

## AT9251 IP20

AT9251/WW/IP20/5M

LED Strip with cable - IP20 - 4.8W/m

### Features

- Superior 24V design
- 60,000 hour LED life
- Flexible, quality LED housing
- Superior efficacy and Colour Rendering Index (CRI)
- Large range of accessories and extrusions
- Supplied with 3M adhesive tape



### ORDERING INFORMATION

<b>Order code</b>	16532
<b>Description</b>	4.8W/m IP20 5m LED Strip with cable - WW
<b>Item Code</b>	AT9251/WW/IP20/5M

### MECHANICAL

<b>IP Rating</b>	IP20
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### ELECTRICAL

<b>Electrical Rating</b>	Class III
<b>Input voltage</b>	24Vdc
<b>Watts Per Meter (W/m)</b>	4.8
<b>Working Temp Range</b>	40 °C

### LAMP

<b>Macadam Steps (SDCM)</b>	3-step MacAdam Ellipse
<b>Beam Angle</b>	120 °
<b>CCT Configuration</b>	Single
<b>CRI</b>	>90
<b>Lamp/LED voltage</b>	24 V
<b>LED's per meter</b>	64
<b>Lumens /m</b>	550 lm/m
<b>System Efficiency</b>	114 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>60000 hrs
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This is the Reported LED Lifetime in Hours based on TM-21. Atom does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.

<b>Ambient Temp (°C)</b>	25 °C	40 °C
<b>L80B10</b>	52000 hrs	52000 hrs
<b>L70B50</b>	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

<b>TM-21 Test Hours</b>	10000 hrs
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### COLOUR TEMPERATURE

<b>CCT</b>	3000 K
<b>CCT Colour</b>	Warm White
<b>LED Wattage</b>	24 W
<b>System Lumens</b>	2750 lm

All photometric data has a tolerance of ±10%.

## COMPLIANCE

**Product Design Life** 10 years

The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

**Daily Use** 12 hrs

The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

**Standards** AS/NZS 60598.1  
IEC 62031

## WARRANTY

**Commercial Use Warranty** 2 RTB (Total 2 Years)

**Domestic Use Warranty** 3 (Yr) RTB

**VIP Warranty** 2 Onsite, 3 RTB (Total 5 Years)

VIP warranty is available to registered users and is subjected to additional terms and conditions.

**Warranty Operating Hours** 13000 hrs

This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

## DIMENSIONS

**Cutting Interval** 125 mm

**Product Height** 1 mm

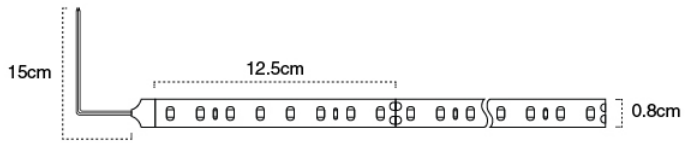
**Product Length** 5000 mm

**Maximum End to End Length** 5000 mm

**Product Width** 8 mm

## LINE DRAWINGS

### AT9251/IP20



## AT9251 IP20

AT9251/WW/IP20/1M

LED Strip with cable - IP20 - 4.8W/m

### Features

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### ORDERING INFORMATION

<b>Order code</b>	16516
<b>Description</b>	4.8W/m IP20 1m LED Strip with cable - WW
<b>Item Code</b>	AT9251/WW/IP20/1M

### MECHANICAL

<b>IP Rating</b>	IP20
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### ELECTRICAL

<b>Electrical Rating</b>	Class III
<b>Input voltage</b>	24Vdc
<b>Watts Per Meter (W/m)</b>	4.8
<b>Working Temp Range</b>	40 °C

