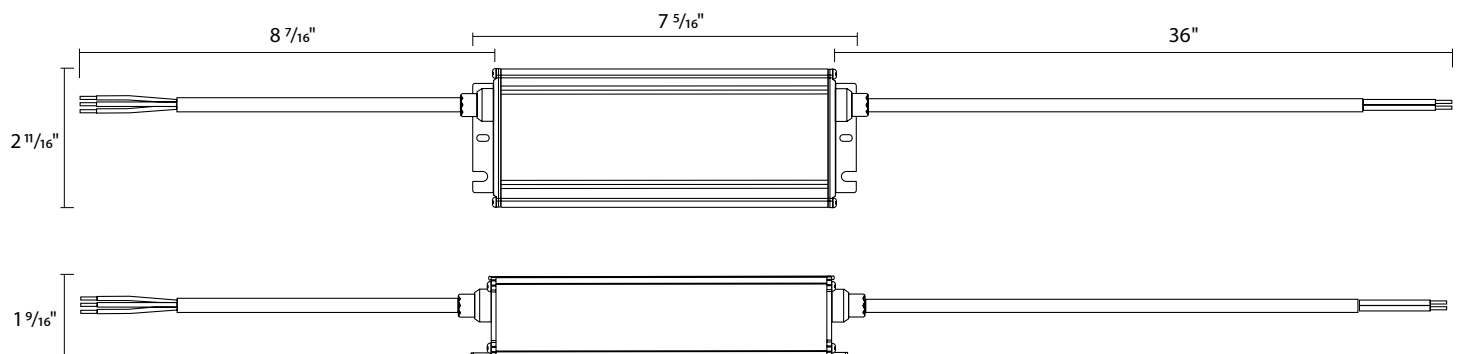
TOD-96X2



TOD-96X3

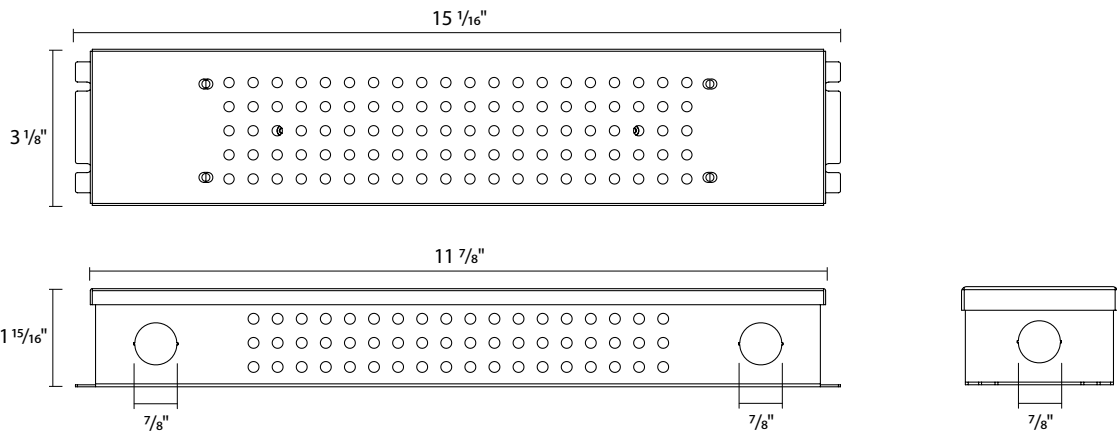


TND-96



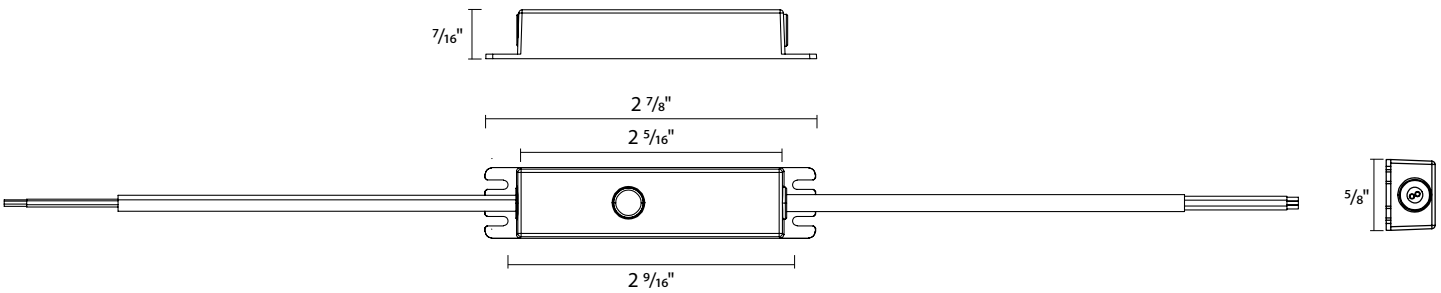
DIMENSIONS - DRIVER ACCESSORIES

TND/B



DIMENSIONS - LIGHTCLOUD BLUE LOW VOLTAGE (24V) CONTROLLER

LCBLV/TW & LCBLVD/RGB



ORDERING INFO

Catalog Number	UPC	Case Pack
TNFYY	192552059930	10
TNFY	192552046848	10
TNFYN	192552059947	10
TNFN	192552059954	10
TNFCW	192552060578	10
TNFLGY	192552059961	10
TNF/LCB	192552054713	10
TNF/RGB	192552054720	10

DIMMER COMPATIBILITY LIST

The following dimmers are compatible with non-Lightcloud Blue versions of this product.

Dimmer Brand	Part Number	Dimmer Brand	Part Number
LUTRON	TGCL-153P	LUTRON	DVLV-600P
	MSCL-OP153M		DVCL-153P
	STCL-153M		CTCL-153P
	MACL-153M		DV-600P
	SCL-153P		CTCL-150
	DVRF-6L	LEVITON	IPLO6
	RCL-153PNL	RAB	DSLO6
			XDIM/LCB[S]

Lightcloud Blue models are compatible with the following devices to control on/off and dimming.

Part Number	Description
ZDIM/LCB[S]	Wireless switch/dimmer 120-277V
LCBLUEREMOTE/W	Wireless battery powered remote

Visit rablighting.com for periodic updates to this list or contact us at 888-722-1000 for questions or comments.

ORDERING MATRICES

STATIC COLOR TEMPERATURE

Family	Length	Lumen Output	CRI/Color Temperature	Input Voltage	IP Rating	Controls
TNF	Blank	Blank	Blank	Blank	Blank	Blank
	16 ft	Standard Low Glare	YY Y YN N CW	24V DC	IP67, Outdoor	None

*LG models only available in 3000K

TUNABLE WHITE – LIGHTCLOUD BLUE

Family	Length	Lumen Output	CRI/Color Temperature*	Input Voltage	IP Rating	Controls
TNF	Blank	Blank	Blank	Blank	Blank	Blank
	16 ft	Standard	90 CRI, Tunable Color Temperature	24V DC	IP67, Outdoor	/LCB /RGB Lightcloud Blue 16+ Million Colors w/ Lightcloud Blue

*/LCB is tunable white 2700-6500K using Lightcloud Blue

/RGB is tunable white 2200-3000K and 16+ million colors using Lightcloud Blue