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#26 EDITOR

It seems that the new Boeing Dreamliner is never out of the news, first with production delays, then fire problems with batteries and now a wiring inspection called for after a fire onboard a 787 at a London, UK, airport.

The wiring inspection is on the emergency transmitters on all 787 Dreamliners. You can read the full story on page 9.

Apple has also been in the news recently with the death of a Chinese woman who was allegedly electrocuted after answering her iPhone while it was charging. The American company is cooperating with authorities following the death. See page 10.

We also take this opportunity to look ahead to wire South America in Brazil in October. Running in conjunction with the TUBOTECH exhibition in São Paulo, this will be the first running of wire South America after Messe Düsseldorf became involved with the event. This section starts on page 36 but don't miss out on our September issue which will feature some of the companies exhibiting at the show.

David Bell
Editor

CONTENT CONTENT CONTENT CONTENT



#26

News

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Show Diary
2013



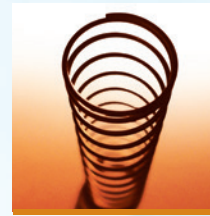
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wire South America 2013
São Paulo, Brazil



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Products, Machines and Technology
The latest news from machine industries



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DIARY SHOW EVENTS

2013

SEPTEMBER

17-19 September: **wire SE Asia 2013**
Bangkok, Thailand
Exhibition
www.wire-southeastasia.com

OCTOBER

1-3 October: **wire South America**
São Paulo, Brazil
Exhibition
www.wiresa.com.br

NOVEMBER

3-5 November: **Cabwire 2013**
Milan, Italy
Conference
www.cabwire.com

10-13 November: **IWCS**
Charlotte, NC, USA
Conference
www.iwcs.org

2014

APRIL

7-11 April: **wire Düsseldorf 2014**
Dusseldorf, Germany
Exhibition
www.wire.de

JUNE

16-18 June: **Guangzhou International**
Guangzhou, China
Exhibition
www.metalchina-gz.com

SEPTEMBER

24-27 September: **wire China 2014**
Shanghai, China
Exhibition
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OCTOBER

28-30 October: **wire India**
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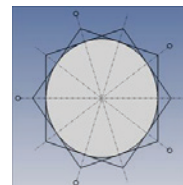
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- Fibre position: $\pm 2\text{mm}$ range $\pm 0.1\text{mm}$, 1kHz
- Spinning frequency profile
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- Others:** AIR (AIRline detector)
LDS-T (Laser Diffraction Sensor for transparent product)



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MAKING THE NEWS

Wiring inspection called for Dreamliner

US aviation safety officials confirmed in July that they will order an inspection of the wiring of emergency transmitters on all Boeing 787 Dreamliners.

The Federal Aviation Administration's inspection order is part of the investigation into the cause of a fire onboard a Dreamliner at a London, UK, airport earlier in the month. The beacons transmit the aircraft's location in event of a crash.



The New York Times reported that investigators are looking at the possibility that a pinched wire on a harness connecting a battery to the transmitter either ignited, or contributed to, the fire. The transmitters' batteries on all 787s flying in the United States will also be inspected.

The newspaper added that Boeing intends to tell airlines to either inspect or remove the transmitters after British investigators had urged the FAA to order airlines to disable the batteries.

A statement from the FAA read: "The Federal Aviation Administration is working with Boeing to develop instructions to operators for inspection of the Emergency Locator Transmitters (ELTs) on Boeing 787 aircraft.

"These inspections would ask operators to inspect for proper wire routing and any signs of wire damage or pinching, as well as inspect the battery compartment for unusual signs of heating or moisture."

Apple investigates iPhone fatality

Apple Inc is investigating an accident in which a Chinese woman was allegedly killed by an electric shock when answering a call on her iPhone 5 while it was charging.

The official Xinhua news agency, quoting from a police statement, claimed that Ma Ailun, a flight attendant with China Southern Airlines, was electrocuted when she took a call on the charging mobile telephone in China's western Xinjiang region on 11th July.

"We are deeply saddened to learn of this tragic incident and offer our condolences to the Ma family. We will fully investigate and cooperate with authorities in this matter," Apple said in an email. However, Apple declined to comment on details, such as whether this was an isolated case.

China is Apple's second-biggest market. In April, the company apologized to Chinese consumers and altered iPhone warranty policies after its after-sales service suffered two weeks of condemnation by the state-run media.

Ford sues Japanese harness supplier

Automotive News reports that Ford is suing a Japanese supplier who, in the course of a previous criminal investigation, admitted fixing the prices of wiring harness components.

The civil lawsuit was filed in Detroit against Fujikura Ltd and its Detroit subsidiary, Fujikura Automotive America, in July. Fujikura agreed to pay a \$20 million fine in the criminal investigation. The new lawsuit claims that the two companies coordinated with other suppliers to fix the prices of wiring harnesses sold to Ford from January 2000 until at least February 2010. It's not known how much money Ford lost, but the company is suing for triple the damages incurred on the \$10 billion it spent on wiring harnesses during the ten-year period.

In 2010 the wiring harness industry was a \$26.9 billion business, and the size of the investigation into price fixing reflects this. Automotive News reported that in February, Scott Hammond, US deputy assistant attorney general, said the investigation into price fixing had: "Grown over time and is broader than...announced so far."

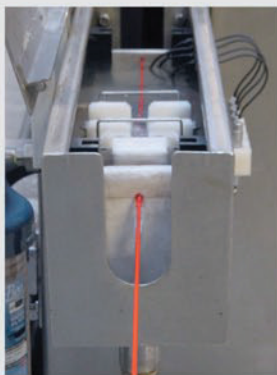
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Construction starts on chain plant

Following continued growth in North America, pewag chain has recently been able to re-invest in the USA and is currently building a new chain manufacturing plant in Pueblo, Colorado. When the new plant begins operations in 2014, pewag will be the first European chain manufacturer to produce chain in the USA.

The plant will be constructed in two phases over the next three years. Phase

I will comprise approximately 30,000ft², and phase II will be an expansion of the building to 50,000ft². Initially, pewag will manufacture traction chains used on cars, trucks, buses and heavy equipment, but there are plans to add additional product lines in the future.

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Fiber technology to boost bandwidth

Scientists in the US have developed a new fiber optic technology that promises to dramatically increase bandwidth, easing Internet congestion and video streaming. The technology centers on donut-shaped laser light beams, called optical vortices, in which the light twists as it moves along the beam path, rather than in a straight line.

Widely studied in molecular biology, atomic physics and quantum optics, optical vortices (also known as orbital angular momentum, or OAM, beams) were thought to be unstable in fiber, until Boston University engineering professor Siddharth Ramachandran, with Alan Willner of University of Southern California, demonstrated the stability of the beams and their potential to boost bandwidth. The findings were reported in the journal *Science*.

“For several decades since optical fibers were deployed, the conventional assumption has been that OAM-carrying beams are inherently unstable in fibers,” said Ramachandran. “Our discovery of design classes in which they are stable has profound implications for a variety of scientific and technological fields that have exploited the unique properties of OAM-carrying light, including the use of such beams for enhancing data capacity in fibers,” he said.

Ramachandran and Willner collaborated with OFS-Fitel, a fiber optics company in Denmark, and Tel Aviv University.

