

# Helliflex WW

**Bild:**



**Item number:** 28.03.xxxx.2.WW.IP65

**Brief description:** flexible LED encapsulated in silicone for self-shortening Fig.1 (p.3)

## **Article data:**

Mounting technique: recessed mounting  
Mounting with clips possible  
Outer diameter: 24x20 mm (W\* H)  
Material: silicone casting compound cloudy  
Protection class: IP65  
Protection class: III

## **Betriebstechnik LED:**

LED: Modul PLCC2835  
Power: 14,4 W /LFM  
LEDS interface: 50 mm  
Lumen: 1400 Lumen/ LFM  
Colour: 2.700 Kelvin  
Colour rendering: CRI 90 RA  
Beam angle: 120°  
Temperatur: -20°C - +60°C  
Protection class: IP65  
Voltage: 24V  
Cable length: 4.000mm Cable outlet on the side with round plug and with a heat shrink tube strain relief

### **Potting compound:**

**Material:** addition-curing silicone compound.  
Especially suitable for potting sensitive electronic components  
Non-yellowing

### **Cured elastomer (after 7 days at 23+/-2°C and 50+/-5% relative humidity)**

CTE Linear ppm/°C: 267 ppm/°C  
CTE Volumetric ppm/°C: 801 ppm/°C  
Colour: Translucent  
Hardness Shore A: ASTM D 2240-95 28  
Elongation %: ISO 37 746 %.  
FDA: CFR [21] 177.2600 No  
Linear shrinkage %: 0.06 %.  
Max. Working temp + °C: AFS\_1540B 200 °C  
Min. working temp - °C: -60 °C  
Modulus Youngs MPa: 0.62 MPa  
SG: BS ISO 2781 1.12  
Tensile kN/m: BS ISO 34-1 31 kN/m  
Tensile MPa: ISO 37 5.06 MPa

### **Cable data:**

Conductor material: Tinned stranded copper wire  
Conductor class: according to IEC 60228 cl. 5  
Core insulation material: Silicone  
Core identification: up to 5 cores according to DIN VDE 0293-308 coloured cores  
Stranding: cores stranded in layers  
Outer sheath material: silicone  
Colour of sheath: reddish brown  
rated voltage: U<sub>0</sub>/U: 300/500 V  
Test voltage: 2kV  
Conductor resistance: at +20 °C according to IEC 60228 cl. 5  
Insulation resistance: min. 2.0 GΩ x km  
Smallest bending radius fixed: 4 x d  
Smallest bending radius, moving: 15 x d  
Operating temp. fixed min/max: -60 °C / +180 °C; short-term: +200 °C  
Temperature at conductor max. +180 °C  
Halogen-free: according to IEC 60754-1  
Corrosion: according to IEC 60754-2  
Fire behaviour: self-extinguishing and flame-retardant according to IEC 60332-1-2

