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March 2015 issue - No 45

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#45 EDITOR

Dubai's airport has just become the first airport in the world to have been equipped with a complete LED airfield lighting system. The impressive project included fitting 1,300km of cable and 8,200 LED lights in just 80 days – while the airport remained operational throughout.

What makes this even more impressive is that the airport has recently overtaken Heathrow, London, UK, as the busiest airport in the world, catering for 70.4 million passengers throughout 2014. The full story can be found on page 9.

Living up to its name is Apple. The company is investing \$848m for a solar photovoltaic plant to power the majority of its sites in California. Built on a 1,300-acre site in Monterey County, the plant will provide enough power to supply its headquarters in Cupertino, its data center in Newark, all Apple offices and 52 stores. Full details are on page 10.

Also in this issue we start looking forward to Interwire, which is being staged in Atlanta, Georgia, USA, from 27th to 30th April. The exhibitor listing and details of some of the companies exhibiting start on page 40.

David Bell
Editor

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PRODUCTS, MACHINES AND TECHNOLOGY / The latest news from machine industries

NEWS

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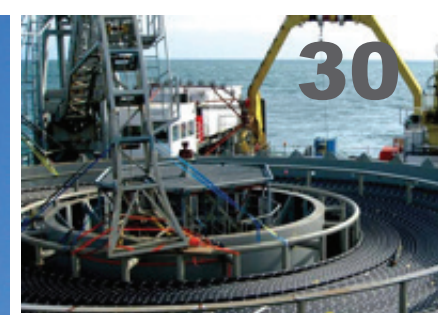
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Wire & Cable ASIA magazines

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Special INTERWIRE 2015



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DIARY SHOW EVENTS

2015

MARCH

23-27 March 2015
NPE2015
Orlando, Florida, USA
Exhibition
www.npe.org

APRIL

28-30 April 2015
Interwire 2015
Atlanta, Georgia, USA
Exhibition
www.wirenet.org

MAY

12-15 May 2015
wire Russia
Moscow, Russia
Exhibition
www.wire-russia.com

SEPTEMBER

15-17 September 2015
wire Southeast Asia
Bangkok, Thailand
Exhibition
www.wire-southeastasia.com

OCTOBER

6-8 October 2015
wire South America
São Paulo, Brazil
Exhibition
www.wire-south-america.com

2016

APRIL

4-8 April 2016
wire Düsseldorf
Düsseldorf, Germany
Exhibition
www.wire.de

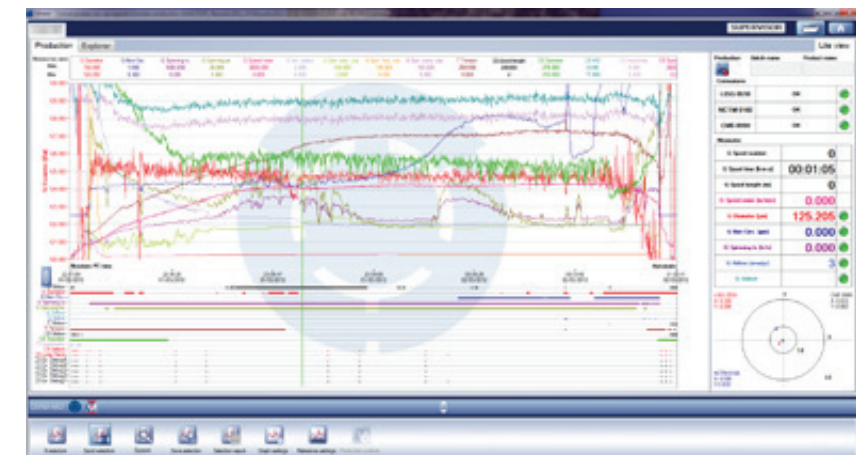


Measure & Control
Instruments



LIS-Glass:

CIM PC software:



Laser Interferometric Sensor

- Diameter repeatability: $\pm 0.005\mu\text{m}$ at 50kHz
- Diameter uncertainty: $\pm 0.15\mu\text{m}$
- Defect detection 75kHz, event recording
- Ultra fine air line detection, $0.3\mu\text{m}$, 400Hz
- Fibre position: $\pm 2\text{mm}$ range $\pm 0.1\text{mm}$, 1kHz
- Spinning frequency profile
- Fibre no circularity measurement

NCTM:

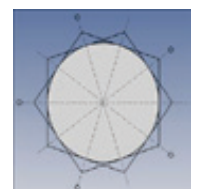
Non Contact Tension Measurement
(Drawing force Birefringence principle)

- 0-400 grams $\pm 1\text{gram}$, 1kHz
- Measurement field: 4mm \varnothing
- $\pm 1\text{ gr}$ within 10-40°C ambient

CM5:

Coating Monitor 5 axes

- Absolute diameter: $\pm 0.2\mu\text{m}$, 400Hz
- XY Positions $\pm 0.1\text{mm}$ 1kHz
- 5 axes Lump & Neck: $\pm 2\mu\text{m}$, 3.6MHz sampling
- Coating asymmetry: 30Hz
- Internal defect detection: 800kHz (Airlines, bubbles, inclusions, delaminations...)



Others:

AIR (AIRline detector)
LDS-T (Laser Diffraction Sensor for transparent product)



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- Conforms to CE standards

¹±0.02% of product size

- ✓ **Faster product changeovers**
- ✓ **Complete process control**
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- ✓ **Greater manufacturing savings**



(Go to Resources/Literature/ Application Notes)

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MAKING THE NEWS

80 days make lights work

The southern and northern runways at Dubai International airport (DXB) have been equipped with one of the world's first complete LED airfield lighting systems.

The project was designed to help the airport accommodate future growth. Honeywell installed over 8,200 LED lights and 1,300km of cabling in just 80 days, with the airport remaining operational throughout the process.

Honeywell said in a media statement that the improvements are critical to the airport's long-term viability and success. According to figures for the Airport Council International, DXB recently overtook London Heathrow as the busiest airport in the world, serving more than 70.4 million passengers during 2014.

"We are extremely proud to have been a part of the DXB runway refurbishment success story. This project is a game-changer in terms of promoting efficient, safe and reliable airfield operations," said Norm Gilsdorf, president, Honeywell Middle East, Russia and Central Asia.

He added: "Dubai's aviation sector has experienced phenomenal growth and we commend Dubai Airports for its forward-looking approach. The airport has set a blueprint for innovation across the Middle East and the world."

The LED lighting system helps to promote more sustainable operations, enabling savings on energy usage and the associated costs, and a reduction in downtime for maintenance.

Green to the core?

Apple CEO, Tim Cook, has committed to invest \$848 million in a solar photovoltaic plant to power the majority of the company's offices and retail stores in California.

The plant will be built on a 1,300 acre site in Monterey County, and will generate enough energy to supply Apple's Cupertino headquarters, its data center in Newark, all Apple offices and 52 stores.

Cook told investors: "We are doing this because it's right to do, but you may also be interested to know that it's good financially to do it. We expect to have very significant savings, because we have a fixed price for the renewable energy, and there's quite a difference between that price and the price of brown energy."

Apple's price is fixed for 25 years. Construction is expected to begin in mid-2015, and should be finished by the end of 2016.

The project is part of the California Flats project on Hearst's 73,000 acre Jack Ranch, and will become one of the largest ever built for a commercial user. It will add 130MW of new solar power to California, enough to power about 50,000 California homes.

Apple has invested heavily in renewable energy, most notably to run the data centers that power iCloud, iTunes and other Internet-based services. Elsewhere, Apple's Oregon facilities are powered by a hydroelectric plant and wind energy; its California data center uses wind energy; and its Nevada facility relies on solar and geothermal energy.



(2) PUBLIC AUCTIONS



Assets Surplus to Ongoing Operations



LIVE WEBCAST AUCTION
Sale #1: Thur., March 5th, 2015, 10:00AM ET

ONLINE AUCTION
Sale #2: Thur., March 12th, 2015, 1:00PM ET

Inspection: Wed., March 4th, from 9AM - 4PM ET
Location: Tarboro, NC

OVER 800 LOTS OFFERED

MAILLEFER Insulation Line; **(9)** Tandem Insulation Lines; **(6)** **CORTINOVIS** 500mm Group Twinners; **VAUGHN** 10DMT Rod Breakdown Mill; **ESSEX HERMAN** Rod Breakdown Mill; **SAMP** TR/2-TP-2 Drawer/Annealer; **CEECO** 96" Fork Type Closing Line; **CEECO** 72" Fork Type Closing Line; (6) 6" & 4.5" **JACKET EXTRUSION LINES**; 24-Wire 48" **RIGID CABLER LINE**; **PLUS: BARTELL, TULSA, CORTINOVIS, ROYLE** Payoffs & Take-ups; **MGS & BARTELL** Caterpiller Capstans; **DCM** Test Sets; Twinners; Repair and Rewind Lines; Twisters; Downcoiler; Compound Handling Equipment; Filtration Equipment



For Additional Info, Please Contact:
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Consolidating production

Insteel Industries Inc will close its prestressed concrete strand facility in Georgia, and move manufacturing to three PC strand production facilities in Tennessee, Texas and Florida.

The Newnan facility was acquired from American Spring Wire Corporation in August 2014. Employees at Newnan will be offered employment at Insteel's other facilities, with relocation and transition assistance. Operations at Newnan will end during March 2015 and the PC strand-related equipment relocated to Insteel's other facilities.

The annualized cost savings from the consolidation of the plants is expected to be approximately \$3million. "The actions we are taking to consolidate our PC strand facilities will strengthen our market leadership position by aligning our manufacturing capacities with the requirements of our markets and reducing our operating costs," said HO Woltz III, Insteel's president and chief executive officer.

"Our decision to close the Newnan facility was made only after thoroughly evaluating other alternatives and we are committed to making the transition as smooth as possible for the employees who are impacted."



Insteel...on the move. Photograph courtesy of Insteel



INTERWIRE TRADE EXPOSITION

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CANADA HEADS FOR THE UK

Canadian Solar Inc has announced the acquisition of solar power projects in the UK. The projects will generate 46MW in total.

Four projects are currently under construction, and are expected to be connected to the grid in March 2015. Two more projects were expected to be under construction before the end of February, and will be connected to the grid in the second quarter of 2015.

"We are delighted to enter the United Kingdom solar energy market with the acquisition of this portfolio of projects.

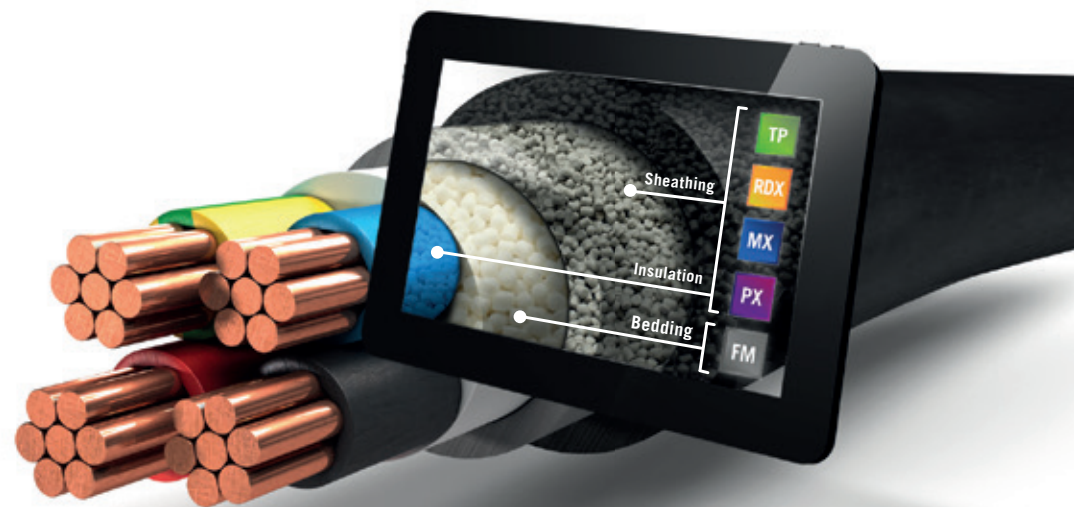
The United Kingdom is an important and rapidly growing solar market and these transactions provide us with an attractive opportunity to leverage our expertise and balance sheet to redeploy capital to support our growth and create value for our shareholders,"

said Dr Shawn Qu, chairman and chief executive officer of Canadian Solar.

"We continue to evaluate several opportunities to expand our solar pipeline in the United Kingdom and look forward to making further announcements in the quarters ahead."

The six projects will produce approximately 50,183kWh of electricity per year.

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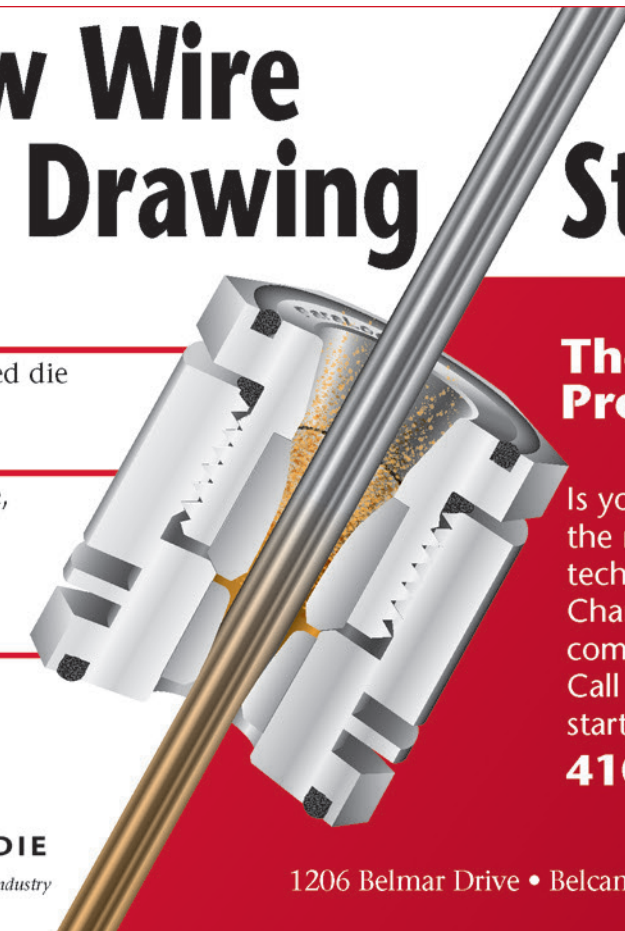


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What the product can do

FT4 full scale Flame/Smoke test - Cone calorimetry

UL spec

New filler blend

MDH only

Cable jacket*	Char length [cm]	Total smoke release [m ²]	Peak of smoke [m ² /s]
IEEE 1202 / FT4 spec	<1.5 m	<150	<0.4
MDH only	30 cm	1.0	0.001
MDH only	2000 cm	1.3	0.005

OBJECTIVE

- Greater overall TC cable design flexibility
- Reduced cable jacket thickness
- No need for inner core wrapping FR tape
- Greater core design flexibility

Science behind it

Hard char forming
High temperature DSC-TGA

Gradient furnace simulation of FT4 flame test

Char Morphology-SEM

Char Interface

Product differentiation
UL 1277/CSA -C22.2 tray cable

New technology platform development

New Tray cable product design

Enhanced fire resistance in full scale FT4 (Pass)

Close to zero smoke even in combination with halogenated inner core (Pass)

High tensile elongation >250-350%, good cable flexibility, full UL1277 protocol

Unique fillers combinations capability

Flame temperature gradient match in horizontal or vertical cable

"Hard char barrier" forming when exposed to fire

Fillers designed to decompose in the temperature gradient of FT4

Unique interfacial design of fillers, coupling agent and polymer matrix

Other applications
AWM, instrument and data cable

Fundamental understanding

High interfacial adhesion via filler polymer interface design

Hard cohesive char formation via eutectic fillers blend formation

Cable physical properties

DOE Tensile elongation

Cable jacket* material	UL1581 90C FRPE	MFB 1	MDH only
% retention tensile strength	85	100	110
% ret. elong.			120
Hot deformation (100° C)	0% Pass	0% Pass	0% Pass
Cold bend (-20° C)	no visual damage	Pass	Pass

Poster showcase

Generating variety

Indiana Michigan Power (I&M) will add solar energy to its generation assets following the Indiana utility regulatory commission's approval of the company's plans for five solar facilities with a combined capacity of nearly 16MW.

