12V RGB STRIP LIGHT WIRING INSTRUCTIONS
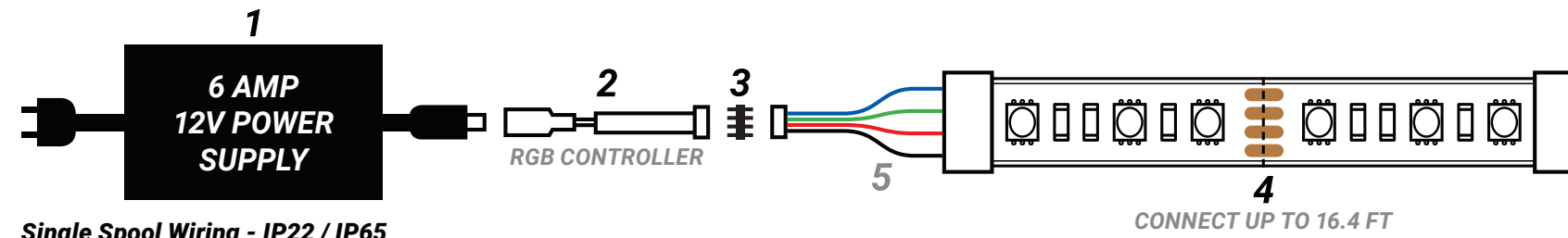
Brilliant Brand Lighting™

WARNING: When using rope lighting outdoors, waterproof PVC or silicone, plus heat shrink tubing are required to seal all connections, power cords, and end caps. NOTE the use of any non-recommended sealant e.g. electrical tape, may result in a strip light or strip light accessory failure and will void the warranty.

WARNING: LED lights produce excessive heat operating while spooled. Fully unspool all LED lights before operation. Failure to do so may result in damage to the lighting and or property.

NOTE: LED lights are polarized. If they do not light up when you first plug them in, simply unplug the power cord and reinstall connection 180° from the original configuration, or insert the power connector in the opposite end of the lights.

1 6 AMP 12V POWER SUPPLY

2 RGB CONTROLLER

3

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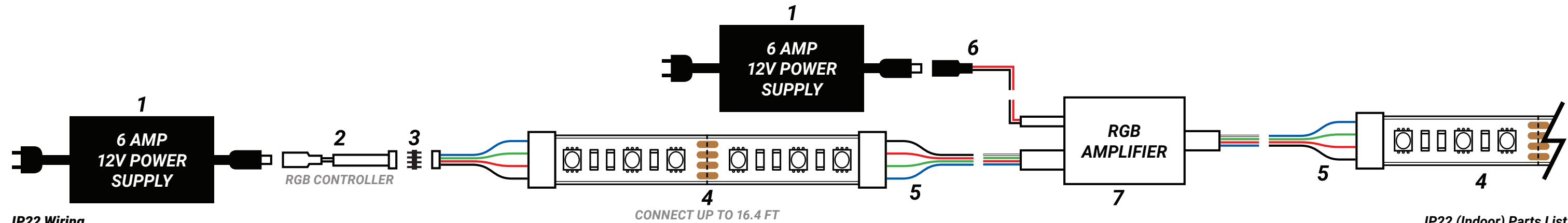**4** CONNECT UP TO 16.4 FT

Parts List

1. STRP12A-72PWR (IP22) / STRP12A-72PWRW (IP65)
2. STRP1250A-MRGBCN
3. STRP1250A-RGBCON
4. STRP5050-22RGB (IP22) / STRP5050-65RGB (IP65)
5. For previously cut RGB strip light sections
   STRP1250A-RGB-22PCON (IP22) / STRP1250A-RGB-65PCON (IP65)

Single Spool Wiring - IP22 / IP65

Connect 6A power supply power cord to STRP12A-MRGBCN controller.
Connect controller to first run of RGB strip light using STRP12A-RGBCON.