### LAMP

<b>Macadam Steps (SDCM)</b>	3-step MacAdam Ellipse
<b>Beam Angle</b>	120 °
<b>CCT Configuration</b>	Single
<b>CRI</b>	>90
<b>Lamp/LED voltage</b>	24 V
<b>LED's per meter</b>	64
<b>Lumens /m</b>	550 lm/m
<b>System Efficiency</b>	114 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>60000 hrs
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<b>Ambient Temp (°C)</b>	25 °C	40 °C
<b>L80B10</b>	52000 hrs	52000 hrs
<b>L70B50</b>	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

<b>TM-21 Test Hours</b>	10000 hrs
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### COLOUR TEMPERATURE

<b>CCT</b>	3000 K
<b>CCT Colour</b>	Warm White
<b>LED Wattage</b>	4.8 W
<b>System Lumens</b>	550 lm

All photometric data has a tolerance of ±10%.

## COMPLIANCE

**Product Design Life** 10 years

The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

**Daily Use** 12 hrs

The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

**Standards** AS/NZS 60598.1  
IEC 62031

## WARRANTY

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**Domestic Use Warranty** 3 (Yr) RTB

**VIP Warranty** 2 Onsite, 3 RTB (Total 5 Years)

VIP warranty is available to registered users and is subjected to additional terms and conditions.

**Warranty Operating Hours** 13000 hrs

This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

## DIMENSIONS

**Cutting Interval** 125 mm

**Product Height** 1 mm

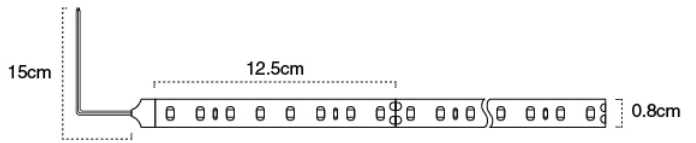
**Product Length** 1000 mm

**Maximum End to End Length** 5000 mm

**Product Width** 8 mm

## LINE DRAWINGS

### AT9251/IP20



## AT9251 IP20

AT9251/DL/IP20/5M

LED Strip with cable - IP20 - 4.8W/m

### Features

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### ORDERING INFORMATION

<b>Order code</b>	16534
<b>Description</b>	4.8W/m IP20 5m LED Strip with cable - DL
<b>Item Code</b>	AT9251/DL/IP20/5M

### MECHANICAL

<b>IP Rating</b>	IP20
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### ELECTRICAL

<b>Electrical Rating</b>	Class III
<b>Input voltage</b>	24Vdc
<b>Watts Per Meter (W/m)</b>	4.8
<b>Working Temp Range</b>	40 °C

### LAMP

<b>Macadam Steps (SDCM)</b>	3-step MacAdam Ellipse
<b>Beam Angle</b>	120 °
<b>CCT Configuration</b>	Single
<b>CRI</b>	>90
<b>Lamp/LED voltage</b>	24 V
<b>LED's per meter</b>	64
<b>Lumens /m</b>	580 lm/m
<b>System Efficiency</b>	120 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>60000 hrs
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<b>Ambient Temp (°C)</b>	25 °C	40 °C
<b>L80B10</b>	52000 hrs	52000 hrs
<b>L70B50</b>	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

<b>TM-21 Test Hours</b>	10000 hrs
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### COLOUR TEMPERATURE

<b>CCT</b>	5000 K
<b>CCT Colour</b>	Daylight
<b>LED Wattage</b>	24 W
<b>System Lumens</b>	2900 lm

All photometric data has a tolerance of ±10%.

## COMPLIANCE

**Product Design Life** 10 years

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**Daily Use** 12 hrs

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## DIMENSIONS

**Cutting Interval** 125 mm

**Product Height** 1 mm

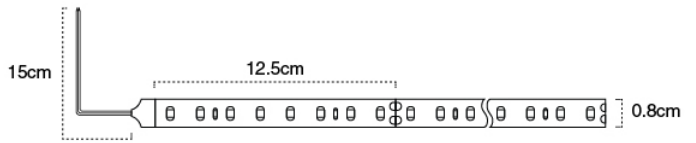
**Product Length** 5000 mm

**Maximum End to End Length** 5000 mm

**Product Width** 8 mm

## LINE DRAWINGS

### AT9251/IP20



## AT9251 IP20

AT9251/CW/IP20/5M

LED Strip with cable - IP20 - 4.8W/m

### Features

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### ORDERING INFORMATION

<b>Order code</b>	16533
<b>Description</b>	4.8W/m IP20 5m LED Strip with cable - CW
<b>Item Code</b>	AT9251/CW/IP20/5M

