

12VDC

# BLAZE<sup>™</sup> X 100/200/300 LED Strip Light

Item #

Project

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SPECIFICATION SHEET

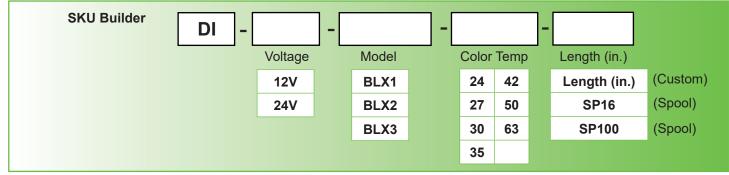
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<b>Z</b>		/							
		12V-BLX1	12V-BLX2	12V-BLX3	24V-BLX1	24V-BLX2	24V-BLX3		
Voltage		12VDC			24VDC				
Wattage		1.54W /ft	3.1W /ft	4.3W /ft	1.54W /ft	3.1W /ft	4.3W /ft		
	2400K	110/ft	225/ft	318/ft	114/ft	226/ft	322/ft		
-	2700K	109/ft	221/ft	305/ft	112/ft	224/ft	318/ft		
-	3000K	122/ft	247/ft	339/ft	126/ft	253/ft	360/ft		
Lumens	3500K	126/ft	241/ft	352/ft	131/ft	254/ft	357/ft		
	4200K	127/ft	254/ft	349/ft	133/ft	264/ft	365/ft		
	5000K	128/ft	262/ft	358/ft	135/ft	264/ft	378/ft		
	6300K	121/ft	273/ft	380/ft	123/ft	276/ft	393/ft		
Cut Points		2 in.	1 in.	1 in.	4 in.	2 in.	2 in.		
Max. Run <sup>2</sup>	. Run²	37 ft.	22 ft.	20 ft.	70 ft.	45 ft.	40 ft.		
Max. Run <sup>2</sup> (Class 2) LED Chips Color Temperature CRI		37 ft.	19 ft.	14 ft.	62 ft.	31 ft.	22ft.		
		18/ft 36/ft.			18/ft	36/	/ft.		
		2400K, 2700K, 3000K, 3500K, 4200K, 5000K, 6300K							
		95+							
Dimr	mable	Yes							
Dime	nsions	0.32 x 0.1 in. (W x H)							
Enviro	onment <sup>3</sup>	Indoor / Damp Location							
Certif	ication	UL Listed 2108							
War	ranty		12-Year Warranty						

TITLE 24 PART 6

GH EFFICACY LED QUIREMENTS

95+

24VDC



*Example: DI-12V-BLX3-27-SP16 = Diode LED, 12 Volt, BLAZE™ X, Type 3, 2,700° CCT, 16.4' spool.* 

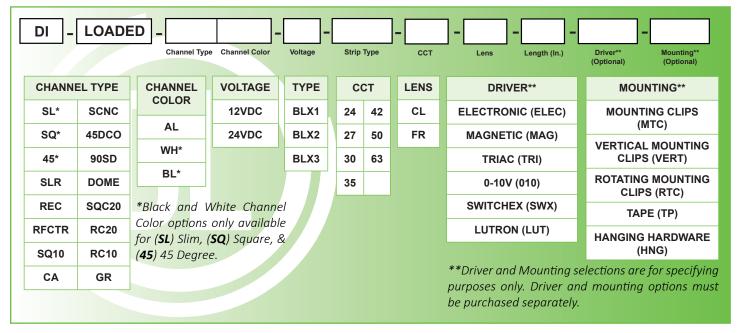
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Toll Free: 877.817.6028 | Fax: 415.592.1596 | <u>www.DiodeLED.com</u> | info@DiodeLED.com SPEC SHEET | BLAZE<sup>™</sup> X 100/200/300 LED STRIP LIGHT | SS110119-7.0 | 1 OF 12

#### SPECIFICATION SHEET

## **FULLY LOADED CHANNELS**

#### FULLY LOADED SKU Builder



Example: DI-LOADED-SQBL-24V-BLX3-CL-36-CV = Diode LED, Fully Loaded, Square, Black Channel, 24 Volt, BLAZE™ X 300, Clear Lens, 36 inches , 96" Lead Wire, and with a Constant Voltage Driver.

