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#46 EDITOR

Interwire 2015 awaits with open arms as organizers the Wire Association International prepare to throw open the doors to the USA's largest wire and cable exhibition.

The exhibition, staged at the Georgia World Congress Center in Atlanta, from 27th to 30th April, is viewed as the benchmark show in the wire calendar in North America – and the biennial event is expected to be busier than ever this year with companies, speakers and visitors from 50 countries attending the four-day show.

Since its inception in 1981 Interwire has firmly established itself as a machinery show, with exhibiting companies being suppliers to the industry and manufacturers of wire, cable and fasteners, formed and fabricated products. The show also provides the ideal opportunity to make your mark in the USA, with many companies from Europe and Asia making the journey.

Feel free to stop by booth 132 where you will be able to meet staff from wiredInUSA, and grab a free copy of the ezine on CD, as well as copies of sister publications EuroWire and Wire & Cable ASIA magazines. And you can also check on some of the companies exhibiting at this year's show by clicking through to page 38 of this bumper issue.

See you there!

David Bell
Editor

PAGE
06

PAGE
09

PAGE
24

PAGE
30

PAGE
32

PAGE
70

CONTENT

#46 APRIL
2015 ISSUE

SHOW DIARY / 2015 and 2016

MAKING THE NEWS / Industry news from the USA

EUROPE NEWS / The latest news from Europe

INDUSTRY TRADE ASSOCIATION / Spotlight on awards, education and events

ASIA & AFRICA NEWS / The latest news from Asia & Africa

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

NEWS

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Special INTERWIRE 2015

38



DIARY SHOW EVENTS

2015

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

SEPTEMBER

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wire China
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 Exhibition
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- 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)

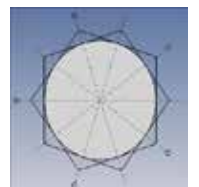
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MAKING THE NEWS

Virginia counting on solar

Philip Morris USA has partnered with Dominion Virginia Power to develop Virginia's largest solar installation to date. Dominion is installing 8,000 ground-mounted solar panels to provide a 2,450kW solar array at the Philip Morris USA Park 500 facility in Chesterfield county.

"At Dominion, we are constantly looking for the best way to produce energy safely, efficiently and in an environmentally responsible manner," said Ken Barker, vice president of Technical Solutions. "In Philip Morris, we are fortunate to have a partner that shares our commitment to clean, sustainable energy."

Dominion Virginia Power has completed solar installations at the Canon Industrial

Resource Technologies facility in Gloucester, Old Dominion University in Norfolk, and Virginia Union University and Capital One in Richmond. These facilities, and others still under construction, represent a total of 4.8MW of solar generating capacity.

The Philip Morris project is part of Dominion Virginia Power's solar partnership program in which Dominion leases rooftop or ground space at commercial, industrial or public facilities for the installation of solar panels. The energy generated by the solar panels is delivered to the power grid. Dominion is authorized to construct and operate up to 30MW of company-owned solar facilities.

Texas solar growth



SunEdison Inc will construct new solar plants in West Texas to supply the city of Georgetown with 150MW of solar power for 25 years. The plants will be interconnected in 2016. Upon completion, SunEdison expects to offer this project to TerraForm Power Inc for investment.

"SunEdison is very excited to be working with Georgetown Utility Systems," said Paul Gaynor, executive vice president of North America utility and global wind at SunEdison. "Georgetown is an exceptional city, and by going 100 percent renewable they will cut down on pollution, save water, and enjoy stable energy prices."

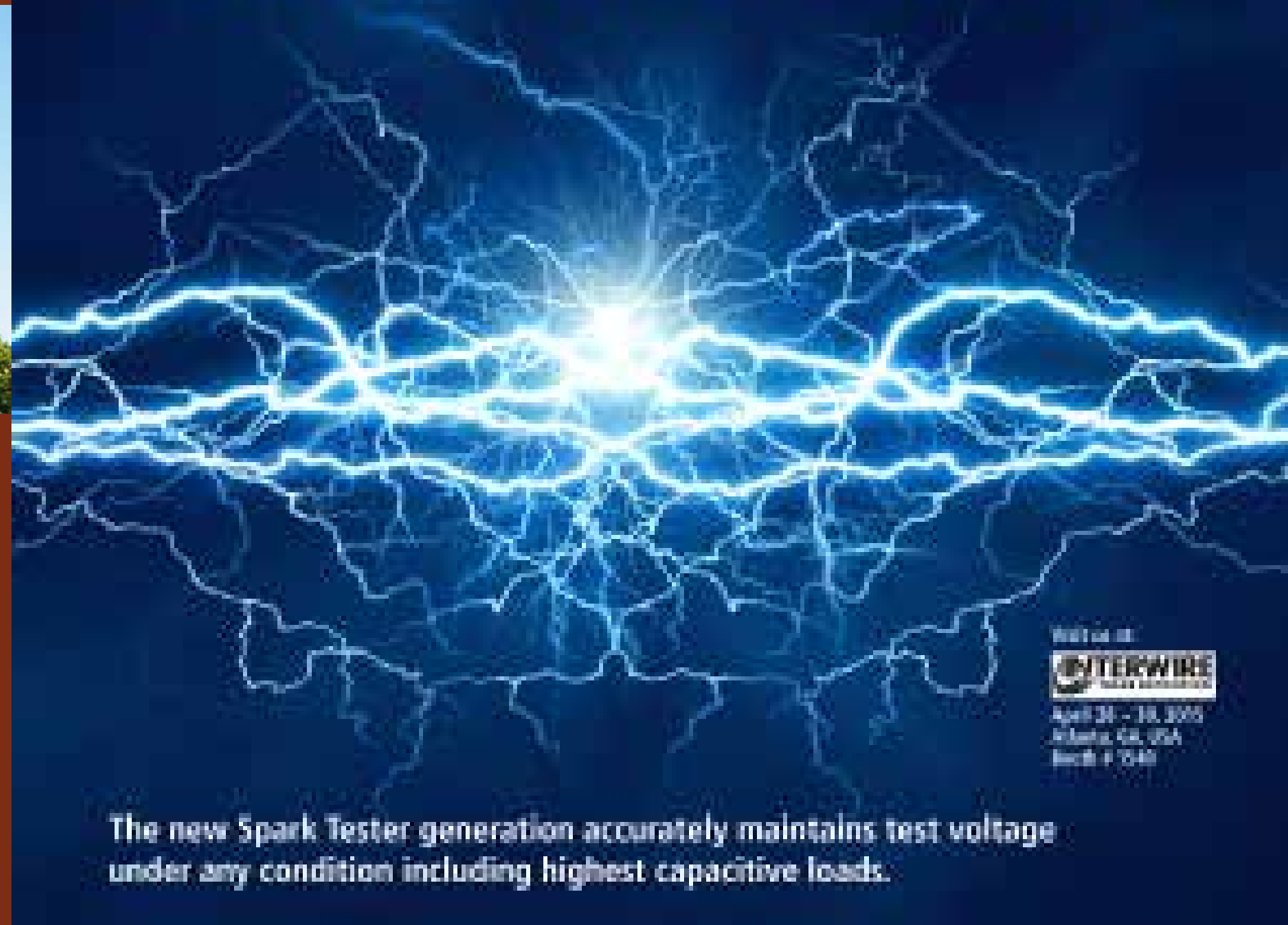
"When Georgetown Utility Systems opted to seek new sources of power in 2012, we were charged with a

mission to secure the most cost-effective energy that balanced risk and reward," says Jim Briggs, interim city manager for the city, and general manager for utilities.

"Georgetown Utility Services isn't required to buy solar or other renewables – we did so because it will save on electricity costs and decrease our water usage. This power purchase agreement makes Georgetown Utility Systems one of the largest municipal utilities in the nation to be 100 percent renewable powered."

The power purchase agreement is among the largest solar agreements in the electric reliability council of Texas (ERCOT) jurisdiction, and represents SunEdison's largest utility scale solar agreement in Texas.

