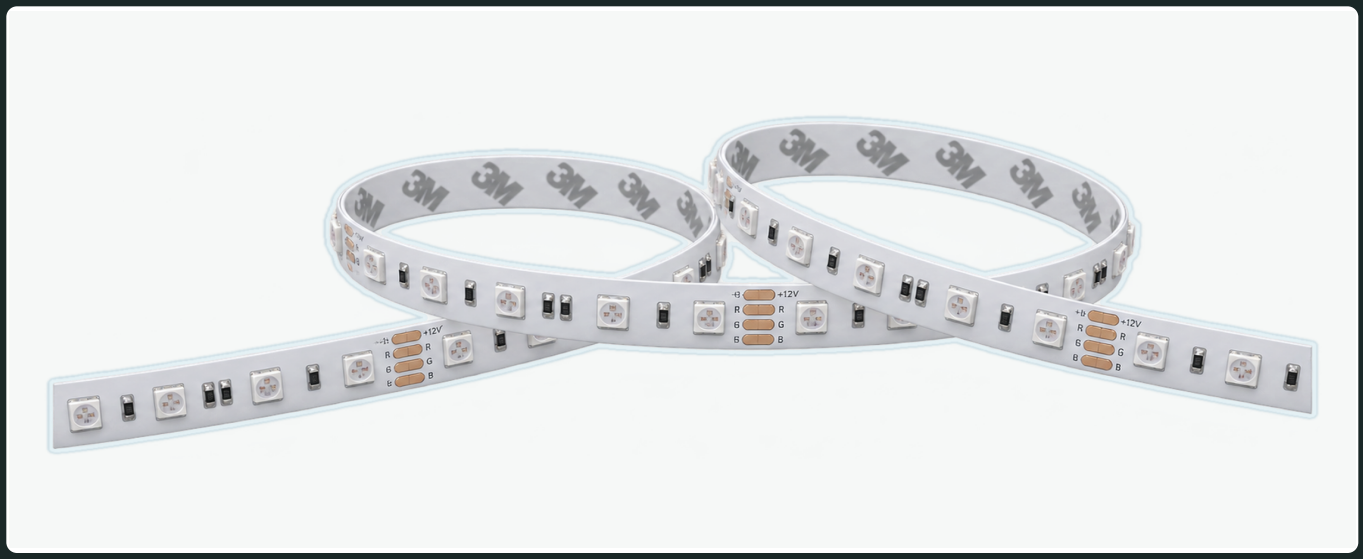
PS-861-RGB-IP67

SMD 5050 | THREE-CHANNEL RGB COLOR MIXING

PROSERIES
LED TAPE LIGHT

PROSERIES / SILICONE-ENCAPSULATED RGB LED TAPE



PS-861-RGB-IP67 | 5050 RGB LED TAPE | 60 LEDs/m **IP67**

RGB	60	14.4 W/m
RED / GREEN / BLUE	LEDS PER METER	RGB FULL OUTPUT

PRODUCT OVERVIEW

The Neotek PS-861-RGB-IP67 combines flexible 5050 LED tape with protective silicone encapsulation for properly sealed IP67 wet-location applications. Red, green and blue channels produce vivid architectural color accents and dynamic scenes. This RGB-only version has no dedicated white LED channel.

PERFORMANCE & CONFIGURATION

- ☐ 12 VDC or 24 VDC constant voltage
- ☐ Independent red, green & blue control
- ☐ Silicone-encapsulated flexible PCB
- ☐ 120-degree nominal viewing angle
- ☐ 3-channel RGB; no white emitter
- ☐ IP67, sealed wet-location assembly

PS-861-RGB-IP67

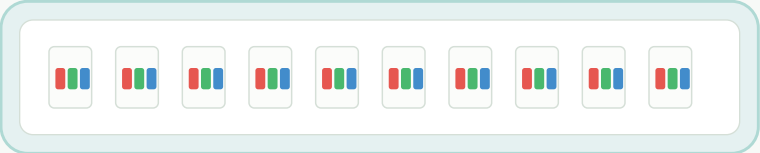
SMD 5050 | ELECTRICAL & MECHANICAL DATA

PROSERIES
LED TAPE LIGHT

ELECTRICAL & CONSTRUCTION SPECIFICATIONS

LED type	5050 RGB	**Viewing angle**	120 degrees
LED density	60 LEDs / meter	**Color rendering / CCT**	Not applicable
Control channels	Red, green, blue	**Ingress protection**	IP67 - silicone-encapsulated
Voltage selections	12 VDC / 24 VDC	**Construction**	Flexible PCB + silicone
Supply	Constant voltage	**Mounting**	Compatible rated supports
RGB full power	14.4 W/m (4.39 W/ft)	**Controls**	PWM / 0-10V / DALI / DMX
White channel	None - RGB only	**Warranty**	Verify supplied RGB variant