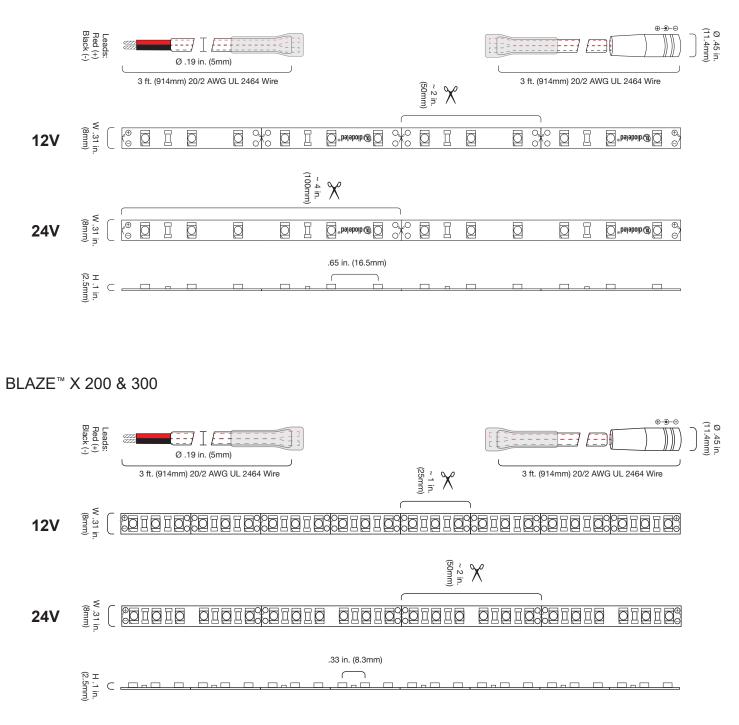
#### NOTE: All Fully Loaded Channels include 96" lead wires.

- 1. Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- 2. 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.
- 5. Operating temperature is measured according to the minimum and maximum ambient temperature environment.

## **MECHANICAL DIAGRAMS**

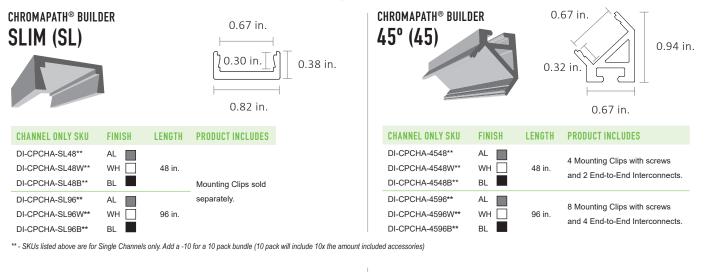
SPECIFICATION SHEET

BLAZE<sup>™</sup> X 100

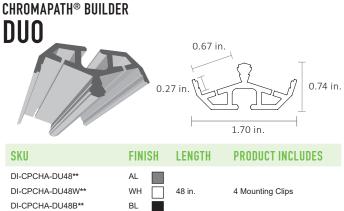


## **CHROMAPATH BUILDER CHANNELS**

NOTE: Chromapath Builder channel covers are sold separately.



CHROMAPATH® BUILDER 0.67 in. SQUARE (SQ) DUO 0.27 in. 0.55 in. 0.82 in. **CHANNEL ONLY SKU** FINISH LENGTH **PRODUCT INCLUDES** DI-CPCHA-SQ48\*\* AL 4 Mounting Clips with screws DI-CPCHA-SQ48W\*\* WH 🗌 48 in. SKU and 2 End-to-End Interconnects. DI-CPCHA-SQ48B\*\* BI DI-CPCHA-SQ96\*\* AL 8 Mounting Clips with screws DI-CPCHA-SQ96W\*\* WH 96 in. and 4 End-to-End Interconnects. BL DI-CPCHA-SQ96B\*\*



\*\* - SKUs listed above are for Single Channels. Add a -10 for a 10 pack bundle (10 pack will include 10x the amount included accessories)

### SPECIFICATION SHEET

SPECIFICATION SHEET

0.73 in.