Three of the facilities will be in the Michiana area, including two in St Joseph County, and one near Watervliet, Michigan. A fourth will be in Marion, Indiana, and a fifth location is yet to be finalized.

"Our Clean Energy solar pilot project is a significant step forward for Indiana Michigan Power," said Paul Chodak III, I&M's president and chief operating officer. "This historic utility-scale solar project will further diversify I&M's generation sources, creating flexibility to economically and reliably provide energy under a multitude of potential circumstances."

"Most importantly, I&M will own and operate these facilities and gain first-hand experience in the design and construction of utility-scale solar projects as well as integrating solar energy reliably into the grid," Chodak added.

The four confirmed facilities will be on I&M property near existing and future I&M substations, minimizing the cost of delivering the energy to the transmission grid.

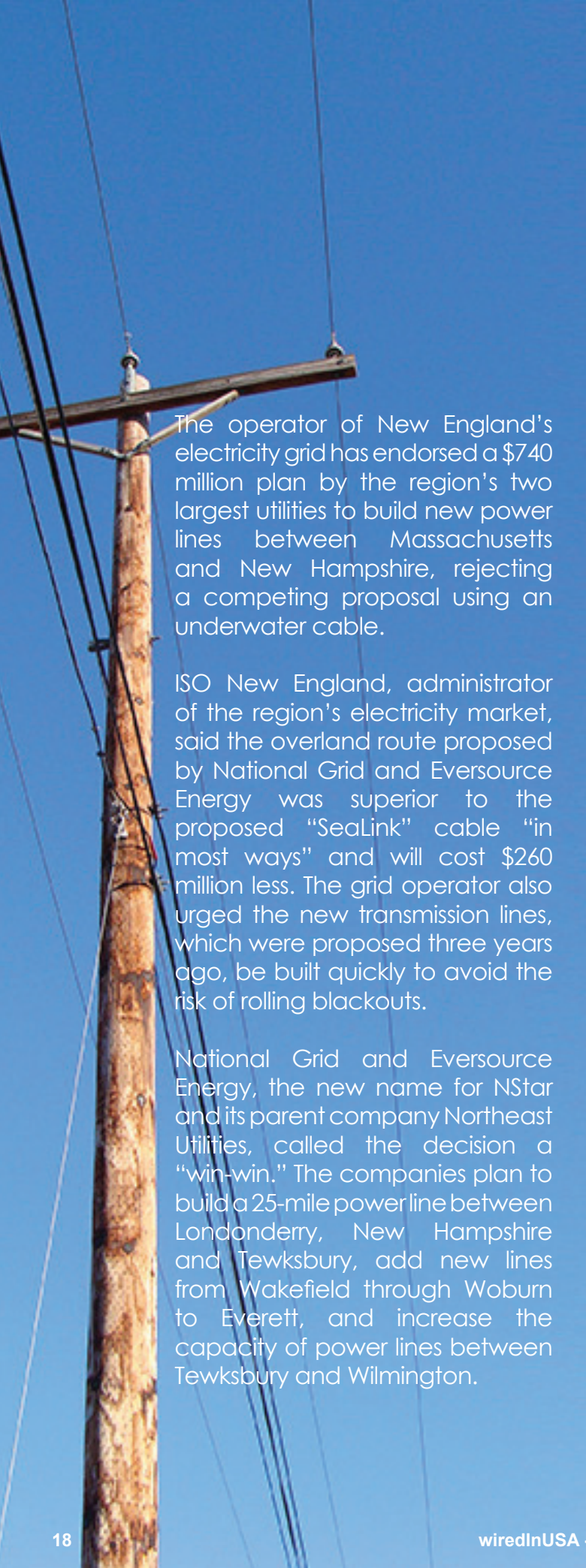
The estimated cost of the project is \$38 million. Indiana Michigan Power operates 3,595MW of coal-fired generation in Indiana, 2,110MW of nuclear generation in Michigan and 22MW of hydro generation in both states. The company also provides 250MW of purchased wind generation.

At IWCS 2014, Saco Polymers showcased its latest development in ceramifiable compound technology, with a research paper and poster highlighting the potential cost savings and performance of the material in tray cable jacketing applications.

Formulated to meet stringent UL 1277 tray cable standards, with enhanced fire performance properties while preserving flexibility, the new ceramifiable compound extends the range of halogen-free compounds available from Saco Polymers. The new compound technology can also be used in other high performance cable applications.

The research paper was presented by Zdenka B Stryczek PhD and David G Roberts, MS chief technology officer. The poster illustrates the use of ceramifiable technology in compound formulation and the science behind strong char formation in cable jackets when exposed to fire. This new technology may be applied to different cable constructions where enhanced fire retardant properties, flexibility and fire resistance are required.

The poster won the best poster award at IWCS 2014.



Power lines get the vote

The operator of New England's electricity grid has endorsed a \$740 million plan by the region's two largest utilities to build new power lines between Massachusetts and New Hampshire, rejecting a competing proposal using an underwater cable.

ISO New England, administrator of the region's electricity market, said the overland route proposed by National Grid and Eversource Energy was superior to the proposed "SeaLink" cable "in most ways" and will cost \$260 million less. The grid operator also urged the new transmission lines, which were proposed three years ago, be built quickly to avoid the risk of rolling blackouts.

National Grid and Eversource Energy, the new name for NStar and its parent company Northeast Utilities, called the decision a "win-win." The companies plan to build a 25-mile power line between Londonderry, New Hampshire and Tewksbury, add new lines from Wakefield through Woburn to Everett, and increase the capacity of power lines between Tewksbury and Wilmington.

The proposals for new power lines came after a 2010 study by ISO New England concluded the Boston area would need more transmission lines because of the shutdown of the Salem Harbor power plant, a process that concluded last summer. The cost of either project would ultimately be borne by ratepayers.

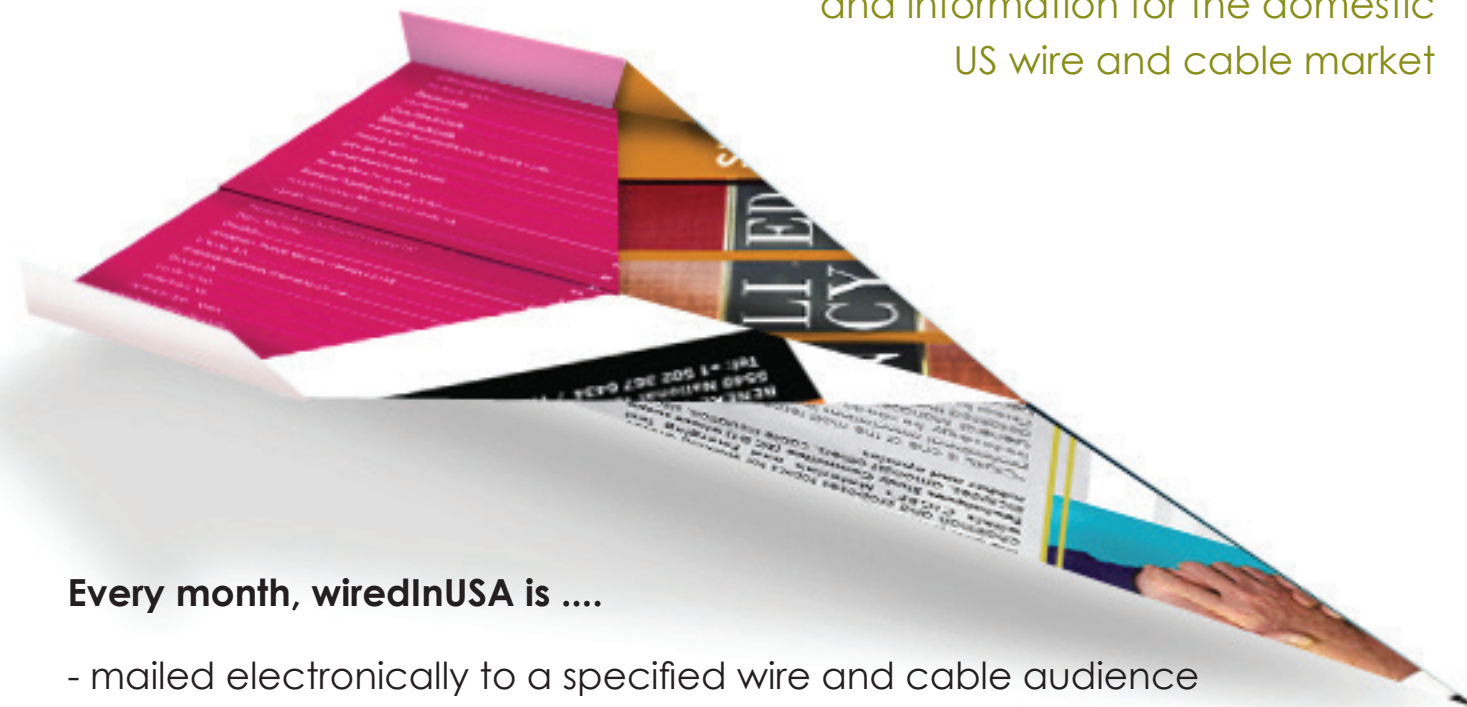
In its analysis, the ISO said the high voltage cables would be cheaper to install and more reliable to operate in all but the most extreme circumstances, such as the total failure of an electrical substation. The project would be completed by 2018.

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Florida fiber

Comcast Business is investing millions of dollars in network enhancements in Palm Beach County to expand its high-speed fiber optic Ethernet and Internet service options. The new fiber-based Ethernet network is capable of delivering speeds up to 10Gbps. These upgrades will support the area's thriving business climate, which recently led Forbes Magazine to name West Palm Beach as the top city in Florida for business and careers.

Access to higher bandwidths is becoming essential for businesses to operate smoothly and efficiently. A Cisco study found that global IP traffic has quadrupled in the past five years and is expected to triple in the next five.

Comcast's fiber-based Ethernet network is ideal for business operations that require higher bandwidths to move high data traffic such as video conferencing, streaming, multiple users on a Wi-Fi network as well as file sharing and back-up and cloud-based applications. In addition, this network is capable of connecting multiple locations of one company as if they were in the same building.

As a standalone service provider, Comcast's fiber services can also be used by businesses that need a redundant or second network for enhanced security and to ensure file access, back-up and recovery in the event of a natural disaster such as a hurricane or power outage.

Profit sharing

In December 2014 Allied Wire & Cable's 9th annual charity week raised over \$18,000 for the Humane Society and the Make-A-Wish Foundation.

Each year during charity week, a percentage of all sales goes to chosen causes. In 2014, half of the total donation, about \$9,000, went to the Make-A-Wish Foundation, an organization that works to support and inspire hope in children with life-threatening illnesses. Allied has a long-standing relationship with Make-A-Wish over the years, and is proud to have been able to help make many wishes come true.

Karen Traten, director of partnerships and communications at Make-A-Wish, thanked Allied, saying: "We appreciate your loyal

support of our mission. Without supporters like you, we would cease to exist as an organization. Your gift does make an important, lifelong impact on the children we serve. Thank you."

The other half of the total went to the Humane Society, an animal advocacy organization. The charity and its affiliates give direct care to over 100,000 animals each year. When presented with the \$9,000 donation, Sarah Speed, PA state director of the Humane Society, said: "We at the Humane Society of the United States are so grateful for the continued support of Allied Wire and Cable. With AWC's support we are cracking down on puppy mills, putting an end to dogfighting and working to ban tethering statewide."

Using wire rope

The Wire Rope Technical Board has published an electronic version of the fourth edition of its Wire Rope User's Manual. The document is available on a flash drive and can be read by both PC and Mac operating systems.

The 160-page manual includes information on all areas of wire rope implementation, including wire rope components, identification and construction, handling and installation, operation, inspection and maintenance, and physical properties.

The latest edition includes an additional section on the safe use of rope and sling products.

New alliances

Allied Wire & Cable announced in January that "unparalleled growth and development" necessitated a "significant expansion" of its sales departments throughout the country.

In February the company was joined by Susanne Seibert and Chris Jodoin, both respected within the wire and cable industry and with nearly 40 years of industry experience between them.

Susanne Seibert will be based at Allied's Wisconsin office. Chris Jodoin, based in New York, previously worked for 24 years as an inside sales representative at Simcona Electronics Corp.

Allied is pleased to have recruited these highly qualified and enthusiastic professionals, but further hires are expected. The company is seeking more industry veterans and next-generation wire and cable experts alike.

Steel wire investment

Marlin Steel Wire Products, in South Baltimore, has plans to increase its factory space by 50 percent. Construction and new equipment are expected to cost around \$2.5 million.

"It's a lot of investment," said company president Drew Greenblatt. "It shows our optimism. We're very bullish about the future. There's an American manufacturing renaissance going on, and we're leading the charge." In 2014 the company recorded sales of \$5.5 million in sales of steel baskets, brackets, wire forms and custom pieces used by manufacturers including Toyota, Honda, General Motors, Caterpillar, Pfizer and Merck.

Marlin uses 20 robots operating in cages, some with human helpers. Greenblatt said automating the simplest tasks, such as bending steel wire into standard shapes, makes it possible for Marlin to compete on price and still pay decent wages.

Racking up orders

GameChange Racking has announced its contract for 10.9 million kilograms (24 million pounds) of steel and aluminum to fulfill the first half of 2015's 500MW of consumer demand for ground and rooftop PV racking systems.

GameChange Racking produces PV mounting systems for medium and large commercial and utility-scale projects.

Andrew Worden, CEO of GameChange Racking, said: "GameChange Racking has secured backlog and pipeline for sales of over 500MW in 2015 and nearly 1,000 MW in 2016. With four roll forming plants, three aluminum extrusion facilities and three metal fabrication operations nationwide, we are poised to meet the rapid growth rate we are experiencing as the US solar PV industry sets new records."



David Braun has joined Teknor Apex Company as wire and cable industry manager for the vinyl division.

Mr Braun will direct all marketing and business development activities for the division's wire and cable products, including compounds and elastomers.

David Braun comes to Teknor Apex from Cable Components, LLC where he was vice president and managing director. He entered the wire and cable industry in 1992 as a sales engineer at Neptco Inc, subsequently serving as product manager and then business unit manager.

Mr Braun holds an MBA from Bryant University in Smithfield, Rhode Island, and a BSc in chemical engineering from the University of Massachusetts at Amherst. He is a member of the International Wire and Cable Symposium committee and was 2012 chairman. He is also active in BICSI, serves on the board of the CCCA, and is the holder of two patents relating to cable technology.

MANAGEMENT
APPOINTMENT
FOR VINYL

Network upgrades

Network service provider Indiana Fiber Network LLC (IFN) has revealed a multi-year network expansion plan to add 100 Gigabit Ethernet transport capabilities and improve network reliability using a meshed architecture.

The company, formed in March 2002, is owned by 20 local exchange telephone companies across the state. It provides a variety of services, including fiber optic broadband, to urban and rural areas in 52 Indiana counties.

IFN's core network electronics upgrade will be implemented in two phases. The first phase will cover over 1,200 fiber route miles in northern Indiana, passing through (amongst others) Lafayette, Fort Wayne, Anderson and Indianapolis. The second phase will address over 1,300 fiber route miles in southern Indiana, including routes through Jeffersonville, Columbus, Greenwood and Indianapolis. Completion is expected by 2016.

The upgrade will include new ROADM platforms. "This deployment, coupled with the deployment of multi-terabit optical switches which will be configured to provide a meshed protection scheme, allows IFN to offer an enhanced range of high speed fiber transport services, including 1 Gigabit Ethernet, 10 Gigabit Ethernet, and 100 Gigabit Ethernet to carriers, service providers, and enterprise customers," said Tom Bechtel, IFN's vice president of operations.