To connect previously cut sections of RGB strip lights to the STRP12A-MRGBCN controller use a RGB power connector - see parts list.
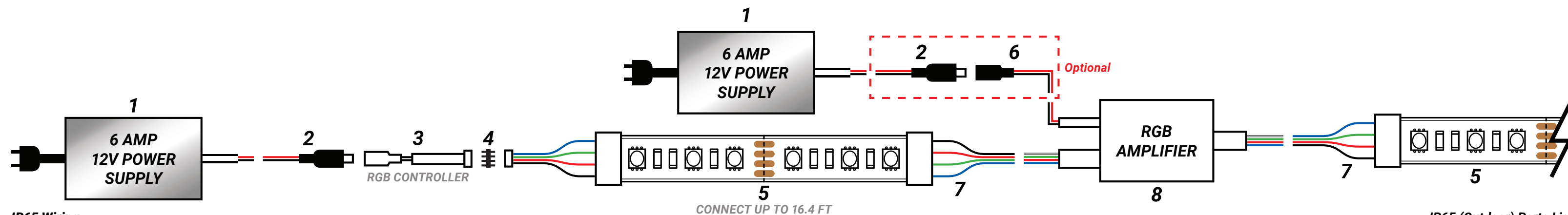
IP22 Wiring

Connect power cord to 6A power supply to controller.
Connect controller to first run of RGB strip light using STRP12A-RGBCON.
Connect RGB strip light to RGB amp using STRP1250A-22RGBCON connector.
Wire nut or solder RGB connector to the INPUT wires on the RGB amp.
Wire nut or solder STRP12A-FPCON to POWER wires on the RGB amp.
Connect second 6A power supply to the RGB amp.
Attach STRP1250A-22RGBCON to second run of RGB strip lights
Wire nut or solder RGB connector to the OUTPUT wires on the RGB amp.
Repeat as necessary for each additional spool.

1 6 AMP 12V POWER SUPPLY **6**

1 6 AMP 12V POWER SUPPLY

2 RGB CONTROLLER

3

4 CONNECT UP TO 16.4 FT

5

RGB AMPLIFIER 7

5 **4**

IP22 (Indoor) Parts List

1. STRP12A-72PWR (IP22)
2. STRP1250A-MRGBCN
3. STRP1250A-RGBCON
4. STRP5050-22RGB
5. STRP1250A-22RGBCON
6. STRP12A-FPCON
7. WP-RGPAMP-3CH-12V

1 6 AMP 12V POWER SUPPLY

2 **6** *Optional*

1 6 AMP 12V POWER SUPPLY

2 RGB CONTROLLER

3

4

5 CONNECT UP TO 16.4 FT

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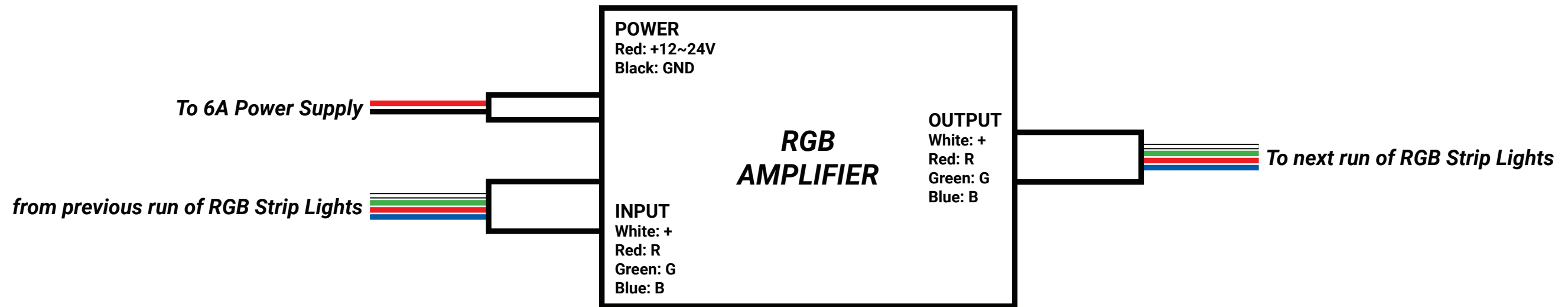
RGB AMPLIFIER 8

7 **5**

IP65 Wiring

Wire nut or solder STRP12A-FPCON to POWER wires on the 6A power supply.
Connect STRP12A-FPCON to controller.
Connect controller to first run of RGB strip light using STRP12A-RGBCON.
Connect RGB strip light to RGB amp using STRP1250A-65RGBVCON connector.
Wire nut or solder RGB connector to the INPUT wires on the RGB amp.
Wire nut or solder 6A power supply to POWER wires on the RGB amp.
(Optional - for easy quick connect, wire nut or solder STRP12A-FPCON to the POWER wires on the RGB amp.)
Then wire nut or solder STRP12A-MPCON to POWER wires on the 6A power supply. Connect second 6A power supply to the RGB amp.)
Attach STRP1250A-65RGBVCON to second run of RGB strip lights
Wire nut or solder RGB connector to the OUTPUT wires on the RGB amp.
Repeat as necessary for each additional spool.

