

Neon Flex - Datasheet

Horizontal/Vertical bendable weatherproof Neon Flex LED strip



Illuminate Your Space with ENTTEC Neon Flex: The ultimate lighting solution that combines flexibility, durability, and ease of installation.

Crafted from high-quality silicone, this weatherproof LED strip thrives in any environment. Its malleable design allows effortless vertical or horizontal shaping, enabling you to create stunning lighting designs.

With comprehensive connector options and versatile mounting accessories, Neon Flex ensures a sleek and professional finish.

Discover the diversity of ENTTEC Neon Flex, where cutting-edge LED technology meets artistic expression. From auto-addressing DMX and SPI options to non-addressing single-color, tuneable white, and RGBW variations, Neon Flex offers a wide array of lighting possibilities.

With its expansive range of colour temperatures and dynamic mixing capabilities, Neon Flex elevate your designs effortlessly and transform any space into a captivating visual spectacle.

FEATURES

- **Variety of strip shapes and control options from auto addressing DMX, SPI to non-addressing single colour, tuneable white and RGBW variants.**
- **Premium FPC with 4OZ thick copper for good conductivity and folding resistance.**
- **Horizontal or vertical bendable for effortless shaping and contouring.**
- **Flexible LED strip made with high-quality anti-yellowing silicone material resistant to UV, corrosion, solvents and salt water.**
- **IP68/IK08-rated durable weatherproof design.**
- **Easy installation with a range of connector styles and installation accessories.**
- **Customisable length tailored to unique needs.**
- **This product does not include the necessary external DC power supply and data source required for operation.**

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GENERAL PROPERTIES

| | |
|----------------------|---|
| Available Bending | <ul style="list-style-type: none"> • Horizontal • Vertical |
| Available Beam Angle | <ul style="list-style-type: none"> • 120° • 210° • 270° |
| Available shape | 5 options (refer to overview section) |
| Available Protocol | <ul style="list-style-type: none"> • DMX (5Pin) • SPI (3Pin) • Non-Addressable <ul style="list-style-type: none"> ◦ Single Colour (2Pin) ◦ Tuneable White (3Pin) ◦ RGBW (5Pin) |
| LED Source | Epistar SMD LED 5050 |
| LED Lifetime | 70,000 Hours L70 @ 25°C 50,000 Hours L70 @ 50°C |
| Body Material | Silicone |
| IK Rating | IK08 |
| IP Rating | IP68 Wet location submersible <2m |
| Temperature Range | Installation: 0°C to 50°C Operating: -40°C to 55°C |
| Connector Type | IP68 Twist lock connector |
| Warranty | 3 Year Return to Base Manufacturer Warranty |

CERTIFICATION



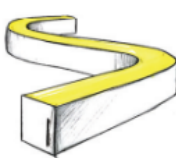



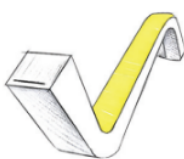


INSTALLATION

Install Neon Flex within the specified temperature range to ensure proper bending and flexibility. Operating outside this range may compromise performance.

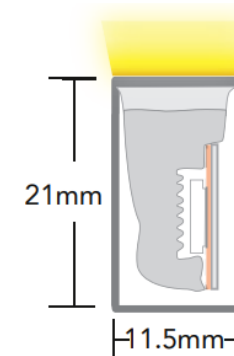
Prior to handling or specifying this product, ensure you refer to its installation guide and the safety instructions. If you have any uncertainties, don't hesitate to consult ENTTEC for guidance.

Note: Your Neon Flex will be cut to order for you. DIY cutting on the product will void its warranty.

OVERVIEW – NEON FLEX VARIANT

| Bending | Variant | Shape | Beam Angle (degree) | Height (mm) | Width (mm) | Bending Diameter (mm) |
|--|---------|---|---------------------|-------------|------------|-----------------------|
| Horizontal  | S1 |  | 120 | 21 | 11.5 | 80 |
| | S2 |  | 120 | 16.5 | 16.5 | 150 |
| | S3 |  | 270 | 28 | 11.5 | 80 |
| Vertical  | S4 |  | 120 | 16.5 | 16.5 | 120 |
| | S5 |  | 210 | 16.5 | 16.5 | 120 |

S1 Variant Customisation (Horizontal – 21mmx11.5mm - 120°)



| PN | Variant | Protocol | Voltage | LED Type | LED Density [LEDs/m] | Length [mm] [Customisable] | | | Connector Style [Customisable] | Connector Config [Customisable] | Lead in Length [mm] [Customisable] | Lead Out Length [mm] [Customisable] |
|-------|---------|---|---------|--|----------------------|----------------------------|------------------------------|--|--|--|---|---|
| 73060 | S1 | DMX | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 12,800* | 3 Options Direct Side Bottom | 2 Options SM <i>(Male Connector In, sealed end cap)</i> SFM <i>(Male connector In, Female Connector Out.)</i> | Min: 200 Increment: 10 Max: 2,000 | Min: 200 Increment: 10 Max: 2,000 |
| | | SPI | 12V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 60 | <u>Min</u> 300 | <u>Increment Step</u> 50 | <u>Max</u> (Single) 4,000 (Double) 8,000 | | | | |
| | | NA1 (Non-Addressing Single-Colour) <i>White (W), Red (R), Green (G), Blue (B)</i> | 24V | 11 Options W (2200K) W (2700K) W (3000K) W (3500K) W (4000K) W (4500K) W (5000K) W (6500K) R G B | 60 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA2 (Non-Addressing Tuneable White) <i>Duo White - Option + 5700K</i> | 24V | 3 Options WW (2200K) WW (2700K) WW (3000K) | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA3 (Non-Addressing RGBW) | 24V | 4 Options W (2700K) W (3000K) W (4000K) W (5000K) | 60 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S1 - DMX (Auto-Addressing DMX)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|----------|--------------|---------------|-------------------|---|--|---|
| DMX | RGBW (2700K) | 24V | 18W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: 29 lm/m G: 77 lm/m B: 14 lm/m W: 89 lm/m RGBW: 205 lm/m | Single Feed: 8mtr Double Feed: 12.8mtr |
| | RGBW (3000K) | | | | R: 27 lm/m G: 86 lm/m B: 16 lm/m W: 95 lm/m RGBW: 216 lm/m | |
| | RGBW (4000K) | | | | R: 25 lm/m G: 85 lm/m B: 14 lm/m W: 97 lm/m RGBW: 214 lm/m | |
| | RGBW (5000K) | | | | R: 43 lm/m G: 119 lm/m B: 21 lm/m W: 138 lm/m RGBW: 296 lm/m | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S1 - SPI (Auto-Addressing SPI)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|------------------|--------------|---------------|-------------------|--|---|--|
| SPI (UCS8904) | RGBW (2700K) | 12V | 17 W/m | <u>LED Count</u> 60 LEDs/m <u>Cutting Unit</u> 3 LEDs <u>Cutting unit length</u> 50mm | R: - 30 lm/m G: - 96 lm/m B: - 15 lm/m W: - 100 lm/m RGBW: - 250 lm/m | Single Feed: 4mtr Double Feed: 8mtr |
| | RGBW (3000K) | | | | R: - 30 lm/m G: - 96 lm/m B: - 15 lm/m W: - 115 lm/m RGBW: - 260 lm/m | |
| | RGBW (4000K) | | | | R: - 30 lm/m G: - 96 lm/m B: - 15 lm/m W: - 120 lm/m RGBW: - 265 lm/m | |
| | RGBW (5000K) | | | | R: - 30 lm/m G: - 96 lm/m B: - 15 lm/m W: - 125 lm/m RGBW: - 270 lm/m | |

