

Tagra | Express Pixel COB Strip Light | 420 LEDs/m | 10  
Pixels/m | 24V | IP20 | 14W/m | RGB | 20M Reel

**ED24-RGB-420-20M / ITM018597**



Tagra | Express Pixel COB Strip Light | 420 LEDs/m | 10 Pixels/m | 24V | IP20 | 14W/m | RGB | 20M Reel



|                          |                        |                    |                        |                           |
|--------------------------|------------------------|--------------------|------------------------|---------------------------|
| Cut Points<br>✂<br>100mm | IP Rating<br>💧<br>IP20 | LEDs<br>📺<br>420/m | Voltage In<br>⚡<br>24V | Warranty<br>🛡<br>6 Months |
|--------------------------|------------------------|--------------------|------------------------|---------------------------|

**SKU:** ED24-RGB-420-20M  
**ITM:** ITM018597

- Key Features:**
- **Product Length:** 20m
  - **Lm/W (Up To):** 50Lm/W
  - **Lm/m (Up To):** 698Lm/m
  - **IC Type:** TM1903 (WS2811)
  - **Dimensions (W x H):** 10 x 2.5mm

| Mechanical Data             |            |                      |                    |
|-----------------------------|------------|----------------------|--------------------|
| Bend Direction:             | Horizontal | Body Colour:         | White              |
| Cable Both Ends:            | Yes        | Cable Length:        | 500mm              |
| Cable Sheath Material:      | PVC        | Cable Gauge:         | 20AWG              |
| LED Chip Brand:             | Epistar    | LED Chip Type:       | COB                |
| Copper Foil Weight:         | 2oz        | Cut Points:          | 100mm              |
| Entry Cable Direction:      | Top        | LED Pitch:           | 100mm              |
| LEDs Per Unit:              | 42         | LEDs Per Metre:      | 420                |
| LEDs Total:                 | 2100       | Min. Bend Radius:    | 30mm               |
| PCB Type:                   | Flexible   | Pixels Per Metre:    | 10                 |
| Product Weight:             | 160g       | Self Adhesive Brand: | 3M                 |
| Self Adhesive Model Number: | 300LSE     | Dimensions (LxWxH):  | 20000 x 10 x 2.5mm |

| Electrical Data                      |       |                               |       |
|--------------------------------------|-------|-------------------------------|-------|
| Constant Voltage / Constant Current: | CV    | Current Max. Blue @1 Metre:   | 0.2A  |
| Current Max. Green @1 Metre:         | 0.2A  | Current Max. Red @1 Metre:    | 0.2A  |
| Current Max. White @1 Metre:         | 0.58A | Current Max. Rated:           | 0.58A |
| Current Max. @5 Metre:               | 2.85A | Current Typ. @Max Run Length: | 2.85A |
| Max. Run Length:                     | 5m    | Wattage Max. @1 Metre:        | 14W   |
| Wattage Typ. @1 Metre:               | 13.8W | Wattage Typ. @5 Metre:        | 69W   |
| Wattage Typ. @Max Run Length:        | 69W   | Current Max. @1 Metre:        | 0.58A |
| Current Typ. @1 Metre:               | 0.57A | Current Control Type:         | IC    |

| Input Data |  |
|------------|--|
|------------|--|

|                |     |
|----------------|-----|
| Input Voltage: | 24V |
|----------------|-----|

| Control Data |  |
|--------------|--|
|--------------|--|

|                       |                 |                        |        |
|-----------------------|-----------------|------------------------|--------|
| Control Signal Input: | Pixel           | Default PWM Frequency: | 2000Hz |
| Dimmable:             | Yes             | Dimming Type:          | PWM    |
| IC Type:              | TM1903 (WS2811) |                        |        |

| Photometric Data |  |
|------------------|--|
|------------------|--|

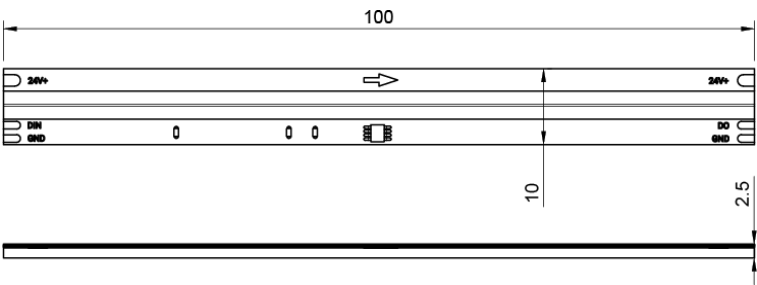
|                          |           |                           |           |
|--------------------------|-----------|---------------------------|-----------|
| Wavelength Blue:         | 460 - 465 | Wavelength Green:         | 520 - 525 |
| Wavelength Red:          | 625 - 620 | Lumens Per Metre:         | 698Lm/m   |
| Colour Type:             | RGB       | SDCM:                     | <5        |
| Lumen Total:             | 2703Lm    | Lumens Per Metre (Blue):  | 73Lm/m    |
| Lumens Per Metre (Red):  | 117Lm/m   | Lumens Per Watt (Blue):   | 14.8Lm/W  |
| Lumens Per Watt (Green): | 103Lm/W   | Lumens Per Watt:          | 50Lm/W    |
| Lumens Per Watt (Red):   | 24Lm/W    | Lumens Per Metre (Green): | 511Lm/m   |

| Environmental Data       |              |                             |          |
|--------------------------|--------------|-----------------------------|----------|
| Application Environment: | Indoor       | Case Temperature Max. (tc): | 26°C     |
| Ingress Protection (IP): | IP20         | Interior or Exterior Use:   | Interior |
| Operating Temperature:   | -25°C - 60°C | Storage Humidity:           | 60%      |
| Storage Temperature:     | -25°C - 60°C | Working Humidity:           | 90%      |

| Protection Data          |     |
|--------------------------|-----|
| Electrical Safety Class: | III |

| Efficiency Data |             |         |             |
|-----------------|-------------|---------|-------------|
| L70B50:         | 36000 Hours | L80B10: | 36000 Hours |
| L90B10:         | 36000 Hours | LM80:   | 36000 Hours |
| Rated Life:     | 50000 Hours |         |             |

Dimension Drawing



| Packaging Data    |       |                   |       |
|-------------------|-------|-------------------|-------|
| Packaging Height: | 480mm | Packaging Length: | 480mm |
| Packaging Width:  | 280mm |                   |       |

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## Disclaimer

Tagra Lighting have taken reasonable care to ensure that the information in this datasheet is accurate at time of publication however it should be noted that all specifications are subject to tolerance. Descriptive specifications such as colour are subjective. Tagra Lighting reserve the right to update specifications without notice. The information in the datasheet may only be relied on by customers of Tagra Lighting in accordance with applicable terms and conditions.

Tagra Lighting is a trading name of T.R Ventures Limited, a company incorporated in England with registered number 07757720. Our registered office is Unit 2, Southfield Industrial Estate, Trafford Park, M17 1SJ.

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