0.415 in.

∩ 257 in.

0.485 in.

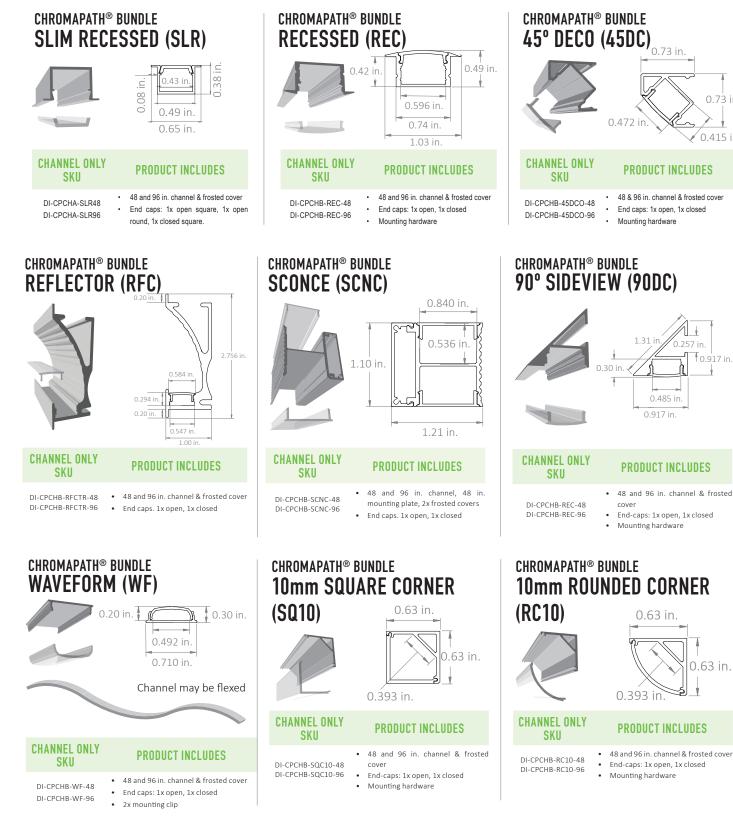
0.917 in.

0.917 in.

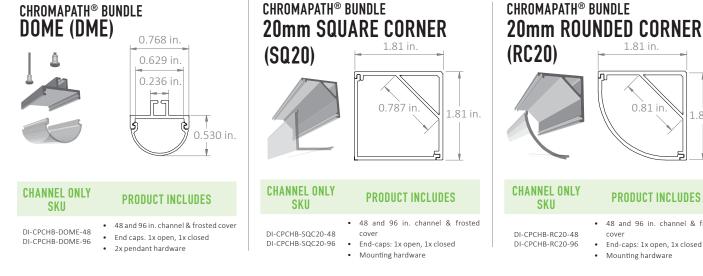
0.63 in.

## CHROMAPATH BUNDLE CHANNELS

NOTE: CHROMAPATH Bundles are not interchangeable with each other nor compatible with CHROMAPATH Builder channels.

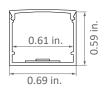


## **CHROMAPATH BUNDLE CHANNELS (CONT.)**



### CHROMAPATH® BUNDLE CANAL (CA)





**PRODUCT INCLUDES** 

• 48 and 96 in. channel & opal cover

 End caps: 1x open. 1x closed • 2x mounting clip

• 96 in. channel & opal cover

CHANNEL	ONLY
SKU	

- DI-CPCHB-CAN48
- DI-CPCHB-CAN96
- End caps: 2x open, 2x closed • 4x mounting clip

