

# HALO

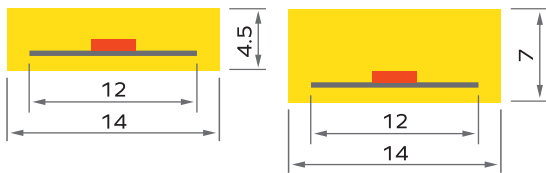


## HALO - EXPLOSION PROOF

The original premium quality **HALO LED** strip lighting developed in the year 2010, with all its unique and incredible groundbreaking features that allows it to thrive in one of the harshest working conditions known to man, has now received even more cutting-edge design and engineering upgrades further elevating it to international explosion proof status, and has been duly named as the **HALO EXPLOSION PROOF™** range.

The **HALO EXPLOSION PROOF™** LED strip lighting range is considered by professionals as a technological masterpiece and is certified as 'safe and suitable' for use in underground mines and environments susceptible to highly flammable gases and furthermore carries a "high" level of protection status due to its **TOUGH-TECH™** upgrades.

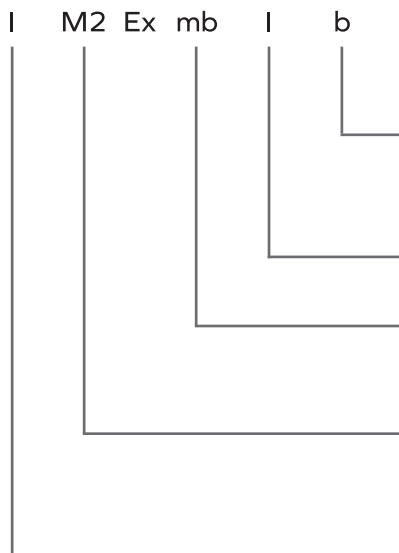
This **TOUGH-TECH™** upgrade includes increasing the silicon encapsulation diameter to almost double the diameter of the standard HALO LED strip lighting range, dramatically increasing the impact resistance to unbelievable levels of IK08. Other **TOUGH-TECH™** features incorporate larger diameter conductors complete with reinforced internal welded connections, all carried out with surgical precision & craftsmanship.



The **HALO EXPLOSION PROOF™** LED strip lighting range has received accreditation from numerous international oversight institutions confirming full compliance with IEC, CENELEC and NEC main international certification standards, and carries certifications compliant with the South African standards SANS, European standards ATEX, and Australasian standards namely IECEX with these certifications recognised worldwide including in USA, South America, Africa, Europe, Australia, New Zealand, Asia, and neighbouring countries.



### Ex Rating:



#### Equipment Protection Level (EPL): Mb

The equipment is for installation in a mine susceptible to firedamp, having a "high" Level of Protection, which has sufficient security that it is unlikely to become an ignition source of ignition in normal operation or during expected malfunctions in the time span between there being an outbreak of gas and the equipment being de-energized

#### Equipment group I

Intended for use in mines susceptible to firedamp.

#### Level of protection "mb"

The equipment is protected by encapsulation

#### Equipment category M2

Equipment category M2 comprises equipment designed and, where necessary, equipped with additional special means of protection to be capable of functioning in conformity with the operational parameters established by the manufacturer and ensuring a high level of protection.

#### Equipment group I

Equipment intended for use in underground parts of mines and in those parts of surface installations of such mines, liable to be endangered by firedamp and/or combustible dust.

## UPGRADES

The HALO LED strip lighting ranges that have been upgraded into explosion proof status includes:

- HALO1-ALPHA-230VAC • HALO1-ALPHA-110VAC • HALO2-ALPHA-24VDC
  - HALO2-ALPHA-36VDC • HALO ULTRA LONG-DISTANCE -230VAC
- HALO ULTRA LONG-DISTANCE - 110VAC • HALO ULTRA LONG-DISTANCE - 24VDC
  - HALO ULTRA LONG-DISTANCE - 48VDC

Optional upgrades for the **HALO EXPLOSION PROOF™** includes:

**REFLECT-TECH™** - Maximise your lumen efficiency and cut all lumen losses with **HALO REFLECT-TEC™**, the revolutionary new innovation, which has deemed HALO as the most efficient LED strip lighting system in the world. This ingenious upgrade, incorporates cutting edge reflective technologies, meticulously engineered to cover the entire PCB LED base, thereby reflecting all previously lost lumen output, into the main body of lighting.

This unique cutting edge **HALO EXPLOSION PROOF™** lighting system, is not classified simply as a 'luminaire', but rather as an 'illumination instrument', due to the pioneering trade secret technologies implemented in the designs which is far advanced to all other LED strip lighting, enabling the highest performing products, in the harshest of environments, for the longest durations; this includes not only 'general' explosive environments, but explosive environments of extreme heat, extreme cold, underwater, underground, corrosive environments, & anywhere where most other lighting systems fail, HALO thrives.

**HALO EXPLOSION PROOF** comes in pre-prepared lengths at your discretion, whether it be 1 meter or 100 meters or more, each with factory installed IP68 waterproof connectors fitted on specialized 'halogen free cabling', in our original 'plug & play' configuration, to enable efficient & effortless assembly on site.

### 10 YEAR WARRANTY - Double for your trouble

**HALO** products have a proven lifespan exceeding 10 years, with **HALO EX** carrying a full **10-year warranty**, this warranty is backed up with a '**Double for your trouble**' replacement policy for the first **5 years**, which means that we replace double the quantity of any product failures as quickly and as efficiently as possible.

### OPERATING TEMPERATURES:

-20 Degree Celsius -4 Fahrenheit // +40 Degree Celsius +104 Fahrenheit

### FEATURES

- Highest Lumen Output • Highest Quality • IP68 Waterproof
- Dust Repellent • Extreme Impact Resistance • Ultra High Tensile Strength
  - Plug & Play • 24-hour 365 day continuous on capability
  - 5-year warranty - Double for your Trouble

### CERTIFICATIONS

IECEX / ATEX / SAA / FCC / RCM / ETL / CE ROHS / Fire Resistant /  
Zero toxicity / Anti-Static / ISO9001:2015