New recruits

The members of the Communications Cable & Connectivity Association (CCCA) have been joined by Graybar, Hitachi Cable America, Prysmian Group, and Teknor Apex.

CCCA addresses quality, performance, non-compliance, fire safety, sustainability and counterfeit issues and how they affect the structured cabling industry as a whole and all those served by using the products. Programs range from the education on dangers of non-compliant and/or counterfeit products, to the most effective use of structured cabling in the data center, to collaborations on best practices for the design of sustainable cabling infrastructure projects.

The full list of CCCA member companies is now: Accu-Tech; AlphaGary; Anixter; Belden; Berk-Tek; Cable Components Group; comCables; CommScope; Daikin America; DuPont; General Cable; Graybar; Hitachi Cable; Leviton; Optical Cable Corporation (OCC); OFS; Panduit; PolyOne; Prysmian Group; Sentinel Connector Systems; Solvay Specialty Polymers; Superior Essex; TE Connectivity; Teknor Apex; The Siemon Company; and 3M.

Council response

Fiber to the Home (FTTH) Council Americas has filed its comments in response to the Federal Communications Commission's notice of proposed rulemaking in the technology transitions proceeding.

Heather Burnett Gold, president and CEO of the FTTH Council Americas, said: "For over a decade, the federal government has sought to accelerate the deployment of all-fiber networks, because fiber is more reliable and performs better than other technologies. These networks drive economic growth, social interaction, and civic participation. But rebuilding our communications infrastructure with fiber is time-consuming and expensive. It requires communities, governments, and the private sector to all pull in the same direction.

"Thus, the FTTH Council and its members are troubled by any move that would make building these networks more expensive. The record shows that all-fiber service providers and their vendors are behaving responsibly, providing sufficient customer notice and capabilities – and consumers are not reporting any adverse effects.



ENGINEERING APPOINTMENT

RSCC Wire & Cable LLC has promoted Altin Dabulla to engineering manager, reporting to Robert Canny, vice president-GM of Exane Products. In his new role, Dabulla will be responsible for Exane standards engineering, application engineering for transit, fire safety and industrial products including oversight of the RSCC Exane engineering support team.

Dabulla joined RSCC in August 2014 after serving as program manager at Rexam PLC. He previously held a position in applications engineering at General Cable, Willimantic, Connecticut.

EUROPE NEWS

CABLE JOBS BOOM IN MOLDOVA

Japanese cable manufacturer Sumitomo Electric Bordnetze has unveiled plans to set up a new production facility in Chisinau, the capital of Moldova. The development will create between 1,000 and 2,500 new jobs at the plant, which will make a wide range of cables. Under the plan, the facility will supply its output to the Volkswagen Group, including the Czech Republic's Škoda.

Moldovan prime minister Iurie Leancă said that, at present, over 50 percent of the goods manufactured by Moldovan-based firms are intended for export sales to

the European Union markets, and that the country's government is aiming to attract major foreign investors to set up new production facilities in Moldova. "Every investment...made in the national economy is a catalyst for the creation of new jobs," Mr Leancă added.

Over recent years, the Japanese firm has been expanding its presence in Eastern Europe, with local subsidiaries established in Poland (2003) Bulgaria (2006) and Romania in 2010.

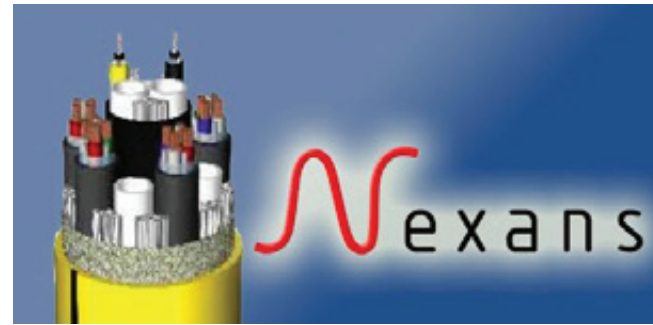


Marked investment

Swiss wire processing solutions manufacturer Komax has acquired a 20 percent stake in Laselec SA, a developer of UV laser technology for wire and cable marking.

The financial contribution will allow Laselec to continue research and development while launching the industrialization and commercialization of new products for the wire processing industry. A strategic partnership between Laselec and Komax will further synergies on a technical level and joint customer projects as well as sales and services.

Laselec has a strong position in the aerospace industry with its laser wire marking, Eastwiring digital harness layout board, and laser stripping technology. The ULYS Modena, MRO 200 and Sylade machines are used worldwide by aircraft manufacturers, sub-contractors and MRO centers. The company has diversified its activities across other market segments including the railway industry, nuclear industry and luxury automotive industry.



HVDC link

The Norwegian and German power grids are to share green energy using Nexans submarine HVDC cables, installed as part of the NordLink project. In Nexans' largest contract of its type, the company will design, manufacture and install over 700km of 525kV cable subsystems. Production of the cables will begin at Nexans' Halden plant in Norway in 2016, and the project is due for completion in 2019.

The 1,400MW NordLink VSC (voltage source converter) HVDC project is a collaboration between Statnett, TenneT and the German promotional bank KfW. Surplus wind and solar power produced in Germany will be exported to Norway, and hydroelectric power from Norway can be exported to Germany.

Mass impregnated non-draining (MIND) HVDC cables will be laid at depths to 450m by Nexans' own cable-laying vessel, C/S Nexans Skagerrak and protected on the seabed by trenching with Nexans' Capjet system.



Prysmian's Kuwait upgrade

Prysmian Group has two major new orders for power transmission system expansion projects in Kuwait. The contracts refer to "MEW 06 Jaber Al Ahmed City", awarded directly by MEW (Kuwait ministry for electricity and water) and "Jamal Abdel Nasser Street", awarded by ROBT, a joint venture of Rizzani de Eccher-OHL under a larger scope contract with the Kuwait ministry of works.

MEW 06 Jaber Al Ahmed City is part of the Kuwait power transmission system expansion plan aimed at strengthening the main transmission networks and at securing power supplies to the industrial and residential sectors in the country. Jamal Abdel Nasser Street is part of a substantial upgrade of a main traffic artery in the middle of Kuwait City and involves the diversion of a high voltage underground line.

The contracts comprise design, engineering, procurement, construction, installation and commissioning services of HV underground cable systems for a total of 210km of 132kV cable and related network components for both projects that will be implemented by the group's offices in Kuwait. Installation will start in 2015 with a planned completion date during 2016.



Expanding cables

Leoni is strengthening its position in the markets of the Americas and Asia with new plants in Mexico and China.

The new plant in Celaya, Mexico, will begin production of single-core automotive cables in June. With this additional expansion and the existing facility in Cuauhtémoc, Leoni's Mexican workforce will increase to 800. Leoni is planning to spend around \$7 million on plant and equipment in Mexico by the end of the year.

The company's second new plant for standard automotive cables is in Panjin, north-east China. The plant will have several extruder lines, multi-wire drawing lines, and stranding and twisting machines, and will manufacture single-core cables for automotive applications with cross sections ranging from 0.13mm² to 6mm².

"These locations in China and Mexico boast developed industry, a solid infrastructure, skilled labor as well as excellent transport links – this constitutes a stable foundation for establishing and broadening Leoni's market position," said Dr Frank Hiller, management board member in charge of the wire and cable solutions division. Production is scheduled to commence at the end of 2015.



Finnish fiber goes faster

FNE-Finland Oy, an alternative backbone capacity provider founded by a group of Finnish telecommunications companies, will upgrade its fiber optic network to support 100Gbps optical transmission. According to the equipment provider, the project will leverage Transmode's Metro 100G packet optical transport systems.

The 100G deployment is driven by a single data center customer but will also enable FNE-Finland to expand its service offerings and customer range. FNE-Finland is already using Transmode optical transport systems in its network.

Johan Grönlund, Transmode's vice president sales, Nordics, said, "This ongoing deployment with FNE-Finland Oy demonstrates how our customers can move quickly to a 100G solution without disruption and at a much lower cost than other options. Using the Transmode 100G solution, FNE is now expanding the capabilities of its network and creating high capacity solutions for its customers."



Danish power

The 600MW Kriegers Flak offshore wind farm will use Nexans' 400kV aluminum XLPE cables within its grid connection. The cables have an aluminum conductor and aluminum screen and were selected by Energinet.dk. Torben Glar Nielsen, chief technical officer at Energinet.dk, said: "It is important to have a partner who understands the technical needs of the project and has the ability to complete it." The grid connection must be in operation by the end of 2018. Cables will be manufactured at Nexans' plant in Charleroi, Belgium.

Nexans will manufacture and supply 57km of 400kV XLPE cables for an underground system to connect the wind farm to the Danish grid, and will supervise the installation process.

Energinet.dk is also executing a national cable action plan, dismantling 2,900km of overhead lines and laying 2,600km of cable by 2030. Energinet.dk and Nexans have previously worked together on the Køge Bugt project, part of the cable action plan, with 900km of underground cable already installed.

The Kriegers Flak offshore wind farm will be located in the Danish exclusive economic zone, 25km east of the island Møn in the Baltic Sea.



Manufacturing move

Elkabel, one of Bulgaria's leading cable makers, has announced plans to invest up to €51million to develop a new production facility. The factory will be located in the Burgas industrial zone, in the country's southeast, about 12km from the company's headquarters and main production site in Burgas.

"We hope that the demand for cables will experience growth in the forthcoming years. Such a trend would considerably accelerate the investment," said Vasil Bozhinov, the company's director general. The company is planning to relocate production to the new factory.

Elkabel makes a wide range of cables and conductors using a range of plastics, including PVC and PE. In addition to the domestic market, including its own store in Burgas, the Bulgarian manufacturer says it supplies its output to a number of foreign markets, with exports representing about 40 percent of Elkabel's total production. The firm's major export destinations include Europe, the UK, Macedonia, Albania, Egypt, Russia, Ukraine, Uruguay and the US.



Tire cord acquisition

Bekaert has acquired the Pirelli steel cord plant in Izmit, Turkey, to be renamed Bekaert Kartepe Çelik Kord Sanayi ve Ticaret AS. The deal follows the ownership transfer of the steel cord plants in Figline (Italy), Slatina (Romania), and Sumaré (Brazil) announced in late 2014.

The integration process of the Turkish facility into the Bekaert Group will begin immediately, with the financial results of the entity included in the consolidated statements of Bekaert as from 1st February 2015. The agreement between Bekaert and Pirelli also includes Pirelli's steel cord activities in Yanzhou (China) although this fifth acquisition is awaiting regulatory approvals.

The integration of the steel cord activities and a long-term supply agreement are expected to enhance Bekaert's status as a preferred supplier to the tire industry.

IWMA Chairman's Report 2014-15 by Steven Rika



The executive board meeting in June proved to be a landmark meeting. It was decided that we now had a team of board members and staff with the appetite to drive the association forward. This decision resulted in a move from the Intras office in Leamington Spa, Warwickshire, which had been our home since the inception of the association in 1970.

I would like to take this opportunity of thanking Intras for the help and assistance we have had over four decades in building the IWMA into what it is today.

The new premises at Wellington House, Solihull, Birmingham, provides the required facilities and is ideally situated in the vicinity of Birmingham International Airport, has a rail link and is on the junction of the motorway networks.

2014 has once again been a very eventful year for the IWMA.

The year began with our AGM in February which, as usual, preceded the 'Meet the Industry' luncheon held at The Mere Resort & Spa, Knutsford, UK.

From there we were straight into our flagship wire event in Düsseldorf, which again proved to be another very successful event.

Early June saw the annual golf day competition staged at our traditional venue, Fairhaven Golf Club in Lytham St Anne's, followed by an evening function at the nearby Glendower Hotel. This is a very enjoyable event for golfers of all abilities and we would like to encourage more members to take part. It is a great way to network with wire industry colleagues whilst enjoying a relaxed social atmosphere.

A lot of hard work ensued, culminating in a move date at the end of November 2014.

During this period of change, two further exhibitions took place, wire China in September and wire India in October, along with the annual dinner and dance in London.

We are now well settled in our new home enabling us to host the November board meeting in-house. These conference and meeting facilities are available for use by IWMA member companies. If this is of interest to you then please contact the IWMA office for further details.

As this is my final report as Chairman, I would like to thank all the board members, together with Andy Lewis and Debi Coleman in the office, for their support over the last three years.

I would also like to welcome our new Chairman, Amanda Shehab and wish her every success.

Amanda takes over the helm

Amanda Shehab has taken over as the new chairman of the IWMA, from retiring chairman Mr Steven Rika.



Mrs Shehab, who started working life as an engineering apprentice in her father's electrical engineering company in Sheffield, UK, where she learned how to rewind motors and repair all kinds of industrial machinery.

Following her graduation from the University of Bradford in 1991 with an honours degree

in electrical and electronic engineering, she undertook work placements with British Aerospace and Ford Motor Company.

She has accumulated more than 24 years' experience in the cable manufacturing industry, following her employment with BICC Cables as a manufacturing systems engineer, and later with General Cable and Pirelli.

Mrs Shehab has been a director of Cimteq Ltd since 2007. The Wrexham, Wales-based company provides software products and services to the cable manufacturing industry that increase manufacturing efficiency, improve quality, decrease lead times and reduce costs.

A tutor in software engineering for the Open University, she is also a chartered engineer (CEng) and a member of the IET.

IWMA new members

COMPANY	COUNTRY	WEBSITE
Fenn LLC	USA	www.fenn-torin.com
Wolco Sp zoo	Poland	www.wolco.pl
CSM Metalurji Imalat Sanayi ve Muhendislik	Turkey	www.csmmetal.com.tr
Trafco Srl	Italy	www.trafcomachinery.com
Cortinovis Sictra	Italy	www.cortinovismachinery.com
Sictra Cortinovis	Italy	www.sictra.it
ITSL Ltd	UK	www.itsluk.com
LCP TPOE	Russia	www.bakerhughes.com
Lamifil n.v.	Belgium	www.lamifil.be
Acuity Products Ltd	UK	www.acuityproducts.co.uk

ASIA & AFRICA NEWS

400BN FIBER SPREAD

In a statement made during a ceremony for inaugurating communication projects in Semnan province, the head of Iran Telecommunications Infrastructure Company, Mahmoud Khosravi, said that the construction of 13,000km of fiber optic network is on the agenda for 2015.

"The establishment of this fiber optic network costs over \$400billion, which only the government can afford," he added.

Khosravi also said that about 5,000km of fiber optic cables were established in 2014.

The government has paid special attention to information technology and communications fields and helped foster such developments.

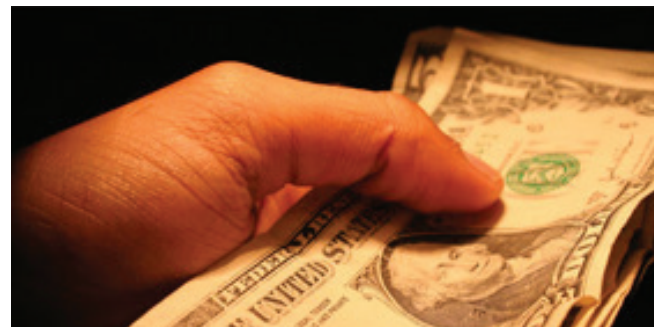
Iran Telecommunications Infrastructure Company gives high significance to the development of infrastructure network in Semnan province. Mr Khosravi noted that since August 2014, 486km of fiber optic network, worth \$8.3m, were constructed in the province.



Hubei power

Maashan town in central China's Hubei province, known for its nuclear power plant and iron and steel mills, has connected a 100MW solar photovoltaic power plant to its local power grid.

The PV project, the largest in Hubei, was completed in March and will generate around 120 million kWh of power a year. Local government hopes the project will spur the development of PV and new energy industries in the region, as well as help alleviate regular power shortages.



Cable results

East African Cables, a manufacturer for the utility and telecoms industries, is to open an upgraded plant in Nairobi despite reporting a 13 percent fall in pre-tax profit. It will commission the modernized and expanded production plant in the first half of this year.