S1 - NA1 (Non-Addressing Single-Colour)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|---|------------|---------------|-------------------|-------------------------------|----------|--|
| NA1 <i>White (W), Red (R), Green (G), Blue (B)</i> | W (2200K) | 24V | 12W/m | <u>LED Count</u> 60 LEDs/m | 217 lm/m | Single Feed: 10mtr Double Feed: 20mtr |
| | W (2700K) | | | | 280 lm/m | |
| | W (3000K) | | | | 300 lm/m | |
| | W (3500K) | | | | 310 lm/m | |
| | W (4000K) | | | | 321 lm/m | |
| | W (4500K) | | | | 222 lm/m | |
| | W (5000K) | | | | 310 lm/m | |
| | W (6500K) | | | | 266 lm/m | |
| | R | | | | 100 lm/m | |
| | G | | | | 198 lm/m | |
| | B | | | | 16 lm/m | |

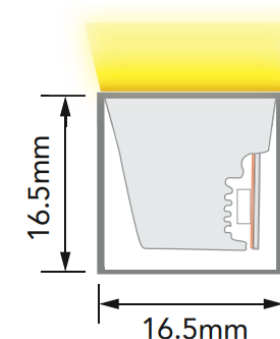
S1 - NA2 (Non-Addressing Tuneable White)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|--|---------------|---------------|-------------------|--------------------------------|--------------------------------------|--|
| NA2 <i>Duo White – Option + 5700K</i> | 2200K – 5700K | 24V | 12W/m | <u>LED Count</u> 120 LEDs/m | 145 lm/m (2200K) 296 lm/m (5700K) | Single Feed: 10mtr Double Feed: 20mtr |
| | 2700K – 5700K | | | | 130 lm/m (2700K) 253 lm/m (5700K) | |
| | 3000K – 5700K | | | | 142 lm/m (3000K) 296 lm/m (5700K) | |

S1 - NA3 (Non-Addressing RGBW)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|----------|--------------|---------------|-------------------|-------------------------------|---|---|
| NA3 | RGBW (2700K) | 24V | 17 W/m | <u>LED Count</u> 60 LEDs/m | R: 24 lm/m G: 77 lm/m B: 13 lm/m W: 107 lm/m RGBW: 214 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: 25 lm/m G: 79 lm/m B: 13 lm/m W: 115 lm/m RGBW: 220 lm/m | |
| | RGBW (4000K) | | | | R: 25 lm/m G: 80 lm/m B: 14 lm/m W: 125 lm/m RGBW: 234 lm/m | |
| | RGBW (5000K) | | | | R: 31 lm/m G: 85 lm/m B: 15 lm/m W: 133 lm/m RGBW: 242 lm/m | |

S2 Variant Customisation (Horizontal – 16.5mmx16.5mm - 120°)



| PN | Variant | Protocol | Voltage | LED Type | LED Density [LEDs/m] | Length [mm] [Customisable] | | | Connector Style [Customisable] | Connector Config [Customisable] | Lead in Length [mm] [Customisable] | Lead Out Length [mm] [Customisable] |
|-------|---------|---|---------|--|----------------------|----------------------------|-------------------------------|--|--|--|---|---|
| 73060 | S2 | DMX | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 12,800* | 3 Options Direct Side Bottom | 2 Options SM <i>(Male Connector In, sealed end cap)</i> SFM <i>(Male connector In, Female Connector Out.)</i> | Min: 200 Increment: 10 Max: 2,000 | Min: 200 Increment: 10 Max: 2,000 |
| | | SPI | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |
| | | NA1 (Non-Addressing Single-Colour) <i>White (W), Red (R), Green (G), Blue (B)</i> | 24V | 11 Options W (2200K) W (2700K) W (3000K) W (3500K) W (4000K) W (4500K) W (5000K) W (6500K) R G B | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA2 (Non-Addressing Tuneable White) <i>Duo White – Option + 5700K</i> | 24V | 3 Options WW (2200K) WW (2700K) WW (3000K) | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA3 (Non-Addressing RGBW) | 24V | 4 Options W (2700K) W (3000K) W (4000K) W (5000K) | 84 | <u>Min</u> 300 | <u>Increment Step</u> 71.4 | <u>Max</u> (Single) 7,000 (Double) 14,000 | | | | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S2 - DMX (Auto-Addressing DMX)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|----------|--------------|---------------|-------------------|---|--|---|
| DMX | RGBW (2700K) | 24V | 18W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: 29 lm/m G: 77 lm/m B: 14 lm/m W: 89 lm/m RGBW: 205 lm/m | Single Feed: 8mtr Double Feed: 12.8mtr |
| | RGBW (3000K) | | | | R: 27 lm/m G: 86 lm/m B: 16 lm/m W: 95 lm/m RGBW: 216 lm/m | |
| | RGBW (4000K) | | | | R: 25 lm/m G: 85 lm/m B: 14 lm/m W: 97 lm/m RGBW: 214 lm/m | |
| | RGBW (5000K) | | | | R: 43 lm/m G: 119 lm/m B: 21 lm/m W: 138 lm/m RGBW: 296 lm/m | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S2 - SPI (Auto-Addressing SPI)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|------------------|--------------|---------------|-------------------|---|--|---|
| SPI (UCS8904) | RGBW (2700K) | 24V | 18 W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: - 48 lm/m G: - 186 lm/m B: - 35 lm/m W: - 195 lm/m RGBW: - 430 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: - 48 lm/m G: - 186 lm/m B: - 35 lm/m W: - 203 lm/m RGBW: - 448 lm/m | |
| | RGBW (4000K) | | | | R: - 48 lm/m G: - 186 lm/m B: - 35 lm/m W: - 210 lm/m RGBW: - 450 lm/m | |
| | RGBW (5000K) | | | | R: - 48 lm/m G: - 186 lm/m B: - 35 lm/m W: - 220 lm/m RGBW: - 455 lm/m | |

