

# Waves

Waves is a simple and very adaptable design. It is based on the flat border frame system that is designed for longer displays across the back or front of gardens or down paths and driveways. It consists of 2 sections, a low wave and a high wave which can be repeated as many times as you like. A ¾ kit will make 4 sections and a full kit up to 6 sections. That is an 8.7 mtrs display (28ft) If you have multiple kits this design can keep on going.

It is 1.75mtrs high and the 5 section display you see in the images takes about 2 hours to build with lights.


















Lighting requirement (similar to image above)  
 The example in the images uses 3 sets of string lights.  
 (Warm White ) 2 x sets 57 mtrs total. (1920 Leds) \*  
 Lining out 1 set 35 mtrs (1000 Leds) \*\*  
 Peg down and guy lines to suit your circumstances.  
 Break down time approximately 1 hour.  
 An alternative would be to add additional lights underneath the waves as seen in the image to the right.



*Festive Frames* OH WOW!
















\* String Lights are based on 28.77 mtr lit length 960 LED sets.  
 \*\* Ribbon Type Lights 35mtr (1000 Led) with 3.5cm spacings.

## Components 515 Piece

RIGID POLES		QTY
 70cm		<b>70</b>
 58cm		-
 52.5cm		-
 34cm		<b>70</b>
 17.5cm		-
 10cm		-
FLEXIBLE POLES		
 110cm		<b>21</b>
 55cm		<b>10</b>
CONNECTORS		
 6 Way		-
 5 Way		<b>74</b>
 Parallel		<b>13</b>
 3 Way		-
 Straight		<b>7</b>
 Clamp		-
 Clips		<b>250</b>

Quantities relate to a 5 section build that can be made with a full kit.

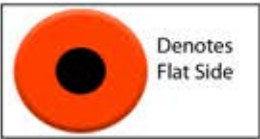
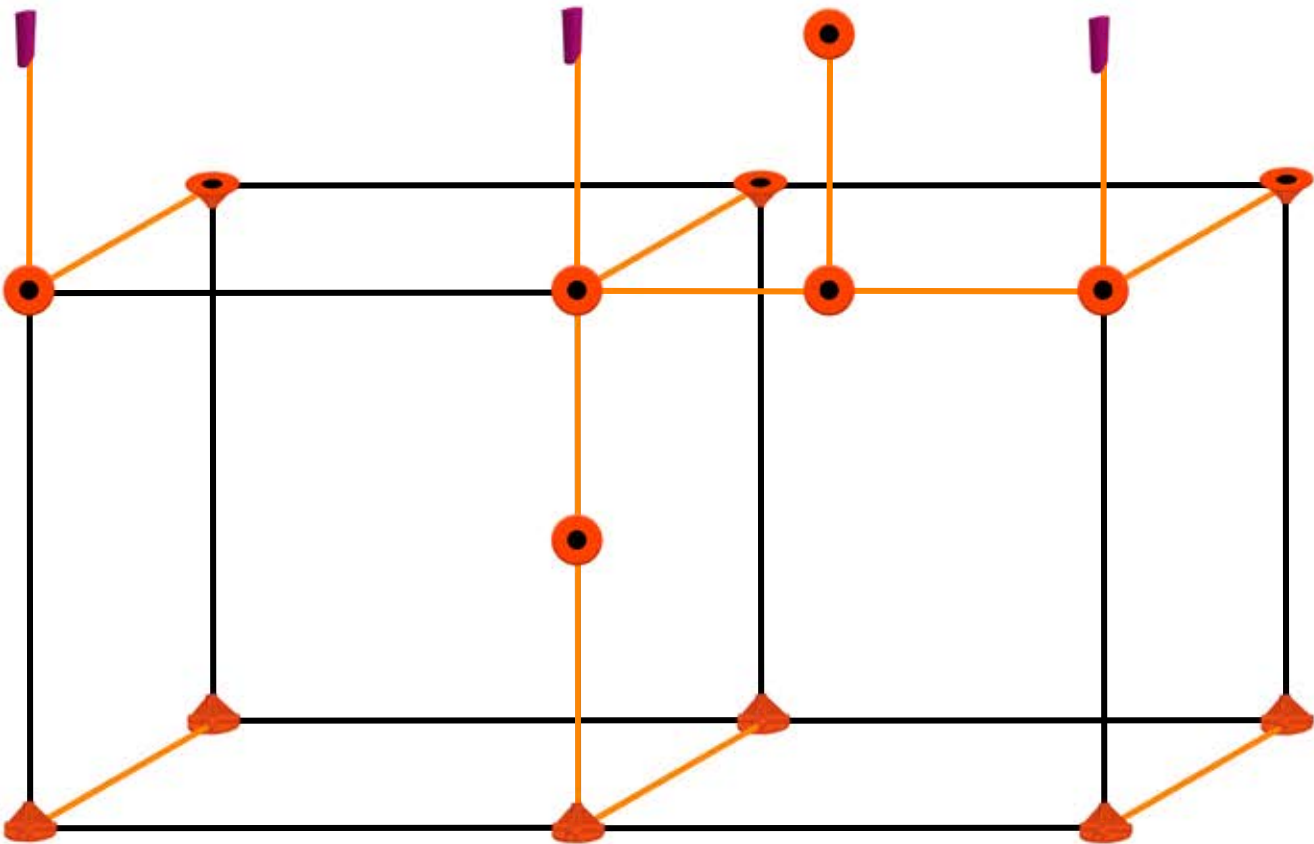
Components **Step 1**