RGB WIRING / CONTROL CONCEPT



4-conductor RGB connection

SILICONE-ENCAPSULATED RGB (SCHEMATIC)

A compatible constant-voltage RGB controller/decoder independently operates red, green and blue. DMX requires a suitable decoder and data wiring. All cut ends, connectors and conductor transitions must be sealed with appropriately rated materials to preserve IP67.

INSTALLATION / PROJECT ENGINEERING

Provide continuous support, heat dissipation and compatible wet-location mounting. Silicone protection must remain intact after cutting or wiring; seal all end caps, splices and power entries. Confirm coated width/height, cut increment, maximum run length, supply and conductor sizing before fabrication. Not approved for continuous submersion without separate review.

Verify the IP67 RGB-only assembly rating and UL listing before project approval.

PS-861-RGB-IP67

SMD 5050 | RGB PERFORMANCE

PROSERIES
LED TAPE LIGHT

RGB OPERATION / VOLTAGE COMPARISON

The RGB-only specification uses the red, green and blue control architecture of the related PS-860-RGBW family. Published RGB values from the RGBW family are shown below as reference output ranges; verify output of the dedicated RGB-only configuration before final photometric calculations.

INPUT VOLTAGE	RGB POWER W/m	RGB POWER W/ft	CURRENT A/m @ FULL	RGB OUTPUT* lm/m REFERENCE
24 VDC	14.4	4.39	0.60	**453-471**
12 VDC	14.4	4.39	1.20	**416-428**

* RGB lumen ranges are taken from the RGB (R+G+B) channel data in the PS-860-RGBW family. They are not independent test results for PS-861-RGB. An encapsulating silicone layer can further alter delivered output and color appearance.

COLOR CAPABILITIES

RED
R channel

GREEN
G channel

BLUE
B channel

Channels may be combined through a compatible RGB controller to generate changing colors, dimming and programmed scenes. No dedicated white-emitter option is provided: any white-like appearance is RGB mixed light, not a separately specified CCT or CRI.

CONTROL, LISTING & DESIGN QUALIFICATION

120-degree nominal beam. PWM, 0-10V, DALI or DMX through compatible external RGB control equipment. The related PS-860-RGBW documentation references UL 2108 / file E354137; this does not, by itself, confirm listing of the new RGB-only silicone-encapsulated IP67 configuration. Verify prior to specifying.

PS-861-RGB-IP67

SMD 5050 | SPECIFICATION & ORDERING GUIDE

PROSERIES
LED TAPE LIGHT

ORDERING CONFIGURATION & PROJECT SELECTIONS

NEOTEK PART-NUMBER FORMAT

PS-861-RGB-IP67 - [VOLTAGE]

Example: PS-861-RGB-IP67-24 | 24 VDC RGB, IP67 coated

SELECT PRODUCT CONFIGURATION

INPUT VOLTAGE

- ☐ 24 VDC
- ☐ 12 VDC

LIGHT OUTPUT / CHANNEL SELECTION

- ☐ RGB (red / green / blue)
- ☐ No dedicated white channel

CONTROL METHOD / EXTERNAL EQUIPMENT

- ☐ PWM / RGB decoder
- ☐ 0-10V / compatible interface
- ☐ DALI / compatible interface
- ☐ DMX / RGB decoder + data wiring

PROJECT / JOB INFORMATION

PROJECT NAME _____

FIXTURE / LOCATION _____

QUANTITY / REELS _____

RUN LENGTH _____

DATE _____

POWER SUPPLY / DRIVER _____

RGB CONTROLLER / DECODER _____

IP67 for correctly sealed wet-location assemblies. Protect all exposed conductors, cuts and end terminations; verify finished size, cut spacing, assembly listing, voltage drop and warranty with Neotek.