S2 - NA1 (Non-Addressing Single-Colour)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|---|------------|---------------|-------------------|--------------------------------|----------|--|
| NA1 <i>White (W), Red (R), Green (G), Blue (B)</i> | W (2200K) | 24V | 10W/m | <u>LED Count</u> 120 LEDs/m | 350 lm/m | Single Feed: 10mtr Double Feed: 20mtr |
| | W (2700K) | | | | 400 lm/m | |
| | W (3000K) | | | | 389 lm/m | |
| | W (3500K) | | | | 394 lm/m | |
| | W (4000K) | | | | 411 lm/m | |
| | W (4500K) | | | | 500 lm/m | |
| | W (5000K) | | | | 407 lm/m | |
| | W (6500K) | | | | 399 lm/m | |
| | R | | | | 122 lm/m | |
| | G | | | | 290 lm/m | |
| | B | | | | 51 lm/m | |

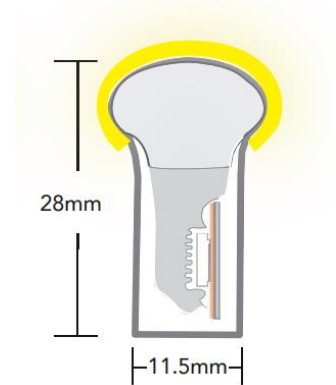
S2 - NA2 (Non-Addressing Tuneable White)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|--|---------------|---------------|-------------------|--------------------------------|--------------------------------------|--|
| NA2 <i>Duo White – Option + 5700K</i> | 2200K – 5700K | 24V | 12W/m | <u>LED Count</u> 120 LEDs/m | 360 lm/m (2200K) 400 lm/m (5700K) | Single Feed: 10mtr Double Feed: 20mtr |
| | 2700K – 5700K | | | | 330 lm/m (2700K) 300 lm/m (5700K) | |
| | 3000K – 5700K | | | | 320 lm/m (3000K) 360 lm/m (5700K) | |

S2 - NA3 (Non-Addressing RGBW)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|----------|--------------|---------------|-------------------|-------------------------------|--|---|
| NA3 | RGBW (2700K) | 24V | 15 W/m | <u>LED Count</u> 84 LEDs/m | R: 32 lm/m G: 134 lm/m B: 21 lm/m W: 165 lm/m RGBW: 349 lm/m | Single Feed: 7mtr Double Feed: 14mtr |
| | RGBW (3000K) | | | | R: 32 lm/m G: 134 lm/m B: 21 lm/m W: 172 lm/m RGBW: 349 lm/m | |
| | RGBW (4000K) | | | | R: 32 lm/m G: 134 lm/m B: 21 lm/m W: 185 lm/m RGBW: 349 lm/m | |
| | RGBW (5000K) | | | | R: 32 lm/m G: 134 lm/m B: 21 lm/m W: 198 lm/m RGBW: 349 lm/m | |

S3 Variant Customisation (Horizontal – 28mmx11.5mm - 270°)



| PN | Variant | Protocol | Voltage | LED Type | LED Density [LEDs/m] | Length [mm] [Customisable] | | | Connector Style [Customisable] | Connector Config [Customisable] | Lead in Length [mm] [Customisable] | Lead Out Length [mm] [Customisable] |
|-------|---------|---|---------|--|----------------------|----------------------------|------------------------------|--|--------------------------------|---------------------------------|---|---|
| 73060 | S3 | DMX | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 12,800* | | | Min: 200 Increment: 10 Max: 2,000 | Min: 200 Increment: 10 Max: 2,000 |
| | | SPI | 12V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 60 | <u>Min</u> 300 | <u>Increment Step</u> 50 | <u>Max</u> (Single) 4,000 (Double) 8,000 | | | | |
| | | NA1 (Non-Addressing Single-Colour) <i>White (W), Red (R), Green (G), Blue (B)</i> | 24V | 11 Options W (2200K) W (2700K) W (3000K) W (3500K) W (4000K) W (4500K) W (5000K) W (6500K) R G B | 60 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA2 (Non-Addressing Tuneable White) <i>Duo White – Option + 5700K</i> | 24V | 3 Options WW (2200K) WW (2700K) WW (3000K) | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA3 (Non-Addressing RGBW) | 24V | 4 Options W (2700K) W (3000K) W (4000K) W (5000K) | 60 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S3 - DMX (Auto-Addressing DMX)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|----------|--------------|---------------|-------------------|---|--|---|
| DMX | RGBW (2700K) | 24V | 18W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: 39 lm/m G: 111 lm/m B: 18 lm/m W: 122 lm/m RGBW: 277 lm/m | Single Feed: 8mtr Double Feed: 12.8mtr |
| | RGBW (3000K) | | | | R: 35 lm/m G: 114 lm/m B: 22 lm/m W: 130 lm/m RGBW: 289 lm/m | |
| | RGBW (4000K) | | | | R: 45 lm/m G: 133 lm/m B: 22 lm/m W: 151 lm/m RGBW: 319 lm/m | |
| | RGBW (5000K) | | | | R: 39 lm/m G: 120 lm/m B: 20 lm/m W: 139 lm/m RGBW: 297 lm/m | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S3 - SPI (Auto-Addressing SPI)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|------------------|--------------|---------------|-------------------|--|--|--|
| SPI (UCS8904) | RGBW (2700K) | 12V | 17 W/m | <u>LED Count</u> 60 LEDs/m <u>Cutting Unit</u> 3 LEDs <u>Cutting unit length</u> 50mm | R: - 30 lm/m G: - 100 lm/m B: - 17 lm/m W: - 140 lm/m RGBW: - 260 lm/m | Single Feed: 4mtr Double Feed: 8mtr |
| | RGBW (3000K) | | | | R: - 30 lm/m G: - 100 lm/m B: - 17 lm/m W: - 147 lm/m RGBW: - 260 lm/m | |
| | RGBW (4000K) | | | | R: - 30 lm/m G: - 100 lm/m B: - 17 lm/m W: - 155 lm/m RGBW: - 260 lm/m | |
| | RGBW (5000K) | | | | R: - 30 lm/m G: - 100 lm/m B: - 17 lm/m W: - 160 lm/m RGBW: - 260 lm/m | |