### MECHANICAL

<b>IP Rating</b>	IP20
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### ELECTRICAL

<b>Electrical Rating</b>	Class III
<b>Input voltage</b>	24Vdc
<b>Watts Per Meter (W/m)</b>	4.8
<b>Working Temp Range</b>	40 °C

### LAMP

<b>Macadam Steps (SDCM)</b>	3-step MacAdam Ellipse
<b>Beam Angle</b>	120 °
<b>CCT Configuration</b>	Single
<b>CRI</b>	>90
<b>Lamp/LED voltage</b>	24 V
<b>LED's per meter</b>	64
<b>Lumens /m</b>	580 lm/m
<b>System Efficiency</b>	120 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>60000 hrs
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<b>Ambient Temp (°C)</b>	25 °C	40 °C
<b>L80B10</b>	52000 hrs	52000 hrs
<b>L70B50</b>	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

<b>TM-21 Test Hours</b>	10000 hrs
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### COLOUR TEMPERATURE

<b>CCT</b>	4000 K
<b>CCT Colour</b>	Cool White
<b>LED Wattage</b>	24 W
<b>System Lumens</b>	2900 lm

All photometric data has a tolerance of ±10%.

## COMPLIANCE

**Product Design Life** 10 years

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## DIMENSIONS

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**Product Height** 1 mm

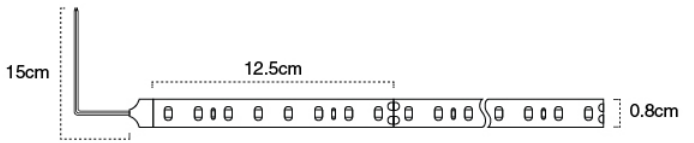
**Product Length** 5000 mm

**Maximum End to End Length** 5000 mm

**Product Width** 8 mm

## LINE DRAWINGS

### AT9251/IP20





## AT9251 IP20

AT9251/CW/IP20/1M

LED Strip with cable - IP20 - 4.8W/m

### Features

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- Supplied with 3M adhesive tape



### ORDERING INFORMATION

<b>Order code</b>	16517
<b>Description</b>	4.8W/m IP20 1m LED Strip with cable - CW
<b>Item Code</b>	AT9251/CW/IP20/1M

### MECHANICAL

<b>IP Rating</b>	IP20
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### ELECTRICAL

<b>Electrical Rating</b>	Class III
<b>Input voltage</b>	24Vdc
<b>Watts Per Meter (W/m)</b>	4.8
<b>Working Temp Range</b>	40 °C

### LAMP

<b>Macadam Steps (SDCM)</b>	3-step MacAdam Ellipse
<b>Beam Angle</b>	120 °
<b>CCT Configuration</b>	Single
<b>CRI</b>	>90
<b>Lamp/LED voltage</b>	24 V
<b>LED's per meter</b>	64
<b>Lumens /m</b>	580 lm/m
<b>System Efficiency</b>	120 lm/W

### LED LIFETIME

<b>LED Lifetime</b>	>60000 hrs
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<b>TM-21 Test Hours</b>	10000 hrs
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### COLOUR TEMPERATURE

<b>CCT</b>	4000 K
<b>CCT Colour</b>	Cool White
<b>LED Wattage</b>	4.8 W
<b>System Lumens</b>	580 lm

All photometric data has a tolerance of ±10%.

## COMPLIANCE

**Product Design Life** 10 years

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**Product Height** 1 mm

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## LINE DRAWINGS

### AT9251/IP20