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IT anniversary

Carlisle Interconnect Technologies, a designer and manufacturer of high performance wire, cable and optic fiber, will celebrate its 75th anniversary in 2015.

CarlisleIT began operations as Tensolite in New York in 1940 and developed a product portfolio to include specialty and filtered connectors, contacts, cable assemblies, complex harnesses, racks, trays, and installation kits.

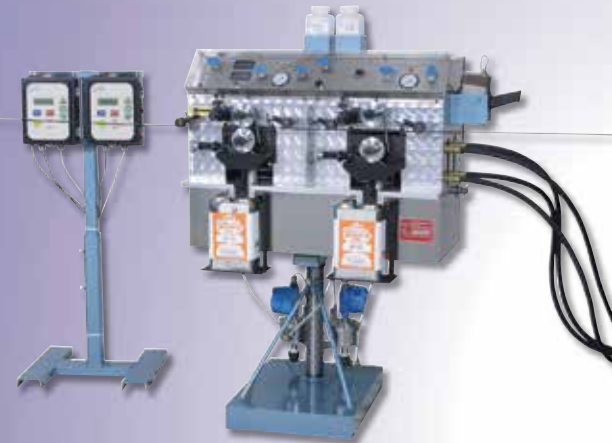
In 1960, CarlisleIT became part of Carlisle Companies Incorporated. CarlisleIT has

continued to enjoy the support of Carlisle, which provides the financial strength and resources to allow CarlisleIT to explore new technologies and opportunities as they arise.

CarlisleIT's president, John Berlin, said: "Being a cornerstone in this industry for 75 years is truly a remarkable accomplishment. Our commitment to excellence and dedication to our customers' success have gotten us to where we are today, and we look forward to celebrating another 75 years."

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Footprint ploy

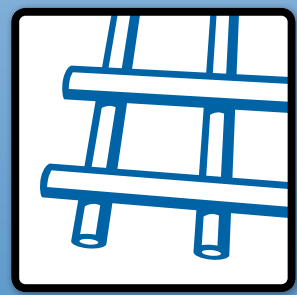
Renewable Energy Systems Americas (RES Americas) has commissioned the 110MW Keechi wind project in Jack County, Texas. Owned by Enbridge, Keechi has 55 Vestas V100-2.0MW turbines and is designed to produce 430,000MWh per year. Vestas will operate and maintain the turbines for the first five years.

Construction work began on the project in December 2013 and was completed in January this year. The wind farm connects to Brazos

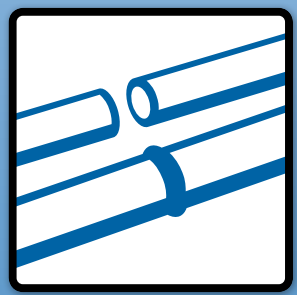
Electric's Joplin substation via a 12-mile generation tie line.

Electricity generated at the project will be supplied to the Electric Reliability Council of Texas (ERCOT), under a 20-year power purchase agreement signed with Microsoft.

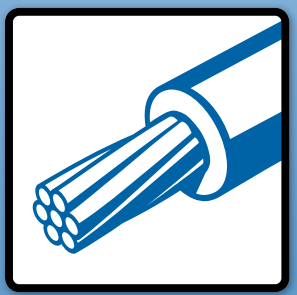
The project will also contribute to Enbridge's neutral footprint program, which aims to generate a kilowatt of renewable energy for every additional kilowatt of conventional electricity used by the company's liquids pipelines operations.



Wire products



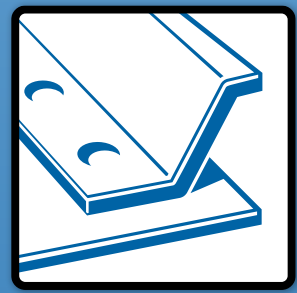
Wire joining



Conductors & Cables



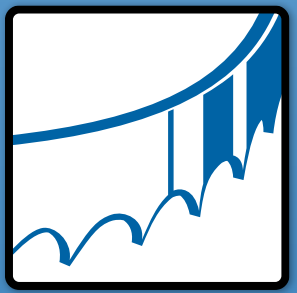
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Fiber portfolio

Molex Incorporated has announced the expansion of its fiber optic technology platform following the recent acquisition of Oplink Communications. A wholly owned subsidiary of Koch Industries, Molex will now manage Oplink, a provider of optical communication components, intelligent modules and subsystems for a variety of applications.

Molex is a supplier of advanced fiber optic interconnect systems, including connectors and adapters, optoelectronics, optical assemblies, backplanes, optical circuitry and integrated systems for telecommunications, datacom, medical, military/aerospace and other industries.

Doug Busch, vice president and general manager of the Molex optical solutions group, expects that: "Oplink's capabilities, expertise and proven technologies combined with our optical product portfolio and global engineering and manufacturing platform will put Molex in a unique position to deliver complete fiber optic solutions to our customers worldwide."

Oplink specializes in utilizing advanced optical transport and transmission technologies for customers in the wireline, wireless telecom and datacom infrastructure markets and data center applications, as well as serving adjacent sectors of CATV, government/military and optical sensing.

As bandwidth intensive applications continue to drive upgrades and expansion across customers' networks, Oplink products deliver the needed solutions by addressing DWDM/CWDM bandwidth creation, bandwidth management, optical amplification, switching and routing, wavelength conditioning, monitoring and protection, connectivity and system-level integration of active optoelectronics and passive optical components. Oplink solutions are fully supported by vertically integrated design and manufacturing services.

FIBER INCREASE

Southern Light has celebrated its 1,000th customer and 5,000 route miles of fiber optic networks in its south-east operational area. The company is currently expanding its footprint to

key markets including Huntsville and Birmingham, Alabama, and Jackson, Mississippi.

"Southern Light has significantly expanded its reach, while maintaining the highest levels of excellence," said Andy Newton, president and CEO of Southern Light. "Our network and customers are of utmost importance as we continue to provide high-bandwidth infrastructure solutions."

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Wire mesh expansion

Florida-based Wire Mesh Corporation is to invest \$13.1 million in land, building work and machinery. Wire Mesh plant manager Al Smith expects the company will have equipment in place by May, with operations beginning in August.

The company specializes in the manufacture of steel wire products for use in steel reinforcement for concrete construction projects including bridges and parking garages. Wire Mesh Corporation has plants in Florida, Illinois, California, Maryland and Texas.

RURAL NETWORK

Eastern Oregon Telecom (EOT) has contracted Huawei to provide its gigabit passive optical network (GPON) solution to a network of rural homes and businesses in Hermiston, Oregon.

The fiber broadband rollout by EOT and Huawei will also bring new services, including voice over IP and Internet protocol television (IPTV) to the community.

Bill Gerski, VP of sales for Huawei USA, said: "Rural communities in America, which are typically underserved by broadband, are beginning to recognize the economic and social benefits of having fast and reliable connectivity. Huawei is committed to working with rural carriers and communities across the US to help them get connected."

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Appointments

Sales team boost



Jerry Braswell has joined Metro Wire and Cable after serving in several capacities within the wire and cable, and electrical distribution

industries. With over ten years of industry knowledge, Braswell will be charged with working with customers in and around the southeast portion of the USA.

Richard Wade, southeast regional sales manager, said: "Jerry has a great record of providing ownership to large scale projects and working with a wide variety of customers. We are excited that Jerry has joined our team and looking forward to his continued growth within the industry."

President appointment



Fluoropolymer Resources LLC (FRL), a supplier of reprocessed FEP, PFA and ETFE, has announced the appointment of Mike Canterino to president. Canterino will succeed

David Ely, set to retire on 1st May.

Canterino will assume his new position immediately, while Ely remains with the company until his retirement date to assist with a smooth transition of responsibilities.

Canterino joined FRL as executive vice president in December 2014, moving from vice president operations at Remeo Products. Before that he was manufacturing manager at Rockbestos Wire & Cable (now RSCC Wire & Cable), East Granby, Connecticut, from 1988 to 1996.