Wind project for Xcel Energy



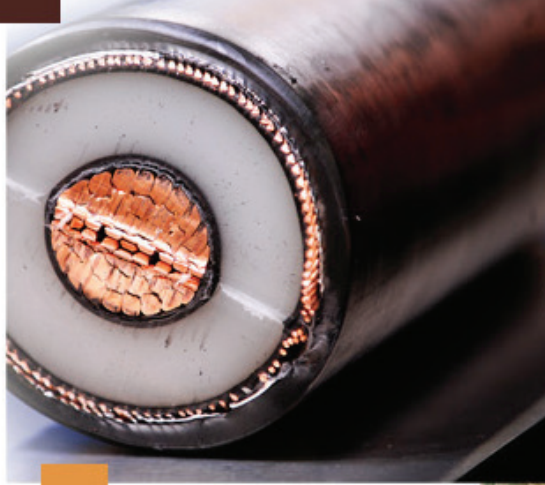
RES America Developments Inc, a subsidiary of Renewable Energy Systems Americas Inc (RES Americas), is working with Xcel Energy to construct the 200MW Pleasant Valley wind farm. The project, near Austin, Minnesota, is adjacent to the Grand Meadow wind project owned by Xcel Energy.

“The Pleasant Valley wind project, along with the other wind purchases we are making, will lower our customers’ bills, offer protection from rising fuel costs, and provide significant environmental benefits,” said Dave Sparby, president and CEO of Northern States Power Co Minnesota, an Xcel Energy company.

RES Americas’ role will be developer and constructor of Pleasant Valley. Once

complete, RES Americas will transfer ownership of Pleasant Valley to Xcel Energy, who will own and operate the project. Development and construction will be completed by the end of 2015.

Pleasant Valley wind farm is part of 600MW of wind power recently announced by Xcel Energy in its Upper Midwest service territory. Combined, the projects will produce enough energy to serve 180,000 homes and, over the lives of the projects, lower customer costs by \$180 million. At the same time, the projects will reduce carbon emissions by 1.2 million tons each year in Xcel Energy’s Upper Midwest service territory, where the company already is on track to achieve a 30 percent reduction in carbon emissions by 2020.



Power line to Hurley

Iberdrola USA, the parent company of New York State Electric & Gas and other utilities in the Northeast, is proposing to build a 53-mile transmission line from New Scotland, near Albany, to Hurley in Ulster County. The line is intended to help reduce congestion on the state's electrical grid, and improve the energy flow downstate into New York City and Long Island.

The proposed line will run along the New York State Thruway corridor for 42 miles, and will be laid underground to protect Hudson River and Catskill Mountain views.

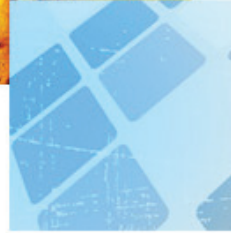
Iberdrola's plans were filed in response to the New York Power Authority's request for proposals to address the potential closure of the Indian Point power plant in Buchanan. Licenses for the 2,000MW nuclear plant will expire by 2015.

Wind power line

The Chilean wind power developer, AM Eolica Sarco, is planning to build a \$25 million power transmission line in the Atacama region to connect its planned 240MW plant to the local network.

The 40-mile 220kV line will reach from the Sarco area to the Maitencillo substation, which is part of SIC, Chile's central power grid. The design of the line will allow for electricity from other, future, wind farms in the area, AM Eolica said.

The firm is linked to Mainstream Renewable Power, based in Ireland.



Sales appointment

National Wire & Cable has appointed Larry Willis as its southwest regional sales representative for Arizona, New Mexico, Nevada and Southern California.

Mr Willis has 35 years' experience with National Wire & Cable. He will provide technological expertise in the design and development of custom cables and molded cable assemblies as well as customer service and technical support.

National Wire & Cable Corporation is a custom manufacturer of wire and cable, cable molding and assemblies and is involved in the development of the next generation electric cars, specialized geophysical cables, architectural lighting and advanced medical cable assemblies.

New president for Radix

Radix Wire Co has named Keith D Nootbaar, a former Honeywell executive, as its new president and CEO.

Radix, a manufacturer of high temperature wire and cable, was acquired in March by Beachwood holding companies Hunter Valley Co and The Vitruvian Group, and has been without a president and CEO since the acquisition.

Mr Nootbaar, who took up the post 1st July, previously served as chief operating officer of Johnstech International of Minneapolis, and was senior director of Honeywell's aerospace microelectronics and precision sensor unit.

Mr Nootbaar said he is looking forward to helping the company develop products and grow. He said Radix Wire has a great reputation and good opportunities to enter into different markets. He said he wants to bring a culture of "constant innovation" to the company.



Fruit farm turns to solar

HMC Farms, a large grower, shipper and packer of tree fruit and table grapes, is investing in a 10-acre solar photovoltaic farm. The 2.2MW solar system will cover 390,000ft² of ground space and will enable HMC to significantly hedge against rising electric utility charges on two cold storage and packaging meters. An additional 70kW solar carport will be added to supplement HMC's energy use at the main office building on the property.

HMC Farms selected Cenergy Power for the project, based on Cenergy's expertise in engineering and building large commercial and utility solar projects. The ground-mounted solar and carport systems have been designed to reliably produce an annual 3.4 million kilowatt hours of energy, which will

reduce the plant's energy needs by around 68 percent.

"We believe that economically sound sustainability initiatives make tremendous business sense and we're excited to move forward with Cenergy Power on our large solar project," said Michael Toms, chief operating officer of HMC Farms.

"In addition to the strong financial benefits, we feel great about the environmental attributes associated with the solar system. According to data from Environmental Protection Agency, the clean energy generated by our solar farm will be equivalent to the carbon sequestered by 2,000 acres of forests annually."



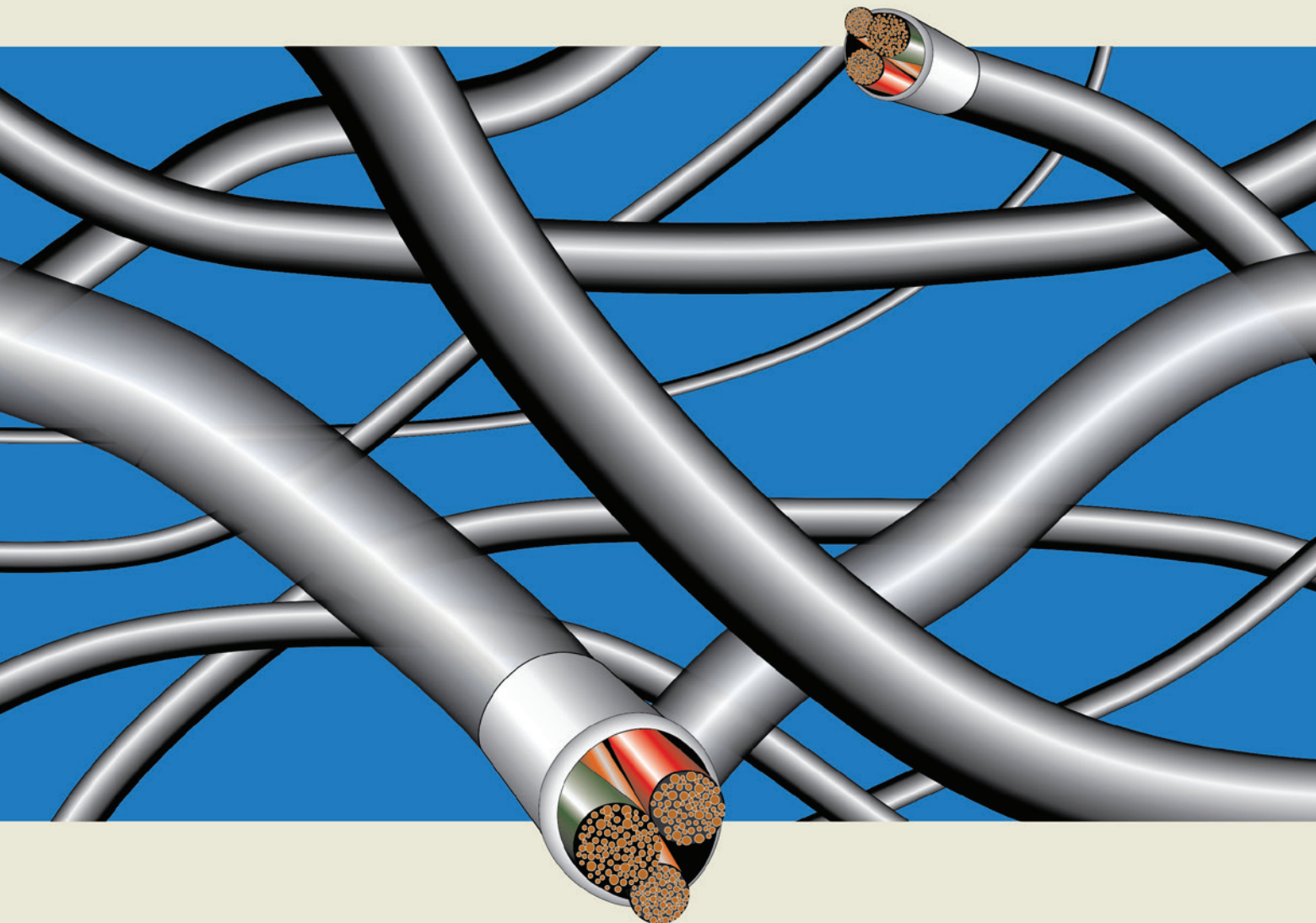
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NASA technology improves platform safety



