ROADWAY LIGHTING FOR COAL MINES

PRODUCT BROCHURE

Ampcontrol mine roadway lighting is a long life, resilient and easily customisable solution, featuring the Burn Brite AlphaLite Max.

Being non-voltage dependent the AlphaLite Max allows power sources up to 1000 meters apart with no additional supporting electrical infrastructure, making it ideal for roadway lighting applications. The wiring system, from the power supply to the end of the light string, is fully integrated from light to light, with phase rotation being achieved along the full length of the light string keeping the system balanced.

- 18W or 36W fittings
- Polycarbonate outercase
- Excellent impact strength
- Low mass ideal for fixing to ribbed roofs or a single wire catenary
- Factory fitted with cable, plugs and sockets
- Optional maintained emergency power supply (2 hours)

The LED AlphaLite Max is available in 18W and 36W versions, producing equivalent light to a single 36W and 2x36W fluorescent lamps respectively.

The robust light features a heavy duty polycarbonate outercase with excellent impact strength and the moulded endcaps secure the enclosure with an IP66 seal. The non-metallic external materials are corrosion resistant and UV protected. The low mass is ideal for simple fixing to ribbed roofs or a single wire catenary.

AlphaLite Max for roadways are factory fitted with cable, plugs and sockets. Cables can be chosen from 2 or 3 core for single or three phase circuits with or without outer screens for EMC minimisation. Fixed cable lengths will ensure lights are spaced to meet desired illuminance levels. Plugs and sockets are selected to meet the number of conductors and ingress protection. Additionally, AlphaLite Max lights can be optioned with maintained emergency packs and colour filters. Emergency luminaires contain batteries and inverters which allow operation, at reduced brightness, for up to 2 hours when mains supply fails and can be placed at regular intervals to allow safe egress.

These emergency luminaires are compliant with AS/NZS 2293. A number of AlphaLite Max can be connected in one string, either hardwired or with plugs and sockets, specifically designed for illuminating a tunnel or drift. Although the current required by each light is low (80mA for 18W at 240V), the total length of the circuit is limited by the fault current of the circuit. We recommend a maximum of 100m for a 240V single phase circuit comprising 20 off lights with 5m spacing. Up to 500m can be achieved with a 240V 3 phase circuit.