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Low voltage expansion

ABB will invest \$30 million in building a new manufacturing site for its low voltage products division near Memphis, Tennessee.

“As part of ABB’s Next Level strategy, we are expanding our offering of low voltage products in the United States. This will allow us to provide the full ABB portfolio of products to our customers across the US, through the strong distributor network of Thomas & Betts,” said low voltage products division president Tarak Mehta.

“This investment will boost ABB’s organic growth potential through improved customer focus and a broader portfolio of electrical connection, protection and control products.”

The new 11,000m² facility will assemble products from across ABB’s low voltage products portfolio, including its integrated breaker and power manager, Emax2. The site will also house research and development, product development and an upgraded training suite.

Rebar in Brazil

Grupo Simec SAB de CV has announced the start of rebar and wire rod production at its Brazilian facility. Following an investment of almost \$500,000,000 the unit will have an annual capacity of over 500,000 tons.

Recycling restart

ArcelorMittal Montreal, headquartered in Contrecoeur, Quebec, is to restart the auto shredder at its Contrecoeur-Feruni scrap recycling and processing facility. Idle since December 2012, the shredder will serve as a main scrap processing and sorting operation when it is restarted.

The company has also announced the sale of its Ottawa recycling and processing center, and sold the land and building of its La Prairie, Quebec, recycling and processing center to American Iron & Metal Co, headquartered in Montreal.

Louis-Philippe Péroquin, ArcelorMittal Montreal’s director of communications, said: “After a thorough analysis of the market, we determined that using Contrecoeur-Feruni as our main scrap processing platform was the most efficient use of our assets. We remain committed in the scrap metal business as it enables us to manufacture safe, sustainable steel with recycled materials.”

ArcelorMittal Montreal has 11 locations in Quebec and Ontario. The company’s main production facilities are located at the Contrecoeur headquarters, and include a direct reduction plant, two steel plants, a bar mill and a wire rod mill. Other facilities include a bar mill in Longueuil (Quebec), and wire mills in St Patrick (Montreal) and Hamilton, Ontario. The company specializes in manufacturing semi-finished products including bars and rod.

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EUROPE NEWS

CAR CABLING CONTRACT

Bombardier Transportation has awarded Nexans a contract for cables for the Queensland New Generation Rollingstock project. Nexans will supply a range of low and medium voltage Flamex® rolling stock cables for 75 six-car electric multiple units (EMU).

Nexans will manufacture and deliver low voltage cables for power, control and data communication, and medium voltage cables for traction motor and transformer applications. The contract follows a competitive bidding process where

Nexans provided a detailed production and supply plan in line with Bombardier's overall project schedule.

The fire-resistant and non-toxic cables, rated from 300V to 3,600V, conform to EN and fire performance standards. The stock will be manufactured in France and Germany for delivery to the Bombardier plant in India. Installation began in January 2015 and will continue until the end of 2017.



Wire gatherin

Consultancy group and events organiser CRU is hosting the 9th World Wire and Cable conference in Barcelona from 15th to 17th June.

During 2014 the metallic cable market started strongly but lost momentum into the second half of the year, while the fiber optic market strengthened in the final quarter and was propelled by excellent performance in Europe. CRU predicts that this market situation will reverse during 2015, with the fiber optic market showing less growth as a result of slowdowns in the Chinese and European markets.

The conference program will feature industry experts from manufacturers and cable end users, providing cable makers, suppliers and customers with case studies and discussions of the trends that are shaping the industry. The detailed program breaks into parallel streams for niche topics, and the event also offers an opportunity for peer to peer networking with wire and cable companies from over 30 countries.



Copper contract

Candor has delivered three of its Copperjet plants to a customer in Asia. The plants are equipped with Candor's latest technology for the copper coating of welding wires. Copperjet's modular design makes it possible to meet a wide range of applications according to customer demands.

This latest project consists of two chemical high speed copper coating plants and one electrolytic/chemical copper coating plant operating at wire speeds up to 30m per second.

The coating technology is generally applied to high quality welding wire such as CO₂, FCW, SAW and other copper coated wires.



Russian venture

The joint venture between OFS and Sviazstroy-1 has opened an optic fiber cable factory in the Maslovski industrial zone of Voronezh, Russia.

Vladislav Kalashnikov, general manager of OFS Sviazstroy-1, said: "Today OFS Sviazstroy-1 is one of the top Russian optical fiber cable factories. This new factory is expected to create additional jobs and will increase the joint venture's manufacturing capacity significantly."

Michael Pavlychev, MD for OFS Russia and CIS, added: "With the extra capacity of the new factory, we can better serve the growing demands of our customers developing transcontinental telecommunications backbones."

The joint venture was founded in 1999. Capacity expansion was needed in 2007 to meet the market demands, and was followed by a second phase of expansion from 2012 to 2014.

"The new location of the fiber optic cable manufacturing facility is an ideal fit for OFS Sviazstroy-1 with Voronezh city government's emphasis on attracting and supporting growing, successful and technologically enhanced businesses," said Kalashnikov.



Bird safety survey

The Raptor Protection of Slovakia (RPS) is carrying out research into the effects on birds of electrical wiring. The aim is to protect preferred species on the Natura 200 territories. RPS is working in collaboration with the Východoslovenská Distribučná power distribution company.

More than 50 specially trained experts are monitoring over 8,000km of wiring in Slovakia.

The study is part of the project "LIFE Energy in the Country" and monitoring will be carried out in two parts, the first of which began in January 2015 and ended in March.

Východ oslovenská Distribučná (VSD) and other energy companies will provide the resources for the ecologization as financial investment to co-finance the project, with VSD giving almost €210,000 within five years. The European Commission will contribute €1.4 million.

Partners in the project are VSD, Západoslovenská Distribučná, the university of veterinary medicine and pharmacy in Košice, and the state nature conservancy of the Slovak republic.



European HVDC growth

The HVDC cable system interconnecting Norway and Denmark is ready for commercial operation.

Prysmian Group was awarded the contract for the Skagerrak 4 interconnection between Norway and Denmark in January 2011. The contract comprised the supply, jointing and testing of 92km of 500kV mass-impregnated underground cable system and related accessories, with a transmission capacity of 700MW.

Prysmian Group has also recently announced the successful commissioning and handover of other HVDC grid connections in Germany (BorWin2 and HelWin1) and the official inauguration of the land HVDC interconnection between France and Spain (INELFE).

Two further DC offshore grid connection projects, SylWin1 and HelWin2, are near completion and scheduled to begin commercial operation within the first half of 2015. Prysmian is currently implementing HVDC cable systems for the DolWin3 and BorWin3 projects.



Further growth for UK wind power

ABB has won an order from DONG Energy to supply a high voltage cable system to carry power from the Walney Extension wind park.

The Walney Extension will provide generation potential of 660MW in addition to the offshore wind farm's existing 367MW. The wind farms will make a significant contribution to the UK's target of achieving 15 percent of its total energy production from renewable sources by 2020.

Europe now has around 8GW of offshore wind power connected to the grid, with the UK a leading contributor, accounting for nearly half the installed capacity and a further 11.9GW of offshore capacity under construction or having planning approval.

ABB will design, manufacture, supply and commission the 220kV alternating current extruded cable system. The link includes over 157km of submarine cable to connect the two wind farm platforms to each other and to shore, with 24km of underground cable for the grid connection.



On-site pump power

Spanish wind turbine manufacturer Norvento has secured approval for the installation of two nED 100 100kW turbines at Shoreham Port on the south coast of the UK. Power generated from the turbines will power the on-site pumps responsible for maintaining the water level in the locked basin of the port. The twin turbines are capable of producing 555,000kWh of energy per year, compared to the annual 475,000kWh consumed by the pump house.

Norvento's UK business development director, Ivo Arnús, said: "Shoreham Port will really demonstrate the versatility of medium wind as an on-site power source.