In a statement, the company said: "This provides additional capacity and flexibility to offer a wider product range and to cover the wider eastern and central Africa region."

Pre-tax profit fell to \$5.5 million, East African Cables said, adding that lower margins in some of its markets had offset revenue growth, while revenue rose 13 percent as a result of higher volumes in new markets.

Shares in the company rose nearly one percent, encouraged by revenue growth, an unchanged dividend, and the imminent opening of the expanded plant.



Cable in Ghana

CEO of Reroy Cables Ltd, Mrs Kate Quartey-Papafio, has reiterated the company's commitment to achieve high standards in quality product and service delivery. "Our products are produced according to the standards of the International Electro Technical Commission, enforced by the Ghana standards authority and approved by the energy commission of Ghana," she said.

In an interview with the Ghana News Agency, Mrs Quartey-Papafio, also the chairperson of Reroy Group, said every developing country needed power to thrive to a new level. She said the country needed people who can envisage the future as to the direction of the energy sector to address the power crisis in the country.

Reroy Cables, a subsidiary of Reroy Group, has completed the construction of a new manufacturing plant, the largest electrical cables manufacturing plant in the country, producing predominantly for the international and domestic markets.



Jordan seeks renewables

As part of its first renewable energy tender, the country of Jordan has awarded 200MW to project developers, to include a 52.5MW solar photovoltaic project to be jointly developed by Qatar's Nebras Power, Diamond Generating Europe (a subsidiary of Mitsubishi Corporation), and Jordan's Kawar Group.

The power purchased agreement for the 52.5MW Shams Ma'an project has been signed between project developers and the National Electric Power Company (Nepco) of Jordan. The Amman News Daily reports that the project will sell electricity at a tariff of \$0.148 per kWh. Other solar power projects will sell electricity at \$0.169 per kWh.

Nebras and Diamond Generating will have a 35 percent stake each in the project, with Kawar Group holding a 30 percent stake. Debt financing for the project will be provided by Nippon Export and Investment Insurance, Mizuho Bank, Japan for International Cooperation, and Standard Chartered Bank.

A total of 12 solar PV projects and two wind energy projects were allocated through this first tender. The power purchase agreements for the wind projects were signed at \$0.12 per kWh.



Cable in Kazakhstan

Kazakhstan cable manufacturer Shymkent Kazinform (K AZ TEL) produces an annual 8,000,000km of cables and wires in over a hundred varieties.

Chief accountant of the company, Berkenbai Kuralov said: "There is a demand of cable products in Kazakhstan. Cables are mostly imported from Russia. We have decided to expand production to embrace the domestic market."

The enterprise is to commence production of aluminum wires after receiving a loan from the Entrepreneurship Development Fund "Damu". With the launch of the aluminum wire line the plant's capacity will double.



Bringing power to the outer isles

The UAE has inaugurated a solar photovoltaic micro-grid project to power some of Fiji's outer islands.

A statement on the Fiji project revealed it was constructed by Masdar, Abu Dhabi's renewable energy company, and is the third clean energy project financed by the UAE's \$50 million Pacific Partnership Fund, through the Abu Dhabi Fund for Development (ADFD).

Sheikh Abdullah bin Zayed Al Nahyan, UAE's minister of foreign affairs, said: "The UAE is committed to demonstrating how renewable energy can provide clean power, and spur economic development, while mitigating climate change, particularly for Pacific island countries.

The new solar micro-grid projects include a 249kW solar plant on Kadavu Island, a 153kW plant on Lakeba Island and 153kW in Rotuma Island.



Cable sights set on Australia

Sarawak Cable Bhd (SCB), which recently acquired Universal Cable Bhd and Leader Cable Industry Bhd, is to focus on Singapore and Australia for sales of its newly launched 275kV underground high voltage power cables.

Universal Cable, now an SCB wholly owned subsidiary, is the only company in ASEAN with the capability to produce the cables. Universal Cable commenced commercial production of the 275kV underground cables after successful testing in August 2014.

In Malaysia, Universal Cable's pilot project to install the 275kV cables is for Pengerang Power Sdn Bhd's transmission line project.

SCB is among Malaysia's largest integrated manufacturers of power cables and conductors, with a market share of over 50 percent since completing the acquisition of Universal Cable and Leader Cable in December 2014. The acquired companies also manufacture 500kV cables and telecommunications cables. The SCB group now owns and operates seven manufacturing plants in Selangor, Kedah, Johor and Negri Sembilan and two plants in Sarawak.



Long distance communication

Philippine Long Distance Telephone Company (PLDT), the major telecommunications provider in the Philippines, has expanded its global points of presence (PoP) with the launch of a PoP through Telehouse Europe. This allows PLDT to offer pan-global connectivity from the Philippines to the UK.

With this deal, signed through PLDT UK, the company can now provide clients with an Ethernet international private leased circuit (E/IPLC) service from the UK to the rest of the world, as part of its global managed Ethernet service offerings.

The PLDT UK PoP has direct connections to Hong Kong and the USA, enabling it to achieve optimal latency for its customers around the world. This builds on over 500 domestic Ethernet nodes that it owns in the Philippines and POPs in Singapore, Japan, US and Hong Kong.

INTERWIRE 2015

SHOWTIME IN ATLANTA

27th - 30^h April 2015

Georgia World Congress Center, Atlanta GA

Interwire is **the largest wire and cable manufacturing trade show in the Americas**, attracting participants from more than **50 countries**.

Exhibiting companies comprise suppliers to the industry and **manufacturers of wire, cable and fastener, formed and fabricated wire products**.

Interwire 2015 Exhibitor List as at 23rd February 2015

Ace Metal Inc	650	Ebner Furnaces Inc	620	Kablosan Turkey – FBC Yayincilik Ltd sti	2146	Reel-O-Matic Inc	464
Advaris GmbH	551	ELCO Enterprises	765	Kalmark Integrated Systems Ltd	1656	Refratron Technologies Corp	302
Aeroel Srl	2150	Electron Beam Technologies Inc	454	KEIR Manufacturing Inc	703	RichardsApex Inc	540
Agape Industrial Inc	863	Enercon Industries	1816	Keystone Steel and Wire Co	405	Rockford Manufacturing Group FELM	2056
AIM Inc	1014	Engineered Machinery Group Inc	218	King Steel Corp	1913	Roloil	771
All Wire Forming Machinery Inc	770	Enkotec Co Inc	108	Kinrei of America	624	Rosendahl Nextrom GmbH	640
Allied Mineral Products	7804	Er-Bakir Elektrolitik Bakir Mamulleri AS	924	Lake Michigan Metals Inc	2015	Roteq Machinery Inc	2032
Amacoil Inc	713	ERA Wire Inc	354	Lamnea Bruk AB	324	S&E Specialty Polymers	331
American & Efid Inc	1556	Esteves Group USA	806	LaserLinc Inc	1503	Saco Polymers Inc	233
American Kuhne Inc	2050	Etna Products Inc	1706	Leggett & Platt Wire Group	440	Saint-Gobain	664
Anbao Wire & Mesh Co Ltd	753	Eurobend GmbH	1058	Leoni Wire Inc	850	SAMP USA Inc	1328
Assomac Machines Ltd	864	Eurolls Group Srl	858	Lesmo Machinery America Inc	424	Sarkuysan SA	2024
AW Machinery LLC	1712	EuroWire Magazine	132	Lloyd & Bouvier Inc	1832	Schlatter Inc	1314
Aztech Lubricants LLC	964	EVG Inc	150	Lubrimetal Corporation	1956	Schnell SpA	2152
B & H Tool Co Inc	750	Evolution Products	133	LUKAS Anlagenbau GmbH	116	Scienscope International	2005
B & Z Galvanized Wire Ind	1807	Fabritex Inc	616	Madison Steel Inc	360	Shanghai Pudong International Exhibition Co	1512
Ballofet Die Corp	1708	Fenn LLC	1955	Magnetic Technologies Ltd	612	Sikora International Corp	812
Baum's Castorine Co Inc	2132	Fil-Tec Inc	1502	Maillefer Extrusion OY	932	SIMPACKS	206
Beacon Reel Company	145	Filtertech Inc	1049	Mathiasen Machinery Inc	139	Sivaco Wire Group	258
Bechem Lubrication Technology LLC	963	Fine International Corp	332	Messe Düsseldorf North America	1001	Sjogren Industries Inc	715
Beijing BIHI International Exhibition Co Ltd	131	Fisk Alloy Inc	2140	Metal Resource Solutions Inc	358	Sneham International	702
Beijing BIHI International Exhibition Co Ltd	1910	Flymca & Flyro	1907	Metalloid Corporation	2016	Sonoco	432
Beijing Orient Pengsheng Tech Co Ltd	1808	FMS USA Inc	618	Metallurgical Council of China	458	Starrett-Bytewise Measurement Systems	1702
Bekaert	2113	Foerster Instruments Inc	1814	Metallurgical Council of China	558	Steel Cable Reels	270
Bergandi Machinery Co	701	Fort Wayne Wire Die Inc	1532	Metallurgical Council of China	658	Stolberger Inc DBA Wardwell Braiding	712
Beta LaserMike	631	Frontier Composites & Castings Inc	215	MFL USA Service Corporation	1739	Subec AB	2136
Beta Steel	2017	FSP-One	2128	MGS Manufacturing Inc	1032	Sylvin Technologies Inc	129
Blachford Corp	406	Fuhr GmbH & Co KG	752	Micro Products Co	550	T & T Marketing Inc	1064
BLM Group USA Corporation	224	Gavlick Machinery Corp	1053	Microdia USA	1922	Talladega Castings & Machine Co	136
Bloom Engineering Company Inc	601	GCR Eurodraw SpA	1824	Mid-South Wire	1354	Tantec Est Inc	1908
Boockmann GmbH/The Slover Group	264	Gem Gravure Co Inc	706	Morgan-Koch Corp	1358	Tapeformers Ltd	1602
Breen Color Concentrates Inc	250	George Evans Corp	711	Mossberg Associates Inc	763	Taubensee Steel & Wire Co	749
Brookfield Wire Co	549	GMP Slovakia sro	758	Mossberg Industries Inc	113	Taymer International Inc	849
Butt Welders USA	2148	Granite Falls Furnace	1562	Nanjing Xiandai Diamond Products Co Ltd	2014	Tecnofil SA	234
Caballé SA	312	Guill Tool & Engineering Co	211	Niagara Composites Industries Inc	724	TECVIL	120
Cable Consultants Corp	140	Hafner & Krullmann GmbH	370	Niehoff Endex North America Inc	740	Teknikor	1066
Calmec Precision Inc	2117	Handuk Ultrasonic Co Ltd	2011	Nimsco LLC/SB2C	301	Teknor Apex	212
Canterbury Engineering Co Inc	940	Hangzhou JR Exhibition Co Ltd	217	Numalliance	732	Tensor Machinery Ltd	1750
Carris Reels Inc	1350	Hangzhou JR Exhibition Co Ltd	306	Oklahoma Steel & Wire	2007	Thermoplastics Engineering Corp	2116
Ceeco Bartell Products, Bartell Machinery Systems	1351	Hangzhou JR Exhibition Co Ltd	318	OMCG North America Inc	1050	Top Tapes (TT Okroglica DD)	123
Cemanco LC	606	Hangzhou JR Exhibition Co Ltd	1917	Ozyasar Tel Ve Galvanizleme	2018	Trafco Cortinovis Sictra	2156
Central Wire Industries Ltd	1818	Hangzhou JR Exhibition Co Ltd	1919	P & R Specialty Inc	333	Traxit North America LLC	349
CERSA-MCI	1601	Hariton Machinery	147	P/A Industries	119	Troester GmbH & Co	1067
Chase/Neptco	902	Heany Industries Inc	950	Paramount Die Co	340	Tubular Products Co	1550
Chemetall	400	Heatbath Corp	2012	Parkway-Kew Corp	1057	Tulsa Power	1950
Chengdu Centran Industrial Co Ltd	1801	Heritage Wire Die Inc	111	Pentre Group Ltd – Hearl Heaton	1949	United Wire Co Inc	252
China Ruijin Fairs International	966	Holland Colours America Inc	1916	Phifer Wire Inc	450	Upcast OY	1856
Cimteq	2019	Houghton Industrial Inc	1810	Pittsfield Plastics Eng Inc	764	Vinston US Corp	564
Clifford Welding Systems (Pty) Ltd	1723	Howar Equipment Inc	1320	PKG Equipment Inc	231	Vollmer America Inc	350
Clinton Instrument Co	901	Huestis Industrial	124	Plas-Ties Co	112	W3 Ultrasonics LLC	451
CM Furnaces Inc	654	ICE Wire Line Equipment Inc	1063	Plastic Equip LLC	2111	W Gillies Technologies LLC	958
CMEC International Exhibition Ltd	412	IDEAL Welding Systems	1024	Pneumatic Power Tool & Co	352	WAFIOS Machinery Corp	906
CMEC International Exhibition Ltd	512	Inhol bv	2124	Pourtier & Setic of America	1932	Weber & Scher Mfg Co Inc	1731
CMEC International Exhibition Ltd	912	InnoVites	1920	Precision Die Technologies Inc	402	Welding Wire Machinerics	1655
Collins & Jewell	2149	Integrated Control Technologies	1660	Premier Wire Die	2134	Windak Inc	1940
Commission Brokers Inc	717	International Wire & Machinery Association	602	PrintSafe	1850	Wire & Cable Asia magazine	132
Condat	1650	INTRAS Ltd	132	Process Control Corp	1805	Wire & Cable Technology International	235
Conneaut Industries Inc	423	IP Automation Inc	1860	Promostar Srl	452	Wire & Plastic Machinery Corp	1040
Conoptica A/S	870	Isotek Corporation	1800	Properzi International Inc	1840	Wire Lab Co	506
Davis-Standard LLC	1524	IWG High Performance Conductors Inc	240	QED Wire Lines Inc	952	Wire Machine Systems Inc	1052
Die Quip Corp	1003	Joe Snee Associates/PWM	1355	Queins Machines	1506	Wire World	2114
Domeks Makine Ltd Sti	1340	Joe Tools	2130	Raajratna Stainless Wire Inc	453	wired In USA online magazine	132
Dynamex Corp	1911	Jouhsen – Bundgens Inc	232	RAD-CON Inc	457	Witels Albert USA Ltd	1812
E-Beam Services Inc	141			Radyne Corp	1912	Woodburn Diamond Die Inc	705
				Rainbow Rubber and Plastics	1649	Worth Steel & Machinery Inc	459
				Rautomead Ltd	1070	Yield Management Corp	2144
				Reel Options by Vandor Corp	449	Zumbach Electronic Corp	1540

AIM INC Booth 1014

AIM offers 2D and 3D CNC wire bending solutions with models ranging from 2.5mm to 25mm. Its automated work cell solutions take wire from straight and cut or coil and will form, weld and systematically arrange the finished parts.

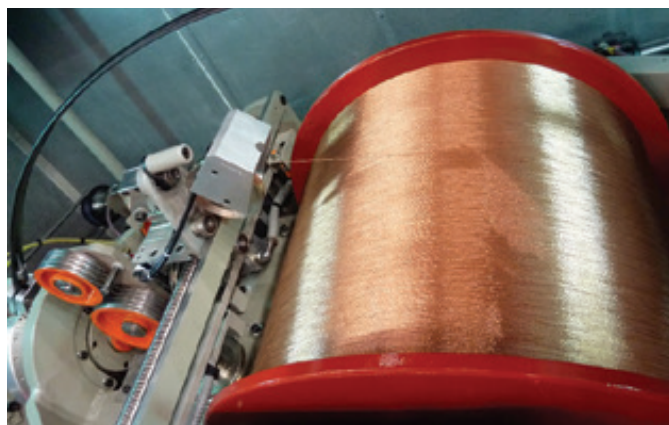


▲ The AFM-3D8Sd will be on show in Atlanta

During the past few years, AIM has developed new benders and accessories that it will unveil at the show. AIM will exhibit robotic integrations with its patented AFM-3D8Sd capable of versatility, fast output and low-cost maintenance. The Synchro is AIM's hybrid forming solution that provides the user with the technology needed in today's ever-changing marketplace.