**Customs tariff number:** 94054039

**note:** maximum 3.000 mm  
dimmable

**weight specification:**

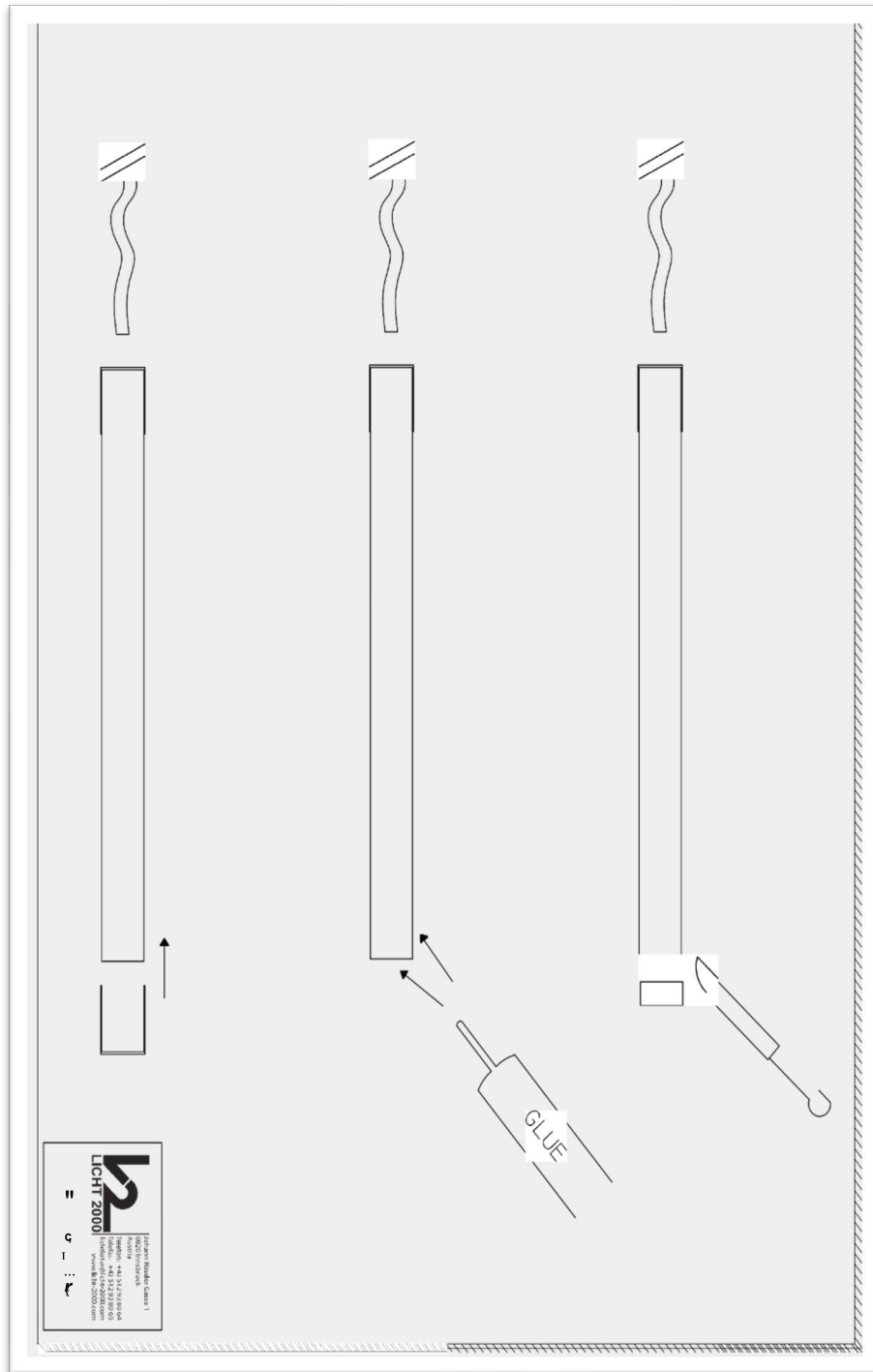
0,5 Lfm	500g
1,0 Lfm	1000g
1,5 Lfm	1500g
2,0 Lfm	2000g
2,5 Lfm	2500g
3,0 Lfm	3000g

**Packaging note:** An end cap is supplied with each Helliflex.

**Disposal:** The product must not be disposed of with household waste. You are obliged to dispose of such waste electrical equipment separately. Please contact your local authority for information on the possibilities of regulated disposal. By disposing of WEEE separately, you are sending it for recycling or other forms of reuse. By doing so, you help to prevent the release of potentially harmful substances into the environment.

**note:** Due to the complex manufacturing process of light-emitting diodes the typical values given for the technical LED parameters are purely statistical and do not necessarily correspond to the actual the actual technical parameters of each individual product, which may deviate from the typical value.

FIG.1



**Note:** On our homepage you will find an installation video for the correct shortening and installation of the flexible LED versions.