"More than just a means of bringing down energy costs, innovative turbines like nED100 can fit seamlessly into the daily operation of essential equipment on-site and reduce overall impacts on the grid. We're confident that Shoreham will provide a template for further sites throughout the UK and Europe in this regard."

Norvento's nED100 100kW turbines include active and reactive power controls, which will enable the installed machines to cater for the variable consumption profile of the pumps.



Manufacturer roped in

Bekaert and its Chilean partners (through Matco Cables SpA) have acquired the wire ropes business of Arrium Ltd. The Australian entity has been renamed Bekaert Wire Ropes Pty Ltd and will be part of the Bekaert Rope Group in which Bekaert and Matco Cables SpA hold 65 percent and 35 percent respectively of the ropes entities in Canada, Chile, Peru, Brazil, the US, and Australia.

The financial results of Bekaert Wire Ropes Pty Ltd will be included in the consolidated statements of Bekaert as from 1st March 2015.

The integration of the Australian rope activities will enable Bekaert to take a market position in mining ropes and enhance the company's strategy for growth in steel wire ropes.



www.iwma.org

INDUSTRY PARTNER FOR WIRE

wire Düsseldorf **Wire Düsseldorf 2016:**
book your stand space now

From 4th to 8th April 2016 wire Düsseldorf, the world's lead trading fair for the wire and cable industry, will take place.

Companies can now book their stand space using the online registration at www.wire.de/2330

The statistics of wire 2014 speak for themselves: about 38,000 trade visitors from around the world obtained information from 1,333 international exhibitors on forward-looking industry trends and tomorrow's technology. These figures have again confirmed the international significance of wire Düsseldorf as the international market place for the wire and cable industry.

The deadline for application is Wednesday 30th April 2015!

For more information then please visit www.wire.de or contact the Messe Düsseldorf GmbH hotline: **+49 211 4560-400** or onlinesupport@messe-duesseldorf.de

wire South America **Become an exhibitor:**
wire South America 2015

wire South America is fast approaching and with it your chance to present your machinery and equipment to the South American market.

Make sure to take advantage of this marketing and communication platform to build and strengthen your contacts in South America.

Economic development is set to continue in the region and with it demand for wire and cable products will increase. 750 exhibitors from 26 countries presented their products in 2013 attracting some 15,000 visitors, proving that demand is strong. This trend is set to continue as we approach this year's event, to be held concurrently with TUBOTECH at the Imigrantes Exhibition Center in São Paulo, October 6th to 8th 2015.

For further information visit the website at www.wire-south-america.com or contact the show organisers, Messe Düsseldorf GmbH:

Email: niemannh@messe-duesseldorf.de
Tel: +49 (0)211 4560-7768/7764

Deadline for registration is 29th May 2015

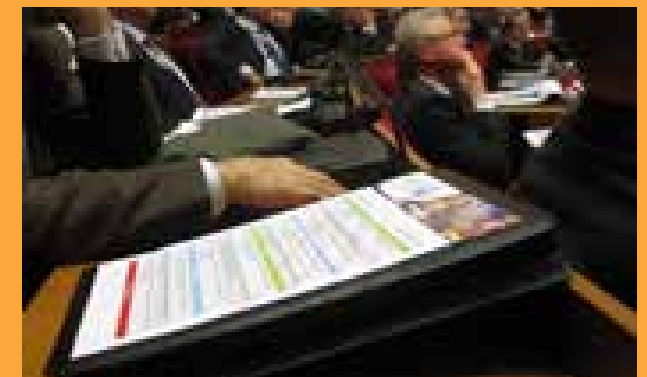


CabWire World Conference 2015
Congress Center Düsseldorf, Germany
3 November 2015
7th biennial cable and wire technical conference

CabWire 2015 World Conference 2015

Interested in presenting a paper at the 7th biennial CabWire World Technical Conference in Düsseldorf, Germany, home of the wire industry? Forward your short abstract by email to info@iwma.org for consideration or visit www.cabwire.com for more info.

A joint venture between the IWMA, IWCEA, ACIMAF and the WAI, once again the event will be a major collaboration by these associations which represent the activities of the wire and cable industry worldwide.



www.cabwire.com

ASIA & AFRICA NEWS

MIDDLE EAST CABLE BOOST

Research from consulting firm Frost & Sullivan suggests the market for power cables across the Middle East will be boosted by investment in the Gulf Cooperation Council (GCC) interconnection power grid.

“The Gulf Cooperation Council (GCC) interconnection power grid project, which has been drawing huge investments from all participating countries, will drive the need for power cables,” said Frost & Sullivan’s energy and environmental consultant, Mohammed Faraz Khan. “The first phase of the project has brought in capital of around \$1.1 billion, indicating its potential to rejuvenate the Middle East power cables market.”

Investment in the power infrastructure and construction sectors across the Middle East are fueling growth in power cables contracts, with the 2022 FIFA World Cup in Qatar and 2020 Expo in the UAE also expected to contribute.

Frost & Sullivan research concludes that the private sector’s contribution to power generation can be expected to grow from 7.4 percent to over 17 percent by 2020, with Saudi Arabia alone contributing around \$100 billion.



Solar in Egypt

SkyPower Global and International Gulf Development (IGD) have signed an agreement with the Egyptian government to develop 3,000MW of solar photovoltaic projects over the next four years. The agreement is seen as a milestone in Egypt's strategic plan to develop a sustainable renewable energy industry.

"The availability of energy, and managing the demand for it, is one of the main priorities on the Egyptian development agenda," said Abdel Fattah Al-Sisi, president of Egypt. The venture will entail a multi-phase development of clean, sustainable energy to support the growing energy needs of Egypt, and directly contribute to the government's goal of producing 20 percent of energy from renewables by 2020.

SkyPower IGD's phase one will reach commercial operation in late 2015.

The Canadian ambassador to Egypt, Troy Lulashnyk, who was present at the signing, said the agreement: "marks a significant milestone" for international businesses, sending a "clear signal...that they can work in Egypt with confidence, and to Egyptians that their country is open for business."

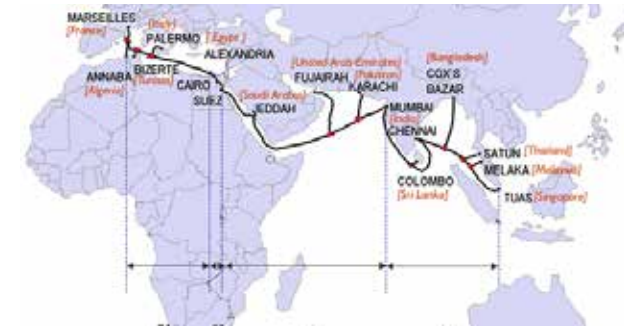


Azerbaijan broadband

Azerbaijan newspaper Azer News has reported on the progress of a broadband Internet development project in the country. Approximately €450 million has been allocated to the project to connect cities and villages in Azerbaijan with fiber optic cables.

Sumgait Technology Park (STP) is to supply cables to the project, officials revealed. STP has cable manufacturing equipment supplied by Knill Groupe, and is the first fiber optic cable manufacturer in the country. The new local supply will give a price advantage to cable buyers who previously relied on cables from Turkey and other neighboring European countries.

Fiber-to-the-home projects in Azerbaijan are still in the initial stages. Though many plans were made in the past for the implementation of FTTH in the country, the major telecom operator Aztelekom is yet to come forward with implementation schedules. STP is currently in talks with Azerbaijani operators on the issue of fiber optic cables and national infrastructure projects.



Subsea upgrade

Mitsubishi Electric Corporation has completed an upgrade and expansion of the SEA-ME-WE 4 cable system.

The SEA-ME-WE 4 system, which was commissioned in 2005, is an ultra-high capacity fiber optic submarine cable system linking south east Asia to western Europe via the Middle East. The 20,000km network, linking 16 landing stations, is owned by a consortium of 16 telecom carriers in 14 countries.