### CHROMAPATH® BUNDLE **GRAZER NARROW BEAM (GRZNB)**



DI-CPCHB-GZRNB-96

• End caps: 2x open, 2x closed • 4x mounting clips

### SPECIFICATION SHEET



#### SPEC SHEET | BLAZE<sup>™</sup> X 100/200/300 LED STRIP LIGHT | SS110119-7.0 | 6 OF 12

### SPECIFICATION SHEET

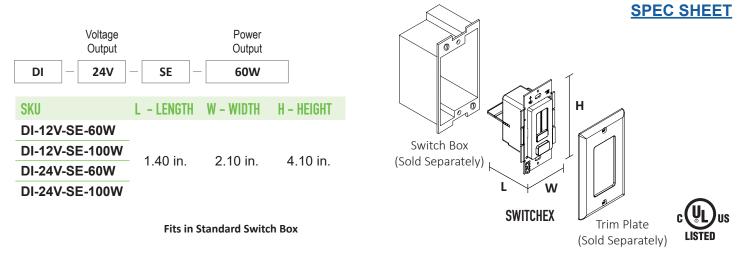
## **COMPATIBLE PRODUCTS**

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <u>https://www.diodeled.com/products/led-power-supplies.html</u>

## **STAND ALONE**

### SWITCHEX® DRIVER + DIMMER SWITCH

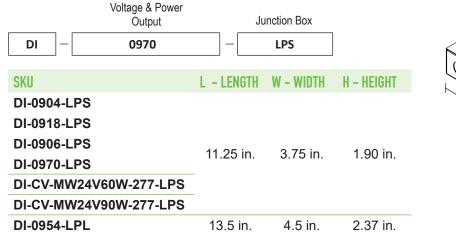
SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

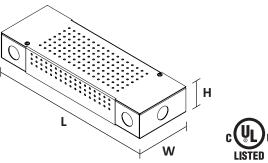


## ON/OFF, DMX, & PWM CONTROL

### LO-PRO® JUNCTION BOX & DRIVER COMBO - 12/24V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.





SPEC SHEET

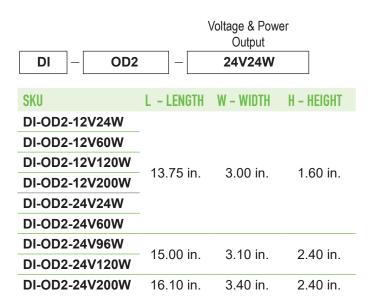
### SPECIFICATION SHEET

## **COMPATIBLE PRODUCTS**

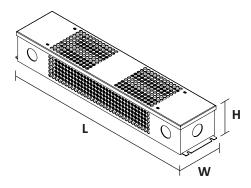
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <u>https://www.diodeled.com/products/led-power-supplies.html</u>

## **OMNIDRIVE® 2** ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: <u>https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf/</u>



### **SPEC SHEET**

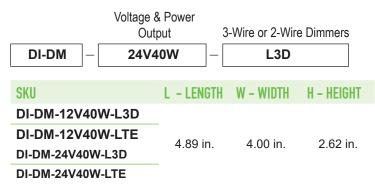


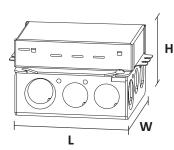


## **LUTRON OPTIONS**

### **LUTRON**. Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.









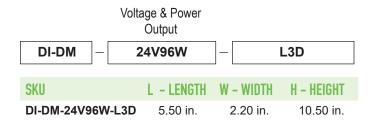
### SPECIFICATION SHEET

## **COMPATIBLE PRODUCTS**

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <u>https://www.diodeled.com/products/led-power-supplies.html</u>

### **LUTRON**. Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.





Protects LED tape light and slightly softens light. Note: there is an average warm shift in Kelvin of 35K and an average 28% decrease in delivered

Protects LED tape light with no visible color shift or change in delivered

DESCRIPTION

lumens.

lumens.

### SPECIFICATION SHEET

## ACCESSORIES

### CHROMAPATH® BUILDER CHANNEL COVERS (individual\*) - SLIM / SQUARE / 45° / DUO

SKU	FINISH	FORM FACTOR	BUNDLES
DI-CPCHC-FR48**	Frosted	Frosted Cover (48 in.)	
DI-CPCHC-FR96**	Frosted	Frosted Cover (96 in.)	Single or 10 Pack
DI-CPCHC-CL48**	Clear	Clear Cover (48 in.)	0
DI-CPCHC-CL96**	Clear	Clear Cover (96 in.)	

#### \*not for use with Fully Loaded Channels

\*\* - SKUs listed above are for Single covers. Add a -10 for a 10 pack bundle.

