



## Outdoor Strip Light

# LFPEX

# Luci Power FLEX EX IP65

Color management  
**MacAdam 3 step**  

- Our next FLEX standard with preferable price
- Renewed to High CRI LED package, >Ra90
  - High-energy efficacy achieving up to 92.4lm/W
  - 3 steps MacAdam ellipse LED package
  - 5 types of wattage and lumen output (18.2W, 12.1W, 9.5W, 6.5W, 4.5W per meter)
  - 3 types of LED pitch (15mm, 20mm, 30mm)



	Product Series	Series code	Wattage/m	Lumen/m	CRI	Custom order		
						Max. length	Diffser Tube	
<b>Top bend</b> 	<b>Luci Power FLEX EX IP65 LFPEX</b>	LFPEX15	18.2 W/m	1496 lm/m	Ra 93			
		LFPEX20	12.1 W/m	1016 lm/m	Ra 92			
		LFPEX30(9.5W)	9.5 W/m	695 lm/m	Ra 91	○	2m	N/A
		LFPEX30(6.5W)	6.5 W/m	516 lm/m	Ra 93			
		LFPEX30(4.5W)	4.5 W/m	371 lm/m	Ra 93			
	<b>Luci Power FLEX IP65 LFP</b>	LFP15	15.4 W/m	790 lm/m	Ra 90	○	4.5m	○
		LFP20	10.5 W/m	563 lm/m			5m	
	<b>Luci Flat FLEX IP65 LFTF</b>	LFTF10	3.9 W/m	282 lm/m	Ra 87	○	5m	○
		LFTF16	2.5 W/m	176 lm/m				
<b>Side bend</b> 	<b>Luci FLEX α IP65 LFXF</b>	LFXF10	3.9 W/m	252 lm/m	Ra 71	○	5m	○

Outdoor Strip Light

LFPEX / LFP / LFTF / LFXF

# Luci FLEX IP65 series

Do not cut the products at a job site.  
Custom order is available for size adjustment and drip-proofing.



National Art Gallery

Location: Singapore

Architect office: Studio Milou Singapore, CPG Corporation Pte Ltd

Lighting design, Photo: Lighting Planners Associates



The Prince Gallery Tokyo Kioicho 1/4

Location: JAPAN

Architect office: Nikken Sekkei Ltd

Interior design: Rockwell Group, Europe

Lighting design: Lighting Planners Associates

Construction: KAJIMA CORPORATION / TEKKEN

CORPORATION / Kumagai Gumi Co.,Ltd. Consortium

Photo: TOSHIO KANEKO



Panorama  
Location: Singapore  
Photo: Robert Such

Kanazawa Tokyu Hotel  
Location: Japan  
Owner: TOKYU HOTELS CO.,LTD.  
Architect office: ILYA Corporation  
Lighting Design: sola associates  
Construction: Tokyu Construction Co.,Ltd.  
Photo:Nacasa & Partners Inc.



# Luci FLEX IP65 series

CASE  
1

## Decorations and rendering of facades and walls of buildings

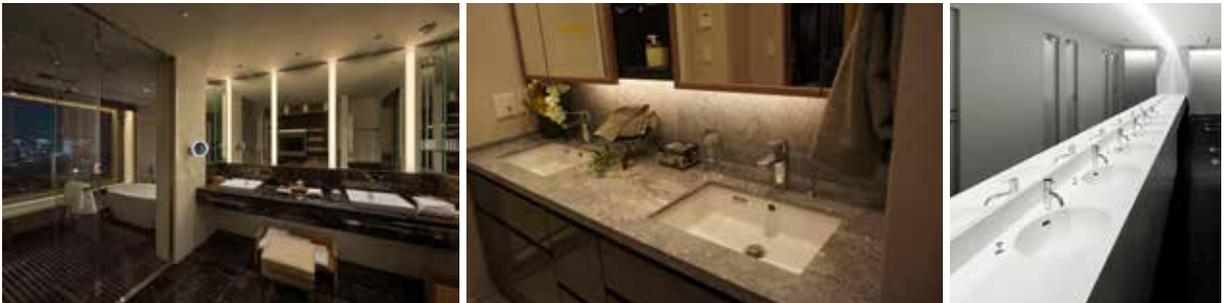
Incorporation of line lighting for facades and walls of buildings to set off a building's exterior appearance with an improved decoration effect.