S3 - NA1 (Non-Addressing Single-Colour)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|---|------------|---------------|-------------------|---|----------|--|
| NA1 <i>White (W), Red (R), Green (G), Blue (B)</i> | W (2200K) | 24V | 12W/m | <u>LED Count</u> 60 LEDs/m <u>Cutting Unit</u> 6 LEDs <u>Cutting unit length</u> 100mm | 250 lm/m | Single Feed: 10mtr Double Feed: 20mtr |
| | W (2700K) | | | | 287 lm/m | |
| | W (3000K) | | | | 314 lm/m | |
| | W (3500K) | | | | 325 lm/m | |
| | W (4000K) | | | | 338 lm/m | |
| | W (4500K) | | | | 349 lm/m | |
| | W (5000K) | | | | 367 lm/m | |
| | W (6500K) | | | | 393 lm/m | |
| | R | | | | 151 lm/m | |
| | G | | | | 303 lm/m | |
| | B | | | | 30 lm/m | |

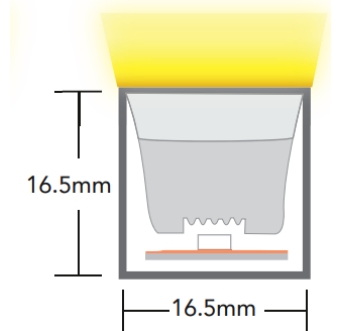
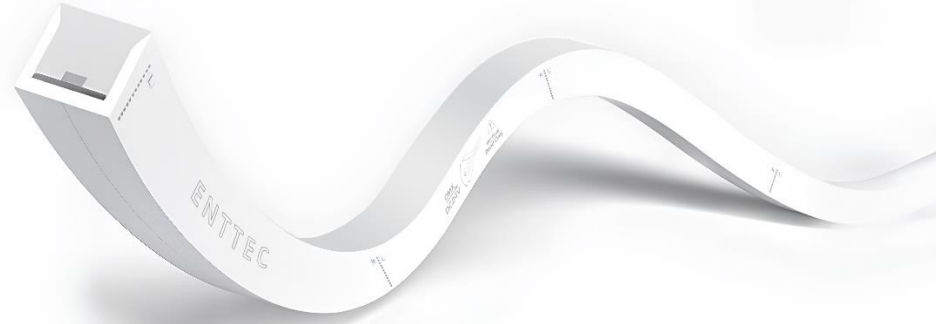
S3 - NA2 (Non-Addressing Tuneable White)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|--|---------------|---------------|-------------------|---|--------------------------------------|--|
| NA2 <i>Duo White – Option + 5700K</i> | 2200K – 5700K | 24V | 12W/m | <u>LED Count</u> 120 LEDs/m <u>Cutting Unit</u> 12 LEDs <u>Cutting unit length</u> 100mm | 199 lm/m (2200K) 223 lm/m (5700K) | Single Feed: 10mtr Double Feed: 20mtr |
| | 2700K – 5700K | | | | 232 lm/m (2700K) 225 lm/m (5700K) | |
| | 3000K – 5700K | | | | 224 lm/m (3000K) 237 lm/m (5700K) | |

S3 - NA3 (Non-Addressing RGBW)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|----------|--------------|---------------|-------------------|---|--|---|
| NA3 | RGBW (2700K) | 24V | 17 W/m | <u>LED Count</u> 60 LEDs/m <u>Cutting Unit</u> 6 LEDs <u>Cutting unit length</u> 100mm | R: 29 lm/m G: 93 lm/m B: 15 lm/m W: 129 lm/m RGBW: 252 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: 29 lm/m G: 99 lm/m B: 19 lm/m W: 134 lm/m RGBW: 269 lm/m | |
| | RGBW (4000K) | | | | R: 39 lm/m G: 113 lm/m B: 19 lm/m W: 171 lm/m RGBW: 303 lm/m | |
| | RGBW (5000K) | | | | R: 32 lm/m G: 97 lm/m B: 16 lm/m W: 158 lm/m RGBW: 289 lm/m | |

S4 Variant Customisation (Vertical – 16.5mmx16.5mm - 120°)



| PN | Variant | Protocol | Voltage | LED Type | LED Density [LEDs/m] | Length [mm] [Customisable] | | | Connector Style [Customisable] | Connector Config [Customisable] | Lead in Length [mm] [Customisable] | Lead Out Length [mm] [Customisable] |
|-------|---------|---|---------|--|----------------------|----------------------------|-------------------------------|--|--|--|---|---|
| 73060 | S4 | DMX | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 12,800* | 3 Options Direct Side Bottom | 2 Options SM (Male Connector In, sealed end cap) SFM (Male connector In, Female Connector Out.) | Min: 200 Increment: 10 Max: 2,000 | Min: 200 Increment: 10 Max: 2,000 |
| | | SPI | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |
| | | NA1 (Non-Addressing Single-Colour) <i>White (W), Red (R), Green (G), Blue (B)</i> | 24V | 11 Options W (2200K) W (2700K) W (3000K) W (3500K) W (4000K) W (4500K) W (5000K) W (6500K) R G B | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA2 (Non-Addressing Tuneable White) <i>Duo White – Option + 5700K</i> | 24V | 3 Options WW (2200K) WW (2700K) WW (3000K) | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA3 (Non-Addressing RGBW) | 24V | 4 Options W (2700K) W (3000K) W (4000K) W (5000K) | 72 | <u>Min</u> 300 | <u>Increment Step</u> 83.3 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S4 - DMX (Auto-Addressing DMX)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|----------|--------------|---------------|-------------------|---|--|---|
| DMX | RGBW (2700K) | 24V | 18W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: 49 lm/m G: 198 lm/m B: 34 lm/m W: 196 lm/m RGBW: 370 lm/m | Single Feed: 8mtr Double Feed: 12.8mtr |
| | RGBW (3000K) | | | | R: 60 lm/m G: 176 lm/m B: 34 lm/m W: 193 lm/m RGBW: 399 lm/m | |
| | RGBW (4000K) | | | | R: 62 lm/m G: 190 lm/m B: 36 lm/m W: 200 lm/m RGBW: 400 lm/m | |
| | RGBW (5000K) | | | | R: 65 lm/m G: 200 lm/m B: 35 lm/m W: 210 lm/m RGBW: 410 lm/m | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S4 - SPI (Auto-Addressing SPI)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|------------------|--------------|---------------|-------------------|---|--|---|
| SPI (UCS8904) | RGBW (2700K) | 24V | 18 W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: - 60 lm/m G: - 170 lm/m B: - 40 lm/m W: - 170 lm/m RGBW: - 400 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: - 60 lm/m G: - 170 lm/m B: - 40 lm/m W: - 180 lm/m RGBW: - 400 lm/m | |
| | RGBW (4000K) | | | | R: - 60 lm/m G: - 170 lm/m B: - 40 lm/m W: - 190 lm/m RGBW: - 400 lm/m | |
| | RGBW (5000K) | | | | R: - 60 lm/m G: - 170 lm/m B: - 40 lm/m W: - 200 lm/m RGBW: - 400 lm/m | |