New fiber optic technology, jointly developed by NASA with Astro Technology (ATI), has successfully

decreased the risk of spills on two oil platforms off the coast of West Africa. The new tendon tension monitoring system (TTMS) can detect slight changes in tension as a result of tides, wave activity, storms and routine boat docking operations, and streams the data in real time, allowing operators to make the alterations required to maintain platform stability.

Installed in March on two platforms in the Atlantic Ocean, the TTMS uses a fiber optic strain gauge system and sensor clamps to determine the tension on subsea risers and pipelines.

ATI and NASA engineers worked jointly at the Johnson Space Center in Houston to design an underwater adhesive clamp prototype for the research.

NASA chief technologist Mason Peck said: "What we learn from testing this technology on the oil platforms will benefit a broad range of terrestrial and space applications, and shows NASA's technology investments support America's future in space and improve our lives here on Earth."

The technology was developed through a Space Act agreement, which NASA uses as a method for partnering with external groups and companies to allow them open access to a wider range of technologies and capabilities.

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Automotive wire and cable materials market

A new report from Transparency Market Research details the global automotive wire and cable materials market.

From a premise that the urbanization in developed nations will drive the automotive industry which, in turn, is likely to increase the automotive cable and wire materials market, the report expects North America and Europe to continue their dominance in the market. The market is expected to grow and create new opportunities in Asia Pacific, due to the area's growing urbanization and automotive industries.

The automotive cable and wire materials market can be segmented based on the utilized raw materials: polyvinyl chloride (PVC), cross linked polyethylene (XLPE), electron beam based XLPE, and peroxide based XLPE, fluoropolymers, polyphenylene ether (PPE), co-polyester elastomer (COPE) and thermoplastic polyurethane (TPU).

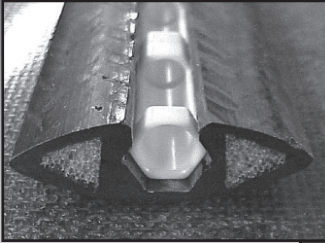
TPU, PPE and polymers such as COPE are gaining popularity but the report suggests they are not expected to entirely replace XLPE and PVC. Fluoropolymers are chiefly utilized in high temperature cable applications, and are expected to dominate the class D and E applications.

OEMs are expected to favor standardized solutions.

This research report analyzes the market in market segments, major geographies, and current market trends, providing comprehensive analysis of market growth drivers; the factors limiting market growth; current market trends; market structure; and market projections to 2018.

Full details can be found at the Transparency Market Research website.

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Vodcast highlights product benefits

Cerro Wire LLC, a manufacturer of copper electrical building wire and cable, is using its YouTube channel to illustrate the value of its SLiPWire® and true sequential footage system for construction projects such as the new Kubota Industrial Equipment (KIE) plant in Georgia.



Dale Crawford, director of marketing and value development for Cerro Wire's electrical distribution division, explains how SLiPWire reduces the time, labor, and cost of installation, while true sequential footage eliminates the need to carry excess cable inventory. The vodcast also touches on Cerro Wire's customer service, its error-free shipping guarantee, and fast turnaround times, which all contributed to KIE's high satisfaction with the project.

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EFC names new president

Douglas Adams, CEO of EFC International, has announced the appointment of Matthew Dudenhoeffer as president of the company. With over 20 years' experience with EFC and in the industry, Matthew is well placed to drive the company's ambitious growth initiatives.

Matthew joined EFC International in 1993 as a sales engineer. He held the position of strategic business units manager and in this capacity was instrumental in EFC's improvement in service and subsequent success. In 2012, Matthew was promoted to the position of vice president and has played an integral role in executing strategy and driving the overall success of EFC. He holds a BSIE and MPA from the University of Missouri.

Douglas Adams said: "With Matt's wealth of experience in strategic partnerships and leading corporate development, I am excited and confident EFC will continue to achieve tremendous growth and see excellent results." Douglas Adams stays strongly invested in EFC and maintains the position of CEO.

EFC International has been a provider of engineered fastening systems, engineered components, specialized fasteners, metal and plastic fasteners, metal and plastic clamps, panel clips, hose clamps, retainers, panel fasteners, retaining clips and nuts, wire routing and electrical components technologies since 1983.

CommScope adds lighting

CommScope has acquired Redwood Systems Inc, a manufacturer of LED lighting solutions and integrated sensor networks for data centers and buildings.

Redwood developed what is believed to be the world's first smart building platform to power and control lights with a high-density sensor grid. The platform is said to provide energy savings that typically average 75 percent improvement over traditional fluorescent lighting systems for office buildings, and 90 percent improvement for data centers. This approach uses patented networking technology and low voltage DC architecture for low cost, reliable and scalable installation.

The acquisition is intended to strengthen CommScope's position in intelligent building infrastructure solutions, enabling the company to provide one of the industry's most comprehensive and automated infrastructure management platforms. With upcoming enhancements to optimize its operation over twisted pair cabling, the Redwood Systems platform can be deployed over CommScope's standardized structured cabling infrastructure.

This can help CommScope's data center and intelligent building customers maximize their investment in cabling infrastructure and move towards more integrated IT and building systems, thus reducing installation costs and on-going operational expenses.

“By adding Redwood’s innovative solutions, we expect to better meet our customers’ desire for improved energy efficiency and provide a cost-effective platform for enabling truly intelligent buildings,” said Kevin St Cyr, senior vice president of enterprise solutions, CommScope.

“Tremendous insight on building usage can be obtained from analyzing the centrally stored data from the sensor network, enabling additional efficiency improvements and enhanced capabilities well beyond efficient lighting.”