CASE  
2

## Decorations and rendering around mirrors in powder rooms

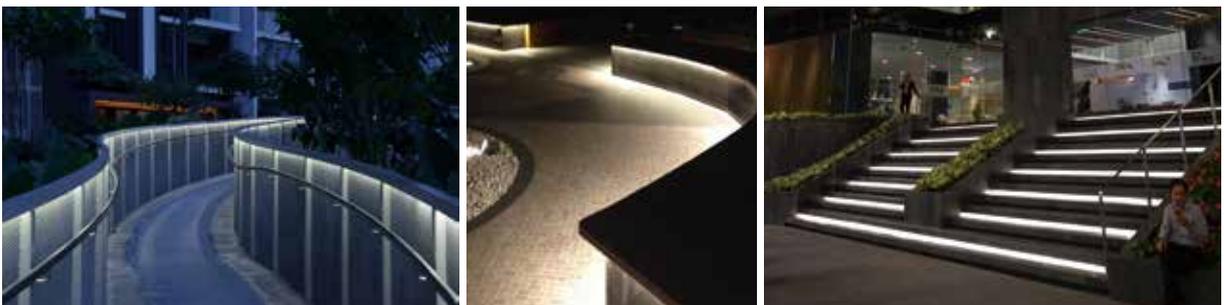
Incorporation of indirect lighting around mirrors in powder rooms helps to provide brighter light for redoing makeup. In addition to around mirrors, use of indirect lighting in various ways provides a sense of depth and highlights a rendering effect of the relaxing space.



CASE  
3

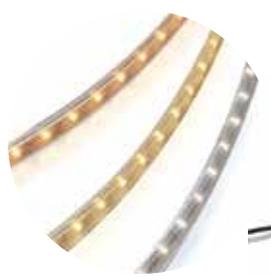
## Improved function and design by handrail lighting, foot lights for stairs, and under bench lighting

Light from an embedded light source in handrails shines from wall to floor, improves visibility and prevents falls while walking. Indirect lighting on staircase riser parts helps recognition of stair steps, and has an effect of increasing safety while walking. Indirect lighting under benches helps with recognition of benches, providing a light effect leading to improved security of the area.



The above statements are only part of the cautions for outdoor use of the product. Contact a sales representative when you consider using the product outdoors. When the product is installed under any inappropriate condition, it is not covered by warranty.

Top bend



Luci Power FLEX EX IP65 3 years warranty

- Our next FLEX standard with preferable price
- Renewed to High CRI LED package, >Ra90
- High-energy efficacy achieving up to 92.4lm/W
- 3 steps MacAdam ellipse LED package
- 5 types of wattage and lumen output (18.2W, 12.1W, 9.5W, 6.5W, 4.5W per meter)
- 3 types of LED pitch (15mm, 20mm, 30mm)
- No need to attach aluminum profile for heat sink



Luci Power FLEX IP65 3 years warranty

- Customized length available(LFP15: up to 4.5m, 30mm increment, LFP20: up to 5m 20mm increment)
- 2 types of wattage (15.4W, 10.5W per meter)
- Ideal for projects that have various length requirement

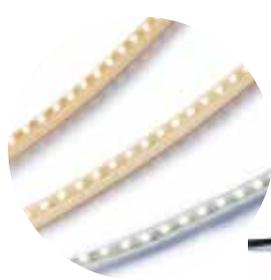


Luci Flat FLEX F IP65 3 years warranty

- Renewed to DC24V
- Narrow LED pitch suitable for limited space installation (10mm pitch, 16mm pitch)
- Small section W10mm \* H4mm
- 2 types of wattage (3.9W, 2.5W per meter)
- Customized length available up to 5m per roll



Side bend



Luci FLEX α F IP65 3 years warranty

- Low-powered LED strip with bending sideways
- Side view LED package
- Renewed to DC24V
- Small bending radius (Min. R 50mm)
- Narrow LED pitch suitable for limited space installation (10mm pitch)
- Small section W4mm \* H10mm
- Customized length available up to 5m per roll



