LEDPRO

THE NETHERLANDS | FRANCE | HONG KONG | CHINA

Neon-Flex Series-2 RGB SMD 5050 24V
Dome & Flat

INDEX

CE RoHS

Features

※ SMD LEDs: SMD5050tri-chip

※ LED Qty: 60LEDs/m

※ Voltage: DC24V

※ 27mm(H)*15.5mm(W) Dome)
   20mm(H)*11.5mm(W) Flat

※ IK Class: IK08

※ Waterproof Grade: IP68

※ The minmum bending diameter is 8cm

※ Min. Cutting Unit: 10LEDs

※ Min. Cutting Length: 16.67cm

※ Connection Length: 10M power at one end.
                    20M power at both ends

※ Material: PVC-Ivory White

※ RGB SMD Flexible Neon Strip lights can work with RGB Controllerto achieve more effects.
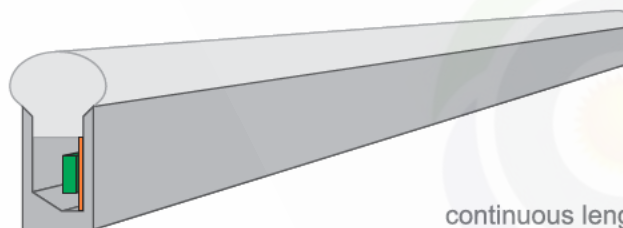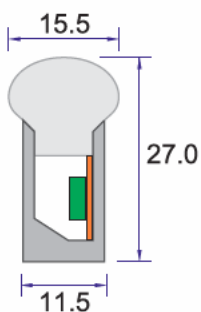
Application

The products are widely used in the illumination and decorative lighting for piazza, restaurants, private villas,garden, conference room, exhibition hall, beautify the area environment, stage bar, shopping mall, parking sculpture, the tourist attractions.

27*15.5mm Neon Strip Parameters

Model No.	LED Type	LED Q'ty /meter (pcs)	Input voltage (V)	Power/ meter (W)	Color	Length / cuttable Unit (Nm/K)	Beam Angle (degree)	SMD LEDs /Unit (pcs)	IP Rating	Cutting Length (cm)	Weight (Kg/m)
NFS2-RGB-D-24V	5050 SMD	60	24Vᴅᴄ	12	RGB	● 620~630 ■ 510~525 ■ 455~470	270°	10pcs 5050SMD	IP68	16.67	0.53

Dimensions of NFS2-RGB-D-24V

15.5
27.0
11.5

continuous length: 20M. power on both ends

20*11.5mm Neon Strip Parameters

| Model No.	LED Type	LED Q'ty /meter (pcs)	Input voltage (V)	Power / meter (W)	Color	Length / cuttable Unit (Nm/K)		Beam Angle (degree)	SMD LEDs /Unit (pcs)	IP Rating	Cutting Length (cm)	Weight (Kg/m)
NFS2-RGB-F-24V	5050 SMD	60	24V_{DC}	12	RGB	■ 620~630		120°	10pcs 5050SMD	IP68	16.67	0.38
						■ 510~525						
						■ 455~470						

Dimensions of NFS2-RGB-F-24V

11.5
20.0
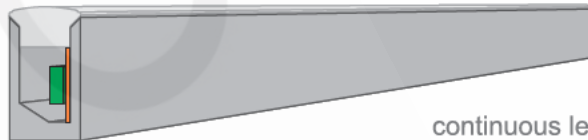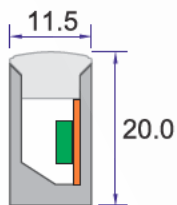
continuous length: 20M. power on both ends
A