EUROPE NEWS

Picture : www.bigstockphoto.com 'Spring' Photographer - 'Rafal Steciuk'

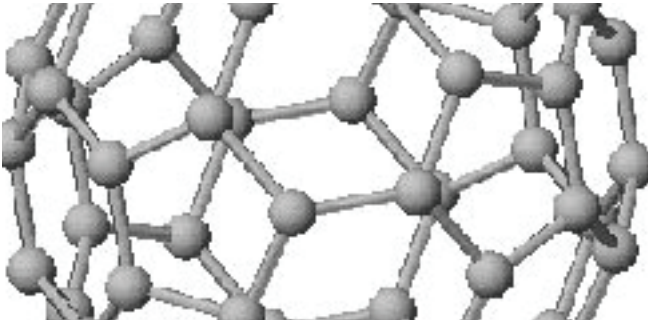


New world record for undersea data transmission

Alcatel-Lucent has created a new record for the amount of data transmitted over transoceanic distances on a single optical fiber.

In a test carried out at Alcatel-Lucent's Innovation City campus in Villarcieux near Paris, researchers from Bell Labs successfully sent data at speeds of 31Tbps over 7,200km – a capacity said to exceed that of the most advanced commercial undersea cables by a factor of three. This was achieved with a span of 100km – the distance between amplifiers maintaining the entire length.

The experiment leveraged Bell Labs' pioneering work in 200Gbps single carrier data channels. At such speeds and distances signal distortions and noise make data recovery challenging. To counter the problem, in this new test Bell Labs researchers made use of new detection techniques and harnessed an array of technologies in modulation, transmission, and external link signal processing, twinned with advanced error correcting coding.



Carbon wire to rival copper?

Scientists at Cambridge University have developed a strong, lightweight carbon wire that might, eventually, rival copper if its ability to conduct electricity can be improved.

The development team reports that super strong carbon wires, spun in a tiny furnace at temperatures over 1,000°C (1,800°F), have been made “in a usable form” a millimeter (0.04”) thick. Krzysztof Koziol, of the University’s department of materials science and metallurgy, told Reuters that commercial applications were still years away, but: “Our target is to beat copper.”

Wire made from carbon nanotubes (CNTs) in the laboratory is ten times lighter than copper and 30 times stronger, plus the scientists have found a way to solder CNTs to metal. However, a major drawback is that 1kg (2.2lb) of copper is 2.5 times more conductive than 1kg of CNT.

The next few years’ research will focus on copper and CNT hybrids, a program to create ultra-conductive copper that is supported by the copper industry. When blended, tiny amounts of carbon will improve the conductivity of copper.



Nexans considering subsea cable plant

Nexans SA is considering the construction, in Asia or the US, of a new plant for submarine power cables to ease bottlenecks at its existing facility in Norway.

The \$3.9 billion market is growing by up to eight percent a year, and Nexans is planning to increase capacity to prevent further strain on existing operations, said high voltage and subsea cable chief Frederic Michelland in an interview at the company’s Paris headquarters.

While Europe accounts for 80 percent of the subsea cabling market, the Americas and Asia-Pacific “will take off at some point,” Michelland said. “We’re thinking about these issues at the moment because the construction of a plant takes at least three or four years.”

Nexans, the world’s second-largest cable maker, doubled the workforce at its Halden, Norway, plant after subsea cabling revenue doubled in four years. Slowing demand for construction and high voltage land cables in Europe and the Middle East has combined with poorly performing underwater contracts, squeezing the operating margin.



Georgia aims for Russia

The state of Georgia is planning to build a 500kV power transmission line in the direction of Russia, though Sulkhan Zumburidze, chairman of the management board of the Georgian State Electrosystem, said that it has not yet been decided where the substation will be built.

“One of the main purposes of this line is to establish stronger contacts with Russia,” he said.

According to Zumburidze, the power transmission line will be commissioned in 2017. The implementation of the project will require about \$50 million.

There is an existing 500kV Kavkasioni power transmission line through which power exchanges between Georgia and Russia are already carried out. Georgia receives electricity through this power line during winter.



Export cables at Gwynt y Môr

Four export cables have been installed at RWE npower renewables' Gwynt y Môr Offshore Wind Farm off the north Welsh coast.

Gwynt y Môr project director Toby Edmonds said: “Installation activity at the offshore site has been going well in recent weeks and the completion of export cable burial is an important stage in the construction of the wind farm.

“Four cables have been buried in the seabed between the offshore platforms, more than ten miles offshore, and the beach at Pensarn. These will carry the electricity generated by the wind turbines to shore, with our onshore underground cable route delivering the power on to our new substation near St Asaph Business Park.”

Work on the export cable was carried out by Prysmian PowerLink Services, based in Essex, using its barge, Cable Enterprise. At 576MW, Gwynt y Môr is one of the largest offshore wind farms currently under construction in Europe, and is a shared investment between partners RWE Innogy, Stadtwerke München GmbH and Siemens.



Trimet makes an offer

Rio Tinto plc confirmed that it has received a binding offer from Trimet Aluminum SE for two of its unprofitable French aluminum plants.

According to Rio Tinto, the terms of the binding offer agreement for its St Jean-de-Maurienne aluminum smelter and Castelsarrasin casting facility are conditional upon regulatory approvals as well as completion of an energy and partnership arrangement with Electricite de France SA or EDF.

Jacynthe Côté, chief executive of Rio Tinto Alcan, said: "This is an important step towards the contemplated divestment of the St Jean-de-Maurienne and Castelsarrasin assets. The sale of these facilities underscores our strategy to streamline Rio Tinto Alcan through the divestment of non-core assets, so that it is focused only on our lowest cost businesses."

Trimet Aluminium SE is Germany's largest aluminum producer. Founded in 1985, Trimet employs about 1,900 people producing, casting, marketing and recycling aluminum on 12 sites with an international marketing network.



Cables reach the heights

Prysmian Group is to supply fire safety cables for power distribution within the Isozaki Tower, currently under construction in Milan's new CityLife district. The contract was awarded by Elettromeccanica-Galli of the Eiffage Group.

The contract involves supplying 300km of low and medium voltage cables from the Afumex range: Afumex 750, Afumex 1000 Amico and RF 31-22. Manufactured in compliance with the IEC 60332-3-4 and EN 50266-2-4 fire testing norms and drawing heavily on European environmental management standards (ISO 14000), Afumex cables combine reduced flame spread with very low emission of irritant and corrosive gases, ensuring more time for possible evacuation of buildings and facilitating the work of rescue teams.

Designed by Japanese architect Arata Isozaki, the tower will be over 200 meters high and become one of Italy's tallest buildings.

The Isozaki Tower is one of the architectural symbols of CityLife and Expo 2015, and will accommodate up to 3,800 people over a 53,000m² area.



Teknor Apex to announce brand restructure

At K2013 in Düsseldorf, Germany, in October, Teknor Apex Company will introduce a restructuring of its thermoplastic elastomer brands.

All TPEs applicable to a particular end use sector will be grouped under a single brand, regardless of how widely the compounds differ in terms of polymer chemistry. Teknor Apex employs the industry's broadest range of TPE chemistries and for the first time can produce compounds spanning the entire range of these chemistries at its plants in Belgium and the UK. Included are many Teknor Apex TPEs developed in the USA and previously unavailable in Europe.

For example, the Sarlink® brand once consisted solely of thermoplastic vulcanizate (TPV) compounds, but has been expanded to include styrenic and olefinic blends. Similarly, the company's Elexar®, Medalist®, and Monprene® brands now include all TPE types designed for use in electrical/electronic, medical, and consumer-product applications, respectively.



Towards safer super grids

DNV KEMA has ordered two Alstom short circuit generators for the extension of its high power laboratory in Arnhem, Netherlands. The complete project consists of the supply and installation of two air-cooled short circuit generators and auxiliary systems such as a drive system, normal excitation system and lube oil system. All systems should be operational in 2015.