AIM Inc – USA
Website: www.aimmachines.com

BOW TECHNOLOGY Booth 424



▲ The GreenBow from Bow Technology

Bow Technology is the answer to cable makers concerned by quality and long-life

reliable bows for all brands of double twist machines from 560mm to 2,500mm. With a comprehensive range of over 500 sizes, designs including the new generation multi-use 'GreenBow2' (one bow fibre, three wire paths, 30 percent energy saving), the division offers a global service from conception to production.

Bow Technology – USA
Website: www.bowtechnology.com

CABALLÉ SA Booth 312

With over 70 years of experience in the design and manufacture of rotating machinery for the production of power and telecommunication cables as well as steel ropes, Spanish company CM Caballé provides the cable industry with a wide array of stranding, twinning, bunching and cabling machinery. The firm is constantly developing new, high quality equipment to meet the ever-changing needs of the wire and cable industry.

The company's portfolio includes the following equipment for:

- Power cables: double twist stranders, rigid stranders, drum twisters, single twist stranders, bow skip stranders, tubular stranders, planetary stranders and SZ stranders
- Telecom and LAN cables: double twist pairing-quadding machines, single twist cabling lines, group twinners, drum twisters, shielding-jelly filling-sheathing lines, and SZ stranders
- Steel ropes: double twist stranders, tubular stranders, planetary stranders, and bow skip stranders
- Ancillary equipment: pay-offs, take-ups, capstans, caterpillars, taping machines, and binders



▲ Rigid strander for DIN 800 bobbins

At Interwire 2015, Caballé will show its new developments, highlighting the following products:

- Upgraded rigid stranders and drum twisters for HV energy cables (Milliken conductors, overhead conductors with trapezoidal wires),
- Complete range of double twist stranders to manufacture compacted conductors of Cu and Al up to 400mm²
- Complete range of stranders and closers for steel ropes
- Latest improvements in existing stranders for all types of cable

Construcciones Mecánicas Caballé SA – Spain
Website: www.cmcaballe.com

CABLE SERVICES & SYSTEMS Booth 424



▲ Service maintenance from Cable Services & Systems

With a long successful experience in North America, the Gauder Group takes care of all wire and cable production lines, acting as an overall efficiency booster to restore machine productivity and product quality. The newly rebranded 'C2S' division is being assigned spare parts, upgrades and maintenance projects for all brands of rotating equipment, recently reinforcing the engineering and commissioning team with ex-Lesmo and ex-Cortinovis engineers. The global services division turnover has been rising by 350 percent for ten years.

Cable Services & Systems – USA
Website: www.cable-services-systems.com

CIMTEQ LTD Booth 2019

Cimteq, the company behind CableBuilder, will be showcasing two of its revolutionary software products: the flagship product CableBuilder, and a new innovation called CableMES, a manufacturing execution system specific to cable manufacturing based on the Wonderware platform.

CableBuilder has multiple applications. It enables companies to design wire and cable more quickly and efficiently, allows quotations to be raised faster and, perhaps most importantly, avoids costly mistakes that lead to excessive waste which impacts profitability. CableBuilder is applicable to all types of cables, and can be fully integrated into a company's existing ERP system. It permits a company to fully embrace the concept of length-based costing and to produce accurate, unique datasheets quickly and effectively, further facilitating the quotation process.

CableMES is a natural fit to CableBuilder, continuing the benefits that CableBuilder

brings to the design and quotation process through to the manufacturing process. Based on one of the leading automation platforms from Wonderware, CableMES controls the process of cable production by electronically relaying manufacturing instructions to the operators on the shop floor and collecting order progress, as well as process information from machine sensors, process controllers and manual operator input.

It also collects quality data from test equipment and ensures traceability of materials used in every batch. The software improves communication with the shop-floor in order to maximize throughput, improve schedule adherence, improve process efficiency, and reduce waste. Amanda Shehab, principal of Cimteq, said: "CableMES is a new product to the market and the benefits that it offers are vast so we expect to see a lot of interest in it at Interwire this year."

Cimteq is extremely enthusiastic to see how its two innovative software products will be received by the delegates attending Interwire and also to experience the buzz of the event itself. Mrs Shehab went on to say: "We are really looking forward to Interwire 2015 and are particularly excited to see many of our North American and other international customers at the show in addition to meeting some new ones."

"As the chairman of the IWMA, I am also looking forward to meeting the IWMA members that are in attendance. The exhibition center in Atlanta is such a great venue; it is a very accessible and convenient location, so I anticipate that it will be a very busy few days."

Cimteq Ltd – UK
Website: www.cimteq.com

CLIFFORD WELDING SYSTEMS

Booth 1723



▲ One of the many lines on offer from Clifford Welding Systems

Clifford Welding Systems recently opened a new dedicated sales and service office in the USA. The office will handle the North and South American market, and Interwire 2015 is the perfect time and place to let customers know about the changes ahead this year.

Clifford is known worldwide for its reinforcing mesh welders, offcoil fencing welders, fine mesh welders, grating welders and high speed wire straightening machines.

Clifford Welding Systems (Pty) Ltd – South Africa
Website: www.cliffeng.com

CLINTON INSTRUMENT COMPANY

Booth 901

Clinton Instrument Company has introduced the model HF-15B series of high frequency AC spark testers. This series replaces the highly successful HF-15A, which was first shown at Interwire in 2001. Since then more than 10,000 HF-15A units have been shipped worldwide.

In addition to the reliability of Clinton Instrument spark testers, the HF-15B offers customers the ability to utilise many new technologies. New features provide more information, easier integration, and flexible solutions in response to difficult applications.

The HF-15B series features a large adjustable alphanumeric display with multiple view options. Customers can monitor total fault count, specific types of fault conditions, and per cent load. The front panel also offers optional password security.

PLC integration is effortless when connecting with Modbus RTU via RS-485 full duplex. Optional Ethernet/IP, profinet, profibus, modbus TCP, and analog communications are also offered with the new series.

New features of the HF-15B series also include:

- Continuous output voltage monitoring at the electrode
- DSP-based voltage regulation and fault detection
- Four relay outputs with selectable functions – high voltage on indicator, fault alarm, voltage watchdog, and gross bare wire alarm, with others available
- Several electrode options for testing a wide range of products

In addition to these abilities the HF-15B series features a fully automatic calibration of voltage and sensitivity to EN50356, IEC/CEI 62230 and NEMA standards when using the STCAL system.

Clinton Instrument Company – USA
Website: www.cicsparkers.com

COMMISSION BROKERS

Booth 212

Commission Brokers will be displaying photographs and brochures of available used equipment, as well as information relating to the company's appraisal, liquidation and consignment capabilities.

Martin Kenner, president of Commission Brokers, with over 41 years' service to the wire industry, specializes in non-ferrous wire and cable equipment, wire harness/assembly/processing equipment, and braiding machinery, from individual components to complete plants.

Commission Brokers Inc – USA
Website: www.commissionbrokers.com

CONDAT

Booth 1650



▲ Vicafil wire drawing soaps from Condat

Condat will present its latest developments in lubricants and products for the wire drawing industries, including:

Vicafil®: Claimed to be the industry's most complete range of wire drawing lubricants

Steelskin®: Specialty lubricants for the most demanding applications

Condat continues to develop advanced solutions to meet the increasingly stringent requirements for environmental and health and safety regulations, including:

- Reduction of dust in workshops (OSHA Directive)
- Impending SDS updates (GHS system – June 2015)

The show will be the opportunity for the company to promote several recently developed products.

Vicafil TF 1869: A new and very versatile mixed-basis soap for high speed drawing of galvanized high carbon steels or phosphated steels. It may be used throughout all passes, or in conjunction with another high performance sodium-based soap, for the fastest draw speeds.

Vicafil Sumac 5 T: A new addition to the Sumac family. A low-borax soap, offering exceptional performance on the most demanding high carbon steel wire applications, such as tire cord and tyre bead wires, but versatile for a wide range of uses and materials, without leaving an excessive or dusty residue.

Condat – France
Website: www.condat-lubricants.com

DALOO
Booth 424

As a member of the Gauder Group, Daloo provides an option for cable producers wanting simple and reliable machines at an affordable price. The design, as well as the manufacturing in Changzhou, China,



▲ Stranding line from Daloo

is based on European experience following strict quality criteria. Its complete stranding lines and accessories for the production of power and communication cables are delivered worldwide: rigid cage stranders, taping lines, rewinding lines, take-ups and pay-offs, pulling caterpillars and now tubular stranders.

Daloo – USA
Website: www.daloo-machines.com

DEM COSTRUZIONI SPECIALI SRL
Booth 1824

DEM wire rolling technology provides cutting-edge solutions for the cold rolling industry, for ferrous and non-ferrous metals, on a worldwide scale.

Its range of products includes:

- Profile wire rolling lines
- Rolling lines for flat wire
- High speed rolling lines for the production of concrete reinforcing wire in coils and bars
- Rolling cassettes for wire rolling and rope compacting
- Micro-cassettes to replace traditional dies in drawing lines

- Tube forming technology for flux cored wire (welding wire)
- Auxiliary solutions

One of the newest machines to be delivered to the USA is a special collapsible coiler (1-3 ton coils) that will complement an existing rolling line.

The machine has automatic opening/closing front door, and automatic coil height pre-set adjustment to make all operations fast and easy to increase uptime.



▲ Double coiler from DEM

The coiler is provided with precision laying software that controls the sideways positioning movements with the rotation, to obtain a perfect traverse oscillated coiling of the wire. The machine can coil flats, squares or round wires with speed synchronised with that of the line. A heavy-duty structure, rational design and the use of high quality components ensure reduced, fast and easy maintenance and long machine life. The machine is also equipped with coil ejection and tilting unit for fast coil removal. Double configuration is possible to achieve ceaseless rolling.

DEM, in the last eight years, has enjoyed a constant and double-digit turnover increase. As a result, its team is also growing in number and specialization to reach and

honor the next business targets. This includes service all along the operational lifetime of equipment.

DEM's expansion calls for new offices and the doubling of the shop floor, to be inaugurated this spring.

DEM Costruzioni Speciali Srl – Italy
Website: www.demgroup.com

DIE QUIP
Booth 1003

Die Quip will feature several of its cutters for wire, cable and chain solutions to eliminate manual, hazardous and abrasive operations. Its cutting line includes Knipex pliers and hand tools, Krenn triangle blade bolt cutters, and air-powered, battery, electro-hydraulic and fully hydraulic cutters. How much are your dies costing you?



▲ The MGF-200 die saver machine for grinding and polishing tungsten carbide dies

Chances are much more than you realize. Many factories take a disposal approach to their dies, looking for a way to reduce cost. High overnight freight and two-way freight fees are regularly absorbed from rush orders when dies are needed quickly or customer requests demand changes to

stock. Large inventories, hidden labor and disposal of good dies from short runs are common areas where production costs are increased but not controlled.

An internal die shop can easily eliminate these expensive problems. Die Quip provides a variety of die finishing machines and work cells that are designed to quickly and easily produce dies for any size facility. The right training and machinery allows each die to be cut quickly to handle any production variation.

Die Quip – USA
Website: www.diequip.com

DYNAMEX CORPORATION
Booth 1911



▲ The TPX-36-3-EU from Dynamex

Dynamex will be exhibiting the newest version of its patented automatic tape-splicer for high-speed taping at the

extruder. This is a low-cost, small footprint, longitudinal taping system with fully automatic on-the-fly tape splicing at full line-speed.

This process enables taping continuously with unattended automatic splices at constant tension. Payoff is PLC controlled, with digital AC drives, and runs up to 1,500 FPM. The machine operates with AL/PE, PE, Mylar, Kraft, tissue, water-swellable, etc. The tape leaves the payoff and is redirected to the wire-line and enters the tape-folder that folds it around the core prior to entering the extruder. Models are now available for flat pads, traversed pads, or universal for both styles, up to 3" wide tape.

For taping in a cabling line, Dynamex offers non-driven two-position tape payoffs, for flat pads, traverse pads, both styles, for single- or two-tape operation. These units operate best with "dial-in-angle" tape redirection units, delivering the tape to the cable at the correct angle.

Dynamex offers newly designed rugged single-twist cabling and bunchers:

- New CU & AL bunchers offered for 36", 48", 1,000mm or 1,250mm. The same size machines available as cabling for insulated products
- New high speed 36" cabling running 15 per cent faster for small size cables

Multi-position or single-position shaftless driven reel payoffs are available, as well as driven tension control payoffs for feeding a cabling out of stempaks, neutralising payoffs and more.

Dynamex Corporation – USA
Website: www.dynamexcorp.com

GABARRÓ SA
Booth 732

Founded in 1920, Gabarró is fully consolidated internationally and involved in the production of wire drawn from medium and low carbon steel.



▲ The company's plant

With two modern production plants, one in Barcelona and another in Brandenburg, the company offers its clients logistic flexibility, high quality and competitive prices.

The bright, gray and annealed wire produced by Gabarró, under scrupulous quality control certifications, guarantees absolute compatibility with the most demanding applications.

The product range includes wire diameters ranging from 0.094" to 0.551" and in units between 1,100 and 6,600lb, according to the client's technical requirements. Gabarró collaborates with its customers to ensure an optimal match between product and application.

The company has grown, but the philosophy of the family firm remains pertinent in the day-to-day business. Partnering with customers and suppliers and enabling transparent and efficient internal operations

delivers benefits for all and ensures that the company is proud to be approaching its 100th anniversary.

Gabarró SA – Spain
Website: www.gabarro.eu

GAUDER GROUP INC
Booth 424

For more than two decades, Gauder Group Inc, the North American representative of the Gauder Group based in Greensboro, North Carolina, has been serving the wire and cable industry to locally support the machine and services range of the group. All companies within the Gauder Group occupy the same booth for easy customer access and to enable the exhibition of multi-purpose single twist machines for the production of special and power cables.



▲ The Gauder factory

The Gauder member of the Gauder Group earned its position providing reliable and economical solutions ready to manufacture non-ferrous and ferrous products like rods, wires, conductors, cables, strands, ropes, bars and meshes. The Belgium-based supplier has in stock more than 1,000 machines ready to manufacture wires, conductors, cables, ropes or steel products.

New Mapré extruders ranging from 38 to 150mm are also available, along with accessories.

Gauder – Belgium
Website: www.gauderonline.com

Gauder Group – USA
Website: www.gaudergroup.com

GAVLICK MACHINERY CORPORATION
Booth 1053

Gavlick Machinery was established in 1957. The company is a supplier of used machinery for the ferrous and non-ferrous industry internationally, with appraisals, liquidations, buying and selling single machines and complete plants in the following categories: Bar, rod and wire processing; wire drawing; multi-pass; bullblocks; wire flattening mills; stranders; cabling; straight and cut; fence; nails; rope; spring coiling; shaped and flat; weaving; and welded mesh, etc.

Gavlick Machinery Corporation – USA
Website: www.gavlick.com

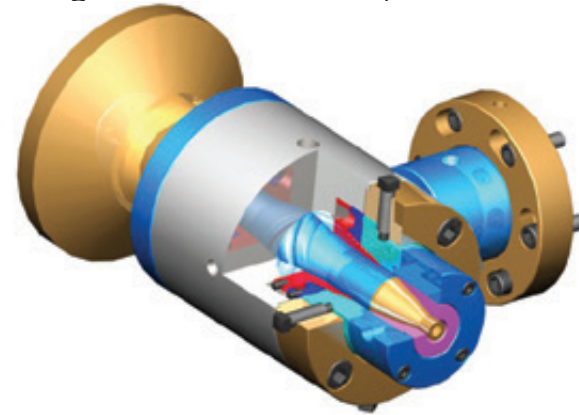
GULL TOOL & ENGINEERING CO INC
Booth 211

Guill Tool, a West Warwick, Rhode Island, USA, designer and builder of extrusion tooling, offers an assortment of literature for machine builders and extruders.