S4 - NA1 (Non-Addressing Single-Colour)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|---|------------|---------------|-------------------|---|----------|--|
| NA1 <i>White (W), Red (R), Green (G), Blue (B)</i> | W (2200K) | 24V | 10W/m | <u>LED Count</u> 120 LEDs/m <u>Cutting Unit</u> 12 LEDs <u>Cutting unit length</u> 100mm | 319 lm/m | Single Feed: 10mtr Double Feed: 20mtr |
| | W (2700K) | | | | 355 lm/m | |
| | W (3000K) | | | | 360 lm/m | |
| | W (3500K) | | | | 330 lm/m | |
| | W (4000K) | | | | 311 lm/m | |
| | W (4500K) | | | | 320 lm/m | |
| | W (5000K) | | | | 340 lm/m | |
| | W (6500K) | | | | 317 lm/m | |
| | R | | | | 140 lm/m | |
| | G | | | | 280 lm/m | |
| | B | | | | 47 lm/m | |

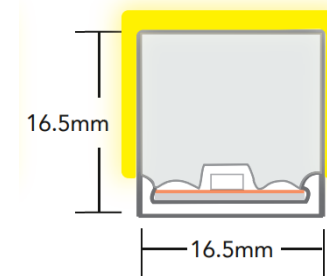
S4 - NA2 (Non-Addressing Tuneable White)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|--|---------------|---------------|-------------------|---|--------------------------------------|--|
| NA2 <i>Duo White – Option + 5700K</i> | 2200K – 5700K | 24V | 12W/m | <u>LED Count</u> 120 LEDs/m <u>Cutting Unit</u> 12 LEDs <u>Cutting unit length</u> 100mm | 263 lm/m (2200K) 294 lm/m (5700K) | Single Feed: 10mtr Double Feed: 20mtr |
| | 2700K – 5700K | | | | 333 lm/m (2700K) 304 lm/m (5700K) | |
| | 3000K – 5700K | | | | 272 lm/m (3000K) 278 lm/m (5700K) | |

S4 - NA3 (Non-Addressing RGBW)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|----------|--------------|---------------|-------------------|--|--|---|
| NA3 | RGBW (2700K) | 24V | 17 W/m | <u>LED Count</u> 72 LEDs/m <u>Cutting Unit</u> 6 LEDs <u>Cutting unit length</u> 83.3mm | R: 33 lm/m G: 127 lm/m B: 20 lm/m W: 163 lm/m RGBW: 331 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: 13 lm/m G: 150 lm/m B: 24 lm/m W: 200 lm/m RGBW: 480 lm/m | |
| | RGBW (4000K) | | | | R: 46 lm/m G: 159 lm/m B: 26 lm/m W: 215 lm/m RGBW: 350 lm/m | |
| | RGBW (5000K) | | | | R: 36 lm/m G: 135 lm/m B: 23 lm/m W: 191 lm/m RGBW: 376 lm/m | |

S5 Variant Customisation (Vertical – 16.5mmx16.5mm - 210°)



| PN | Variant | Protocol | Voltage | LED Type | LED Density [LEDs/m] | Length [mm] [Customisable] | | | Connector Style [Customisable] | Connector Config [Customisable] | Lead in Length [mm] [Customisable] | Lead Out Length [mm] [Customisable] |
|-------|---------|---|---------|--|----------------------|----------------------------|-------------------------------|--|--|--|---|---|
| 73060 | S5 | DMX | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 12,800* | 3 Options Direct Side Bottom | 2 Options SM <i>(Male Connector In, sealed end cap)</i> SFM <i>(Male connector In, Female Connector Out.)</i> | Min: 200 Increment: 10 Max: 2,000 | Min: 200 Increment: 10 Max: 2,000 |
| | | SPI | 24V | 4 Options RGBW (2700K) RGBW (3000K) RGBW (4000K) RGBW (5000K) | 70 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |
| | | NA1 (Non-Addressing Single-Colour) <i>White (W), Red (R), Green (G), Blue (B)</i> | 24V | 11 Options W (2200K) W (2700K) W (3000K) W (3500K) W (4000K) W (4500K) W (5000K) W (6500K) R G B | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA2 (Non-Addressing Tuneable White) <i>Duo White – Option + 5700K</i> | 24V | 3 Options WW (2200K) WW (2700K) WW (3000K) | 120 | <u>Min</u> 300 | <u>Increment Step</u> 100 | <u>Max</u> (Single) 10,000 (Double) 20,000 | | | | |
| | | NA3 (Non-Addressing RGBW) | 24V | 4 Options W (2700K) W (3000K) W (4000K) W (5000K) | 72 | <u>Min</u> 300 | <u>Increment Step</u> 83.3 | <u>Max</u> (Single) 8,000 (Double) 16,000 | | | | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S5 - DMX (Auto-Addressing DMX)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|----------|--------------|---------------|-------------------|---|--|---|
| DMX | RGBW (2700K) | 24V | 18W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: 86 lm/m G: 266 lm/m B: 46 lm/m W: 293 lm/m RGBW: 677 lm/m | Single Feed: 8mtr Double Feed: 12.8mtr |
| | RGBW (3000K) | | | | R: 74 lm/m G: 257 lm/m B: 52 lm/m W: 284 lm/m RGBW: 678 lm/m | |
| | RGBW (4000K) | | | | R: 62 lm/m G: 234 lm/m B: 42 lm/m W: 270 lm/m RGBW: 619 lm/m | |
| | RGBW (5000K) | | | | R: 65 lm/m G: 232 lm/m B: 42 lm/m W: 267 lm/m RGBW: 584 lm/m | |

* The DMX Neon Flex maximum run length is 12.8M, following the standard of one DMX universe data per port.