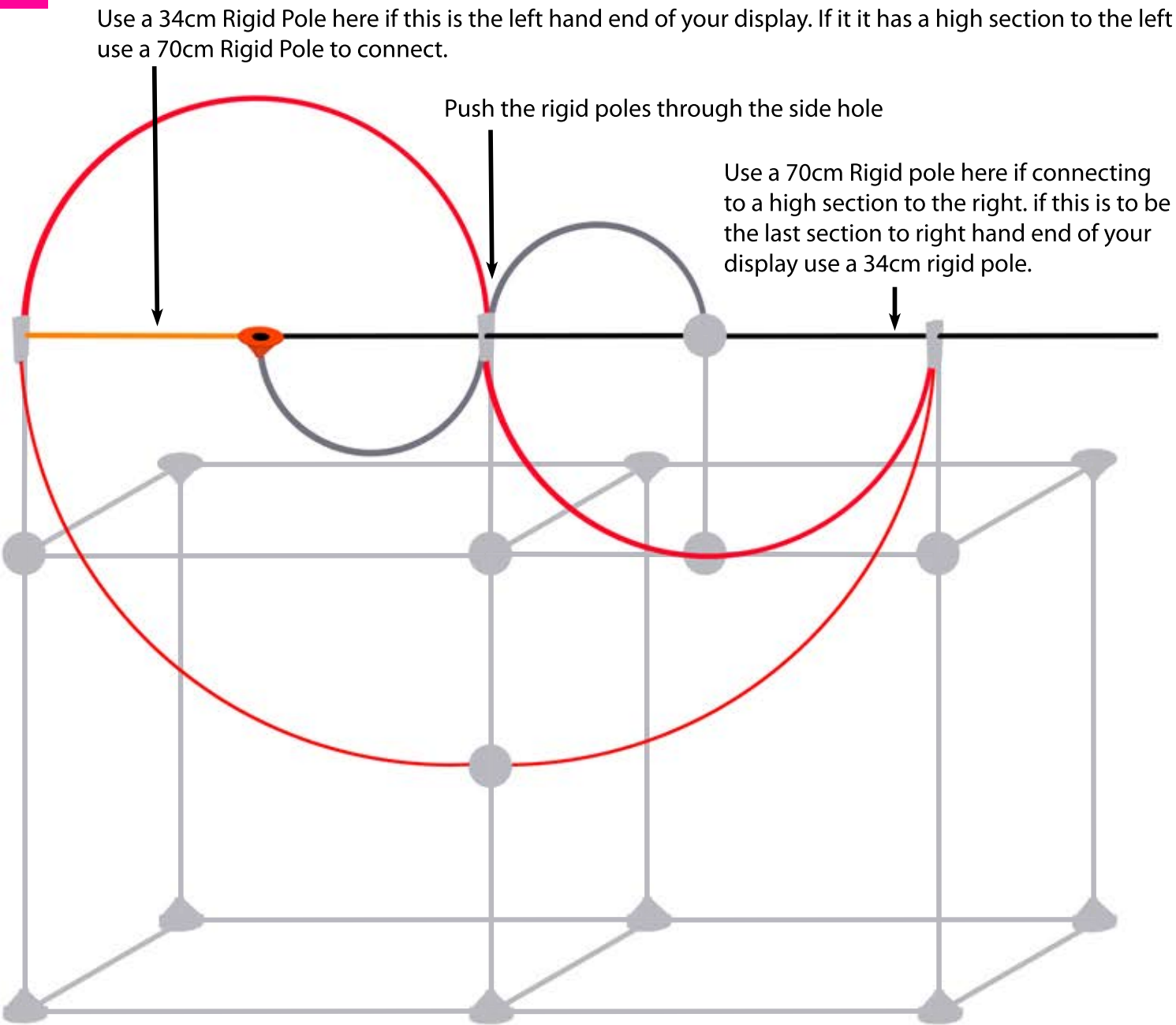
RIGID POLES		QTY
 70cm		<b>12</b>
 58cm		-
 52.5cm		-
 34cm		<b>14</b>
 17.5cm		-
 10cm		-
FLEXIBLE POLES		
 110cm		-
 55cm		-
CONNECTORS		
 6 Way		-
 5 Way		<b>15</b>
 Parallel		<b>3</b>
 3 Way		-
 Straight		-
 Clamp		-
 Clips		-
