Individual brochures are offered, depicting the wide array of tooling possibilities: straight inline heads, rotary heads and crosshead dies, available to suit any extrusion machine built anywhere in the world, running all types of compounds.

Guill provides tooling for plastic, rubber,

TPE and other material extrusions, with end products ranging from extremely thin-walled, multi-lumen medical tubing and catheter balloon tubings up to multi-layer wire and cable jacketing and 20" diameter pipe for industrial applications and agricultural drip lines. Guill also provides tooling for film, sheet and profile extrusions.



▲ Guill extrusion tooling is available for all popular materials and applications

The company designs, engineers, machines, assembles, tests and delivers all tooling to its worldwide customer base in all the consuming industries for extrusions. The company also offers tooling carts and disassembly/cleaning stations for easier line integration.

According to company sources, the utilization of properly designed and engineered tooling can result in substantial material savings for extruders of all types.

Guill Tool & Engineering Co Inc – USA
Website: www.guill.com

IBA GROUP
Booth 569

Ionising energy, as provided by an accelerated electron beam (EB), is an efficient means of crosslinking polymers

used for wire and cable jacketing. In this process, chemical bonds are formed between polymer molecules chains in order to produce a three-dimensional insoluble network. This can be done without heat. In most instances, ionisation causes the abstraction of an atom of hydrogen from a polymer to produce active sites along a polymer chain that can bind to similar sites on adjacent chains without the use of crosslinking agents.

EB processing is faster, more controllable and more economical than thermal and/or chemical crosslinking when used in the production of insulated wires and cables. EB crosslinked wire and cable insulation entails several favorable properties. It will not melt and flow at elevated ambient temperatures, nor melt and flow should the conductor become heated due to an electrical short circuit. EB crosslinking reduces the risk of flame propagation should a fire occur in electrical equipment. Tensile strength, especially at elevated temperatures, is increased, as are abrasion resistance, stress crack resistance and



▲ IBA's Easy-e-Beam®: An integrated crosslinking solution including a self-shielded E-beam accelerator, pay-off, take-up and the overall control system

solvent resistance. IBA's solution for electron beam crosslinking, called Easy-e-Beam®, is based on the proven industrial reliability of the Dynamitron®

accelerator. It is easy in the sense that the solution is self-shielded, allowing an easy installation in an existing facility. Additionally, Easy-e-Beam® integrates in one system the E-beam accelerator and the wire handling system, both of them being managed by a single PLC-based control system. Wires and cables that are wound on reels are fed into the Easy-e-Beam® and then, after electron beam treatment, are rewound onto take-up reels. Easy-e-Beam® can handle cross-sections up to 30mm² (60kcmil) and, for small wires, reach a line speed of up to 1,000m/min. IBA can also provide complete and fully integrated crosslinking lines, including pay-off, take-up and quality control equipment.

The company has made progress in bringing advantages to the self-shielded solutions for systems ranging up to 1.0 MeV. Full factory pre-assembly, pre-wiring and performance testing, minimized site preparation and installation are the major assets of those solutions.

IBA Group – Belgium
Website: www.iba-cables.com

INNOVITES
Booth 1920

InnoVites will present its comprehensive CableERP solution. The complexity of cable manufacturing and distribution puts special requirements on the applications that companies use to run the business.

InnoVites leverages a long history within the industry to come up with the comprehensive CableERP solution on Microsoft Dynamics AX. It combines specialized functionality for the industry with the user-friendly screens of Microsoft Dynamics.

Cable manufacturers typically have large product portfolios with hundreds of different constructions. Only a limited set of these products are sold in a year. The sales teams need help to navigate quickly to the products that meet the customer requirements. InnoVites for cable introduces powerful search capabilities, based on the cable specifications, to respond to the customer requirement immediately.

In addition to this, the cable industry has a special type of calculus. In this cable calculus 200 plus 100 doesn't equal 300. A telecom network installer will not accept two drums with lengths of 200m and 100m when the order was for one 300m cable.

Also, customers are specific about the length tolerances that they accept: the customer can reject the cable if the actual length of the cable is outside this range.

Another customer-specific information is the drum type that should be used to deliver the cable. The right drum type depends on customer preferences and the capacity of the drum, based on weight, length and bending radius of the cable.

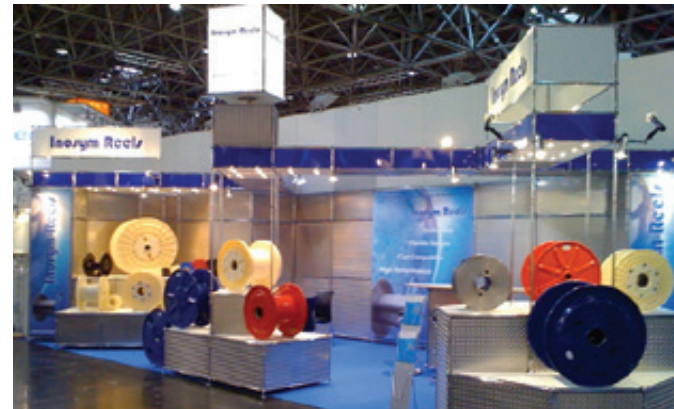
This means that the customer requirements concerning length information, and the length tolerances need to be captured in the system accurately and complete.

InnoVites for Cable provides the solution that conveys these customer requirements into the supply chain right away. The customer cable requirements are continuously validated against the actual deliveries from production or external suppliers.

InnoVites – Netherlands
Website: www.innovites.com

INOSYM
Booth 1731

Inosym will display a range of steel and plastic reels to showcase its production



▲ Some of the reels on offer from Inosym

capabilities and quality. The team welcomes the opportunity to talk to customers about some of the new technology it has introduced into its manufacturing plant and how this can benefit the wire and cable manufacturer. This includes robotic welding and automated painting.

Inosym Ltd – New Zealand
Website: www.inosym.com

KEIR MANUFACTURING
Booth 703

Keir Manufacturing is USA-based manufacturer of high-purity 99.8 per cent alumina ceramic guides, the Frontiersman™ line of air wipes, and composite flyer bows serving the global wire and cable industry. The company is dedicated to making products that enable manufacturing processes to run more efficiently and productively through the application of leading-edge materials.

Its solutions are focused on continuous process improvement, energy savings and longer operating life.

Keir's patented SureShot and SplitShot air wipes provide a more effective drying method that does not depend on high-volume air consumption. The efficient design yields effective drying using a very low volume of compressed air and lasts longer than other brands due to the rugged ceramic insert lining the wire path. This equates to over 25 per cent reduction in compressed air usage and an operating life of years versus months.

The company's triaxially braided composite standard and BackBone™ flyer bow constructions are claimed to have greater durability than layered/laminated designs, allowing them to take more hits and endure higher stress, yielding increased operating life and less machine downtime. The more aerodynamic BackBone™ design functions at lower power consumption and higher TPM with improved wire quality and a further reduction in bow breakage. Up to 40 percent less energy is used along with a decrease in wire scrapped.

Keir Manufacturing Inc – USA
Website: www.keirmfg.com

LASERLINC INC
Booth 1503

LaserLinc is a supplier of non-contact devices for diameter, ovality, wall thickness, concentricity and inside diameter measurement systems for wire, cable, fibre and other industries. In-process solutions deliver material savings, scrap reduction, production efficiencies, process improvement and product quality documentation. Offline solutions deliver

detailed inspection results, statistics and reporting. Both offer a unique HMI/MMI so operators can see and do exactly what they need, in a way that is optimised for simplicity and effectiveness while providing engineers and managers the real-time tools and reporting they require.

For PLC-based line control systems and those using their own HMI tool, SmartLinc-based solutions deliver secure data directly over an industrial network of the user's choice, such as EtherNet/IP.

Unlimited technical support is included with all systems and a four-year warranty covers most LaserLinc products.

LaserLinc Inc – USA
Website: www.laserlinc.com

MAILLEFER EXTRUSION OY
Booth 932

With Maillefer, you do not need to be fixed within the limits of your current business. The company offers an extensive portfolio of production solutions for the global wire and cable market. Its roots lie in the extrusion technology, on which nearly 20 applications are based. Its portfolio includes over 50 technologies.

To better answer the diverse needs of wire and cable manufacturers worldwide, the portfolio is organized into three different levels of production solutions: /Enter, // Extend and ///Explore. These solutions vary in capacity, cost, automation, flexibility, product range, space requirements and maintenance needs.

From the widest services in the industry, you can always find the ideal match to your lifecycle needs. Maillefer delivers versatile

maintenance, performance and upgrade solutions, as well as continuous service level agreements and 24/7 support to its clients.



▲ A pilot-scale vertical extrusion group for medium and high voltage cable production in Mailefer's R&D center in Finland

The wire and cable production solutions are available for building and automotive wires, dry or jelly-filled fiber optic cables, low, medium, high and extra high voltage cables, rubber cables, telecom, LAN and coaxial cables.

For energy applications, expect to see new technology and innovations for material savings and perfect cable roundness. The new high-end manufacturing solutions for every stage of the fiber optic cable process will also be exhibited – the future is here with the new ultra-high speed secondary coating line OEL 40///Explore with production speeds up to 1,000m/min. The company's new aviation cable production line and the 1,500m² research and development center at its headquarters in Finland are also both well worth mentioning. The center aims at providing a solid platform for strengthened customer partnerships, where visiting customers develop customized solutions and receive training on full-scale equipment.

Mailefer Extrusion OY – Finland
Website: www.mailefer.net

MFL GROUP
Booth 1739

The MFL Group will display the following equipment and will have technical and commercial personnel on hand to present the entire scope of its machinery:

MFL Group – Mario Frigerio – WS2 – “Draweasy” Sander. This machine, which uses one or two heads depending on inlet speed, has increased the efficiency of the entire line producing from low carbon to a mechanical descaling process for the rod preparation to draw PC wire with carbon contents up to 1,080c. The 50 units sold in the last year have seen energy savings, higher operating speeds, less maintenance



▲ MFL Group will present its range of machinery at Interwire costs, and easier use by the operator.

MFL Group – Frigeco Extruder – 60mm + 35mm Dual Extrusion. The Frigeco Extruder re-design was initiated to provide a more accurate temperature control system for the extrusion process. The result of this study is increased output without degrading the material. In some cases there is the option of going down one size of extruder, decreasing capital cost and the amount of

energy required. MFL will display a 60mm 25:1 L/D extruder with volumetric dosing system used for color or master batch plus a 35mm 25:1 L/D extruder with volumetric dosing system for color concentrate, dual cross head and operator interface.

MFL Group-Frigeco – Italy
Website: www.frigeco.com

NANO DIAMOND AMERICA INC
Booth 1806



▲ Range of dies from Nano Diamond America

Nano Diamond America Inc supplies Nano-Dies[®] to the industrial world in the cable, wire and tube manufacturing industries.

Cable manufacturers all over the world know the benefits of operating at +0 tolerance. Now they do this all the time using Nano-dies – and at 2-10 times less than previous-generation diamond dies.

Nano-dies still lead the way in diamond coating technology, giving them their tremendously strong surface. NanoDiamond America claims to provide the lowest-friction working surface on the die market. This unparalleled smoothness leads to raw material savings due to less damage being done to the stranded material.

The configuration of the nanocrystalline diamond is strong and hard, composed of particles sticking perpendicular to the surface, not composed in random directions. The advancements in CVD technology for this field have allowed Nano-dies a favorable advantage as a new way of producing a bright product at minimal cost.

Nano Diamond America Inc – USA
Website: www.nano-die.com

NDC TECHNOLOGIES
Booth 631

NDC Technologies debuts the latest Beta LaserMike products for in-process dimensional monitoring and automated quality cable testing at this year's Interwire. The new lineup delivers higher accuracies, production efficiencies, and savings for profit-minded wire and cable manufacturers.

The new four-axis AccuScan 6012 gauge provides a comprehensive measurement coverage around the product's circumference to instantly detect changes in product diameter. It performs ultra-fast diameter and ovality measurements at 9,600 scans per second on products up to 12mm, and offers high single-scan accuracy with single-scan repeatability down to one micron.

AccuScan 6012 also improves ovality accuracy up to 100 per cent and provides high flaw detection accuracy with 25 percent improvement over three-axis measurement methods.

The new DCM SCS-700 efficiently tests Cat 5e/6/6a cables to 700MHz and offers a low-frequency option to test cables

down to 100Hz. Dual-frequency testing is performed with a single connection to significantly reduce set-up and testing time. Automated four-pair switching platform enables operators to perform cable testing in less than three minutes. Easy-to-use testing software offers complete test management and reporting capabilities.



▲ The new AS6012

In addition, the next generation of Beta LaserMike process controllers will be debuted along with the existing family of DataPro process controllers.

Other products on display include:

- Latest high-speed AccuScan 5000 series two-axis diameter and ovality gauges
- New LN series three-axis lump and neckdown detectors
- Innovative LayScan lay length measurement system
- CenterScan eccentricity measurement system
- LaserSpeed® length and speed measurement system
- Preheaters and spark testers
- CapScan capacitance measurement system
- SRL pro structural return loss prediction software

NDC Technologies – USA

**Website: www.ndc.com
MASCHINENFABRIK NIEHOFF
Booth 740**

Maschinenfabrik Niehoff and its subsidiary Niehoff Endex (NENA) will present the following equipment:

- MMH 121.E2.1.A.16.2622 + RM 201.1.S.16.5000 multiwire drawing line
- D 632.2.A double twist bunching machine with NBAT and pay-off ARH 800.1.3.R
- BMV 16 / BAS 800 rotary braiding machine
- ECC 42.S.RTT (no pusher)

The multiwire drawing machine MMH121 is designed to simultaneously draw 16 wires with a final diameter of up to 0.2mm (32 AWG) which can be processed to intermediate multiwire bundles. Based on a modular principle, customer-specific MMH machines suitable for copper wires, aluminum wires, wires made from their alloys and from non-ferrous metals can be built. The wires drawn on such lines have homogeneous physical properties along their whole length and exceed the highest processing requirements. Meanwhile, more than 1,100 MMH lines are working worldwide.

The D632 type double-twist bunching machine is foreseen to produce strands with 0.09 to 6mm² cross section and a steplessly variable lay length of 6 to 100mm. The maximum number of twists is 6,500 twists/min, the maximum speed 300m/min. A special feature is the patented opto-electronic NBAT system (Niehoff Bunching Automatic Traverse), which allows spools to be perfectly spooled. Spooled wire can then be paid-off tangle-free at extremely high speeds with no damage. Other features include the service proven energy-saving single bow (ECO-Bow) design, the contactless transmission of machine data within the machine and the NMI touch-screen display

with color user interface and simplified navigation structure.



▲ The BMV 16 rotary braiding machine

The 16-carrier lever arm rotary braiding machine BMV 16 can process bare or coated copper wire, aluminum wire and stainless steel wire with a single-wire diameter ranging from 0.05 to 0.3mm (40-28 AWG) as well as artificial yarn and fibers. The machine features an infinitely variable electronic control of line speed and braiding pitch as well as an automatic central lubrication system. With an integrated central taping device, the braiding and the subsequent taping processes are completed in one step. By means of integrated and optionally available quality

assurance systems, BMV braiders can work for a long time unattended and without operator intervention. The machine that will be on display is equipped with a BAS 800 take-up and pay-off unit for spools with a flange diameter of up to 800mm.

The ECC 42 continuous down coiler developed and manufactured by Niehoff Endex (NENA) is designed for inline operation with extrusion, tinning or drawing lines and suitable for bare and plated copper, aluminum wire as well as insulated solid and stranded cable. It is designed for coiling of soft and hard solid copper wire with 0.8-4.1mm diameter (20-6 AWG) and insulated stranded conductor with 0.8-5.2mm diameter (20-4 AWG). The maximum production speed is 43m/s (8,500fpm). The ECC type coilers are suitable for use with cardboard barrels, stems or baskets. The Endex coiling system guarantees a high barrel filling weight and a safe pay-off of up to 8m/s (1,600fpm) of coiled cables, even after long transport distances.