Mitsubishi Electric supplied its 100G MF-6900GWS submarine line terminal equipment (SLTE) with incorporated superior coherent technology for all 16 landing stations to upgrade the current 40Gbps to 100Gbps and expand the ultimate design capacity from 2,800Gbps to 4,600Gbps. The new SLTE doubles the data capacity per rack and is said to reduce power consumption per unit of data volume by 47 percent per station.



Power from above

Mitsubishi Heavy Industries has conducted ground demonstration testing of "wireless power transmission", a new technology presently under development to serve as the core technology of the space solar power systems (SSPS) expected to be the power generation systems of the future. With successful completion of the test at the company's Kobe Shipyard and Machinery Works, MHI has now verified the viability of long distance wireless power transmission.

In the ground demonstration test, 10kW of power was sent from a transmitting unit by microwave. The reception of power was confirmed at a receiver unit located at a distance of 500m away by the illumination of LED lights, using the transmitted power. The transmission distance and power load mark new milestones in Japan with respect to length and volume of wireless power transmission.

MHI conducted the ground demonstration testing based on an agreement with Japan Space Systems, the incorporated foundation that has been consigned by the Japanese ministry of economy, trade and industry to carry out the 2012 solar power wireless transmission technology development project.



Gulf stakeholders' summit

Telecoms industry leaders meeting in Dubai have discussed challenges to subsea cabling expansion in the Gulf region and underlined the need for greater collaboration among stakeholders.

The leaders, attending the inaugural Submarine summit in Dubai, focused on emerging trends in telecommunications and the challenges and constraints in developing a reliable and cost-efficient cable system. They also debated key issues facing the region's submarine cable sector and formulated strategies for the future.

The South Asia-Middle East-North Africa region's Samena Telecommunications Council hosted the summit, which brought together leading figures from the telecommunications industry, including members of the Samena Council's subsea working group.



Backbone looks for support

Malawi Telecommunications is seeking local and international telecom companies interested in partnering to operate its nationwide fiber optic backbone. The company said it is looking for private sector players to express interest in the prospective co-ownership of the network to provide a robust infrastructure to facilitate telecom services in the southern African country.

The fiber system is the only network that links Malawi to the East African submarine cable system (EASSY), through Tanzania in East Africa and Mozambique in Southern Africa.

As in many other countries in Africa, the Malawian government and its partners have failed to provide sufficient funding to meet the growing demand for broadband services. Malawi's internet sector is reasonably competitive with at least 22 licensed ISPs, compared to just two mobile phone operators currently operating in the country. However, the high cost of bandwidth has held back growth in the sector and has kept broadband access prices among the highest in the region.



Sanjeev Ranjan
ICA India's MD

Government boost for Indian copper

The international copper association of India (ICA) has said in a statement that the Indian government's proposal to establish five new 4,000MW power projects is a positive step for the copper industry.

"The railway budget had set up a roadmap for reforms, and the tone for the budget has followed more or less a similar pattern," said ICA India's MD, Sanjeev Ranjan, continuing that the government understands a very strong case for improving India's global competitiveness by focusing on infrastructure.

Consolidation and improvement in operations of railways by bringing in better technology will also be a big positive for the copper industry, he said.

"We are happy with the government sticking to its vision of "Housing for All" by 2022, which means it will build 60 million homes. This will be a big boost for...building wires for residential applications," he added.



Indian connection project

Share values of Indian fiber optic cable manufacturers are said to be rising, following the Indian government's announcement of the acceleration of national optic fiber network projects throughout the nation.

Known as NOFN, the project uses fiber optic cables to connect villages with broadband, and has boosted the telecom and related industrial sectors in India. The project aims to provide 100Mbps broadband to 250,000 villages by December 2016.

Around 750,000km of fiber optic cables are estimated to be laid for the project which will use loose tube cable designs. All manufacturers of optical fiber cables in India follow the same design to provide multi-vendor compatibility for competitive price and faster delivery options. Optic fiber cables and accessories are procured through a tendering process.

To date, cables have been laid in about 5,000 villages, but the slow roll-out of the project has met with criticism.

INTERWIRE 2015

SHOWTIME IN ATLANTA

27th - 30th 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	Harifon 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

ADVARISS INFORMATIONSSYSTEME GMBH
Booth 551



▲ Advaris Cable - all-in-one solution

Advaris Informationssysteme GmbH will be presenting the latest version of its "Advaris Cable" operations management system for the length-based manufacturing industry. Advaris Cable was developed to offer an all-in-one solution for cable design, manufacturing execution, procurement, sales and logistics.

Advaris Informationssysteme – Germany
Website: www.advaris.de/en

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

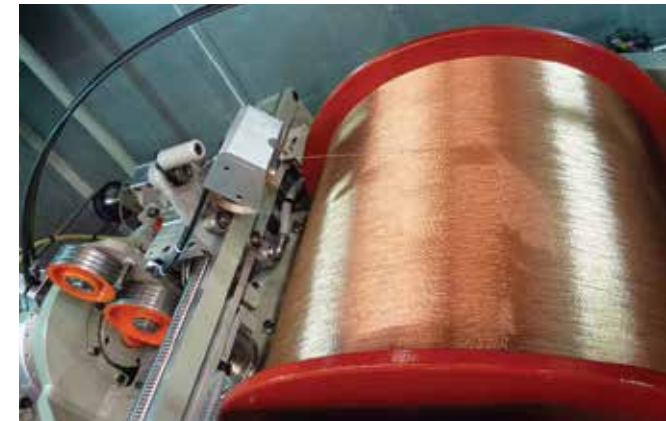
BLACHFORD
Booth 406

Blachford has worked closely with wire drawers to control and mitigate the risks associated with combustible dusts. The resulting low dust lubricants from Blachford reduce the amount of dust created during all aspects of the drawing operation, but especially address the issue of dust created when the lubricant detaches from the wire after exiting the die.

When wire is drawn into a die, it pulls lubricant into the die and heats it. At the higher temperature the lubricant softens, becomes tacky, and attaches to the wire as a cohesive film, but when the wire exits the die, it starts to cool, and the lubricant film cools and becomes brittle. When the wire is subsequently bent around a capstan the brittle lubricant can fall away from the wire surface, resulting in liberated lubricant that can become an airborne dust hazard. Blachford's Low Dust Dry lubricants attach onto the wire differently, adhere better at cooler temperatures, and resist falling away from the wire when it is cooled and bent. The result is less detached lubricant, so lowering the risk of dust creation in the wire drawing environment.

Blachford – Canada
Website: www.blachford.ca

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

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.



▲ Service maintenance from Cable Services & Systems

The global services division turnover has been rising by 350 percent for ten years.

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

CANDOR
Booth 624

Candor specializes in wire cleaning and plating plants and is a supplier of chemicals

for various applications. The company supplies both single- and multi-wire cleaning and plating lines for ferrous and non-ferrous materials and all plants are custom built.



▲ Custom built from Candor

Candor will introduce its newly developed Copperjet high-speed copper coating plant for welding wires. Its modular design suits it to a wide range of applications including CO₂, MIG, FCW and SAW.

Candor – Sweden
Website: www.candorsweden.com

CEMANCO
Booth 606

Cemanco ceramics in zirconium or aluminum oxide are manufactured to the

highest standards of raw materials, density and surface finish with each finished part subjected to two separate levels of end control. Customers can choose from over 2,000 drawings for standard machines from Niehoff, SAMP, Herborn, Henrich and Syncro.

As a specialist for ceramic wear parts the company offers roller guides for wire and cable and wire straighteners and a wide selection of ceramic flanged eyelets, ceramic rods, tubes and bow guides in a variety of qualities and surface finishes. Pulleys and sheaves are available in materials ranging from aluminum or steel, coated with ceramic or tungsten carbide, to solid ceramic or composites with metal or plastic flanges and solid ceramic inserts as well as plastic materials. In addition to an extensive inventory Cemanco will supply individual solutions.