Product Series	Series code	Wattage/m	Lumen/m	CRI	Custom order		
					Max. length	Diffser Tube	
<b>Top bend</b> Luci Power FLEX EX IP65 LFPEX P.186	LFPEX15	18.2 W/m	1496 lm/m	Ra 93			
	LFPEX20	12.1 W/m	1016 lm/m	Ra 92			
	LFPEX30(9.5W)	9.5 W/m	695 lm/m	Ra 91	○ P.189	2m	N/A
	LFPEX30(6.5W)	6.5 W/m	516 lm/m	Ra 93			
	LFPEX30(4.5W)	4.5 W/m	371 lm/m	Ra 93			
Luci Power FLEX IP65 LFP P.190	LFP15	15.4 W/m	790 lm/m	Ra 90	○ P.194	4.5m	○
	LFP20	10.5 W/m	563 lm/m			5m	
Luci Flat FLEX IP65 LFTF P.196	LFTF10	3.9 W/m	282 lm/m	Ra 87	○ P.199	5m	○
	LFTF16	2.5 W/m	176 lm/m				
<b>Side bend</b> Luci FLEX α IP65 LFXF P.200	LFXF10	3.9 W/m	252 lm/m	Ra 71	○ P.203	5m	○



Color management  
MacAdam 3 step

CE

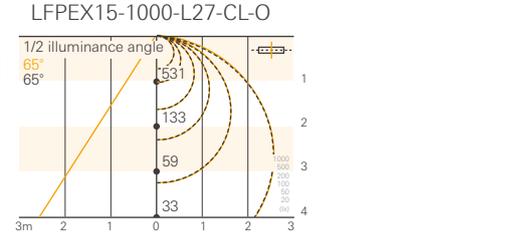
3 years warranty

Model No. **LFPEX \* - 1000 - \* - CL - O - (※W)** Light Intensity

**Product Name / LED pitch** - **Length** - **Light source color** - **Tube type** - **Environment** - **Wattage**

LFPEX15 : 15mm pitch	1000	W : White WW : Warm white 3500K L30 : Warm white 3000K L27 : Warm white 2700K L24 : Warm white 2400K L21 : Warm white 2100K L19 : Warm white 1900K	CL : Clear	O : Outdoors	only for LFPEX30 (9.5W) (6.5W) (4.5W)
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Luci Power FLEX EX IP65  
Custom order length > P.189



Specification

LED pitch	15mm pitch	20mm pitch	30mm pitch		
Model No.	LFPEX15-1000-* - CL-O	LFPEX20-1000-* - CL-O	LFPEX30-1000-* - CL-O(9.5W)	LFPEX30-1000-* - CL-O(6.5W)	LFPEX30-1000-* - CL-O(4.5W)
Power consumption	18.2W/m	12.1W/m	9.5W/m	6.5W/m	4.5W/m
Fitting length(L)	1011mm	1011mm	1011mm		
Weight	60g	60g	60g		
Cuttable unit	N/A	N/A	N/A		
Luminaire efficacy(2700K)	86.6 lm/W	88.2 lm/W	85.2 lm/W	89.6 lm/W	92 lm/W

Light source color ○ = Device inventory \* = Please contact us since it is made-to-order products and has MOQ. ※ = Equivalent