S5 - SPI (Auto-Addressing SPI)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length* |
|------------------|--------------|---------------|-------------------|---|--|---|
| SPI (UCS8904) | RGBW (2700K) | 24V | 18 W/m | <u>LED Count</u> 70 LEDs/m <u>Cutting Unit</u> 7 LEDs <u>Cutting unit length</u> 100mm | R: - 80 lm/m G: - 260 lm/m B: - 50 lm/m W: - 290 lm/m RGBW: - 650 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: - 84 lm/m G: - 264 lm/m B: - 52 lm/m W: - 302 lm/m RGBW: - 670 lm/m | |
| | RGBW (4000K) | | | | R: - 80 lm/m G: - 274 lm/m B: - 48 lm/m W: - 323 lm/m RGBW: - 681 lm/m | |
| | RGBW (5000K) | | | | R: - 82 lm/m G: - 270 lm/m B: - 50 lm/m W: - 320 lm/m RGBW: - 680 lm/m | |

S5 - NA1 (Non-Addressing Single-Colour)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|---|------------|---------------|-------------------|--------------------------------|----------|--|
| NA1 <i>White (W), Red (R), Green (G), Blue (B)</i> | W (2200K) | 24V | 10W/m | <u>LED Count</u> 120 LEDs/m | 600 lm/m | Single Feed: 10mtr Double Feed: 20mtr |
| | W (2700K) | | | | 600 lm/m | |
| | W (3000K) | | | | 610 lm/m | |
| | W (3500K) | | | | 610 lm/m | |
| | W (4000K) | | | | 630 lm/m | |
| | W (4500K) | | | | 630 lm/m | |
| | W (5000K) | | | | 650 lm/m | |
| | W (6500K) | | | | 650 lm/m | |
| | R | | | | 180 lm/m | |
| | G | | | | 440 lm/m | |
| | B | | | | 85 lm/m | |

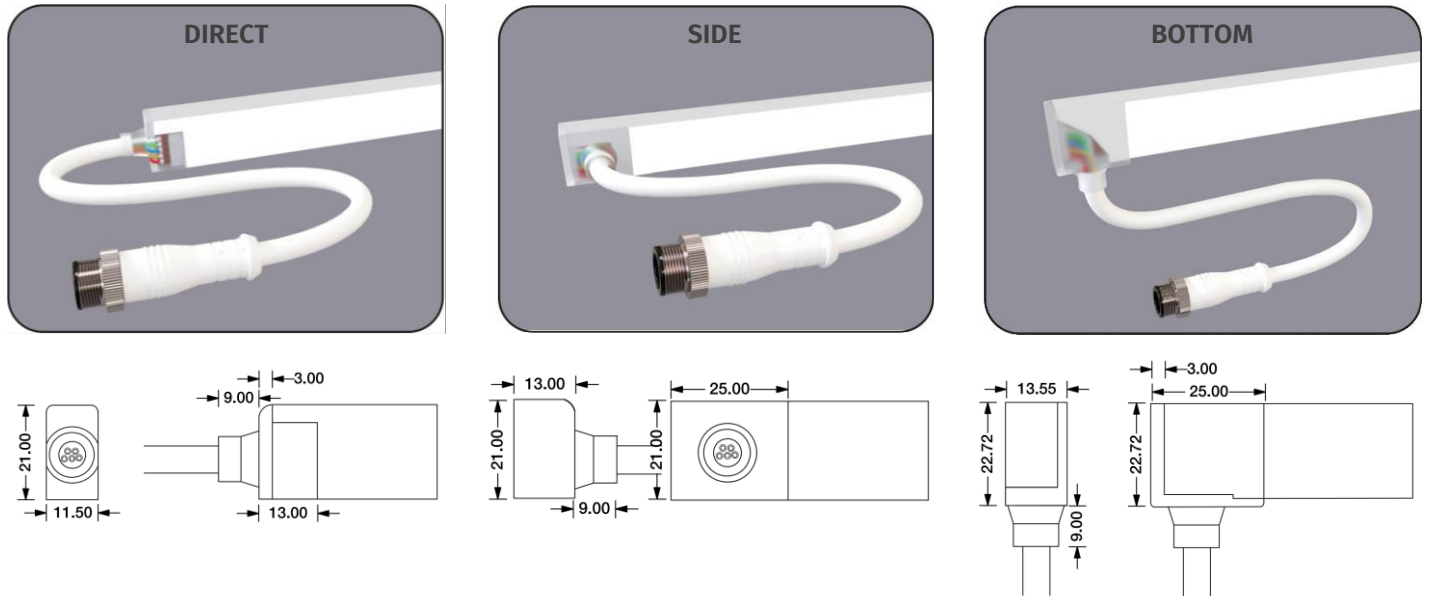
S5 - NA2 (Non-Addressing Tuneable White)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|--|---------------|---------------|-------------------|--------------------------------|--------------------------------------|--|
| NA2 <i>Duo White – Option + 5700K</i> | 2200K – 5700K | 24V | 12W/m | <u>LED Count</u> 120 LEDs/m | 290 lm/m (2200K) 400 lm/m (5700K) | Single Feed: 10mtr Double Feed: 20mtr |
| | 2700K – 5700K | | | | 310 lm/m (2700K) 400 lm/m (5700K) | |
| | 3000K – 5700K | | | | 310 lm/m (3000K) 400 lm/m (5700K) | |

S5 - NA3 (Non-Addressing RGBW)

| Protocol | Colour/CCT | Input Voltage | Power Consumption | LEDs | Lumens/m | Max Length |
|----------|--------------|---------------|-------------------|-------------------------------|--|---|
| NA3 | RGBW (2700K) | 24V | 17 W/m | <u>LED Count</u> 72 LEDs/m | R: 69 lm/m G: 264 lm/m B: 45 lm/m W: 336 lm/m RGBW: 690 lm/m | Single Feed: 8mtr Double Feed: 16mtr |
| | RGBW (3000K) | | | | R: 64 lm/m G: 269 lm/m B: 52 lm/m W: 332 lm/m RGBW: 449 lm/m | |
| | RGBW (4000K) | | | | R: 66 lm/m G: 286 lm/m B: 50 lm/m W: 393 lm/m RGBW: 765 lm/m | |
| | RGBW (5000K) | | | | R: 65 lm/m G: 259 lm/m B: 46 lm/m W: 363 lm/m RGBW: 707 lm/m | |

