



Maser Group News

About Us

Established in 1983, the Maser Group has grown into a multi-national company with offices in Australia, New Zealand, UK and France.

Maser Australia is a diversified provider of specialised communications solutions including broadcast, Test and Measurement, RF Transmission, industrial cable and defence.



Current Projects—NZ

Automated Fare Collection Program

In conjunction with a national company providing traffic solutions and an Auckland Electrical Wholesalers Maser Communications (NZ) Ltd has been successful in its bid to supply cabling for Stage Coach New Zealand's planned automated fare collection system.

360 Wellington buses will be equipped with technology that allows electronic ticketing similar to systems now being used in many major cities around the globe. Globally, the integrated fare management and software systems support more than 20 million smart cards and handles more than 5 billion transactions per year.

Maser Australian division is completing a similar project involving Sydney's public transport system.

New Project—Australia

Bankstown Council chooses Dialight Obstruction Lighting

Maser supplied Dialight's CASA 860 Series LED lights for marking the lighting masts of the sporting fields at Steve Folkes Reserve near Bankstown airport.

Designed to easily replace incandescent lights in existing installations, they feature state-of-the-art, high-flux LEDs that use 90% less power and last up to 10 times longer, extending replacement intervals and reducing maintenance costs.

Dialight has also just launched a new Generation 3 LED based red beacon, the D264 series, designed for use on tall buildings, towers and other structures requiring Obstruction lights. Benefits include high visibility from over 35 kilometres away with a power consumption of just 48 watts and just 14 Kg in weight.

Maser France & UK News

Maser Communications France is pleased to announce two new partnerships, one is with Lapp France for their range of Industrial Automation Cables and the other is with Draka Comteq France to stock and distribute their range of high quality Audio/Video Cables.



These new partnerships will allow Maser to expand its market presence as a specialist cable distributor in the South of France.



Maser Communications UK sales team is growing rapidly with the recent addition of Tony Muller to the team. Tony previously worked for Belden as Maser's account manager and we wish him success in his new role.

In Brief

- **Receive your newsletters by email rather than post!** Write an email to sales-cable@maser.com.au with "change to email" in the subject
- If you think a colleague would like to receive copies send their details to sales-cable@maser.com.au
- Maser's global website address is www.masergroup.com

Volume 1, Issue 5

Autumn 2007

BELDEN
SENDING ALL THE RIGHT SIGNALS



Draka Comteq

THE QUALITY CONNECTION
LEONI
Wire • Cable • Wiring Systems



Contact Details

Sydney office
Unit 9, 15b Rodborough Rd
Frenchs Forest NSW 2086
Ph: 02 9452 6062
Fx: 02 9452 6340

Melbourne office
Unit 9, 7-17 Geddes Street
Mulgrave VIC 3170
Ph: 03 9561 3577
Fx: 03 9561 3277

Brisbane office
Ph: 1300 130 722
Fx: 1300 880 621

Email:
Sales-cable@maser.com.au

Website Address:
www.masergroup.com



Maser Cable News

Latest Acquisitions by Belden

Belden has recently acquired two prominent international companies with products that fit directly into their strategic plan.

Hong Kong based LTK Wiring manufactures a range of cable solutions including UL-compliant internal wiring for electronic devices, coaxial cables for wireless equipment, internal A/V products and specialist automotive cabling.

Hirshmann Automation and Control produces industrial Ethernet and connector solutions. Industrial Ethernet is an open system for digital communications on the factory floor and in other rugged, demanding environments.

By adding these companies to their portfolio, Belden is able to expand their connectivity portfolio, provide more solutions to the industrial market and open opportunities in the wireless and fibre optic component manufacturing fields.

Maser Communications (Australia) Ltd look forward to introducing these product additions to Australia's

Product News

Part 1—A Simple Guide to Coaxial Cable

What is Coaxial Cable (coax) Is typically identified or classified according to its impedance or RG-type. For example, a 75-ohm coax or an RG-6 type coax. RG, or Radio Guide, is the manner that the military used to identify transmission lines. The RG number specified the physical construction, materials, physical, mechanical and electrical requirements of the cable. This methodology is now obsolete and the military has changed to "slash sheets" for identification. For example, RG-58C is now M17/155-00001 or M17/28-RG058. Today, the RG number has become a generic identifier, telling the user of its general construction and electrical properties, but not specific enough to compare attributes from one product to another

Construction:

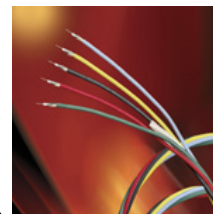
A coax cable consists of two conductors separated by a dielectric material. The center conductor and the outer conductor, or shield, are configured in such a way that they form concentric cylinders with a common axis. Hence the term and name co-axial

The center conductor may be made of various materials and constructions. Most common constructions are solid or seven-strand conductors. Solid conductors are used in permanent, infrequently handled or low flex applications and stranded conductors are used in flexible cable applications. Common materials include copper, tinned or silver plated copper, copper clad steel and copper clad aluminum. Because of a phenomena known as skin-effect, copper clad materials may be used in higher frequency applications (Foxtel Digital) to improve tensile strength and reduce weight and cost. (**Skin-effect** is the result of higher frequency signals propagating along the outermost surface, or skin, of the conductor.

The insulation, or dielectric material, is used to provide separation between the conductors. It is desirable that the material has stable electrical characteristics across a broad frequency range. The most common materials used are polyethylene (PE), polypropylene (PP), fluorinated ethylene propylene (FEP), and polytetrafluoroethylene (PTFE). The materials may be used in their natural form (solid), or injected with air bubbles (foam or cellular) to improve the dielectric constant and electrical properties of the material and cable

The outer conductor is typically made from a number of smaller aluminum or copper conductors combined together. These conductors are woven together to form a braid around the dielectric core. For higher frequency applications, a second braid or aluminum foil tapes are often added to improve attenuation and shield effectiveness.

The jacket material serves as a protective covering from the environment and may also serve to add in the overall flame retardant properties of the cable. Typical materials include polyvinyl chloride (PVC), PE, FEP



Volume 1, Issue 5

Autumn 2007

Maser Australia Cable Sales Team

Neil Charlton

Account Manager (NSW)

Ph: 02 9452 6062

Mob: 0414 587 261

neil.charlton@maser.com.au

Lee Gregory

Account Manager (QLD)

Ph: 07 5514 6725

Mob: 0414 408 646

lee.gregory@maser.com.au

Karl Knezovich

Telco & Utilities Account Manager (QLD)

Mob: 0406 662 633

karl.knezovich@maser.com.au

Shekhar Prince

Business Development Mgr

Ph: 1300 130 722

Mob: 0418 507 996

shekhar.prince@maser.com.au

Matt Young

Operations Manager

Ph: 1300 130 722

matt.young@maser.com.au

Luke Young

Warehouse & Internal Sales

Ph: 1300 130 722

luke.young@maser.com.au

Ross Patterson

General Manager

Mob: +64 21 901 772

ross.patterson@maser.com.au

Contact us today to speak to one of our cable specialists.

Ph: 1300 130 722

Fax: 1300 880 621

Email:

sales-cable@maser.com.au

Website:

www.masergroup.com