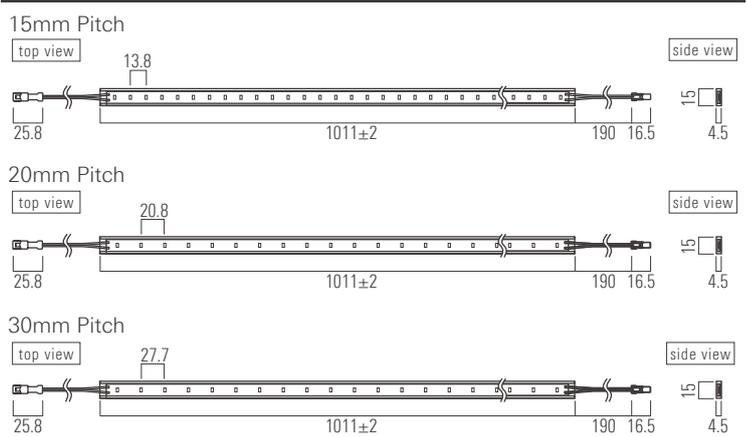
Light source color	LFPEX15-1000-* - CL-O	LFPEX20-1000-* - CL-O	LFPEX30-1000-* - CL-O(9.5W)	LFPEX30-1000-* - CL-O(6.5W)	LFPEX30-1000-* - CL-O(4.5W)
D 7100K	-	-	-	-	-
N 5000K	-	-	-	-	-
W 4000K	Ra 93 ○ 1680 lm	Ra 93 ○ 1125 lm	Ra 93 ○ 815 lm*	Ra 94 ○ 556 lm*	Ra 94 ○ 390 lm*
WW 3500K	Ra 93 ○ 1620 lm	Ra 93 ○ 1101 lm	Ra 93 ○ 789 lm*	Ra 93 ○ 564 lm*	Ra 94 ○ 393 lm*
L30 3000K	Ra 94 ○ 1493 lm	Ra 94 ○ 1008 lm	Ra 94 ○ 739 lm	Ra 94 ○ 522 lm	Ra 95 ○ 366 lm
L27 2700K	Ra 93 ○ 1496 lm	Ra 92 ○ 1016 lm	Ra 91 ○ 695 lm	Ra 93 ○ 516 lm	Ra 93 ○ 371 lm
L24 2400K	Ra 93 ○ 1260 lm	Ra 93 ○ 856 lm	Ra 93 ○ 696 lm	Ra 94 ○ 494 lm	Ra 94 ○ 348 lm
L21 2100K	- * -	- * -	- * -	- * -	- * -
L19 1900K	- * -	- * -	- * -	- * -	- * -

Specification may be subject to change without announcement. The optical data provided on the each product pages are for reference only; the data values are not guaranteed. Please use as reference materials for your planning.

General Specification

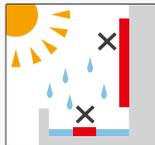
Input voltage	DC24V
LED beam angle	120°
Environment	In & Outdoors (no condensation) IP65
Max. length per circuit	15mm pitch 3.5m / 20mm pitch, 30mm pitch 5m
Min. bending range	R50mm
Material (body)	Soft acrylic
Attachments	-
Option parts	① Mounting rail ② Mounting clip ③ Outdoor cable
Certification	CE
Dimmable	○
Power Supplies	Required

External dimensions



Prohibited installation places:

- water directly fall on or pooled
- the sunlight directly shines on
- liquids including chlorine or chemicals fall on
- high temperature and high humidity such as saunas
- coastal areas which are affected by sea spray



Caution:

Do not cut the LED fixture and the lead wire of outdoor product at a job site. Please do appropriate treatment for the lead wire and connector of the terminal of outdoor LED fixture.

Max. connectable length per power supply

Length of LED fixture (70% loading factor) *: split into multiple circuits		30mm pitch			Power supply
15mm pitch	20mm pitch	9.5W	6.5W	4.5W	
~1.9m	~2.8m	~3.6m	~5.3m*	~7.7m*	50W power supply
~3.8m*	~5.7m*	~7.3m*	~10.7m*	~15.5m*	100W power supply
~5.7m*	~8.6m*	~11m*	~16.1m*	~23.3m*	150W power supply

Optional parts



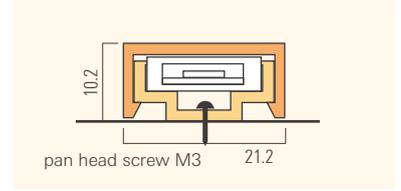
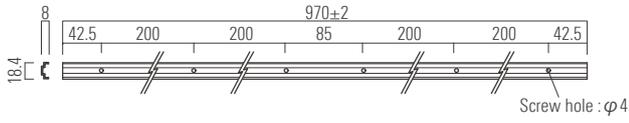
for straight

1 Mounting rail 1000 for Power FLEX Option Parts

Model No : LFP-RL1000

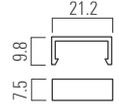
For straight installation

side view front view



Attachment

Mounting clip for rail  
5 pcs / 1 bag is included  
Model No : LFP-PT



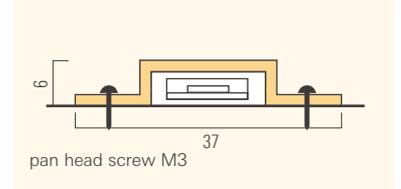
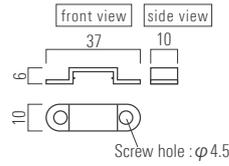
for curved