CONNECTOR STYLE

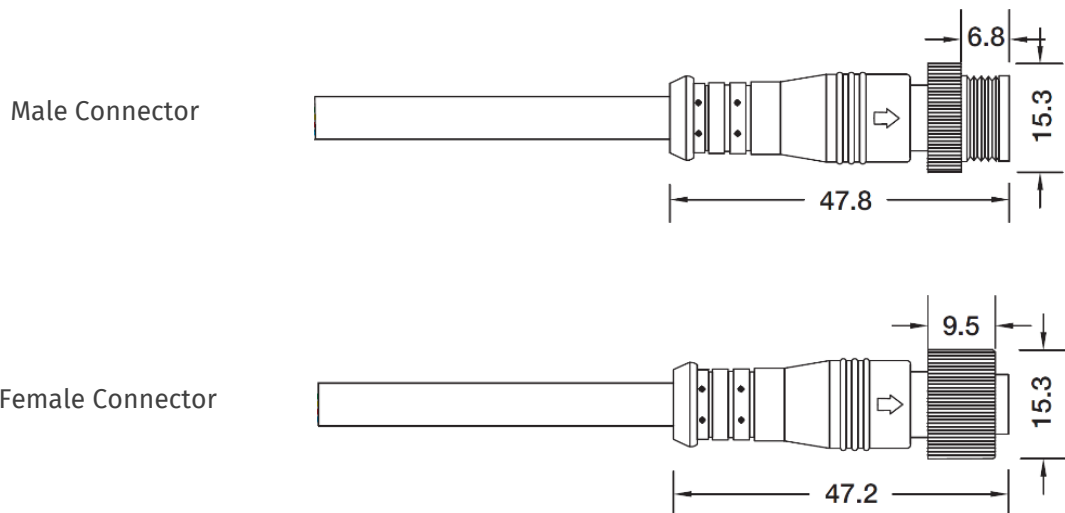


CONNECTOR CONFIGURATION

The male and female waterproof connector is manufactured using a two-layer injection moulding process, incorporating high viscosity TPU and high-density nylon materials. When securely fastened with the stainless-steel locking ring, it offers outstanding reliability and waterproof performance, achieving an IP68 rating.

Choose between the 2 options for the Connector Configuration:

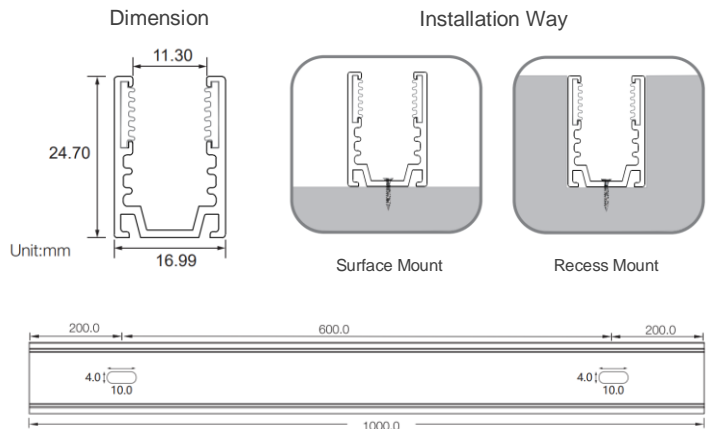
- **SM:** Male connector in and end cap sealed in the other end.
- **SFM:** Male connector in and female connector out.



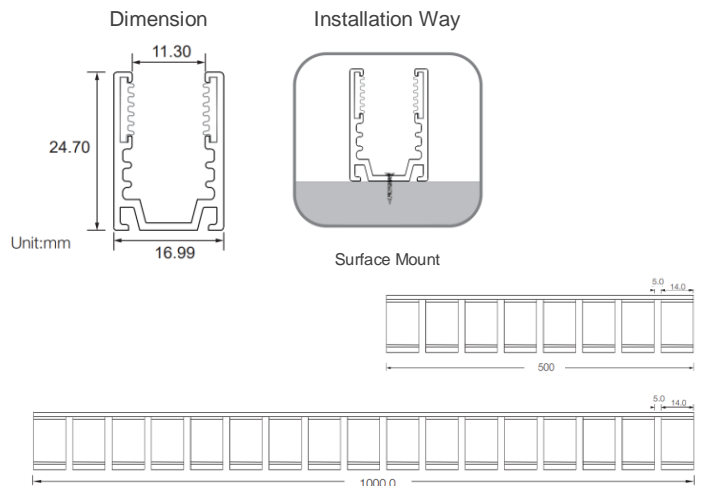
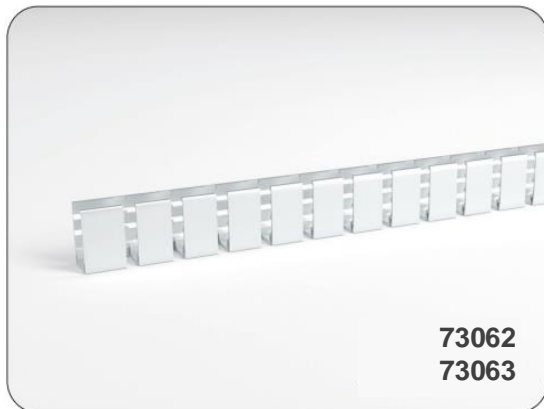
MOUNTING OPTIONS

| PN | Suitable Variant | Style | W x H (mm) | Standard Length (mm) | Screw Holes size (mm) | Holes Numbers |
|-------|------------------|-----------------|---------------|----------------------|-----------------------|---------------|
| 73061 | S1 & S3 | Straight Linear | 16.99 x 24.70 | 1000 | 4 | 2 |
| 73062 | | Curved | | 500 | - | - |
| 73063 | | | | 1000 | | |
| 73072 | S2 & S4 | Straight Linear | 22.00 x 20.80 | 1000 | 4 | 2 |
| 73073 | | Curved | | | - | - |
| 73074 | S5 | Straight Linear | 23.53 x 22.90 | 1000 | 4 | 2 |
| 73075 | | - | 23.30 x 28.70 | 30 | 4.4 | 2 |

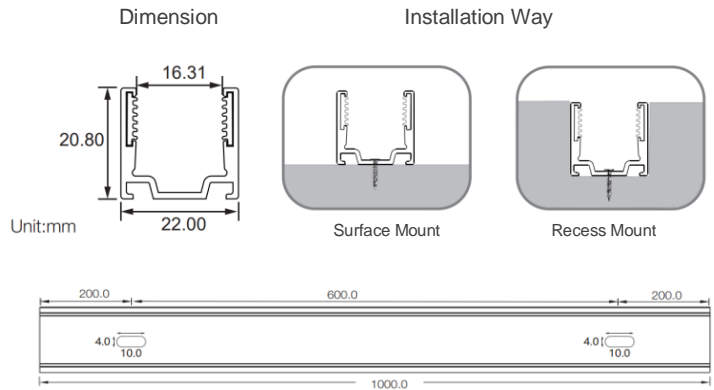
73061 – Aluminium Straight Linear for S1 & S3



