LED RIBBON _ NANO RANGE COB

| DESCRIPTION | Nano COB LED Ribbon |
|-----------------|-----------------------------|
| CODES | 6001_NR |
| COLOUR TEMP | 2700K, 3000K & 4000K |
| CRI | ≥90 |
| WATTAGE/LUMENS | 7W - 560Lm/m |
| EFFICACY | 80Lm/W |
| FIXTURE VOLTAGE | 24V DC Constant Voltage |
| DIMMING | Based On Driver Selection |
| DRIVER | Remote Driver Required |
| DRIVER OPTIONS | Non-Dim, Phase, Touch, DALI |
| IP RATING | IP20 |
| | |



+24V DC -24V DC Notes: All data stipulated are nominal values based on 2700K with accuracy of +/- 5%. Standard length 5000mm. ISOmm cables/tails provided on both ends. Maximum length on one power feed is 5000mm. When used with the correct profile, the light will be fully diffused, "dot free".



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СОВ

MANUFACTURING OPTIONS

| FIXTURE | | | | DRIVER |
|---------|--------------------|-------------------|------------------|----------------|
| CODE | WATTAGE | ССТ | IP | DIMMING |
| 6001_NR | COB - 7W per meter | 27 - 2700K | 20 - IP20 | ND - Non-Dim |
| | | 30 - 3000K | | PH - Phase Dim |
| | | 40 - 4000K | | TH - Touch Dim |
| | | | | DA - DALI |

Example Code: 6001_NR_COB_27_20_DA

Notes: Phase dimmable drivers are not recommended for 24V DC fixtures due to possible flickering, but can be provided upon request.

EXTRUSION OPTIONS

NANO RANGE



6101_NC Nano Corner



6101_NR Nano Recessed



6101 NS Nano Surface

Notes: Please refer to each specific extrusion's data sheet for detailed specifications. When using Nano range LED ribbon in the above extrusions, the light will be fully diffused "dot free".

WIRING INFORMATION

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- Multiple 24V DC fixtures can be connected to a single driver in parallel only. The total connected load of a circuit should not exceed the maximum driver load rating. We recommend running drivers at 80% of their maximum load rating to ensure heat and output performance are maximized. The required DC cable size should be calculated based on the connected load, cable length, voltage and allowable voltage drop percentage. Maximum Amp rating of the selected cable should be considered based total connected load. We recommend using a twin Sheath Automotive cable with a high strand count where applicable. Please note that industry standard sizes do not match actual cable considered load in Watte and their ascoriated maximum cable lengths in meter, based on a allowable • • The Below table illustrates typical cable sizes in mm², connected loads in Watts and their associated maximum cable lengths in meter, based on a allowable voltage drop of 5%.

| | 0.50 mm ² | 0.75 mm ² | 1.00 mm ² | 1.50 mm ² | 2.50 mm ² | 4.00 mm ² | 6.00 mm ² | 10.00 mm ² |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| 10W | 36m | 55m | 73m | 108m | 180m | 290m | 436m | 753m |
| 20W | 18m | 27m | 36m | 54m | 90m | 145m | 218m | 376m |
| 30W | 12m | 18m | 24m | 36m | 60m | 96m | 145m | 251m |
| 40W | 9m | 13m | 18m | 27m | 45m | 72m | 109m | 188m |
| 50W | 7m | 11m | 14m | 21m | 36m | 58m | 87m | 150m |
| 60W | 6m | 9m | 12m | 18m | 30m | 48m | 72m | 125m |
| 70W | 5m | 7m | 10m | 15m | 25m | 41m | 62m | 107m |
| 80W | 4m | 6m | 9m | 13m | 22m | 36m | 54m | 94m |
| 90W | 4m | 6m | 8m | 12m | 20m | 32m | 48m | 83m |
| 100W | 3m | 5m | 7m | 10m | 18m | 29m | 43m | 75m |
| 110W | 3m | 5m | 6m | 9m | 16m | 26m | 39m | 68m |
| 120W | 3m | 4m | 6m | 9m | 15m | 24m | 36m | 62m |
| 130W | 2m | 4m | 5m | 8m | 13m | 22m | 33m | 57m |
| 140W | 2m | 3m | 5m | 7m | 12m | 20m | 31m | 53m |
| 150W | 2m | 3m | 4m | 7m | 12m | 19m | 29m | 50m |
| 160W | 2m | 3m | 4m | 6m | 11m | 18m | 27m | 47m |
| 170W | 2m | 3m | 4m | 6m | 10m | 17m | 25m | 44m |
| 180W | 2m | 3m | 4m | 6m | 10m | 16m | 24m | 41m |
| 190W | 1m | 2m | 3m | 5m | 9m | 15m | 22m | 39m |
| 200W | | 2m | 3m | 5m | 9m | 14m | 21m | 37m |

The Below table illustrates typical Industry cable sizes/names and their exact cross section area (CSA) sizes in mm², connected loads in Watts and their associated maximum cable lengths in meter, based on a allowable voltage drop of 5%.

| | 2.0 mm | 3.0 mm | 4.0 mm | 5.0 mm | 6.0 mm | 8 B&S | 6 B&S | Industry Size/Name |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|------------------------|
| | 0.56 mm ² | 1.13 mm ² | 1.84 mm ² | 2.90 mm ² | 4.59 mm ² | 7.71 mm ² | 13.50 mm ² | Cross Section Area (CS |
| 10W | 32m | 91m | 151m | 240m | 378m | 600m | 1028m | |
| 20W | 16m | 45m | 75m | 120m | 189m | 300m | 514m | |
| 30W | 10m | 30m | 50m | 80m | 126m | 200m | 342m | |
| 40W | 8m | 22m | 37m | 60m | 94m | 150m | 257m | |
| 50W | 6m | 18m | 30m | 48m | 75m | 120m | 205m | |
| 60W | 5m | 15m | 25m | 40m | 63m | 100m | 171m | |
| 70W | 4m | 13m | 21m | 34m | 54m | 85m | 146m | |
| 80W | 4m | 11m | 18m | 30m | 47m | 75m | 128m | |
| 90W | 3m | 10m | 16m | 26m | 42m | 66m | 114m | |
| 100W | 3m | 9m | 15m | 24m | 37m | 60m | 102m | |
| 110W | 2m | 8m | 13m | 21m | 34m | 54m | 93m | |
| 120W | 2m | 7m | 12m | 20m | 31m | 50m | 85m | |
| 130W | 2m | 7m | 11m | 18m | 29m | 46m | 79m | |
| 140W | 2m | 6m | 10m | 17m | 27m | 42m | 73m | |
| 150W | 2m | 6m | 10m | 16m | 25m | 40m | 68m | 1 |
| 160W | 2m | 5m | 9m | 15m | 23m | 37m | 64m | 1 |
| 170W | 1m | 5m | 8m | 14m | 22m | 35m | 60m | 1 |
| 180W | 1m | 5m | 8m | 13m | 21m | 33m | 57m | 1 |
| 190W | 1m | 4m | 7m | 12m | 19m | 31m | 54m | 1 |
| 200W | | 4m | 7m | 12m | 18m | 30m | 51m | 1 |

If more specific calculations are required, please refer to the below link:

https://tovolighting.com.au/cable-calculator