The expanded power supply in DNV KEMA's high power laboratory will be used to test new transformers, circuit breakers and other components for super grids that will transport high volumes of electricity across long distances, enabling a safe and reliable power infrastructure.

The test laboratory in Arnhem already has four Alstom short circuit generators. By adding these two identical short circuit generators, each capable of generating a three-phase short circuit power in the test bay of 2,100MVA, the rating and capacity of the laboratory will be extended by 50 percent.



CabWire

Innovations driving worldwide wire and cable

Leading speakers and companies from around the world will converge on Milan, Italy, for the CabWire World Conference in November, co-organised by the International Wire and Machinery Association.



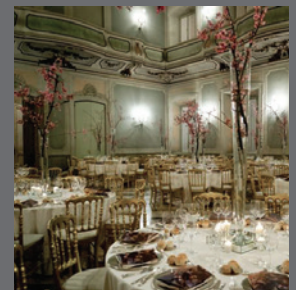
The theme at this year's conference on Monday, 4th November, is "Innovations driving worldwide wire and cable markets" and features a panel of both ferrous and non-ferrous expert speakers, presenting papers on the latest technological developments within the industry.

Keynote speaker for the conference is Philip Radbourne, of highly acclaimed Integer Research, who will give his "Review of the European Wire and Cable Sector". This will be followed by speakers from Italy, China, Japan, Turkey, Sweden, Germany and Finland.

The conference – priced at just €150 for members – will also have tabletop exhibits on display for the duration of the day and there will be the opportunity to attend a gala dinner at the nearby Palazzo Clerici, originally the home of the rich and influential noble family of Milan Clerici.

The following day, Tuesday, 5th November, there will be the opportunity to visit local factories for a guided tour of the facilities.

The ferrous tour will be to Ori Martin factory located in Brescia and the non-ferrous tour to Alenia Aermacchi. Transportation will be provided for each tour and more information can be found on the "Plant Tour" page at www.cabwire.com with details of cost and how to book.



The conference itself will take place at the Palazzo Turati in Milan.

For interested delegates, the organisers of CabWire have negotiated a special delegate rate of only **€199 per night** for a superior room including breakfast at the Rosa Grand, a stunning five star luxury hotel surrounded by Milan's iconic sights and attractions, and within only a 15-minute walk of the both the Cabwire conference and gala dinner venues.

The cost for the conference, for members, is just **€150** which includes access to all

conference sessions, refreshments and lunch and a ticket to the gala dinner. For non-members it is **€175**. You can also take advantage of the excellent sponsorship and table top exhibit opportunities by visiting **www.cabwire.com**

The conference has been jointly organised by the IWMA, Associazione Costruttori Italiani Meccchine per Filo (ACIMAF), Comité Européen, de la Tréfilerie (CET), the International Wire & Cable Exhibitors Association (IWCEA) and the Wire Association International (WAI).



CabWire World Conference 2013

Palazzo Turati Milan, Italy
4-5 November 2013

Innovations driving worldwide wire and cable markets

The 6th biennial world conference at the Palazzo Turati in Milan, Italy, on the 4th November 2013.

This year's theme will be ***"Innovations driving worldwide wire and cable markets"*** and will feature a panel of both ferrous and non-ferrous expert speakers, presenting papers on the latest technological developments within the industry.

For more information, **visit the website**, email **info@iwma.org** or telephone: **+44 (0)1926 834680**.

www.cabwire.com



Associazione Costruttori Italiani Meccchine per Filo



Comité Européen de la Tréfilerie



International Wire & Cable Exhibitors Association



International Wire & Machinery Association



The Wire Association International, Inc.



wire South America 2013

The first-ever wire South America – International Wire and Cable Fair – will be staged at the Exposições Imigrantes exhibition center in São Paulo from **1st to 3rd October 2013**.

The inaugural edition of the trade fair for wire and cable production and finishing will take place in parallel with **TUBOTECH – 7th International Trade Fair for Pipes, Valves, Fittings and Components**.

Exhibitors at wire South America and TUBOTECH will present their new products on a total floor space of **13,000m²**. Some **150 exhibitors** will showcase their innovations from the wire and cable manufacturing and finishing, process engineering tools and auxiliary components, and measurement, control and test engineering sectors.

wire South America will feature **group ventures from the United States, Italy, Austria (“Expo Austria”) and China**. Support for wire South America is provided by IWMA – the International Wire & Machinery Association, WCISA – the Wire and Cable Industry Suppliers Association and ACIMAF – the Italian Wire Machinery Manufacturers Association.

The conditions in the run-up to the wire South America and TUBOTECH events in São Paulo are promising: According to a **report by GTAI (Germany Trade and Invest)**, the strength of Brazil’s construction, automotive and consumer electronics sectors is causing a sharp rise in the demand for wire and cable products.

Infrastructure expansion, the **boom in the construction industry, increasing investment** in capital goods and **favorable market conditions** in the consumer goods industry are all generating **strong momentum**.

Both exhibitions will benefit from the experience **Messe Düsseldorf** has gained from years of organizing globally leading trade fairs wire worldwide.

wire South America and TUBOTECH bring excellent sources of information to visitors from Brazil and surrounding nations right to their own continent, and they are an ideal platform for international exhibitors interested in gaining visibility in the important and interesting market of the future that is South America.

See our September issue for details on some of the companies exhibiting in São Paulo.

wire South America 2013 Exhibitor List

as at 30th July 2013

AEI Compounds Ltd	606A
Anbao (Qinhuangdao) Wire & Mesh Co Ltd	822
Ara Makina Imalat Sanayi ve Ticaret Ltd Sirketi	812
August Strecker GmbH & Co KG	610
Beijing Holland Trading Co Ltd	824
Beijing Tongdaxinming International Trading Co Ltd	830
Beta LaserMike	802
BMS Birlesik Metal San Ve Tic AS	801
BS Shakti Steel Pvt Ltd	745
Cemanco LC	1015
Cheng-I Wire Machinery Co Ltd	808
CSM Metalurji Imalat San Muhendislik Sti	1028
D H Exports Pvt Ltd	805
Deuk-Young Co Ltd	818
Enkotec AS	712
EuroWire magazine	544
FSP-One SAS	720
Fuhr GmbH & Co KG	606
GMP Slovakia sro	709
Guidetti Srl	tbc
Heinze & Streng GmbH	711
Henrich Maschinenfabrik GmbH	707
ICE – Agenzia per la Promozione all'estro e l'internazionalizzazione	tbc
Ideal-Werk C + E Jungeblodt GmbH & Co KG	705
Industrial Steel & Wire	1011
International Wire & Machinery Association	614
Kaneka North America LLC Apical Division	934
KFM Kabelmaschinenfabrik Muller GmbH	610A
Lamnea Bruk AB	816
Macro Bars and Wires (India) Pvt Ltd	805
Maillefer Extrusion OY	737
MFL SA MFL Group	638
Nevatia Steel and Alloys Pvt Ltd	710
OMCG Srl	tbc
Omeya Technology Co Ltd	806