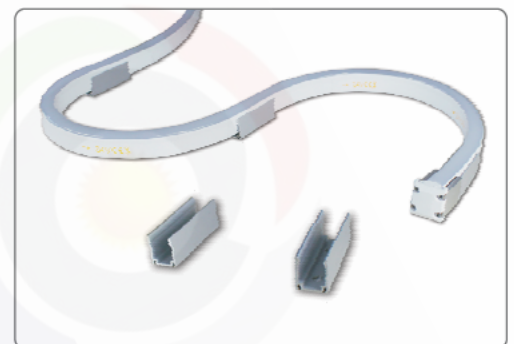### Aluminium Channel Drawing

21.6
13.6
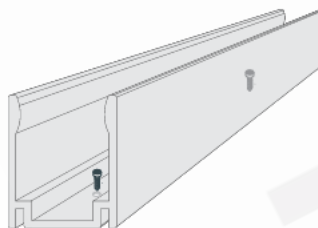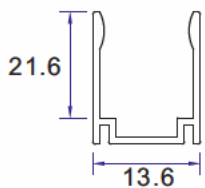
Every meter of aluminum channel has 2 screw holes. The installation usually requires installing aluminum channel as the first step, and then insert the LED neon product to the channel.
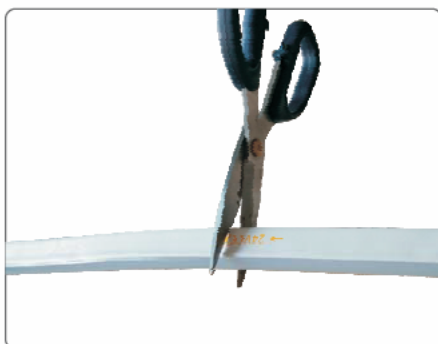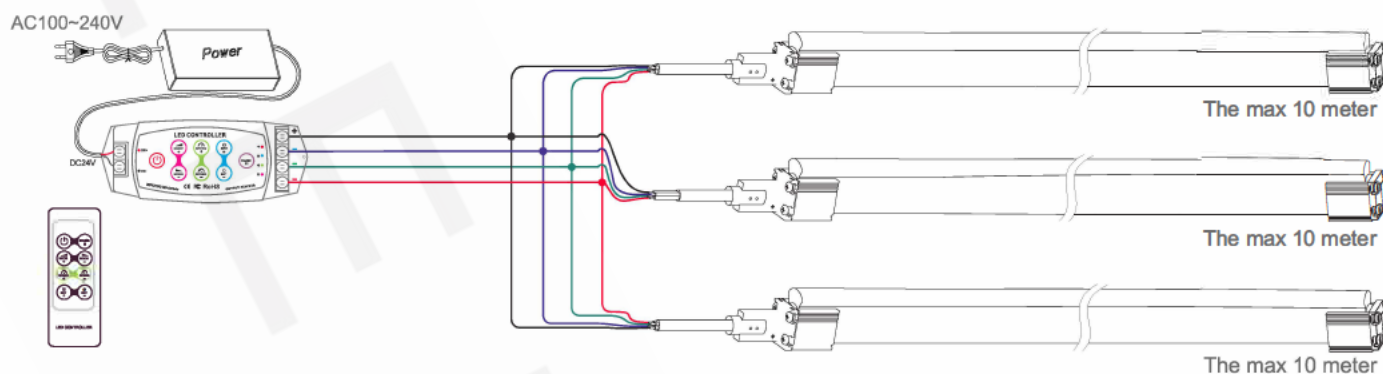
Cutting Mark