**Low Wave Section**

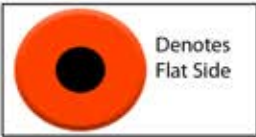
Ensure open holes in the 5 way connectors are in the horizontal plane .

Fit the Parallel connectors with the 3 holes pointing downwards and using the rear hole.












Components		Step 2
RIGID POLES		QTY
 70cm		2
 58cm		-
 52.5cm		-
 34cm		1
 17.5cm		-
 10cm		-
FLEXIBLE POLES		
 110cm		4
 55cm		2
CONNECTORS		
 6 Way		-
 5 Way		1
 Parallel		-
 3 Way		-
 Straight		-
 Clamp		-
 Clips		-



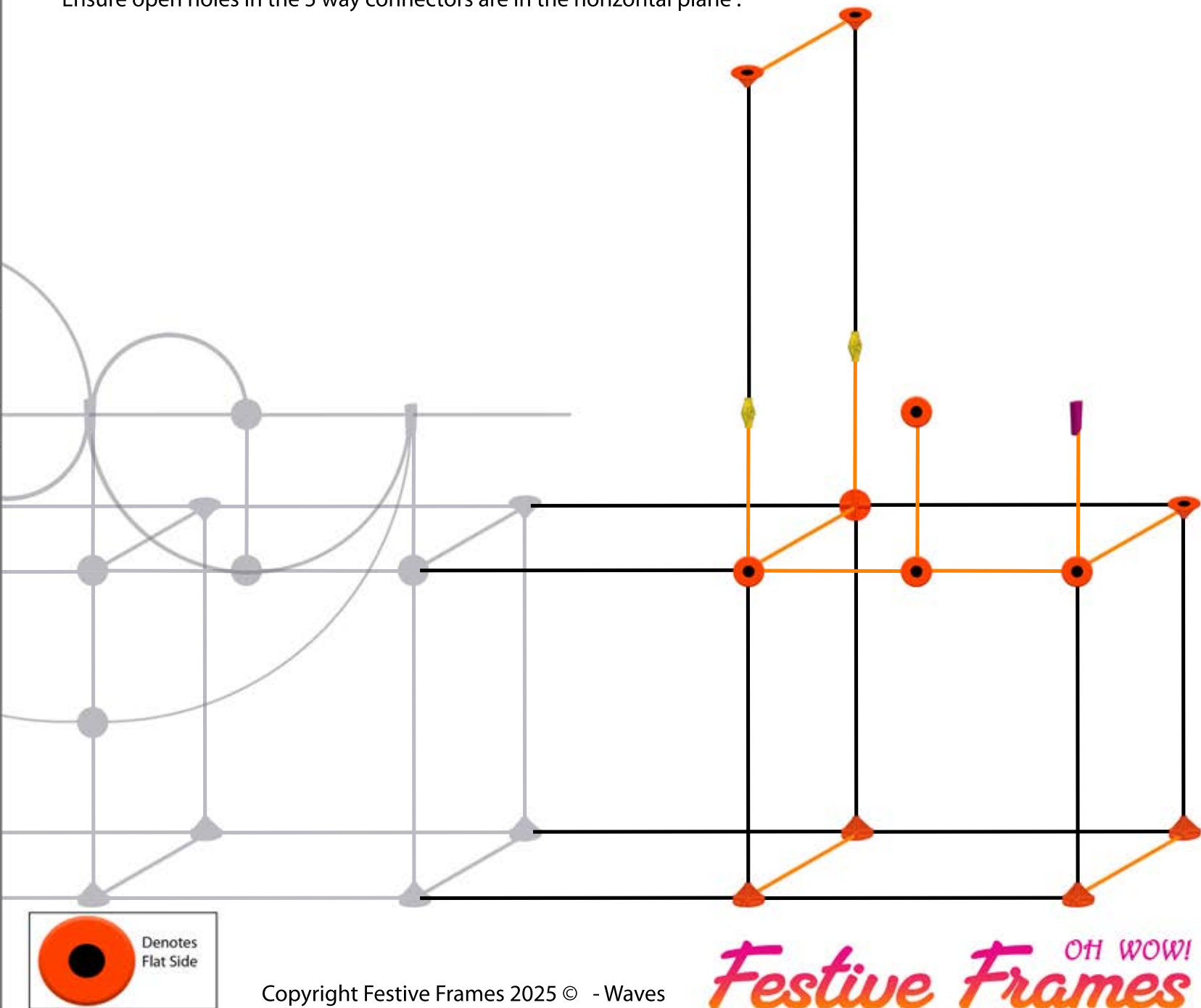


Components Step 3

RIGID POLES		QTY
70cm		13
58cm		-
52.5cm		-
34cm		11
17.5cm		-
10cm		-
FLEXIBLE POLES		
110cm		-
55cm		-
CONNECTORS		
 6 Way		-
 5 Way		12
 Parallel		1
 3 Way		-
 Straight		2
 Clamp		-
 Clips		-

