

### LED Matrix - wire lengths for connecting LED strips to power distribution boards

<b>X</b>	100		horizontal distance between connectors and power board
<b>Y</b>	33.333		vertical distance between each row of LEDs ( $30/m = 1000\text{mm}/30 = 33.333\text{mm}$ )
<b>DY</b>	9		vertical distance between connectors (9mm)
<b>Margin</b>	20		
			Connectors for strips are labelled: A B C D E F with power board between C and D
<b>A,F</b>	180.8325		$X + 2.5(Y - DY) + \text{Margin}$
<b>B,E</b>	156.4995		$X + 1.5(Y - DY) + \text{Margin}$
<b>C,D</b>	132.1665		$X + 0.5(Y - DY) + \text{Margin}$