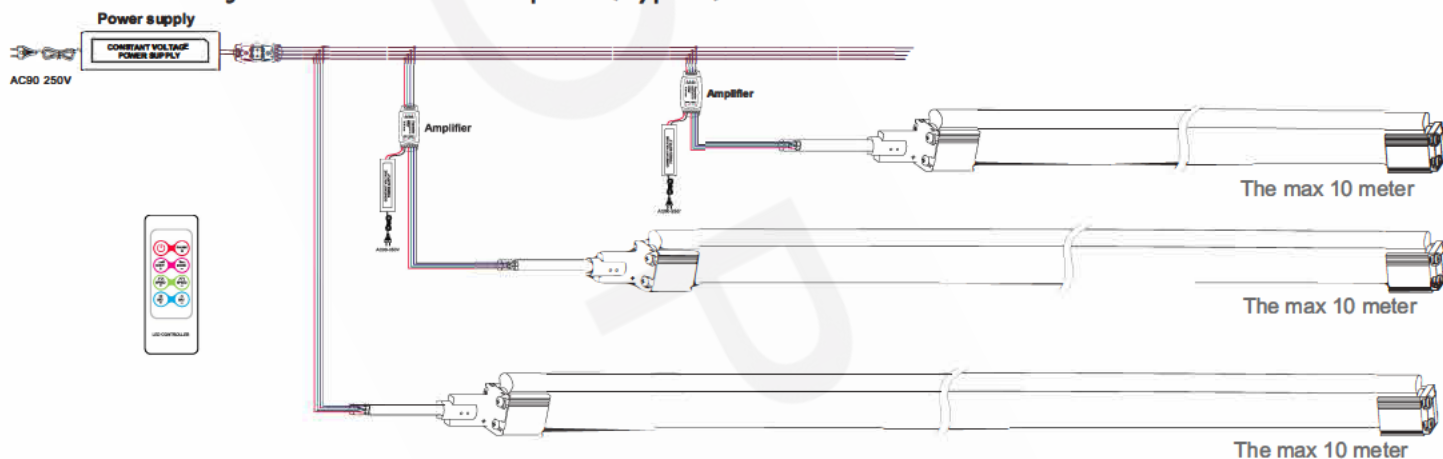Linear Installation

Curve Installation
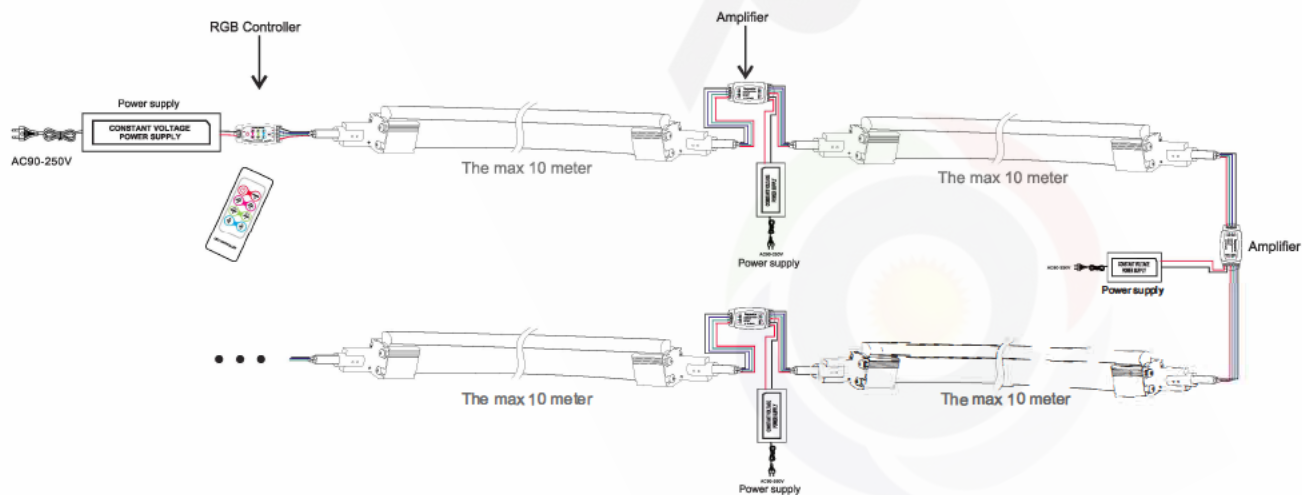
Parameters with Connect Drawing

RGB

Connect Drawing for dimmable

AC100~240V

Power

DC24V

LED CONTROLLER

CE FC RoHS

The max 10 meter

The max 10 meter

The max 10 meter

Connect Drawing for RGB Controller + Amplifier (Type-A)

Power supply

CONSTANT VOLTAGE POWER SUPPLY

AC90 250V

Amplifier

Amplifier

The max 10 meter

The max 10 meter

The max 10 meter

LED CONTROLLER

Connect Drawing for RGB Controller + Amplifier (Type-B)