▲ Individual solutions from Cemanco

Cemanco – USA
Website: www.cemanco.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 apps from Cimteq

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

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.



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

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

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



▲ Vicafil wire drawing soaps from Condat

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



▲ Stranding line from 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, 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.

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.



▲ Double coiler from DEM

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,



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

electro-hydraulic and fully hydraulic cutters. How much are your dies costing you? 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

MESSE DÜSSELDORF GMBH
Booth 1001

Messe Düsseldorf will promote its worldwide program of international wire and cable trade fairs, including wire Düsseldorf 2016 (to be held from 4th to 8th April 2016 in Düsseldorf, Germany), wire Southeast Asia 2015 (16th to 18th September 2015 in Bangkok, Thailand), wire Russia 2015 (to take place in Moscow from 12th to 15th May 2015) and wire South America 2015 (6th to 8th October 2015 in São Paulo, Brazil).

Exhibitor, visitor, hotel and travel information for wire Düsseldorf 2016, wire Southeast Asia 2015, wire Russia 2015 and wire South America 2015 will be available on the booth.

Messe Düsseldorf GmbH – Germany
Website: www.messe-duesseldorf.com

DYNAMEX CORPORATION
Booth 1911

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-swellaable, 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.



▲ The TPX-36-3-EU from Dynamex

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

- New CU & AL bunchers offered for 36", 48", 1,000mm or 1,250mm. The same size machines available as cablers for insulated products

- New high speed 36" cabler 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 cabler out of stempaks, neutralising payoffs and more.

Dynamex Corporation – USA
Website: www.dynamexcorp.com

GABARRÓ SA
Booth 732



▲ The company's plant

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

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



▲ The Gauder factory

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 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

GEM GRAVURE
Booth 706

Gem Gravure Co is sponsor to Mike Abrashoff, former naval commander of

the USS Benfold, and author of the New York Times bestseller "It's Your Ship". Mike will present his system of management techniques in a keynote presentation at the show.



▲ Gem Gravure's S3 printer

Gem will be exhibiting its range of inks and the new S3 Plus printer, available in single and tandem models and designed for more accurate synchronization between the line speed and print wheel. Demonstrations of diamondJET connect software will also be available. The program allows users to send messages to multiple alphaJET ink jet printers from a central computer.

Gem Gravure – USA
Website: www.gemgravure.com

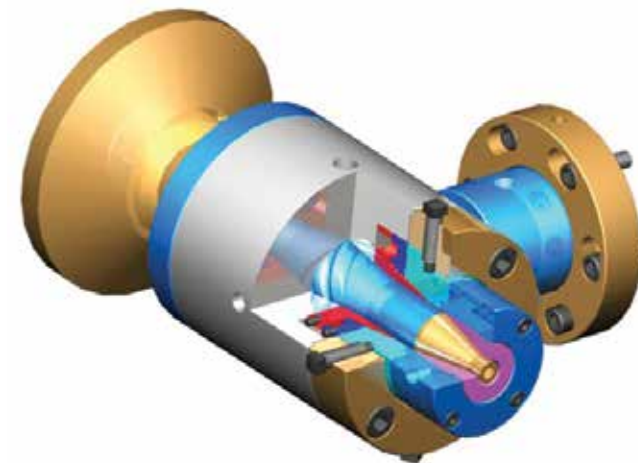
GULL TOOL & ENGINEERING CO INC
Booth 211

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 solvent resistance.



▲ 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

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.

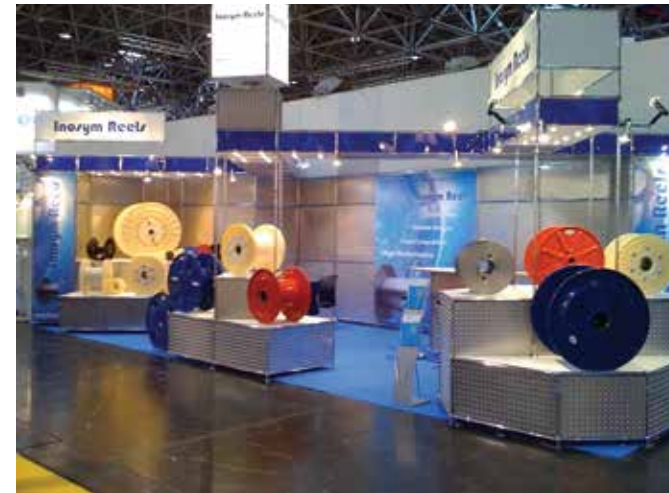
This means that the customer requirements concerning length information, and the length tolerances need to be captured in the system accurately and complete.

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 capabilities and quality.



▲ Some of the reels on offer from Inosym

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

LÄMNEÅ BRUK AB
Booth 324

Lämneå Bruk specializes in the design and manufacture of machines for the wire drawing industry. The company's latest designs and technology, including its newly designed drawing machine, will be available to view on the booth.

Lämneå Bruk AB – Sweden
Website: www.lamnea.se

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

LLOYD & BOUVIER
Booth 1832

Lloyd & Bouvier will be displaying a new 1,250mm take-up and tension payoff, designed for line speeds up to 600fpm and with a lifting capacity of 6,000lb.

The machines have a modular weldment base, and the support arms and gate arms are cast. The gate arms are lifted by dual hydraulic cylinders with an electric motor for

in/out operation. Payoff tension is regulated using a multi-puck pneumatic clutch, adjustable in 2-, 4-, and 6-puck configurations and controllable from 10 to 90psi. Take-up power is provided by a Marathon Black Max AC motor, with an Allen Bradley AC variable speed drive.



▲ The new 1,250mm take-up and tension payoff

Lloyd & Bouvier – USA
Website: www.lloydbouvier.com

MAILLEFER EXTRUSION OY
Booth 932

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

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.



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

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 costs, and easier use by the operator.



▲ MFL Group will present its range of machinery at Interwire

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

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



▲ Range of dies from Nano Diamond America

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 AS6012

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.

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

NIEHOFF
Booth 740



▲ The BMV 16 rotary braiding machine

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 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

P&R SPECIALTY
Booth 333



▲ P&R Specialty's plan

P&R Specialty will be exhibiting its complete product line of plastic spools, fiberboard spools and plywood reels. P&R designs and manufactures custom and current molds in its in-house tool shop.

P&R Specialty – USA
Website: www.prsppecialty.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.



▲ The PWM EP500

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.

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.

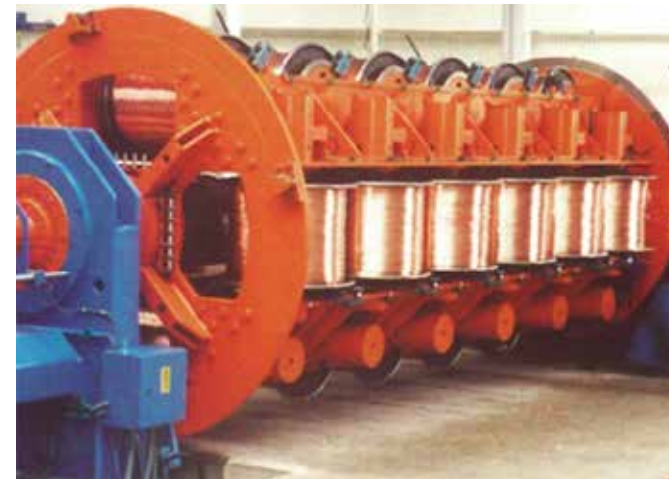
PWM Ltd – UK
Website: www.pwmltd.co.uk

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.



▲ A rigid strander from Queins

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.

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

RADCON
Booth 457

RadCon manufactures bell-type furnaces for spheroidize annealing of wire and wire rod for the production of cold-heading quality wires.

RadCon specializes in spheroidizing of alloy steel hot-rolled wire rod and drawn

wires, resulting in a clean surface that is free of decarburization. The company, headquartered in the USA, operates globally, with over half of its turnover generated outside the USA for the last ten years.