IP65 (Outdoor) Parts List

1. STRP12A-72PWRW (IP65)
2. STRP12A-MPCON
3. STRP1250A-MRGBCN
4. STRP1250A-RGBCON
5. STRP5050-65RGB
6. STRP12A-FPCON
7. STRP1250A-65RGBVCON
8. WP-RGPAMP-3CH-12V

POWER
Red: +12~24V
Black: GND

To 6A Power Supply

RGB AMPLIFIER

OUTPUT
White: +
Red: R
Green: G
Blue: B

To next run of RGB Strip Lights

from previous run of RGB Strip Lights

INPUT
White: +
Red: R
Green: G
Blue: B

RGB Strip Pre-Installed 4-pin power connector wiring:

Red Wire -> Red Channel
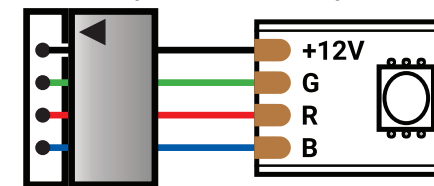
Green Wire -> Green Channel

Blue Wire -> Blue Channel

Black Wire -> Power
(Arrow stamped on connector end indicates the black wire.
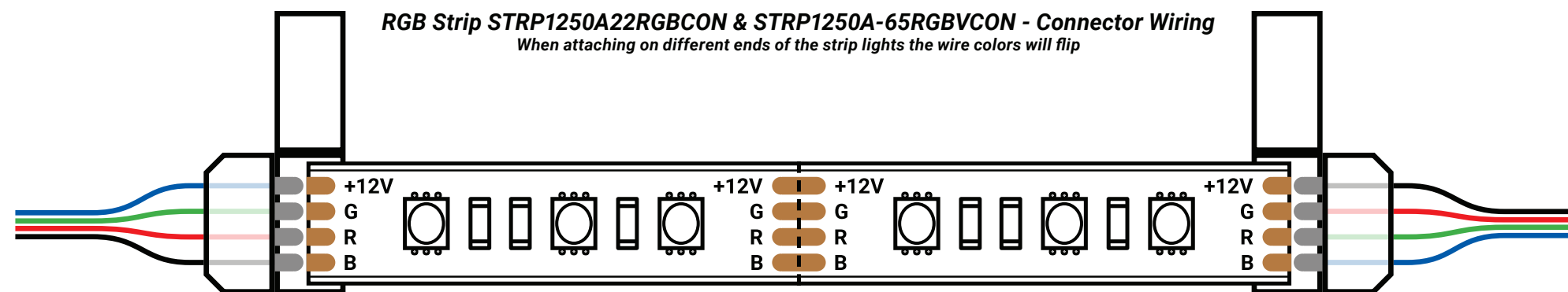*Ensure arrows line up when connecting controller to 4-pin connectors.)*

RGB Strip Pre-Installed Connector Wiring
Arrow on 4-pin connector corresponds with the power wire

+12V
G
R
B

STRP1250A22RGBCON & STRP1250A-65RGBVCON - Connector Wiring:
Depending on the orientation of the connector, the wire colors may be mismatched
- always ensure that you match the correct strip light input/output to the
corresponding RGB amp input/output - do not connect by only matching wire colors.

RGB Strip STRP1250A22RGBCON & STRP1250A-65RGBVCON - Connector Wiring
When attaching on different ends of the strip lights the wire colors will flip

+12V **+12V** **+12V** **+12V**
G **G** **G** **G**
R **R** **R** **R**
B **B** **B** **B**

STRP1250A22RGBCON & STRP1250A-65RGBVCON - Connector Wiring:
Depending on the orientation of the connector, the wire colors may be mismatched
- always ensure that you match the correct strip light input/output to the
corresponding RGB amp input/output - do not connect by only matching wire colors.