



## Maser Cable News

### Power Station Lights the LED Way

Maser Communications has recently finalised an agreement with one of NSW's largest power stations to supply LEDpak and SafeSite industrial LED lighting fixtures, manufactured by Dialight, to fit out their power station on a progressive basis for all future general area and task lighting applications.

Earlier this year, the plant undertook a trial to determine whether LED fixtures were a viable, cost effective alternative to the on-going issues with their incumbent lighting solution. In consultation with Maser, several areas of the plant were selected and the LEDpak and SafeSite series were deployed into the field alongside traditional light fittings.

"To say the customer was blown away by our light's performance is an under-statement" says Maser Communications General Manager, Matt Young. "The power station facility management team was understandably impressed with the obvious benefits associated with LED lighting - a significant reduction in operating and maintenance costs, a resistance to the day-to-day shocks and vibrations lighting fittings encounter at the power station and the instant full brightness when the lights are switched on. But the improvement in light quality over the existing lighting was the major benefit that the customer was really impressed with. The rugged solid-state design of these LED fixtures creates a new era where failed lamps and expensive re-lamping costs will become a thing of the past."

The LEDpak series is being installed as an equivalent or better alternative to general area dual 36 W fluorescent light fittings for walkways, gantries, workshops and storerooms, while the LEDbright and SafeSite series are being supplied in 150 and 250 W variants for specific task, worksite and access illumination.

The fittings were also chosen for a number of operational issues that presented the power station maintenance staff with several benefits. With an average life of 100,000 hours which, equates to 10 years of continuous operation on a 24-hour duty cycle at the power station, the lamps reduce the frequency of re-lamping and maintenance inspections, resulting in lower costs in staff and elevated work platforms, along with reduced OHS risks.

The double IP67-rated and vandal-proof enclosure enabled the fitting to be installed in areas constantly exposed to severe shock, vibration, heat, humidity and salt air. The staff were also able to wash down the fittings with high pressure water and air without any risk of water or dust ingress.

Instant 'on' functionality also ensured that there are no warm-up times incurred in the event of power failure, typically experienced with the fluorescent lights that could have posed a safety risk.

The IP66-rated SafeSite LED lighting fixtures were deployed in hazardous locations to replace the existing 75 to 250 W HID light sources. Their design enables them to be installed on walls, stanchions and pendent mounts with 20 and 25 mm conduit entrances and an internal splice box for retrofitting with the existing wiring. The fixtures provided better quality light, higher fixture efficiency and greater energy efficiency than the HID lamps they replaced.

For more information, please contact Maser on 1300 130 722 or email at [sales-cable@maser.com.au](mailto:sales-cable@maser.com.au)



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**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

**Dekoron**  
Wire & Cable, Inc.

THE QUALITY CONNECTION  
**LEONI**  
Wire • Cable • Wiring Systems

**KERPEN**  
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**Dialight**

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# Maser Cable News

## Cable Sheaths to Protect Against Aggressive Chemicals

**Dekoron is promoting a range of cables which can be furnished with 'armour', protecting them from harsh environments in the oil and gas industry.**

The cable sheaths or 'armour' were designed to answer the problem of the permeability of existing plastic cable sheaths on the market due to humidity and aggressive chemicals.

"Penetration of these elements to the core of the cable compromise its overall lifetime performance. A conventional cable core protection against above mentioned elements is generally achieved by applying a lead sheath," said the company.

Dekoron's DEKABON's cable constructions can be furnished with armouring options including served wire armour and interlock armour for additional physical protection.

The DEKABON technology is scalable and has been applied to instrument, control and thermocouple extension cables, says the company, also claiming that the technology has already been used by all major oil companies in their refineries and petrochemical facilities for over 25 years.

The technology is now available locally for the oil refining and petrochemical industry.

Dekoron's cables are distributed in Australia and New Zealand by Maser Communications.



***"If it's not from Maser, its not DEKORON"***

## Belden PROFIBUS Cables for Field Applications

PROFIBUS is one of the largest open industrial fieldbuses in the world. As with most fieldbus systems, PROFIBUS can reduce operating costs, increase productivity, decrease time to market for new products and improve product quality. Unlike standard 4-20Ma controls, PROFIBUS can support up to 32 devices per segment – up to a total of 126 devices, depending on total system current.

Using shielded twisted pair cable, the PROFIBUS topologies utilized in the industrial environment include the following configurations: line, tree and star (and combinations of these topologies). The network can support up to 126 nodes by using repeaters (limited to 9). Standard connections are made through use of a 9-pin D-Subminiature connector. Transmission speeds are selectable starting at 9.6kbs.

The PROFIBUS protocol applies to all applications; however it can be combined with industry-specific application profiles and relevant transmission technology to meet differing factory floor requirements. Applications-specific profiles include:

- PROFIBUS DP – optimised for factory automation
- PROFIBUS PA – optimised for process automations
- PROFIsafe – PROFIBUS for safety-related systems
- PROFIdrive – PROFIBUS for motion control

Available from Maser Communications, Belden's cable for PROFIBUS DP which is in accordance with the PROFIBUS specifications - Product No. 3079A, is a 150-ohm twinax cable that matches the impedance of the factory automation system, allowing for maximum signal transmission. The cable incorporates an overall Beldfoil® shield plus a 65% tinned copper braid for maximum shielding effectiveness. It also carries a UL NEC Type PLTC listing to achieve maximum installation versatility.

Maser also offers 3706F from Belden, a cable made to the ISA/SP-50 Type A fieldbus specifications for PROFIBUS PA application. It is an 18 AWG stranded foil shielded, twisted pair cable with an intrinsically safe, blue PVC jacket.

As always with Belden industrial cables, there are special jacket compounds, colouring and armoring options to fit your exact application requirements.

For further information contact the Maser Sales team.

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