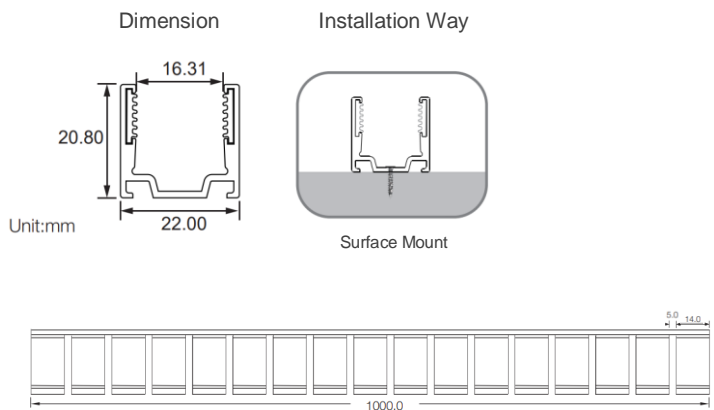
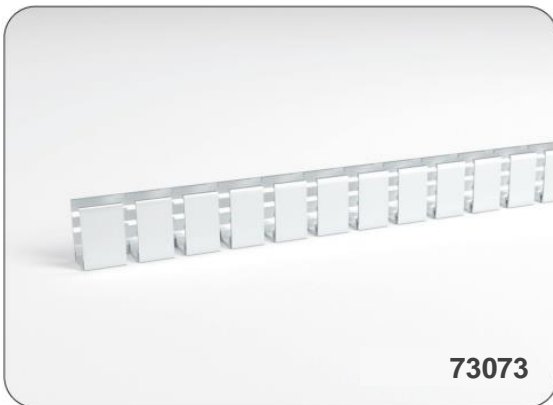
73062/73063 – Aluminium Curved for S1 & S3



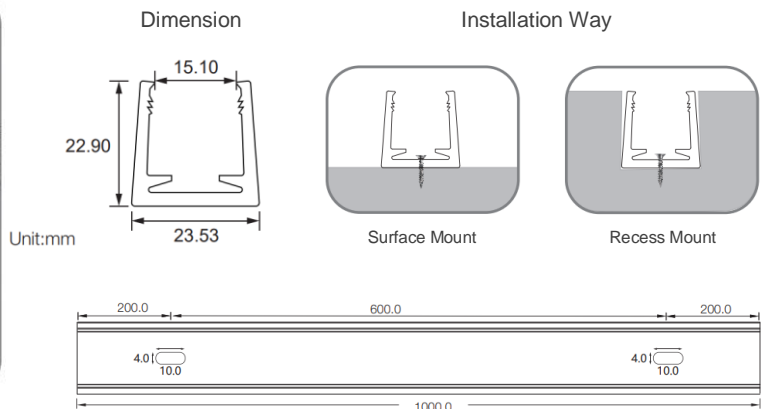
73072 – Aluminium Straight Linear for S2 & S4



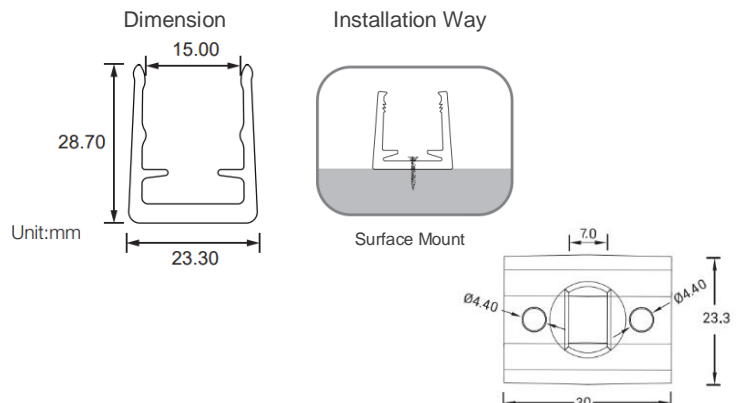
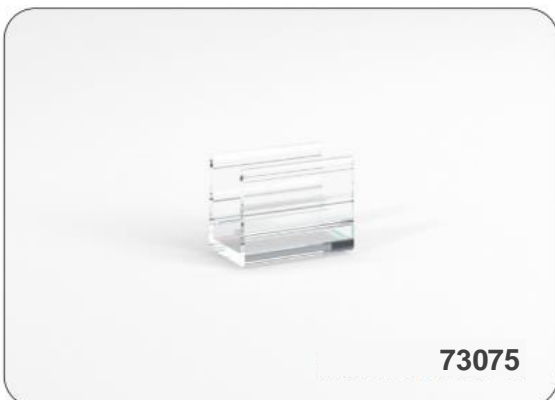
73073 – Aluminium Straight Linear for S2 & S4



73074 – Plastic Straight Linear for S5



73075 – Plastic Flexible Mounting Unit for S5



ACCESSORIES

| PN | Suitable Protocol | Product | Description | Standard Length (mm) |
|-------|-------------------------------|------------------------------------|--|----------------------|
| 73064 | SPI & NA2 (Tuneable White) | 3Pin - Power Injector Connector | 3-Pin bare wire to female and male connection (1 to 2) | 380mm |
| 73065 | | 3Pin - Male Connector with Cable | 3-Pin Male connector to bare wire input. (1 to 1) | 2000mm |
| 73066 | | 3Pin - Female Connector with Cable | 3-Pin Female connector to bare wire input. (1 to 1) | |
| 73067 | | 3Pin - Extension Cable | 3-Pin Extension Cable with Male & Female Connector | |
| 73068 | DMX & NA3 (RGBW) | 5Pin - Power Injector Connector | 5-pin bare wire to female and male connection (1 to 2) | 380mm |
| 73069 | | 5Pin - Male Connector with Cable | 5-Pin Male connector to bare wire input. (1 to 1) | 2000mm |
| 73070 | | 5Pin - Female Connector with Cable | 5-Pin Female connector to bare wire input. (1 to 1) | |
| 73071 | | 5Pin - Extension cable | 5-Pin Extension Cable with Male & Female Connector | |
| 73076 | NA1 (Single colour) | 2Pin - Power Injector Connector | 2-Pin bare wire to female and male connection (1 to 2) | 380mm |
| 73077 | | 2Pin - Male Connector with Cable | 2-Pin Male connector to bare wire input. (1 to 1) | 2000mm |
| 73078 | | 2Pin - Female Connector with Cable | 2-Pin Female connector to bare wire input. (1 to 1) | |
| 73079 | | 2Pin - Extension cable | 2-Pin Extension Cable with Male & Female Connector | |



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Due to constant innovation, information within this document is subject to change.