RGB Controller

Amplifier

Power supply

CONSTANT VOLTAGE POWER SUPPLY

AC90-250V

The max 10 meter

The max 10 meter

Power supply

Amplifier

Power supply

· · ·

The max 10 meter
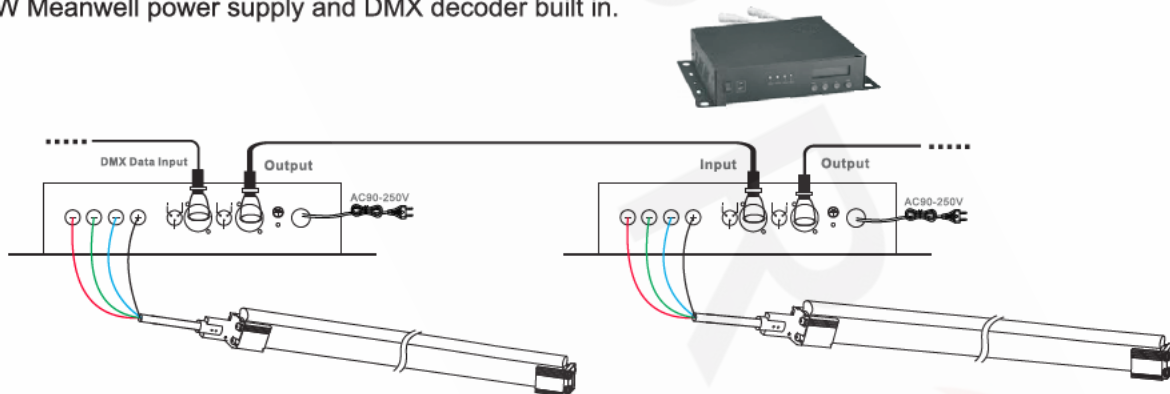
The max 10 meter

Power supply

Connection with DMX

Connection with DMX decoder and DMX Controller

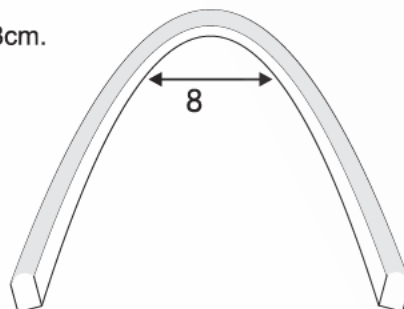Single Length of RGB LED neon is not suggested to be more than 10 meters because of voltage drop.

DMX512 CONSOLE

PC CONSOLE

USB-DMX Converter

DMX data input

Output | Input | Output | Input | Output

AC90-250V | DMX Data Input | Occupy Add.1.2.3. | AC90-250V | AC90-250V

CONSTANT VOLTAGE POWER SUPPLY

DC24V
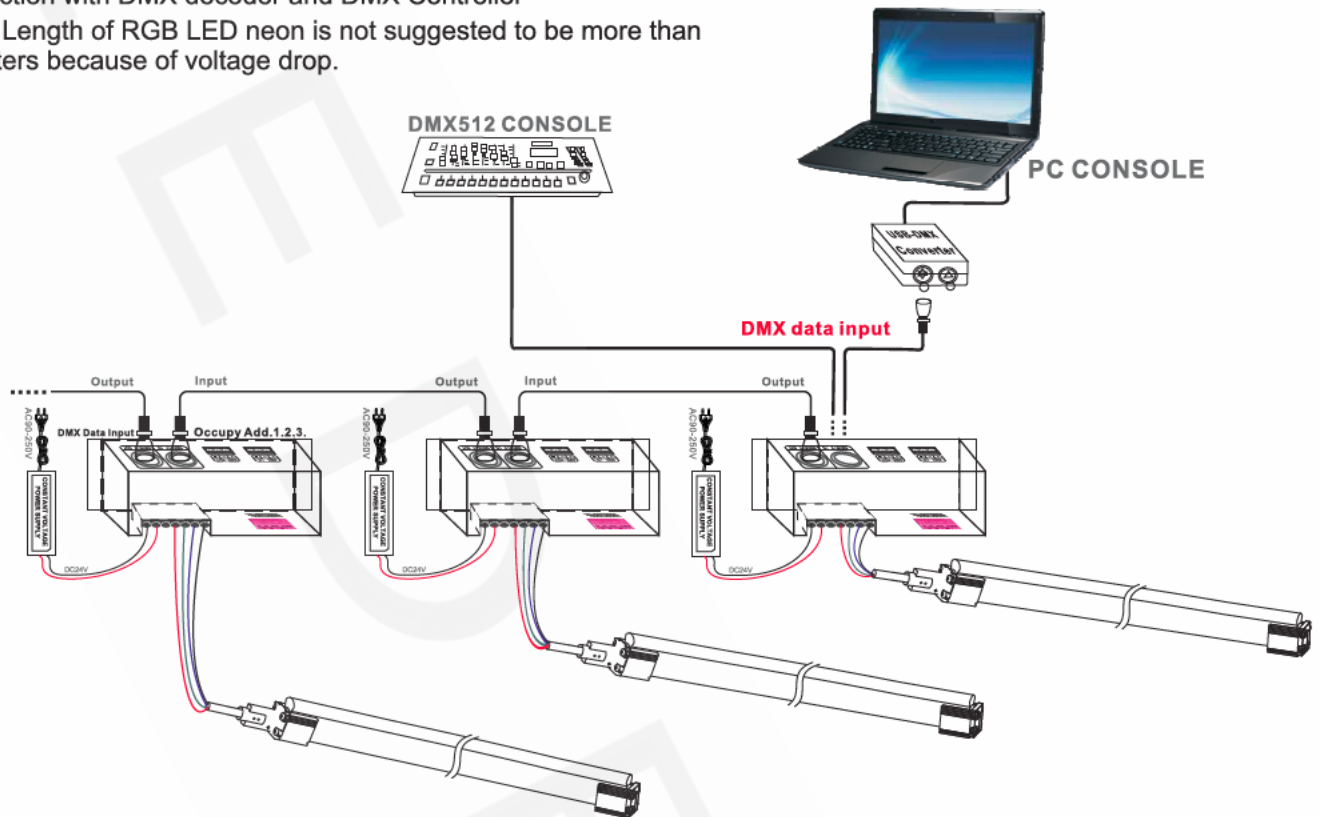
Connection with CTR-RGB-24V, this controller has 350W Meanwell power supply and DMX decoder built in.