Ozyasar Tel ve Galvanizleme San AS	708
Paramount Die Co	1017
Pietro Galliani	706
Pioneer Machinery USA	1025
Pratech Muhendislik ve Makine San Tic Ltd Pty	811
Pyromaitre Inc	1020
Queins Machines GmbH	702
Rautomead Ltd	804
Richards Apex Inc	932
RDS Technik GmbH	718
SEI Sistemi Srl	tbc
Sikora AG	608
Simpacks	1025
Sket Verseilmaschinenbau GmbH	707
Southwire Company	1022
Stolberger dBa Wardwell Braiding Co	707
Sudhir Enterprise	815
Talleres Margalez SA	819
Teijin Aramid BV	634
Tien Chen Diamond Dies Industry Co Ltd	810
Traxit International GmbH	602
Troester GmbH & Co KG	701
Unience Co Ltd	820
Upcast OY	636
Voga Composites LLC	711
Welding Wire Machinerries Srl	tbc
Willi Bremer GmbH	817
Windak OU	814
Wire & Cable ASIA magazine	544
Wire & Plastic Machinery Corp	1013
wiredinUSA	544
Wuxi Kemaite Material Technology Co Ltd	632
Zeus Techno Inc	646



ASIA & AFRICA NEWS



Pub landlord hooked on barbed wire

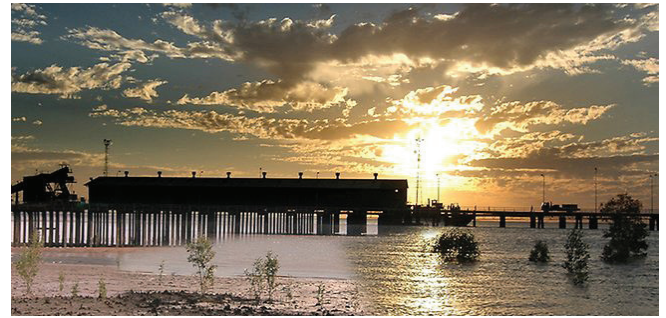
The Spalding Hotel in the Australian mid-north is the showcase for one of the largest collections of barbed wire in Australia. The owners have set up a museum in the hotel featuring barbed wire from as early as the 1800s.

Owner of the 'Barbed Wire Pub' as it is known, Geoff Tiller says the collection first began with a local enthusiast: "The more I went down and looked at the collection, and realized how extensive it was with 500 pieces of wire mounted on boards as well as another 1,000 pieces just in buckets that I still have to sort through – it sort of just got me and I guess you can say, I got hooked on it."

Geoff says most of the barbed wire dates from the 1860s and earlier, because the

Americans started to patent it after that. "A lot of different sorts of wire in the west of America [were] used by sheep farmers to see how good they were in retaining the stock, but there was a plenty of wire put together to define people's boundaries," he said. "Station owners had their own wire made under patent so it defined their boundaries."

He says he's not sure how many different types of barbed wire exist, but new pieces are being added all the time. Apparently there could be collections of up to 2,000 pieces with private collectors in the US.



Fukushima contamination alarm

Reuters reports that Japan's nuclear regulator has expressed growing alarm at contamination at the seafront of the Fukushima Daiichi nuclear power station, and has urged the plants operators to take protective measures.

Fukushimas operator, Tokyo Electric Power Co, has acknowledged that problems are mounting at the plant, the site of the world's worst atomic disaster since Chernobyl in 1986. The company said radiation levels in groundwater had soared, suggesting highly toxic materials from the plant were getting closer to the Pacific more than two years after three meltdowns triggered by a massive earthquake and tsunami.

Shunichi Tanaka, head of the new nuclear regulation authority, told reporters he believed contamination of the sea had been continuing since the March 2011 catastrophe.

Chinese foreign ministry spokeswoman Hua Chunying said she was unaware of reports of contamination leaking into the Pacific, but an official at South Korea's fisheries ministry said regular tests were run on fish caught off the countrys coast and any with contamination exceeding permitted levels banned from sale.

Tidal energy power station approved

The West Australian Government has approved plans to build Western Australia's first tidal energy power station. Tidal Energy Australia proposes to build the new station at Doctor's Creek, near Derby in West Kimberley.

Derby-West Kimberley shire president Elsia Archer says she is excited about the extra jobs and power it will bring to West Kimberley.

However, the member for Mining and Pastoral Region, Robin Chapple, says he does not see how the project could be environmentally or financially viable.

By harnessing the energy in the extreme tidal movements, the facility is expected to generate 40MW of electricity – enough to power up to 15,000 homes. Albert Jacob, the environment minister, has approved the project subject to conditions.



First major power line in Musandam

Saudi Arabian power contractor, Saudi National Contracting Co (NCC) has won a contract worth around \$98 million to build the first major power transmission line in Musandam Governorate.

The project is key to major infrastructure schemes being implemented by the government in this strategically important Omani enclave.

The transmission line will be built in tandem with the governorate's proposed first natural gas based power plant. Electricity from the power plant, expected to generate around 120MW, will be supplied to towns and villages in Dibba and Khasab, supplanting diesel-based electrical generation for the first time in the governorate.

According to officials, the 132kV overhead transmission line will start at Tibat in Wilayat Bukha, where the proposed power plant will be located. It will travel 18km to Khasab and extend a further 80km to Dibba.

As part of the project, 132kV grid stations will be built at Tibat, Khasab and Dibba. Officials explain that the project's substantial cost is attributable to the extremely rugged terrain through which the transmission line will run.



Korean cables cross the river

LS Cable & System has won a \$12 million contract to supply 230kV extra high voltage underground cables and connectors to SMECO (Southern Maryland Electric Cooperative). The cables and connectors will be used in a new power transmission and distribution network.

The project is to establish an extra high voltage cable network across 1.5km of the riverbed of the Patuxent River. Underground EHV cables are generally connected in 500m units to prevent productivity and management-related problems, but the Maryland project requires the capacity to produce 1.5km of 230kV level cables without connectors.

"This contract holds great significance in that LS Cable & System won it through competition with leading cable makers from Japan and Europe based on our expertise for successful project implementation and the excellence of our extra high voltage cable products," said overseas energy sales and promotion division director Heonsang Lee. "LS Cable & System will be engaged in active marketing, targeting electricity suppliers and EPC companies in each state of the USA."



Bangladesh cable makers looking to export

Industry analysts have observed that, with local cable companies meeting more than 95 percent of domestic needs, Bangladeshi cable makers are looking to export their surplus.

“Our industry has been self-sufficient for the last ten years and quite a few local companies have initiated a move to export,” said Mosharraf Hossain Bhuiyan, president of Bangladesh Electrical Merchandise Manufacturers Association (BEMMA).

Local companies are manufacturing all types of cables, including XLPE and PVC insulated LT and HT cables, FRLS cables, house and appliance wiring cables, dry and jelly filled telecommunication cables, aluminum overhead conductors and dual-coated super enameled copper wire.

Figures from BEMMA indicate 120 companies, employing over 50,000 people, are producing cable in Bangladesh.



Capacity sale agreement

Gulf Bridge International (GBI) and Zajil Telecom have signed a capacity sale agreement. Zajil is Kuwait's first Internet service provider and the region's leading MPLS service provider; GBI is the Middle East's first carrier-neutral operator and the owner of the largest regional submarine cable connecting the Middle East to the rest of the world.

Zajil's managing director and CEO, Mr Khalifa Al-Soulah, told AMEinfo: “Zajil has always placed its customers' interest first. Be it a business or an individual, staying connected is of the utmost importance and Zajil signing with GBI is another step towards ensuring that our customers always stay connected.”

Activated in February 2012, GBI is the first subsea cable to go live with 100G technology, spanning to all major European cities and growing to become a major transporter for many operators in the Middle East and Europe to India. The sold capacity will be on the first Gulf network ever built in a loop configuration, with routing onwards to Europe, Asia, and Africa. The Gulf Ring is a self-healing ring, designed to reroute traffic in the case of a cable cut or disruption.