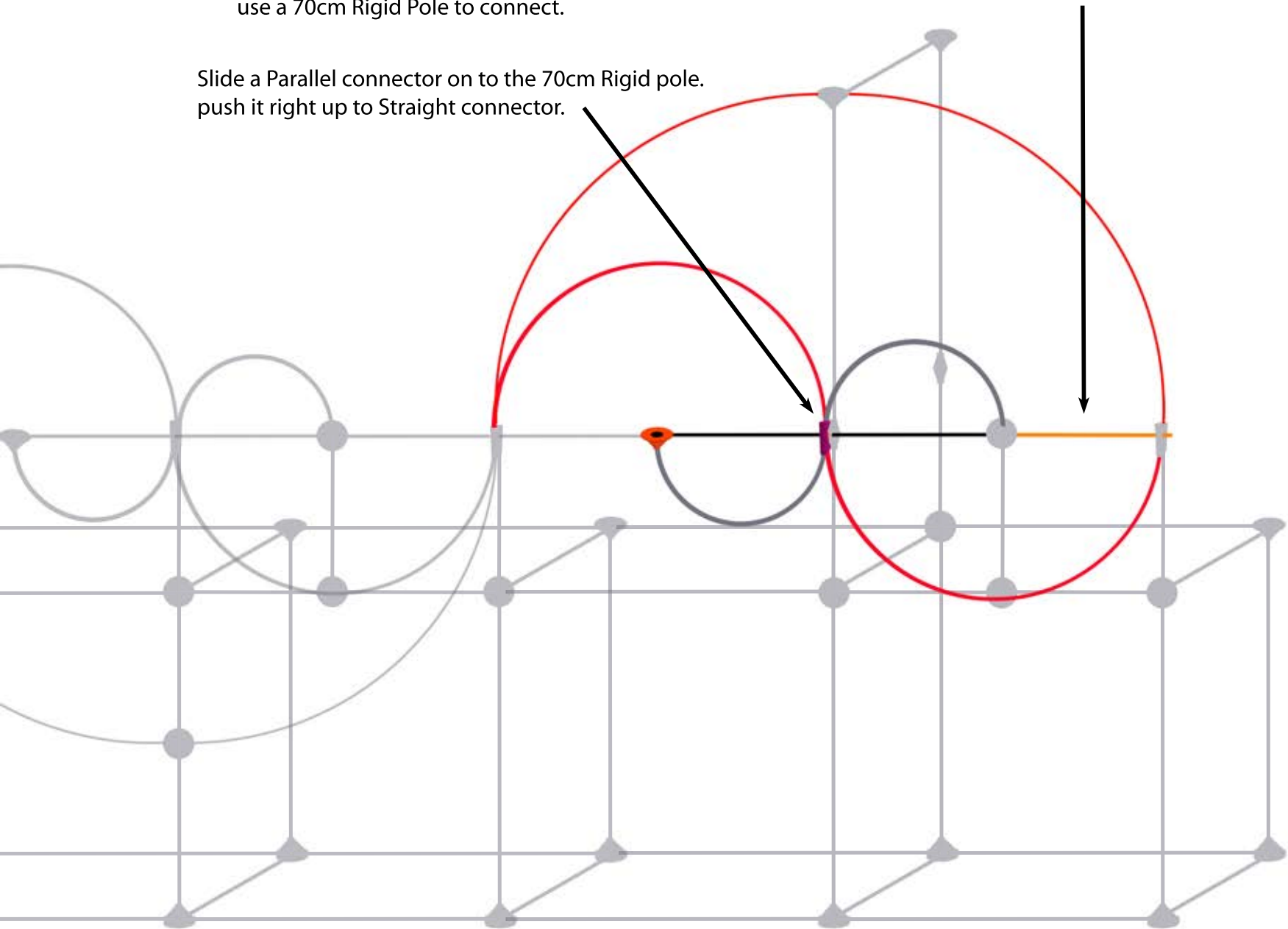
High Wave Section

Fit the Parallel connector with the 3 holes pointing downwards and using the rear hole.  
Ensure open holes in the 5 way connectors are in the horizontal plane .


















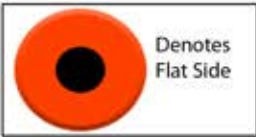
Use a 34cm Rigid Pole here if this is the right hand end of your display. If it it has a low section to the right use a 70cm Rigid Pole to connect.

Slide a Parallel connector on to the 70cm Rigid pole.  
push it right up to Straight connector.


