RadCon offers advanced systems for annealing wire and wire rod, medium-carbon and alloy steels, to cold-heading quality specifications. The H2SHC™ system is said to provide the highest convection of any system to produce the uniform mechanical properties necessary for the manufacture of high quality fasteners.



▲ Advanced system from RadCon

RadCon's proportional-pulse control system design produces a stable thermal cycle, key to achieving 90 to 100 percent spheroidization, for prolonged die life and better flow during the cold forming process. A 100 percent hydrogen protective atmosphere and patented AC/APEX™ control system ensure surface quality free of decarburization - an important element in the production of cold-heading quality wires.

RadCon – UK
Website: www.radcon.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:

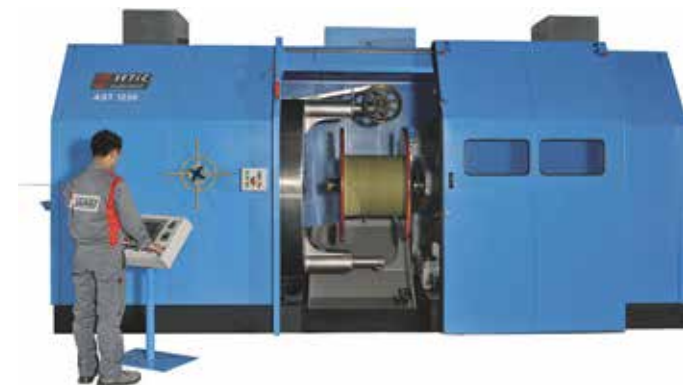
- Drawing rolls and assemblies
- Annealer pins
- Spooler guides
- Eyelets
- Air wipes
- Wire reeds
- Idler rollers

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.shjjjie.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 Fiber Laser 6003 Arline reliably detects airlines in the fiber

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.

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

SIMPACKS Booth 206

Simpacks will exhibit a dual head automatic coiler, suitable for building wire or strand of between 18AWG and 8AWG. It can also coil flat wire or cable, producing six to eight coils of 100m length per minute.



▲ The new coiler from Simpacks

Also available is a new automatic coiler, strap, and coil holder for packaging of steel wire coils between 22kg and 34kg. It features a two and four strap option.

An automatic coiler and strap is available for hose and armor cable packaging with 2 or four straps on the coil.

Simpacks – USA
Website: www.simpacks.com

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

TEKNIKOR Booth 1066

Teknikor offers a wide range of services, including electrical and mechanical contracting, automaton and control, equipment upgrades and rebuilds, steel fabrication and welding, plant layout and design, engineering and CAD.

Teknikor – USA
Website: www.teknikor.com

TROESTER Booth 1067

Troester will present new developments in the field of CCV and VCV lines for XLPE and rubber cables, one-step silane lines for LV and MV cable applications, and high-speed insulation and sheathing lines. Technical solutions for CV tube components, heavy duty cable jacketing and submarine cable equipment will also be exhibited.



▲ New developments from Troester

Troester's subsidiary, X-Compound, and its range of compounding plants for PVC, HFFR, XLPE, semi-conductive material and special applications will be represented.

Troester – Germany
Website: www.troester.de

TULSA POWER



▲ A range of equipment from Tulsa Power

Booth 1950
Tulsa Power is a wire and cable handling equipment manufacturer based in Tulsa,

OK. The company designs and builds a range of material handling equipment including payoffs, take-ups, accumulators, cabling lines, linear measurers, caterpullers, coilers, rewind/test lines, concentric and eccentric taping lines, and spiral striping machines. On display will be an ACT-26, automatic cut and transfer spooler, for continuous operation as a take-up on an extrusion line or a rewind application.

Tulsa Power – USA
Website: www.tulsapower.com

ULTIMATE AUTOMATION LTD
Booth 458



▲ The UMW-65 displays to automotive components, since 1991.

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

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.



▲ The SW6-14 dual head spooler from Windak

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 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

PRODUCTS & MACHINES TECHNOLOGY

Winding up at low tension

Tulsa Power has released the ACT (automatic cut and transfer) series, a new line of high performance coilers. The new range incorporates a dual spindle turret winder, designed for stranded, flexible wire or cable from 18 AWG to 4/0, either as part of an extrusion process or coupled with other ancillary devices on a rewind application.



▲ New range of coilers from Tulsa Power

The fully automatic system offers a cut and transfer feature that quickly clamps, cuts and transfers the product from full reel to empty reel, at speeds up to 1,000fpm, without process interruptions. An ultrasonic dancer locates the position of the product and assures a smooth functioning of controlled winding, even at low tensions.

Tulsa Power developers are claiming “a near perfect military wind” through the tension control capability and an operation feature which minimizes any angle in the relationship between the material guide arm and the bobbin/coil surface.

The ACT series coilers can reduce labor costs by utilizing one operator for several extrusion lines. Special control features and an operator touch screen interface allow convenient operator controls with near perfect switchover reliability at high speeds. The automatic design eliminates product from piling up on the floor, as required on manual switch-over machines, saving the operator time, minimizing scrap rates, and improving wind appearance and product quality while improving safety.

Flexible and heat-resistant

TPC Wire & Cable Corp has developed a replacement for standard silicone rubber motor lead (SRML) cable. The company created Thermo-Trex® 200-HD cable to meet the demand for a heat-resistant, flexible cable that offers better cut-through and abrasion resistance than traditional SRML products.

The flexibility of the Thermo-Trex® 200-HD cable is achieved by using finely stranded, tinned copper conductors and a specially woven high density fabric jacket enriched with moisture-resistant finishing compounds. High heat resistance allows the Thermo-Trex® 200-HD to withstand continuous temperatures up to 392°F (200°C) and flash heat up to 775°F (413°C). The high density fabric adds protection against cut-through and abrasion.

“We’re excited to introduce our new Thermo-Trex® 200-HD cable. This new cable will provide better solutions for our customers who are looking for a cable with added product benefits over traditional SRML,” said

Debra Tromp, product manager at TPC. Thermo-Trex 200HD® can be used in most sectors, including food and beverage, oil and gas, mining, utilities and steel.

Reusable sleeving

TPC Wire & Cable Corp has introduced a new cable sleeve that is resistant to puncture, tear, abrasion, water and petroleum. Thermo-Trex® chemical and moisture resistant Ultra-Sleeve™ with closure is a reusable sleeve that protects cable against tearing, cuts and abrasion while offering high chemical and moisture resistance.

“Our new Thermo-Trex chemical and moisture resistant Ultra-Sleeve with closure will work well for customers who are looking for an easy and durable solution for organizing and protecting their wire and cable from harsh environments,” said Debra Tromp, product manager at TPC.

Ultra-Sleeve is made from a tightly woven ballistic nylon that sheds surface moisture and has a built-in industrial strength hook and loop closure. Easy cut-and-wrap installation eliminates the need to disassemble existing components and reduces downtime. The new sleeve is designed to be of benefit to a variety of markets including food and beverage, oil and gas, transportation, mining, utilities, steel, medical and government facilities.

Repairs on the side

TE Connectivity has launched the Raychem Rayseal large gauge wire repair sleeve,

a high-performance, side-entry heat shrinkable sleeve with an adhesive lining. The product is designed for sealed repairs to large gauge cables in military aerospace, defense and ground system applications. Its side-entry design enables it to be installed without de-pinning connectors or breaking system integrity, so significantly reducing repair time and saving money.

“It is costly to disconnect a large gauge cable on an aircraft in order to repair a jacket. Our solution is to provide a side-entry jacket repair method that can be installed over the damaged cable jacket to fully seal it and provide a permanent, robust repair,” said Mark Taylor, product manager, global aerospace, defense and marine, TE.

The Rayseal sleeve’s tough outer fluoropolymer material is designed for resistance to mechanical abrasion and common aerospace fuels and fluids, as well as for excellent performance at high temperatures. A high temperature adhesive lining seals around the underlying damage to the cable jacket to maintain the cable jacket properties as near as possible to the original specification. Operating temperature range is from -65°C to +260°C.