#### CHROMAPATH® BUILDER CHANNEL MOUNTING OPTIONS - SLIM

SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION	
DI-1633	N1/A	SLIM Mounting Tape	4 ft. x 0.75 in.	3M® high-bond double-sided adhesive tape designed to install the CHROMAPATH	
DI-1634	N/A		12 ft. x 0.75 in.	SLIM on a flat, indoor surface.	
DI-CPCH-UC-BA DI-CPCH-UC-WH DI-CPCH-UC-BL	AL 🛄 WH 🛄 BL	SLIM Mounting U-Clips	Pack of 2 clips / 4 screws	Secure SLIM Channel to flat surface with this pressure-fit clip. Also compatible when installed with PREMIUM DIFFUSION cover. Adds 0.12in. height to channel.	

### CHROMAPATH® BUILDER CHANNEL MOUNTING OPTIONS - SQUARE / 45° / DUO

SKU	FINISH	FORM FACTOR	BUNDLES	DESCRIPTION		
DI-CPMC2-SCR4 Moun	Mounting Clips	Pack of 2 clips / 4 screws	Secure CHROMAPATH to flat surface with			
DI-1630-20	- Steel	(MTC)	Pack of 20 clips / 40 screws	<ul> <li>this pressure-fit clip. Adds 0.12in. height to channel.</li> </ul>		
DI-1912	Steel	Vertical Mounting Brackets (VERT)	Pack of 2	Used to install CHROMAPATH in a vertical orientation and includes an Allen key and allen screws for securing to a vertical surface. Note: Mounting Clips, or Rotating Mounting Clips required for installation of Vertical Mounting Brackets.		
DI-CPCH-HNG	Steel	Hanging Hardware Kit (HNG)	Pack of 2 hanging mounts / 2 Wire restrainers / 4 screws	Transform your CHROMAPATH Channel into a pendent fixture with CHROMAPATH Hanging Hardware Kit.		
DI-CPCH-RC-BA DI-CPCH-RC-WH DI-CPCH-RC-BL	AL 📃 WH 🛄 BL	Rotating Mounting Clips (RTC)	Pack of 2 clips / 4 screws	Secure CHROMAPATH to flat surface and adjust to desired angle with this pressure-fit clip. Adds 0.74in. height to channel.		

#### SPECIFICATION SHEET

## **SPECIFICATIONS**

- LED Chip Type: Guangmu 2835 SMD Chip
- LED Chip Beam Angle: 120°
- Luminous Efficacy<sup>4</sup> (lm/w): 71~88
- Mounting<sup>4</sup>: 3M<sup>™</sup> 55280 Adhesive
- Connections<sup>5</sup>: 3 ft. Female DC plug on end. 3 ft. hardwire lead opposing end. Leads: UL 2464 20/2 AWG
- Ambient Temp<sup>6</sup>: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temp<sup>7</sup>: -4 ~ 176°F (-20 ~ 80°C)

## SPECIFYING?

Note: The compatible products listed in this Specification Sheet are provided for <u>reference</u> <u>only</u>. For complete specifications of compatible products, click on the <u>SPEC SHEET</u> links provided.

## **COMPLIANCE & REGULATORY APPROVALS**

#### Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- UL Recognized Component Sign Accessories. Available in UL Sign Components Manual (SAM Manual). File # E469770.
- CE & EMC Compliant: Verification No. GZEM141200683705V
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

#### Environmental

• RoHS Compliant: Verification No. CANEC1610091501

#### Performance

- Can be used to comply with TITLE 24 Part 6 High efficacy LED requirements - JA8-2016-E
- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

#### SPECIFICATION SHEET

## **ADDITIONAL INFORMATION**

• BLAZE™ X LED STRIP LIGHT Installation Guide

## **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 install with a listed Class 2 DC Constant Voltage LED Driver.
- 4. Not for use in or on walls of pools, fountains, or other partially or fully submersed locations.
- Do not modify or disassemble product beyond instructions or this warranty will be void.
- 6. Actual color may vary from what is pictured above and on other print materials due to the limitations of photographic processes.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

## WARRANTY

#### **Limited Warranty**

This product has a twelve (12) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at <u>www.diodeled.com/limitedwarranty/</u> 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 an 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 purchaser 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.



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