Maschinenfabrik Niehoff GmbH & Co KG – Germany
Website: www.niehoff.de

Niehoff Endex North America Inc – USA
Website: www.niehoff-usa.com

NUMALLIANCE
Booth 732

While mechanical slide machines revolutionized wire bending in the last century, Numalliance has the solution for the 21st century.

Mechanical slide machines started dwindling with the rise of CNC bending equipment a few decades ago, while

large production of simple parts has been relocated to lower cost countries. In a resuming worldwide economy, a flexible solution for high volume production is a necessity. Designed to host hard tools like multiple slide mechanical machines, capable of similar cycle time and identical quality with reduced set-up time and minimal adjustment, the Numaslide 05 is the answer.



▲ The Numaslide 5 from Numalliance

“Since re-shoring is a reality in North America and since Europe suffered the same decline in mechanical machinery, the Numaslide will bring an answer for the manufacturer looking for speed, flexibility and quality,” said Manuel Uriarte, general manager of Numalliance de Mexico.

Numalliance – France
Website: www.numalliance.com

POURTIER OF AMERICA
Booth 424



▲ Rigid strander from Pourtier

Pourtier of America is the name chosen by the Gauder Group to promote the sales of the Pourtier product range. The line of equipment includes the company's successful rigid and planetary stranders, single twist cablers and drum twisters for producing of all types of power cable (low, medium, high and extra high voltage underground, overhead conductors and submarine/umbilical), as well as signal/instrumentation and large communication cables. Pourtier is also extending its existing range of tubular stranders, skip stranders and bow cablers.

Pourtier of America – USA
Website: www.pourtier-setic.com

PWM LTD
Booth 1355

British company PWM will present its best-selling EP500 rod welder, plus a range of powerful portable cold welders and manual machines. The PWM products will be featured by Joe Snee Associates, exclusive distributor of PWM cold welding equipment, spares and dies in the US and Canada.

PWM's electro/pneumatic EP500 cold welder provides a cost-effective method of welding large non-ferrous rod sections. The machine is designed for wire sizes 5mm to 12.5mm (0.197" to 0.492") copper and 5mm to 15mm (0.59") aluminum, and is quiet, clean and energy efficient to operate.

The smaller air/hydraulic HP100 cold welder, for welding wire and strip 1mm to 5mm (0.039" to 0.197") is mounted on a trolley, so it can be wheeled quickly to the work area.

Manual cold welders on show include the manually operated M101 cold welder,

for copper wire and strip 1mm to 3.6mm (0.04" to 0.141") and aluminum 1mm to 5mm (0.197"). The M101 can be used on a workbench or supplied with a trolley.

Suitable for joining fine wire in confined spaces, PWM's M10, M25 and M30 hand-held machines are suitable for wire and strip 0.1mm to 1.8mm (0.0039" to 0.071"). The BM10 and BM30 models, for similar wire sizes, can be used on a workbench or trolley.



▲ The PWM EP500

PWM machines and dies, standard or custom made to suit round or profile wire and rod, are designed and made in the company's own UK workshops.

PWM Ltd – UK
Website: www.pwmltd.co.uk

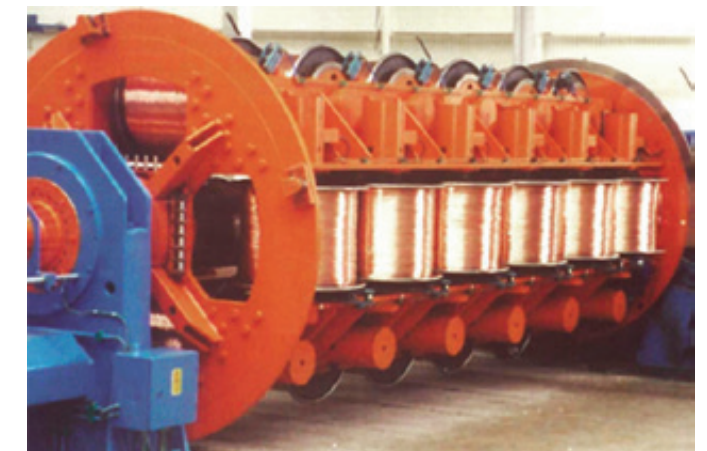
QUEINS MACHINES GMBH
Booth 1506

Queins will show large-sized pictures of machines on display, as well as a movie showing the machines in operation.

Since the 1970s the company has supplied new and reconditioned machinery to customers of the cable and rope industry worldwide. By consulting with customers, Queins is continuously updating its range.

Besides the standard machines for the production of cables and ropes, it also supplies huge production lines for special industries such as the offshore or the transformer industry.

Queins offers a wide range of modern rigid, planetary, skip-type and tubular stranders, single- or double-twist bunchers/stranders, machines for the production of off-shore and umbilical cables, continuously transposed conductors (CTC) as well as disc- and belt-capstans, taping machines and all types of pay-offs and take-ups.



▲ A rigid strander from Queins

It also offers used and reconditioned cable-making machines which have been modernized and finished with new components according to the customer's specification.

Queins Machines GmbH – Germany
Website: www.queins.com

REFRACTRON
Booth 302

Refractron's specialty is manufacturing Izory® rolls and rings for breaking down rod and drawing non-ferrous wire. Its proprietary magnesia stabilised zirconia material, Izory®,

has a history of excellent performance with wire manufacturers in the industry. Refractron is the official certified supplier of drawing rolls for SAMP. The company has experience making Izory® for rod mills, intermediates and multiwires made by all major OEMs.



▲ Izory rolls from Refractron

Refractron has material scientists who measure the key material properties on every lot based on ASTM methods. Every part is checked with calibrated equipment and laser marked to ensure traceability.

Refractron's team makes communication the top priority from quote to delivery. Its applications engineers understand the key role Izory® plays in wire drawing and can offer solutions to "keep you running".

Additional products manufactured include:

- Drawing rolls and assemblies
- Annealer pins
- Spooler guides
- Eyelets
- Air wipes
- Wire reeds
- Idler rollers

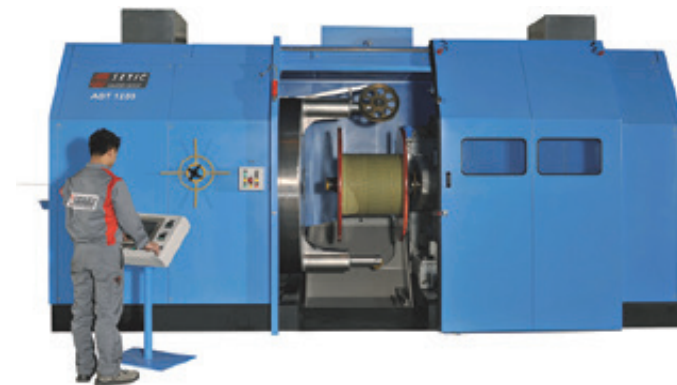
Refractron is able to accommodate dimensions certified to 0.005mm (0.0002"), and polished to 0.05µm (2 micro inch). A comprehensive material lab, a full machine shop to create metal assemblies and an ISO 9001/ITAR certified quality

department round out the manufacturing capabilities.

Refractron – USA
Website: www.refractron.com

SETIC OF AMERICA
Booth 424

Setic's product line includes double twist bunchers/cablers for low- and medium-voltage power cable and the automotive industry, as well as a complete range of machines for the production of all types of data and special cable with enhanced performance. Setic is now extending its existing range of small single twist cablers/stranders and large double twist stranders/cablers.



▲ Single twist cabler from Setic

Setic, combined with Pourtier, offers a wide range of twisting/stranding solutions to cable makers.

Setic of America – USA
Website: www.gaudergroup.com

SHANGHAI JIAJIE TECHNOLOGY CO LTD
Booth 1919

Shanghai Jiajie Technology Co Ltd is not only a manufacturer of steel wire drawing

machines, patenting lines, brassing lines, bead wire lines, galvanized lines, etc, but has experience for turnkey projects.

Equipment includes:

- Bead wire line: DV 500, wire number: 10-48
- Patenting line: DV 140, wire up to 40
- Electro galvanizing line: DV 140; zinc coating deviation: ±1%, wire up to 60

Characteristics:

- The acid (HCl) consumption is ≤9kg/t; the consumption of rinsing water is ≤0.1m³/t
- Auto control on solution composition, temperature, water level, self-diagnosis and alarm
- Control system: digitization, networked and intelligence; remote diagnosis

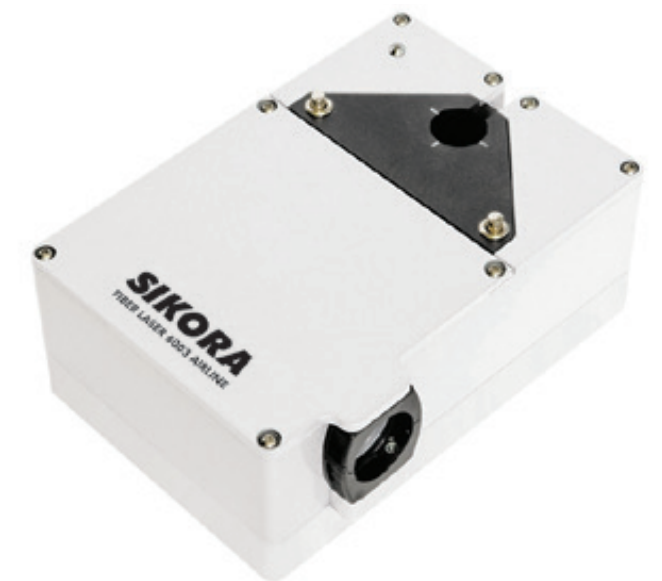
Shanghai Jiajie Technology Co Ltd – China
Website: www.shjiajie.cn

SIKORA
Booth 812

Sikora will be showcasing measuring, control, inspection and sorting technology for continuous online quality control in the wire, cable and plastic industry.

The Purity Scanner is a system for the online inspection and sorting of plastic pellets used for the insulation of medium-, high- and extra-high voltage cables where 100 percent purity is required. Contaminated pellets are detected and sorted out, assuring that only pure pellets get into the extrusion process. The pellet inspection allows for the detection of organic and metallic contamination inside the pellet as well as on the pellet surface, using a special combination of X-ray technology and an optical system. The smallest detectable particle size is 50 µm.

The Fiber Series 6000 is sophisticated equipment for continuous online quality control of optical fibers in the drawing tower. The Fiber Laser 6003 measures the diameter of uncoated and coated fibers. Depending on its point of installation, it provides information on the position, vibration frequency, tension and spinning. The measuring principle ensures an accuracy of ±0.05µm. For the detection of airlines Sikora offers the Fiber Laser 6003 Airline. In addition, further gauge heads provide information on concentricity and temperature of the optical fiber. The newly developed Fiber Lump 6003 Micro detects lumps and neckdowns on the optical fiber surface to 100 per cent. This is the result of the integration of six measuring axes. Shadow areas are eliminated and even the smallest faults from 5µm height and 50µm length are reliably detected.



▲ The Fiber Laser 6003 Arline reliably detects airlines in the fiber

For online quality control, optimisation of material usage and increased productivity during wire and cable production, Sikora offers the X-Ray 6000. There are two X-Ray models available, the X-Ray 6000 for quality assurance of single layer products and the X-Ray 6000 Pro for the measurement of

single and multi-layer products. The systems are designed for continuous measurement of the outer diameter, wall thickness, eccentricity and ovality of cables. In combination with the processor system Ecocontrol 600/1000/6000 an automatic control of the line speed and extruder rpm under consideration of the minimum values is possible.

The Laser Series 2000 is for classic diameter measurement in two or three planes, covering product diameters from 0.05 to 500mm. Furthermore, the high-end Laser Series 6000 will be displayed. These diameter-measuring devices meet the current high-end requirements in the wire and cable industry. The gauges fulfill all needs regarding high accuracy, a variety of interface connection options and utmost reliability for a quality control at its best during wire and cable production. The high accuracy allows in addition for the detection of lumps and neckdowns. Three high-end gauges are available for product diameters from 0.2 to 78mm.

Also on display will be the Centerview 8000, which measures eccentricity, diameter and ovality of coaxial cables, LAN cables as well as automotive and installation cables. Optionally integrated in the Centerview 8000e is a 7" TFT monitor, which displays production data. A special feature is the so-called scatter plot, which shows the distribution of short-term variations of the eccentricity. The scatter plot is an alternative style visual view of the measurements being made at the processor system Ecocontrol or the integrated TFT monitor. The operation is intuitive and menu-driven via touch screen.

For quality control during the production of MV-, HV- and EHV-cables in CCV-, VCV- and MDCV-lines Sikora provides the X-Ray 8000 NXT. It is used for precise measurement of the

wall thickness of all three layers (concentricity, diameter and ovality). Measuring values for centering and control are therefore available immediately after starting up the line.

Additionally, the two or three-axis lump detectors Lump 2000 XY/T will be exhibited. The heart of the Lump 2000 device is the advanced double sensor technology, which detects punctual non-conformities on the cable surface even at high line speeds.

Sikora AG – Germany
Website: www.sikora.net

SIRIO WIRE SRL
Booth 1358



▲ Ultrasonic and electrolytic cleaning from Sirio

A provider of technology, know-how and services, Sirio Wire designs, builds and installs equipment for the chemical and electrochemical treatment of wire. It will display pictures and film of its technology. In particular: ultrasonic and electrolytic cleaning, fumeless HCl pickling, electrolytic pickling, bronze coating line for bead wires, electroplating lines, and coating baths as well as batch pickling and phosphating lines.

Sirio Wire Srl – Italy
Website: www.siriowire.it

ULTIMATE AUTOMATION LTD
Booth 458

Ultimat has been designing and manufacturing innovative CNC wire forming and welding machines, used for the manufacture of a wide range of wire products from POP displays to automotive components, since 1991.



▲ The UMW-65

The range includes the well-established Ultimat UMW series of 2D wire forming and welding machines, which feature a robust, modern, modular design, and user-friendly Windows-based software.

All Ultimat models feature a "closed die" forming and cutting system, giving a high quality square, burr-free cut and butt weld. Options available include secondary bend heads, press tools, drilling, threading and chamfering stations, and automatic part unloading systems.

The company will be displaying the latest version of the Ultimat UMW-100 2D wire forming and welding machine, suitable for a range of 3-10mm (0.12"-0.395"), which incorporates faster drives and new software and control systems.

The UMW can be combined with the innovative UCW series of machines, to create a fully integrated forming and welding cell, with rectangular butt-welded frames being produced directly from coil, on the UMW-100 wire forming and welding machine, and then the completed frame being transferred into the UCW-100 where the frames support/brace wire is fed direct from coil, straightened, cut to length and welded into the butt welded frame.

Ultimat has a machine to suit everyone's requirement from the manufacture of point of purchase displays, to lampshades, supermarket shelving and automotive components.

Ultimate Automation Ltd – UK
Website: www.ultimat.com

WINDAK GROUP
Booth 1940

Windak provides intelligent material handling and packaging solutions with almost 20 years of experience in wire, cable and automotive industries and has offices in Sweden, USA, Australia and Estonia. Windak packaging equipment includes automatic coilers and spoolers, payoffs and take-ups, rewind lines, palletising and pallet handling systems.

The company is a large supplier of automatic packaging equipment for the cable industry in North America. It has delivered its products to 30 countries worldwide.

Windak will introduce the SW6-14, a dual head spooler developed for fully automatic packaging of cable and wire products onto spools between 165mm

(6.5") and 360mm (14") in overall diameter. It can be run both in line applications and offline applications. Full line integration can include an automatic palletizer, film unit, pallet conveyor, reel labeller, test equipment and meter marking on the cable.



▲ The SW6-14 dual head spooler from Windak

The SW6-14 loads and unloads the spools automatically. The cut ends are secured with stretch wrap. The SW6-14 uses the same reliable catch cut mechanism as the high-speed SW6 spoolers. This proven design allows for a stop time of approximately one second. The short stop time increase the line output up to 30-40 percent against traditional spoolers.