2 Mounting clip for Power FLEX Option Parts

Model No : LFP-RC

5 pcs/1 bag

For curved installation



3 Outdoor cable 3M TR connector for FLEX Option Parts

Model No : CAD-3000-MEFE-O



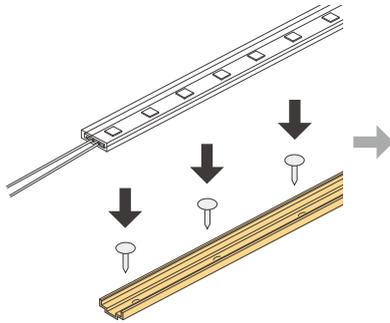
## Installing the product

### Straight installation

#### Screw fixing

The Mounting rail should be preset on the installation spot with screws supplied by installer. (Pan head screws M3 recommended.)

Install the LED fixture with mounting clips for rail to ensure the straight and flat installation.

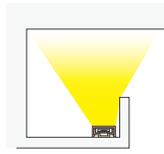


#### Bonding

Install the mounting rail with acrylic compatible adhesive where screws cannot be fastened.

Caution: Please do not use glue or double-sided tape at the back of the tube for installing Power FLEX EX.

#### Cove lighting



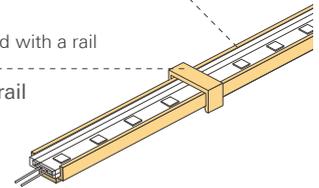
#### Option Parts

- 1 Mounting rail 1000 for Power FLEX (LFP-RL1000)

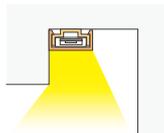
Mounting clip bundled with a rail

#### Attachments

- 1 Mounting clip for rail (LFP-PT)



#### Cornice lighting



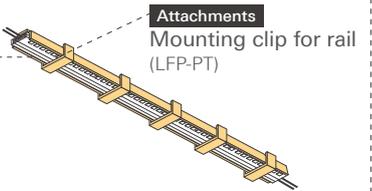
#### Option Parts

- 1 Mounting rail 1000 for Power FLEX (LFP-RL1000)

#### Attachments

- 1 Mounting clip for rail (LFP-PT)

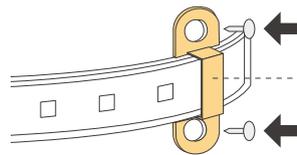
For downward installation, mounting clips for rail can prevent falling.



### Curved installation

#### Screw fixing

Place the LED fixture on the installation spot and fix the mounting clips by screw supplied by installer. (Pan head screws M3 recommended.)



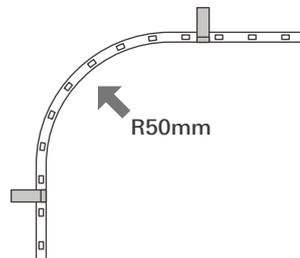
#### Option Parts

- 2 Mounting clip for Power FLEX (LFP-RC)

#### Bonding

Install the mounting clips with acrylic compatible adhesive where screws cannot be fastened.

Caution: Please do not use glue or double-sided tape at the back of the tube for installing Power FLEX EX.



### Connecting to the power supply

■ Cables used for connecting LED fixtures and Power supply must be a suitable type and gauge.

■ Cables should be joined with suitable terminal block or methods as appropriate to the installation and operating environment.

Caution: When using a long cable with thin dimension, the resistance of cable will increase. Voltage drop and heat discharging may occur and result in brightness decreasing.

Caution: When separating one cable to multiple circuits in the same gauge, the current loading focuses on the junction of the branch circuit and high temperature will liberate on there. Please consider the loading of the power supply (quantity of LED fixture) and review the wiring system to avoid the above problem.