Components **Step 4**

RIGID POLES		QTY
 70cm		<b>1</b>
 58cm		-
 52.5cm		-
 34cm		<b>1</b>
 17.5cm		-
 10cm		-
FLEXIBLE POLES		
 110cm		<b>4</b>
 55cm		<b>2</b>
CONNECTORS		
 6 Way		-
 5 Way		<b>1</b>
 Parallel		<b>1</b>
 3 Way		-
 Straight		-
 Clamp		-
 Clips		-

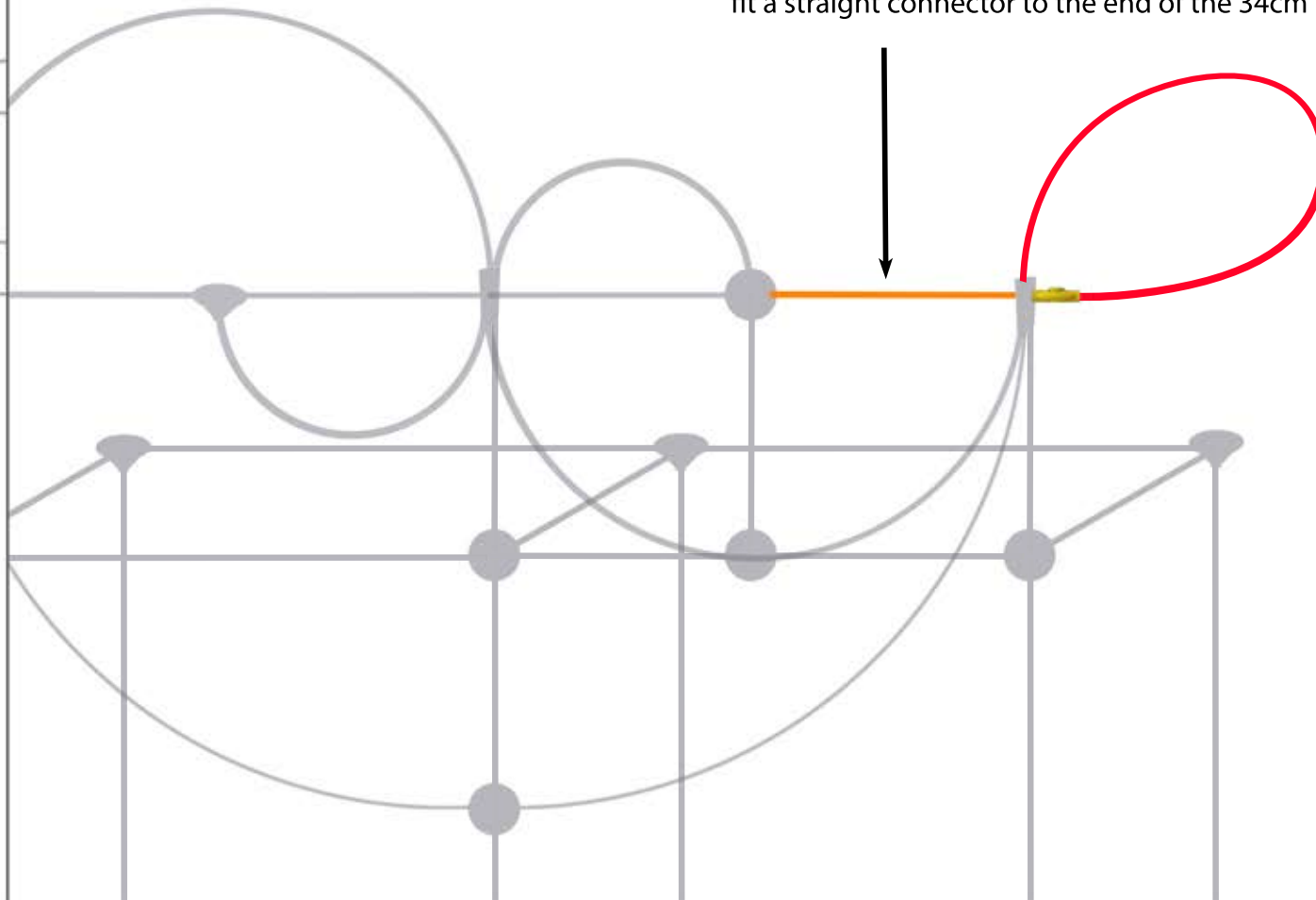


Components **Step 5**

RIGID POLES		QTY
 70cm	-	-
 58cm	-	-
 52.5cm	-	-
 34cm	<b>1</b>	-
 17.5cm	-	-
 10cm	-	-
FLEXIBLE POLES		
 110cm	<b>1</b>	-
 55cm	-	-
CONNECTORS		
 6 Way	-	-
 5 Way	-	-
 Parallel	-	-
 3 Way	-	-
 Straight	<b>1</b>	-
 Clamp	-	-
 Clips	-	-