DMX Data Input | Output | AC90-250V | Input | Output | AC90-250V
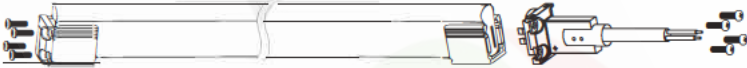
Bending Direction

The minimum bending diameter is 8cm.

8

Accessories (Assembling of DIY accessory)

Screw | The tail plug | Rubber Gasket | Aluminum Mounting Piece | Anti skidding Clip | Light Surface | Light | Aluminum Mounting Piece | Anti-skidding Clip | Rubber Gasket | Screw

Front connector
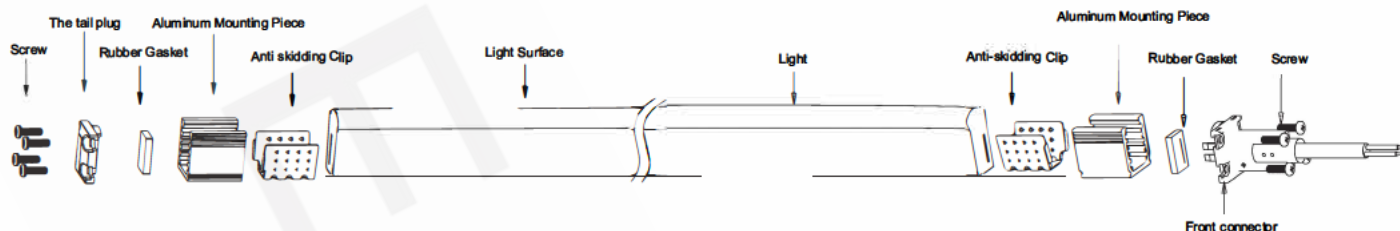
Step-1	
Step-2	
Step-3	
Step-4	
Step-5	
Step-6	

NOTE:
Please read these instructions carefully before installation
leave a copy for the end user / maintenance engineer for future reference