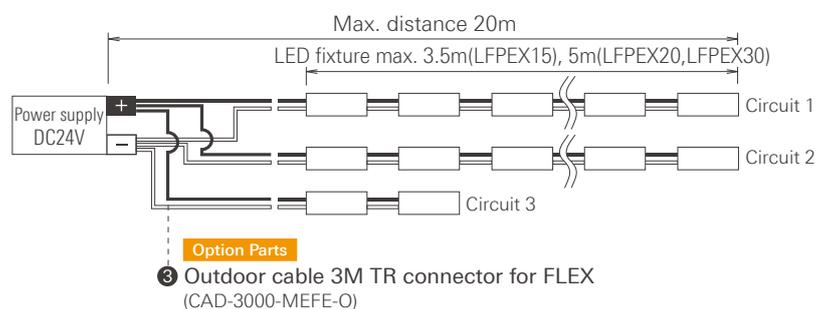
■ When connecting the dimmer driver with power supply, unpredicted noise might occur. It is a characteristic of electronic devices, not a malfunction of the LED fixture. Please choose an appropriate power supply and consider a place to install. Reducing the loading factor of LED fixture might improve the noise from the power supply while the noise for the LED fixtures might be improved by splitting the circuit of LED fixtures into multiple.

### System configuration diagram

■ Max. connectable length depends on the wattage of the power supply.

■ Max. length per circuit of Luci Power FLEX EX 15mm pitch IP65 is 3.5m.  
Max. length per circuit of Luci Power FLEX EX 20mm pitch and 30mm pitch IP65 is 5m.  
If it exceeds, please split into multiple circuits.

■ Max. distance from the power supply to the end of LED fixture is 20 m.



# Luci Power FLEX EX IP65 -Custom order-

Model No.

LFPEX LED Pitch -T Length Lead Wire - Light source color -CL-O -(※W)

LED Pitch

- 15mm Pitch → 15
- 20mm Pitch → 20
- 30mm Pitch → 30

Length

Refer to "Custom order products size"

Lead Wire

- One end lead wire → S
- Both ends lead wire → W

Light source color

- White 4000K → W
- Warm white 3500K 3500K → WW
- Warm white 3000K 3000K → L30
- Warm white 2700K 2700K → L27
- Warm white 2400K 2400K → L24
- Warm white 2100K 2100K → L21\*
- Warm white 1900K 1900K → L19\*

\* = Please contact us since it is made-to-order products and has MOQ.

Wattage only for LFPEX30

- 9.5W → (9.5W)
- 6.5W → (6.5W)
- 4.5W → (4.5W)

## Custom order products size

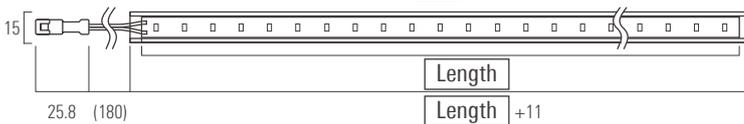
Luci Power FLEX EX IP65 15mm pitch (18.2 W/m)	
Corresponds to [Length] of Model No. and External dimensions	
0083	1082
0166	1165
0250	1248
0333	1331
0416	1414
0499	1498
0582	1581
0666	1664
0749	1747
0832	1830
0915	1914
1000	2000

Luci Power FLEX EX IP65 20mm pitch (12.1 W/m)	
Corresponds to [Length] of Model No. and External dimensions	
0125	1123
0250	1248
0374	1373
0499	1498
0624	1622
0749	1747
0874	1872
1000	2000

Luci Power FLEX EX IP65 30mm pitch (9.5 W/m, 6.5 W/m, 4.5 W/m)	
Corresponds to [Length] of Model No. and External dimensions	
0166	1163
0332	1330
0499	1496
0665	1662
0831	1828
1000	2000

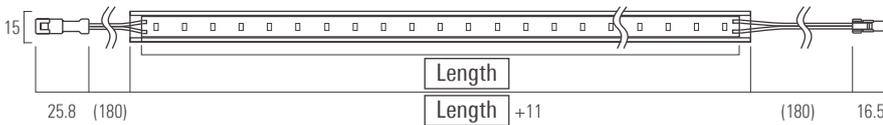
## External dimensions

Luci Power FLEX EX IP65 / one end lead wire S



- The lead wires are delivered without connectors. Contact us if indoor connectors are needed.

Luci Power FLEX EX IP65 / both ends lead wire W



Refer to

- Direct horizontal surface light intensity distribution chart > P.111-113
- Recommended dimensions and illumination distributions > P.111-112

## Luci Pte. Ltd.

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Group company

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