“Superbrand” for 5 years in a row

AMEinfo reports that Ducab has collected its fifth consecutive ‘Superbrand’ award, presented by the Superbrand Council – the independent commission for evaluating commercial brands. The criteria for Superbrand recognition of commercial brands include market presence, product quality, consumer confidence, continuity, accounting practices, customer loyalty and market acceptance.

Only 56 of the 1,350 companies shortlisted by the Superbrands Council were awarded ‘Superbrand’ distinction, based on the votes of over 2,400 senior level industry professionals.

Ashish Chaturvedy, Ducab marketing manager, said of the achievement: “Ducab has become a household name in the field of high grade wire and cable products and has earned the trust of various specialized international bodies. We have succeeded in solidifying our corporate brand when it comes to high quality, standard cable production and as per the highest international manufacturing standards.”

Ducab produces over 40 million meters of insulated building wire cabling every month.



Fiber plans for Zambia, SA and Zimbabwe

Liquid Telecom has chosen Ekinops as a supplier for the new 2,500km long-haul DWDM network across South Africa, Zimbabwe, and Zambia.

The new network, featuring the longest uninterrupted fiber spans on the continent, carries multiple 10G wavelengths, and will be able to support many more 10G and 100G services. Liquid Telecom and Ekinops were awarded the “Best fixed network innovation” at this year’s Global Telecoms business innovation awards for their joint work in the project, successfully deploying spans over 310km without inline amplifiers.

Typical long-haul optical networks require an amplifier site every 100km to amplify the signal. In rural Africa, where the distance between towns can be more than 400km, this is a major challenge and expense. Liquid explained that this is a key reason for choosing Ekinops. Using Ekinops’ DynaFEC dynamic forward error correction technology, Liquid was able to reduce the number of amplification sites from 16 to 5.

Insteel's third quarter



Insteel Industries Inc, manufacturer of steel wire reinforcing products for concrete construction applications, has recorded net earnings of \$3.3m for the third quarter of fiscal 2013 compared with \$0.9m in the same period a year ago.

Insteel's improved financial results for the quarter benefitted from widening spreads between selling prices and raw material costs, higher shipments and lower unit conversion costs relative to the prior year quarter. Capacity utilization for the quarter was 48 percent, compared with 46 percent in the second quarter of fiscal 2013 and 44 percent in the prior year quarter. Net sales increased 3.6 percent to \$96.9m from \$93.6m in the same period a year ago.

For the first nine months of fiscal 2013, net earnings were \$9.4m, compared

with \$1m a year ago. The nine-month results for the prior year include restructuring charges related to the November 2010 acquisition of Ivy Steel & Wire Inc assets.

HO Woltz III, Insteel's president and CEO, said: "We expect to commission and ramp up the new engineered structural mesh production line at our North Carolina facility during the current quarter. The new line employs advanced technology that will enable us to broaden our offering of concrete reinforcing solutions and further our penetration of the rebar market in addition to significantly reducing the manufacturing costs for certain products currently produced on other equipment."



RURAL INFRASTRUCTURE FUNDING AWARDS

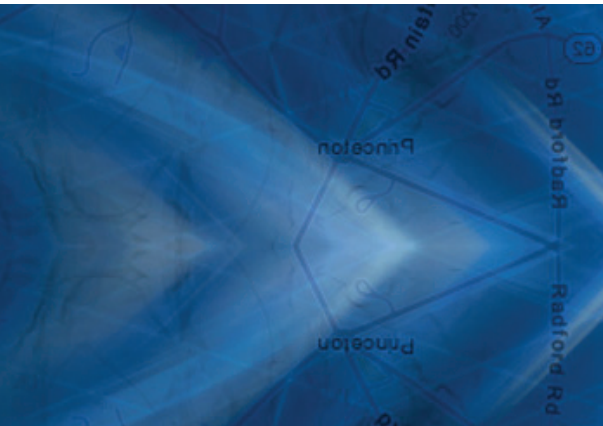
The US department of agriculture (USDA) has announced \$188m in loan guarantees to upgrade rural electric infrastructure, including over \$18m in smart grid funding.

The funding will be used to finance the construction of over 1,000 miles of new or improved electric line.

Rural utilities and projects which received loans under the USDA funding include Seminole Electric Cooperative, Rayle Electric Membership, Goodhue County Cooperative Electric Association, Central Electric Power Cooperative, Central Rural Electric Cooperative, Black Hills Electric Cooperative and Lacreek Electric Association, with \$9.8m going to service improvements for Native American communities.

USDA agriculture secretary Tom Vilsack said funding for rural electric utilities is a cornerstone of the Obama administration's continuing effort to develop a new rural economy. "It is also part of our 'all-of-the-above' strategy to support development of energy from a variety of renewable resources. USDA's support of rural electric utilities' deployment of smart grid technologies will increase efficiencies, reliability, and bring more jobs to rural America," Vilsack added.

USDA figures show that since 2011, rural utilities service borrowers have used funding to invest around \$464m in smart grid improvements.



Design firm hired for network

A contract has been signed between the town of Princeton, Massachusetts and G4S Technology LLC to design a fiber optic broadband network connecting town offices, schools and residences with high-speed Internet access.

The completed design, which will include the total cost needed to build the network, will be brought to a vote at a special town meeting in September.

The network will use new fiber with Princeton's existing utility poles. The location of the fiber optic cables on the poles has been approved by Princeton Municipal Light Department, the owners of the project space allocated. The design will need to connect over 1,350 homes situated on Princeton's 80 miles of road, and is expected to use more than 425,600 feet of fiber optic cable.

Bob Sommerfeld, president of G4S Technology, said: "We believe bringing broadband into smaller communities across the state will make a tremendous impact on economic growth, education and public safety. Community members will also enjoy the speed, reliability and convenience that high-speed broadband services will provide them on a daily basis at their schools, libraries, offices and homes."

Metro on top

Metro Wire and Cable has been selected as one of the Top 200 electrical distributors in the United States for 2013. The honor, best owed by industry-leading publication Electrical Wholesaling, is Metro Wire's second consecutive year in the Top 200, moving up fifteen spots from 2012.

"This honor is a tremendous testament to our employees,

customers, vendors, and [the] communities that we serve," said Donald D Ezop, Metro Wire and Cable president/CEO. "We are humbled by the recognition and proud to be recognized as an industry leader."

Metro Wire & Cable provides value added handling, warehousing, supply chain, and delivery services of wire and cable products for a broad spectrum

of markets, including public utilities, electrical contractors, wind farm developers, commercial and industrial HVAC industries, traffic signal and airport lighting contractors, OEMs and the security industry.





PRODUCTS - MACHINES

& TECHNOLOGY

Improved cable surface cleaning

Helukabel has recently announced a new cable jacket coating to enhance the cable and wire surface cleaning process. Known as Clean Plus, the new coating uses nanotechnology to create a lotus effect on cable jackets, which prevents the adherence of harmful substances such as oils and paints.



The term “lotus effect” refers to an effect found on the lotus flower and other plant species. Tiny protrusions can be seen on the surface of the leaves, only a few microns thick and coated with tiny wax-like crystals. This surface causes water droplets and dirt particles to have limited contact with the leaf, preventing adhesion. Spherical water droplets slide off the leaves removing any dirt particles attached.

Helukabel engineers have created the same effect on cable surfaces, using nanotechnology to make jacket surfaces easier to clean. The cable can easily be

cleaned of surface contamination using water and a cloth. For heavy soiling, pressure washers and steam cleaners can also be used without aggressive detergents that can degrade the outer jacket and affect cable performance.