Precautions

Detailed Installation Instruction

- Do not over extend the min. & max. bend radius.
- Although products do not generate a great amount of heat, it is recommended that you do not cover or conceal it.
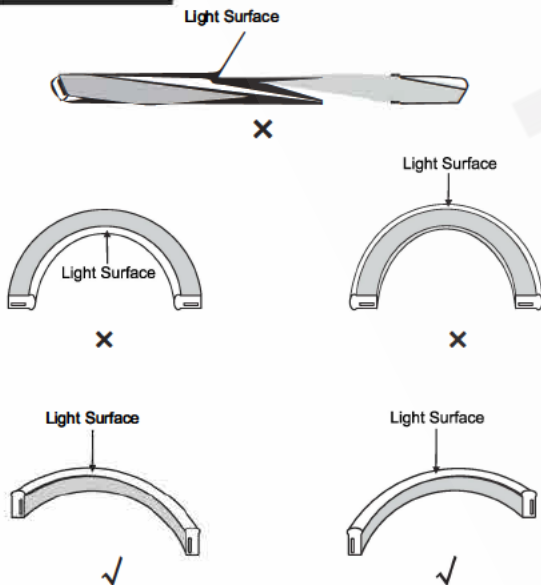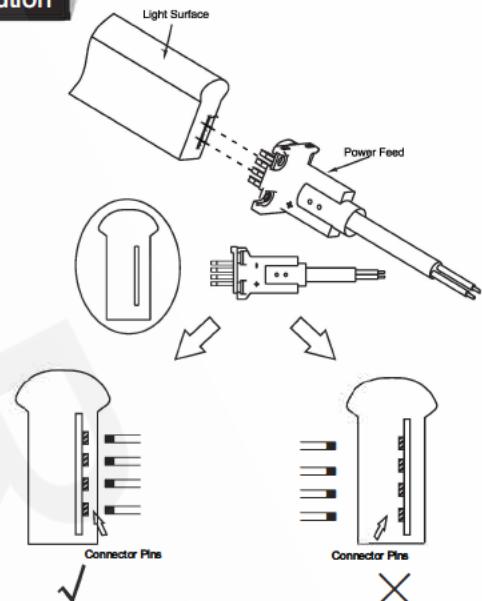- Do not puncture, cut, shorten or splice LED neon outside of the designated cutting marks.
- Do not route LED flex neon through walls, doors, windows, or building structures.
- Do not roll out LED flex neon on rough surfaces and over sharp corners. This will scratch the PVC optic.
- Do not use the product if outer PVC jacket is damaged, loose connections, or if the wire is visible without insulation.
- Do not secure the product with staples, nails, or like means that might damage the insulation or PVC material.
- Do not installed LED flex neon on/in places where it is subject to continuous flexing.
- Do not operate/run LED flex neon in temperatures exceeding 45C or 115F.
- Do not operate LED flex neon over the specified voltage or LED life degradation will be greatly increased.
- Do not leave any part of the LED flex neon unsecured. Movement over time from weather can cause damage from continuous movement.
- All led neon ip68 rated connectors must be assembled properly to obtain rating.
- Do not reverse polarity when connecting from both ends. This will damage the internal PCB board. Always test connections with your multi-meter.
- Do not energize LED flex neon in the reel package.
- LED flex neon can be cut only where marked. Look for "Dotted Line" or "Scissor Mark".
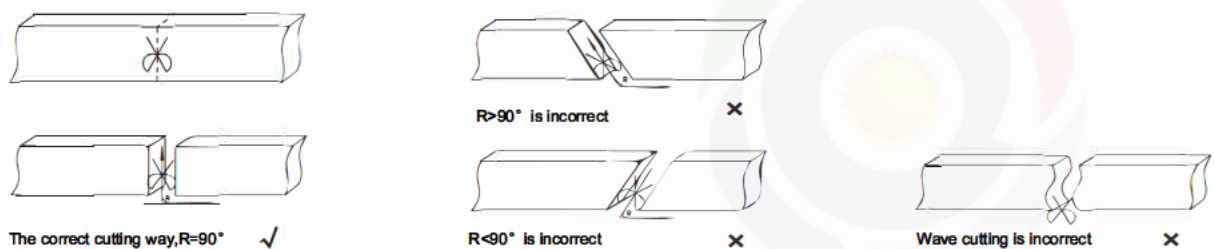Cutting outside of the specified mark will damage the light.

Accessory Assembling

A-1. Caution

Light Surface

×

Light Surface

Light Surface

× ×

Light Surface

Light Surface

√ √

A-2. Caution

Light Surface

Power Feed

Connector Pins

Connector Pins

√ ×

A-3. Caution

The correct cutting way,R=90° √

R>90° is incorrect ×

R<90° is incorrect ×

Wave cutting is incorrect ×

Packing Specification

Model No.	Length/reel (meter)	Inner box G.W/reel (Kg)	Carton Size(mm)
NFS2-RGB-D-24V	20	10.5	L33*W33*H18
NFS2-RGB-F-24V	40(2 x 20meter)	15.0	L33*W33*H18

Sept-1　　Sept-2　　Sept-3　　Sept-4