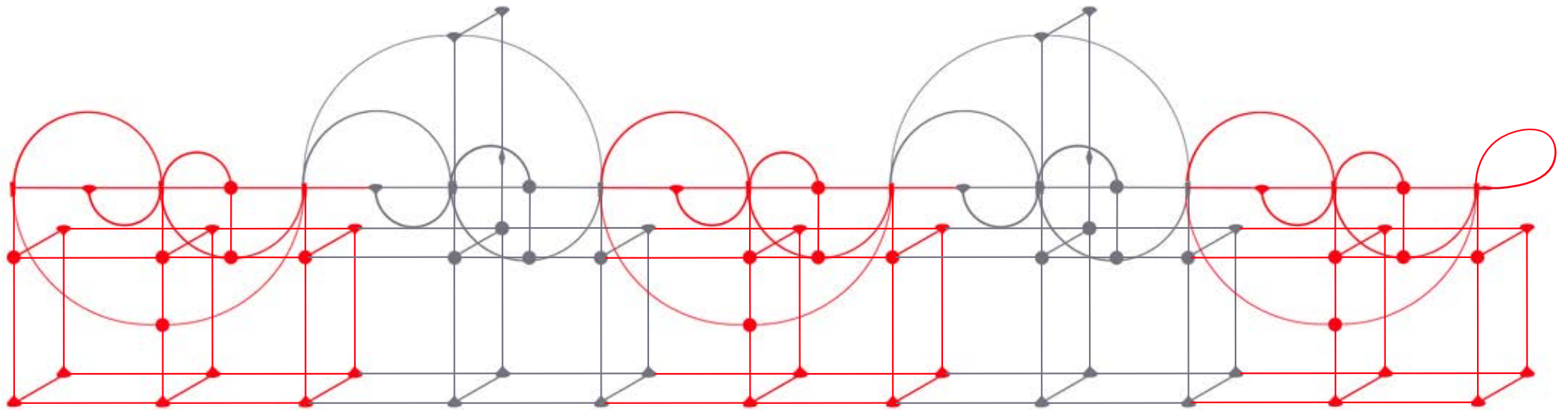
You have now complete the 2 x sections of the display. 1 x low wave and 1 x high wave. You now have the option to extend your waves display dependingon the size you require. A 3/4 kit makes 4 sections , 2 x low wave 2 x high wave . This makes the display 4.8mtrs wide.  
A full kit will make up to 6 sections 3 x low wave and 3 x high wave. This makes the display 8.4 mtrs wide. If you wish to make 5 sections (low -high -low - high -low. As seen in the image on the following pages then you can finish off the right hand low wave with an embellishment to smooth the end off as seen below.

Replace the 70cm Rigid pole with a 34cm Rigid pole.  
Push through the parrallel connector side hole and  
fit a straight connector to the end of the 34cm Rigid pole.



*Festive Frames* OH WOW!

This is a 5 section display. It can be made with the full kit. The full kit will allow you add a 6th section. The 3/4 kit allows you to make 4 sections. If you have multiple kits or buy further components this design can continue as long as you wish. You can see the end embellishment to the right side that finishes off the final low wave.



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This is a 5 section display. It can be made with the full kit. The full kit will allow you add a 6th section. The 3/4 kit allows you to make 4 sections. If you have multiple kits or buy further components this design can continue as long as you wish. You can see the end embellishment to the right side that finishes off the final low wave.



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Alternative lighting ideas would be to use line out lights on their own as seen in the top image below or any colour of lights into the lower section below the waves as seen in bottom image.



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