Cables and wires coated with Clean Plus have excellent non-stick properties and are suitable for construction, medical and food applications. The coating properties have been tested according to DIN EN ISO 1998.

Helukabel will treat new cables with the Clean Plus coating, and incorporate it into its existing product portfolio.

New bend-insensitive fibers

Sterlite Technologies Limited has launched three new products in its bend-insensitive Bow Lite family of fibers: Bow Lite Super (G.657 B3); Bow Lite Plus (G.657 A1); and Bow Lite Enhanced (G.657 A2.B2). All have high specifications for attenuation and macro-bend loss, with tight geometry control making them particularly suitable for FTTH applications.

Optical fiber cables in FTTH networks undergo several tight bends, especially in the distribution section of the network, drop cables found in multi-dwelling units, and cables inside homes. The use of bend-insensitive G.657 fibers in FTTH installations is required as carriers have

to contend with tight power budgets, and uncertain deployment conditions demanding wide safety margins.

Additionally, to keep pace with consumers' increasing bandwidth demands, carriers have to future-proof their network assets, even when deploying current-generation technology. With its low macro bend loss and attenuation, Sterlite bend-insensitive fibers are a practical solution to carriers' FTTH needs, suited to all FTTH architectures and deployment conditions.

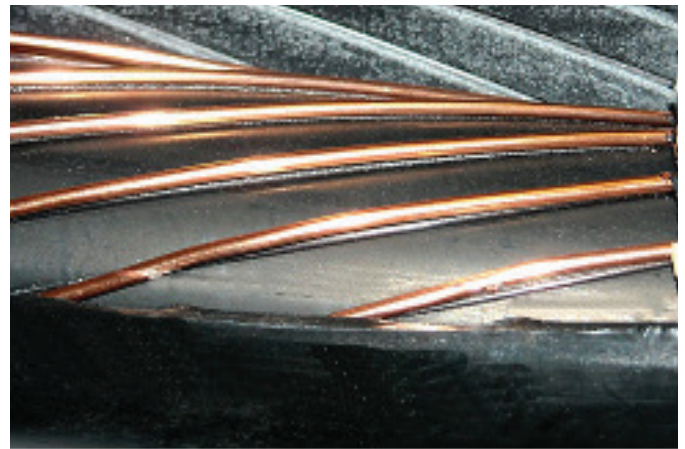
Dr Badri Gomatam, chief technology officer at Sterlite Technologies, said: "We are very pleased with the launch of these products. Being committed to innovation in the core market segments we serve, these new fibers augment Sterlite's product portfolio in optical fibers, and position Sterlite well in addressing the growing demand for telecommunications infrastructure in India and abroad."

Water block for underground cables

Hendrix/Kerite Cable, provider of underground power distribution products, has launched its water-blocking Dual Block™ product, developed to provide a dual water blocking capability on Hendrix primary underground cable.

Water is highly detrimental to primary cable, as water entering the cable core

can lead to premature failure. Hendrix Dual Block helps prevent this from occurring.



First, a fill compound is continuously applied into the conductor interstices to prevent longitudinal water migration.

This is followed by a second, water-swelling powder applied beneath the polyethylene jacket. This prevents water from migrating along the neutral wires, under the jacket. Together, these two applications provide a reliable barrier to prevent water from entering the cable core.

Dual Block is now an option for all Hendrix stranded conductor cables.

Cables under instruction

Rockbestos-Surprenant Cable Corporation (R-SCC) has released an instruction manual for its aluminum-armor Gardex cables, including recommendations for installation and termination. The Gardex line of armored power, instrumentation and control cables

are completely self-contained wiring systems, designed for use in applications that demand resistance to mechanical and physical abuse. Gardex armor is impervious to water, gas and corrosive elements, and meets stringent class 1, division 1 requirements.

Included in the Gardex line is Gardex CRC®, an armored cable designed for highly critical electrical circuits that may be subject to very high temperatures, vibrations and flames.

R-SCC has supplied specialist wire and cable to the offshore industry for over 30 years. It is a member of the Marmon Group, an association of 100 operating companies that includes 11 wire and cable manufacturers.



Marmon wire and cable businesses include Aetna Insulated Wire, Cable USA, Cerro Wire, Comtran, Dekoron Wire and Cable,

Dekoron Unitherm, Harbour Industries, Hendrix Wire and Cable, Kerite, Owl Wire and Cable, PMC and Rockbestos-Surprenant. In 2008 the Marmon Group, and TE Wire and Cable LLC, became part of the Berkshire Hathaway group.

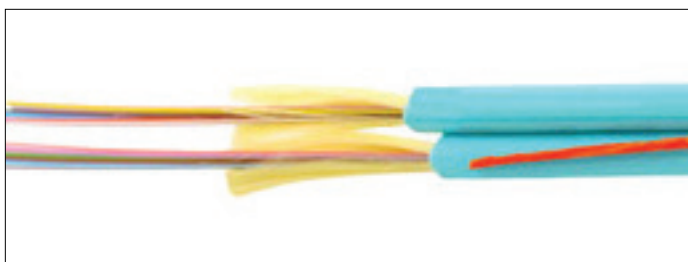
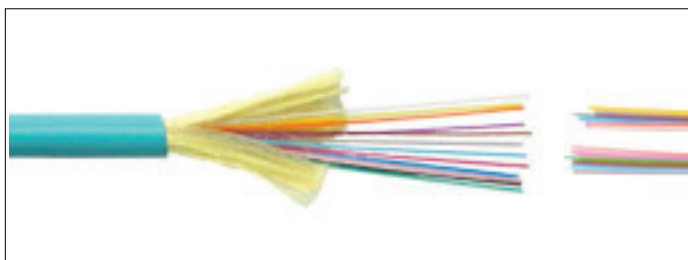
Microarray data center cables

Superior Essex has launched a microarray data center cables range, a line of loose tube fiber cables designed for high-density installations. New additions are the 24-fiber single unit plenum cables and the 144-fiber riser and plenum microarray breakout cables. The new products offer customers a full line of fiber counts and types including plenum and riser 12 and 24-fiber interconnect cables and 24, 48, 72, 96 and 144 fiber plenum and riser breakout cables, all available in either TeraFlex single mode or multimode bend insensitive OM3 or OM4 fibers.

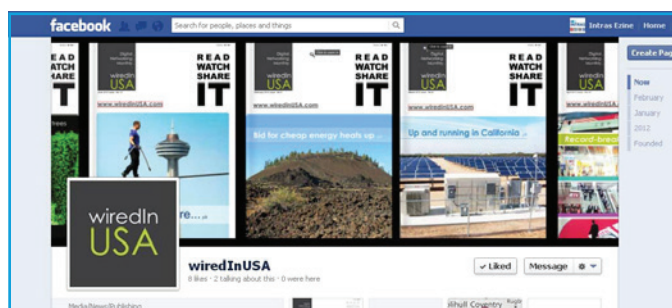
The cables feature a small, compact design in a high performance loose tube form and include aramid yarns, allowing crimping directly to the 12-fiber or 24-fiber MTP/MPO array connectors. To provide quick and easy installation, each cable is equipped with a flexible, low smoke PVC plenum or riser-rated jacket.

The microarray cables are part of the nCompass structured cabling systems, supporting advanced network

performance requirements and used in several applications, such as 10Gb, 40Gb, and 100Gb Ethernet and legacy speeds, data center plug and play installations, outside plant (OSP) to premises transitions, trunk applications, high density installations, and MTP/MPO connectors.



Microarray data center cables range from Superior Essex



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