The SW6-14 offers maximum flexibility and high output.

Windak Group – Estonia
Website: www.windakgroup.com

ZUMBACH ELECTRONIC AG
Booth 1540

Zumbach will showcase its broad range of dimensional measurement and inspection systems for rod and bar mills, and wire drawing, wire insulating and cable jacketing processes.

Existing technology to be featured includes ODAC® laser scanning diameter gauges with new three-axis models for diameters down to 0.0024" (0.06mm); DVO 2 and DVW 1 oscillating devices for ODAC® gauges; MSD diameter and ovality gauges with novel linear sensor technology; ODEX® non-contact diameter and eccentricity system; CAPAC® for in-line dielectric testing and FFT/SRL analysis; Wallmaster in-line ultrasonic wall thickness and concentricity systems; Rayex® for diameter, wall thickness and concentricity for CV power cable applications; WST and AUTAC preheating and conductor temperature sensors; and novel AC and DC spark tester solutions.



▲ The new AC and DC Sparktester generation accurately maintains test voltage under any condition including highest capacitive loads

New developments to be introduced include the modular USYS IPCe line of processors and controllers; Steelmaster Rotation (SMR) for in-line hot and cold rod and bar mills; SIMAC® 63 for in-line surface faults and defects; KW Trio for lump and neckdown detection for fine dimension applications; and Profilemaster® PMM 30 for in-line profile measurement of non-round products for fine dimensions.

Zumbach Electronic AG – Switzerland
Website: www.zumbach.com

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PRODUCTS & MACHINES TECHNOLOGY

Precision terminator

TE Connectivity has introduced its model GII, the latest addition to the series of Amp-O-Lectric terminating machines.



▲ Wire processing for Crimp terminals. Photograph courtesy of Heilind

Lighting in the under-cabinet and target area has been improved, with the crimp quality monitor (CQM II) still located at eye level for bench-top use. The model GII is thought to be one of the quietest machines available, and also features improved guarding to meet applicable European and domestic safety requirements.

All model GII versions include precision adjustment for crimp height. By simply resetting a dial, an operator can adjust crimp height in 0.013mm [0.0005"] increments over a 0.457mm [0.018"] range.

The controls will also detect and report errors in the machine and stop cycling when a bad crimp is detected. The operator must then push the reset button to continue. The GII will accept all existing TE miniature applicators.

Structured cabling

Leviton has announced the release of its new structured cabling system, Atlas-X1. Atlas-X1 is thought to be the industry's first system to support shielded applications from category 8 to 5e and UTP applications from category 6A to 5e, all from one unified connectivity platform.

The Atlas-X1 system has been tested and confirmed by Intertek, an independent electrical testing lab, to meet the current draft 2.0E of the TIA-568-C.2-1 category 8 proposed standard (October 2014). The pending standard defines performance and testing requirements up to 2GHz for category 8 cabling systems to support the operation of IEEE 802.3bq 40GBASE-T applications up to 30 meters.

"Members of the TIA TR-42.7 subcommittee are working together toward the development of a new cabling category standard driven by end-user needs," said Antoine Pelletier, project engineer – ICT cabling products testing, Intertek.

"The successful category 8 draft standard compliance of the Atlas-X1 solution shows the technical feasibility of copper twisted-pair cabling bandwidth increase, and the achievement of a milestone toward the future 40GBASE-T industry standard."

"We are excited to announce the new Atlas-X1 system has been confirmed by a third party to achieve category 8 performance," said Ross Goldman, executive vice president and general manager, Leviton Network Solutions.

The new Atlas-X1 system has also been independently tested and is confirmed to exceed category 5e, 6 and 6A UTP and shielded ANSI/TIA-568-C.2 standards.

Cables get tough

MOR® Polyrad® XT-125 unarmored type P cables are now available from General Cable. This new addition to the company's range for hazardous locations (defined by NEC 501 and API RP14F) are suitable for extreme sub-zero drilling temperatures and high temperature conditions within motors and other devices.

MOR Polyrad XT-125 cable with a type TC-ER-HL listing has been developed for maximum flexibility and flame-retardant properties, with resistance to environmental conditions.

"Our TC-ER-HL certified MOR Polyrad XT-125 cables offer the flexibility needed in tight, space-limited hazardous applications, while meeting the crush and impact resistance requirements of an armored cable," said General Cable's Tim Waters, advanced engineer, oil, gas and petrochemical products. "Designed and engineered to the toughest standards, these cables preserve the operational integrity of essential equipment."

Cable compounds

Dow Electrical & Telecommunications, already known for its polyethylene-based Dow Endurance™ series of insulation, semiconductive shield and jacket

compounds for UG cable construction, has added Engage™ polyolefin elastomers and Nordel™ EPDM to its portfolio. With this addition, Dow E&T can now supply materials for ethylene alkene copolymer (EAM) filled cables and ethylene propylene rubber (EPR) cable constructions. The same elastomers are also used in a range of accessories that include separable connectors, splices and terminations.

"Dow E&T continues to focus on how our broad capabilities and product line can deliver highly valued, innovative solutions to the electrical infrastructure industry and other markets across its business platforms," said Damien Polansky, global associate marketing director, Dow E&T.

"The addition of elastomeric resins to our portfolio helps Dow E&T to be directly involved in nearly all phases of underground electrical infrastructure – cross-linked polyethylene (XLPE), water-tree retardant XLPE (TR-XLPE), EAM and EPR cables and elastomer-based cable accessories."

Engage elastomers are developed for improved flexibility, and less spring back for easier installation. They offer thermal, wet and dry electrical stability and demonstrate improved environmental sustainability and recyclability. Flexible Nordel™ EPDM is of particular value in space-restricted areas, offering cost-effectiveness and reliability.

Solar sheet production

Davis-Standard's XP Express™ PS (packaging sheet) roll stand system is primarily used for packaging processes involving PP, APET

and PS for the food and beverage markets, but is also equipped for sheet extrusion incorporating EVA, TPA and vinyl acetate co-polymers for solar energy applications and for processing barrier structures with more than 100 layers. These capabilities have proved advantageous to customers who supply extruded sheet to an increasingly diverse end-use marketplace.



▲ Rollstand J-Stack

Ancillary equipment is integrated and designed according to individual application. Davis-Standard takes great care to ensure that all production systems match up with the end product. Options include lamination equipment; rolls, baths and troughs for expanded cooling; post embossing and conditioning for heavy gauge sheet; dip tanks, roll coaters, and electrostatic for sheet treating; web accumulators; slitting stations; thickness control; shear and stack; and single and multiple web winding.

Outdoor, indoor, in-duct

Fiber optic connectivity producer Clearfield Inc has unveiled its FieldShield StrongFiber, a

900um fiber optic cable for in-duct outside plant placement applications.

Clearfield states that the 900um fiber cable offers "exceptional" pull strength in a small form factor. Believed the first fiber optic cable of its kind, FieldShield StrongFiber is also said to promote faster installations and lower cost.

"To reduce the cost of broadband deployment we need to reduce not only the skill and time required for site installation, but also the extent of the pre-engineering required," said Matt Brigham, product marketing manager for Clearfield. "The size and strength of StrongFiber allow for the product to be deployed in any environment without concern for drop lengths chosen. Teamed with other elements of the FieldShield product line, StrongFiber can be used in most environments in place of flat drop optical cable, where conduit or microduct is being used."

The OSP drop cable is available with user-specified standard fiber optic connectors or FieldShield pushable connectors; the latter are designed to enable the cable to be easily pulled through FieldShield ruggedized microduct.

StrongFiber is also available as an indoor cable for multiple dwelling unit and riser deployments.

Singles get spliced

Fujikura Europe has launched a new addition to its splicer range. The 21S FTTH splicer for single fiber is believed to be

the world's smallest and lightest active V-groove model.

The splicer, developed for applications in FTTX, data center, LAN, and access network, features a moveable V-groove mechanism for active alignment to provide improved and consistent splicing performance.

"Our new 21S splicer is an incredibly exciting product which allows customers to opt for a level of splicing in between the 12S and 70S," said Neil Bessant, fusion splicer divisional manager at Fujikura Europe.

In addition to its active V-groove alignment mechanism, the 21S also offers accurate splice loss estimation and real-time arc calibration functions. Its typical splice time is nine seconds with a tube-heating time of 30 seconds. The lightweight indoor and outdoor unit, a little over 1kg, measures 120mm x 189mm x 71.3mm, with a 4.7" TFT color LCD monitor and a built-in battery to provide 200 cycles of splice and tube-heating when fully charged.

Think local

UAE steelmaker Emirates Steel is expanding its range of wire rod brands in a move to create more opportunities for local downstream manufacturers. "To cater for varied downstream customer needs, we have introduced different grades of wire rods with diverse chemical compositions and distinctive physical properties," said Saeed G Al Romaiithi, Emirates Steel CEO.

The new range is designed to help local manufacturers welded mesh, nails, hangers,

screws, chain link and gabion fencing, wire nets, barbed wires and binding wires, welding electrodes, nuts, bolts, rivets, PC strands and other materials.

Emirates Steel is also looking to produce high carbon wire rod for use in the production of light automotive components, high-tensile ropes for bridges, and wire ropes for the oil and gas industry. "There is little local value added in the domestic steel and industry and this is one reason why we are looking at downstream integration with other local manufacturing industries," said Al Romaiithi.

Emirates Steel manufactures wire rods in a continuous casting and rolling process, turning billets into premium quality wire rod in diameters of 5.5mm to 16mm. The company believes that around 30 percent of its total wire rod production is used by the domestic steel downstream manufacturing industry.

Automotive cables

Following the launch of the silicon-free Radox anti-capillary cable in May 2013, Huber+Suhner is expanding the family of barrier-sealed copper cables to include additional cross-sections. Huber+Suhner previously offered 0.5mm², 0.75mm², 1mm² and 1.5mm² cross-sections. The company has now added 0.35mm², 2mm², 2.5mm², 4mm² and 6mm² to the range.

Inside the conductor of the anti-capillary cables, a grease-like filling material prevents the capillary effect in the cores. This stops liquids in the vehicle, such as oil or water, being conveyed and prevents damage to electronics and sensors.

The grease-like filling material is a compound developed and produced by Huber+Suhner. Silicone free, it does not form a foam when in contact with transmission fluid. The compound can also withstand the electron-beam crosslinking process and, as a result, these cables also feature an electron-beam crosslinked Radox insulation material. They are said to be particularly resistant to high and low temperatures, ozone and weathering, and characterized by an excellent abrasion resistance.

The anti-capillary cable can be connected to a connector or other contact areas using conventional crimp, soldering or ultrasonic welding processes. With a liquid-blocking barrier provided within the cable itself, expensive and complicated sealed connectors or bushings can be replaced.

Cable diversity

As well as providing cable systems to the automotive sector, Leoni supplies ECG cables for Integral Process systems. The cables have an antimicrobial jacket that reduces the bacterial load under multiple use conditions.

Many manufacturers of ECG systems rely on single-patient solutions to reduce hospital infections, but this can be costly in complex cable structures. Leoni offers a technology that gives plastic surfaces an anti-bacterial property for complex, reusable medical cable structures.

Hubert Monier, managing director of Integral Process, said: "Leoni supported us in making our reusable medical products. They helped

us in making our products more appealing with this antimicrobial property, given that our interest is focused on this topic. In the future, Integral Process will make all the plastic parts of its ECG systems with this antimicrobial additive."

Leoni bonds a metal oxide into the cable jacket to give the ECG leads an antimicrobial property. Due to a larger grain size, this does not come under the controversial area of nanotechnology, nor does Leoni's technology use any silver or copper, meaning that the cables maintain their antimicrobial effect even when coming into contact with perspiration or proteins. The same applies to cleaning: the methods commonly used in hospitals do not exert any adverse impact on the efficiency of the antimicrobial surface.

Despite this additive, Leoni's cables remain skin compatible and, due to the use of special, silver-plated tinsel conductors, the cables are very flexible and lightweight.

Fiber for tight spaces

During 2015, OFS's AllWave®+ zero water peak single-mode optical fiber will become the company's standard fiber in MiDia®, MiDia® FX and MiDia GX microcables for the Europe, Middle East and African markets.

"We have seen our service provider customers deploying more small form factor cable designs in the FTTx, FTTH, and mobile backhaul while extending the operating window to longer bend sensitive wavelengths between 1,490nm to 1,625nm," said Pierre Marty, executive vice president sales and

marketing for OFS. He continued: "OFS has developed AllWave+ fiber to meet the increased complexity of these installations.

"Full-spectrum G.657A1 AllWave+ fiber will allow our customers to experience all the benefits of our AllWave fiber with the added features of smaller bend radius, lower bend loss and improved PMD performance."

AllWave+ is a full-spectrum fiber, offering the same performance and specifications as AllWave fiber but with added features including a 40 percent smaller bend radius, 50 percent lower bend loss, and 33 percent improved polarization mode dispersion whilst maintaining a 9.2 micron nominal mode field diameter to minimize splice loss to existing single-mode fibres.

Dry cables

Fiber optic network product manufacturer, OFS has expanded its totally dry cable solution into a new microcable product line.

The OFS MiDia® Dry FX microcable is said to reduce fiber cable installation costs and improve safety and productivity. Cable preparation is streamlined since the fibers emerge from their buffer tubes ready for fusion splicing or optical testing, eliminating the need for cleaning products and leaving tools and work area cleaner and safer.

This entirely dry cable technology replaces the gel-based filling and flooding compounds traditionally used to prevent the spread of water in outside plant cables.

MiDia Dry FX microcable is the most recent development in the OFS range of totally dry outside plant cable products.

"With their continued focus on reducing costs, EMEA customers who previously used gel-based cable designs can now realize the installation cost benefits of MiDia Dry FX cables," said Pierre Marty, executive vice president sales and marketing for OFS.

MiDia Dry FX is currently available in three constructions containing up to 144 fibers and is standard with the OFS bend insensitive AllWave® + fiber.



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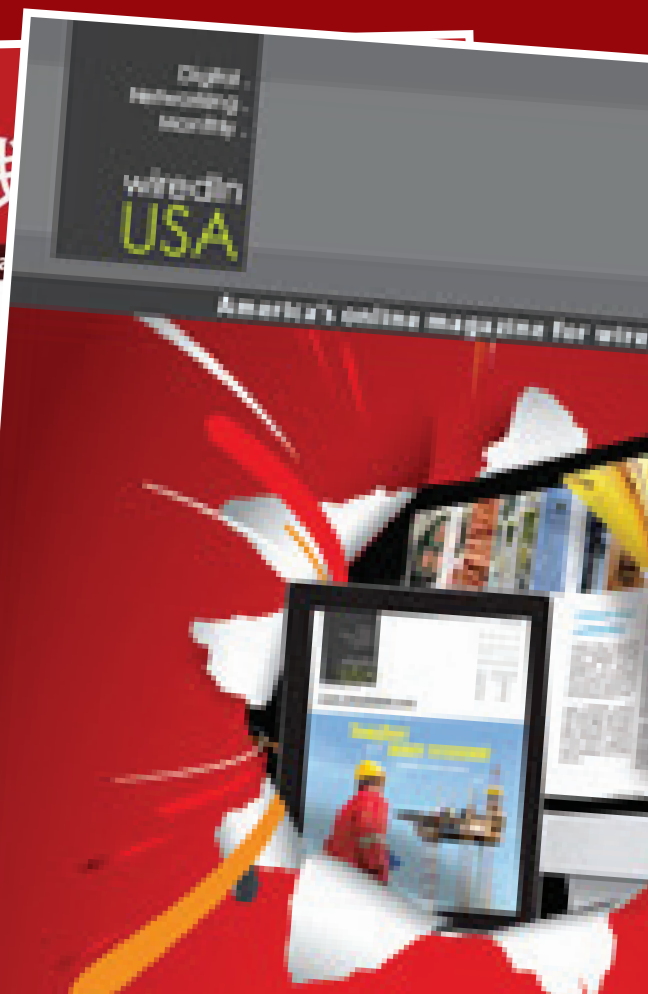
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