Tagra | Horizontal 16.5 | Build Pixel LED Neon Flex | 16.5x16.5mm | RGB+5700K | 24V | IP68 | 18W/m | 1M

TB24-N165165HBRGB57K1M / ITM003357



Datasheet

22-10-2026

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Cut Points	IP Rating	Voltage In	Warranty
100mm	IP68	24V	5 Years

SKU: TB24-N165165HBRGB57K1M
ITM: ITM003357

Key Features:

- **Light Colour:** 5700K
- **Product Length:** 1m
- **Entry Cable Direction:** Custom
- **IC Type:** UCS8904
- **Dimensions (W x H):** 16.5 x 16.5mm

Mechanical Data			
Bend Direction:	Horizontal	**Body Colour:**	White
Cable Sheath Material:	Silicone	**Cable Gauge:**	18AWG
Connector Type:	M12 Male & Female connector	**Copper Foil Weight:**	4oz
Cut Points:	100mm	**Entry Cable Direction:**	Custom
LED Chip Brand:	Epistar	**LED Chip Type:**	5057
LED Pitch:	14.28mm	**LEDs Per Metre:**	70
LEDs Per Unit:	7	**LEDs Total:**	70
Min. Bend Radius:	60mm	**Pixels Per Metre:**	10
Product Weight:	460g	**Self Adhesive Brand:**	Olympia
Dimensions (LxWxH):	1000 x 16.5 x 16.5mm		

Electrical Data			
Constant Voltage / Constant Current:	CV	**Current Max. @5 Metre:**	4.2A

Electrical Data			
Current Max. Blue @1 Metre:	0.21A	**Current Max. Green @1 Metre:**	0.21A
Current Max. Rated:	6.72A	**Current Max. Red @1 Metre:**	0.21A
Current Max. White @1 Metre:	0.21A	**Current Typ. @Max Run Length:**	6A
Max. Run Length:	8m	**Wattage Max. @1 Metre:**	20.16W
Wattage Typ. @1 Metre:	18W	**Wattage Typ. @5 Metre:**	90W
Wattage Typ. @Max Run Length:	144W	**Current Max. @1 Metre:**	0.84A
Current Typ. @1 Metre:	0.75A		

Input Data	
Input Voltage:	24V

Control Data	
IC Type:	UCS8904

Photometric Data			
Bin Number:	1	**CCT:**	5700K
Colour Type:	RGBW	**CRI:**	80
Lumen Total:	476.32Lm	**Lumens Per Metre:**	476.32Lm/m
Lumens Per Metre (Blue):	36.6Lm/m	**Lumens Per Metre (Red):**	73.9Lm/m
Lumens Per Metre (White):	203.8Lm/m	**Lumens Per Watt:**	28.31Lm/W
Lumens Per Watt (Blue):	5.65Lm/W	**Lumens Per Watt (Green):**	28.26Lm/W
Lumens Per Watt (Red):	7.43Lm/W	**Lumens Per Watt (White):**	33.32Lm/W
Peak Luminous Intensity:	154.6cd	**R9 Value:**	50
SDCM:	<5	**Wavelength Blue:**	465 - 475
Wavelength Green:	520 - 530	**Wavelength Red:**	520 - 620
Lumens Per Metre (Green):	192.7Lm/m		

Environmental Data

Anti-Yellowing:	Yes	**Application Environment:**	Indoor, Outdoor
Body Material:	Silicone	**Case Temperature Max. (tc):**	55°C
Ingress Protection (IP):	IP68	**Interior or Exterior Use:**	Interior or Exterior
Saltwater Resistant:	Yes	**Solvent Resistant:**	Yes
UV Resistant:	Yes	**Operating Temperature:**	-40°C - 55°C
Storage Humidity:	60%	**Storage Temperature:**	20°C - 60°C
Working Humidity:	95%		

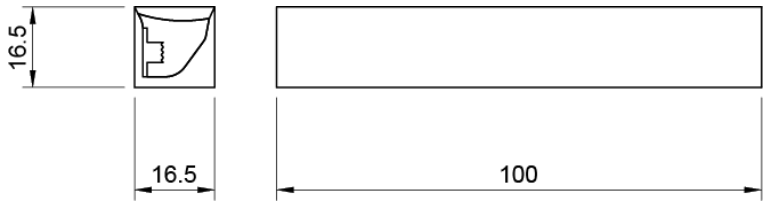
Protection Data

Electrical Safety Class:	III

Efficiency Data

L70B50:	50000 Hours	**LM80:**	6000 Hours
Lumen Maintenance Factor:	99.33		

Dimension Drawing



Packaging Data

End Caps Included:	Yes	**Packaging Height:**	200mm
Packaging Length:	350mm	**Packaging Width:**	362mm

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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