The Rayseal LGWR sleeve is supplied in kit form, including abrasive paper and cleaning wipes for cable jacket preparation, and high temperature film tape.

Microgrid combats outages

The solar energy systems provider SolarCity has launched GridLogic, a microgrid service

to provide communities with clean power when the grid is down.

A microgrid is a small-scale energy system that uses distributed energy resources to balance local needs. SolarCity believes the microgrid will be an answer to prolonged power outages caused by natural disasters. In 2012, Hurricane Sandy alone caused over 8.5 million power outages across 21 US states.

SolarCity’s microgrid is designed for municipalities, military bases and remote communities, and will use Tesla Motors batteries to store the generated energy. SolarCity co-founder and chief technical officer Peter Rive said: “The microgrid product is basically a culmination of all of the technology that SolarCity’s been developing over the past eight years.”

GridLogic includes a system of software-based monitoring and controls that manage the mix of distributed energy resources and utility power to maximize savings. GridLogic is claimed to provide electricity to communities for less than they pay for utility power.

Armored test cables

Pasternack has released its newest line of 75 ohm test cables with operation up to 3GHz. These rugged cable assemblies are designed to withstand the rigors of test laboratory use and applications in 75 ohm communications systems. Such high frequency test cables are used in technologies such as cable TV, MoCA 2.0 and MoCA 1.1 (media over coax alliance) and DOCSIS (data over cable service interface specifications).

Pasternack’s 75 ohm test cables are available in two configurations, a type-N male to type-N male and a type-N male to type-F male. The F connectors are designed to perform up to 3GHz. Connectors are threaded to ensure an accurate and secure connection to both the device under test and the analyzer. The test cables are suitable for engineering research, production environments and quality testing facilities and can be used with 75 ohm S-parameter test systems.

The new flexible armored test cables exhibit excellent insertion loss of <0.5dB @ 3GHz, and typical return loss is 28dB. The assemblies have an armored jacket that meets ANSI/SCTE 99 2009 pull force and ANSI/SCTE 98 2009 tightening torque standards and are also capable of 100,000 bends minimum.

Testing milestone

MOHR Test and Measurement LLC has shipped its 1,000th CT100 series TDR cable tester, to a US military customer. The CT100, CT100S and CT100HF TDR cable testers are used across a wide range of industries for precision testing of twisted pair, coaxial, and multi-conductor cables and connectors. MOHR instruments utilize a fast rise-time step test signal, and are designed to detect and localize subtle cable and connector faults and accurately measure cable impedance. The instruments’ precision length measurements are also useful for phase-matching microwave cables.

“Our customers use the CT100 to test and qualify almost every type of cable you can imagine – from aircraft instrumentation

cables to phased-array radar cables to automotive engine wiring harnesses. We even have customers using the CT100 in submersible vehicles to test sea-floor cabling," said Brandt Mohr, chief technologist.

"These are the only field TDRs that give you sub-centimeter connector-level resolution along with advanced features such as 16-bit sampling, FFT and S-parameter tools, layer-peeling, transient fault capture, and easy integration into production floor automated test setups."

The CT100 instrument family was released in 2009, and receives continuous upgrades, improvements, and new software features that are available to owners of earlier units through the instruments' web update feature.

Cable saves space and costs

Helukabel has added two new motor connection cables to its Topflex product family – Topflex-EMV-UV-3 Plus 2XSLCYK-J and Topflex-EMV-UV-2XSLCYK-J.

The latest cables have an improved conductor temperature resistance of 90°C, enabling a smaller cross section when designing electrical networks in machines or systems. In addition to the resulting lower costs and use of copper, the smaller outer diameter eases installation in tight spaces by offering an increase in the cable's maximum bending radius.

The Topflex-EMV-UV-3 Plus 2XSLCYK-J is constructed using a three conductor plus three symmetrical ground configuration for

improved concentricity and an electrically balanced cable. It is available in sizes 16AWG to 500kcmil. The Topflex-EMV-UV-2XSLCYK-J uses a traditional three conductor plus full size ground structure, in sizes 16AWG to 350kcmil.



▲ New additions to the Topflex family. Photograph courtesy of Helukabel

The new cables are jacketed with a PVC compound, double shielded, and use XLPE insulation on the inner conductors, making them suitable for applications that experience high voltage spikes and long cable runs.

Both cables are designed for medium mechanical loads in both fixed and occasional flexing installation in wet rooms or outdoors, and their use in explosive environments is also possible.

The products are UV resistant, self-extinguishing and flame retardant in compliance with DIN VDE 0482-332-1-2 and DIN EN 60332-1-2.

Web design

Cicoil has launched its EZ-Flexx™ flat cable configurator. This free web-based tool, which allows a user to design a custom flat cable, is accessed through the Cicoil website.

Flat cables can be constructed of power conductors, shielded signal pairs, video and coax wires and tubing for liquid and air. Cicoil has also added specialty modules (Camera Link®, cat 6A, firewire, USB 3.0) to the configurator, and a Cicoil engineer is available to help in adding other elements to an individual design.

Any combination of elements can be placed in any position within the flat cable profile.

When the design is complete, users receive a price quotation, custom part number and an engineering drawing within seconds.

All of Cicoil's cable configurator cables are UL recognized, CE conforming, RoHS and REACH compliant, class 1 clean room rated and are cured continuously, with no debris or material contamination, in an automated, climate-controlled environment.

Feeling the heat

Amphenol Industrial Products Group has introduced a new line of heat shrink tubing for the electronics, energy, rail mass transit, heavy equipment, hybrid/electrical vehicles, telecommunications, mining and oil and gas markets. RoHS-compliant Amphe-HST range is used in low voltage applications and medium voltage

transmission and distribution as well as insulation protection.

This new HST line is available in a variety of styles including thin wall tubing, to protect electronic and electrical applications, and dual wall tubing that seals and insulates splices, junctions, Ys and Ts, back shells and terminations where environmental protection is required. Amphenol's high temperature products operate in environments up to 260°C.

Finding fault

Megger has launched the TDR2010, a dual channel, high-resolution time domain reflectometer (TDR) for fault location on all metallic cables, including twisted pair wires and coax cables.

The rugged, IP43-rated auto set-up unit is designed for use by electrical and telecommunications engineers. Ready for instant use, the new TDR helps determine the impedance of the cable under test, sets the unit accordingly and selects the optimum gain and pulse width. If necessary, the auto function can be manually overridden, allowing the user to fine tune the test and identify hard-to-determine faults.

The TDR2010 features Megger's Xpert mode for rapid identification of faults. When the Xpert key is pressed, the unit automatically adjusts the range and gain, while positioning the cursor to the first major fault on the cable. Pressing the Xpert key again moves the cursor to the next detected disturbance. This mode makes obtaining good results simple for even an inexperienced user.

Megger's TDR2010 offers full flexibility with its dual trace and dual cursor capabilities, giving the operator full control and instant notification of distance between two points.

The TDR2010 features five output impedances, 25 ohms, 50 ohms, 75 ohms, 100 ohms and 125 ohms, and a velocity factor between 0.2 and 0.99.

DSR's spring wire line

South Korea's DSR Wire Corporation has purchased a Radyne spring wire line from Inductotherm Heating and Welding Ltd (IHW). Radyne lines treat SAE9254 or equivalent and are also used to treat alloys with vanadium and nickel additions. DSR will use the line for the production of induction-tempered wire.

IHW has supplied 15 of these high capacity lines with production capacities of between 1,500kg and 3,000kg per hour.

Radyne lines use no chemicals that pose a risk to either operator or environment, using only tap water as the cooling medium in the quench tanks, and are also highly energy efficient. Induction technology generates heat within the wire and only when the line is in production, minimising energy losses.

IHW continues to work closely with DSR Wire Corporation. Planned maintenance, service support and production line enhancements allow DSR to offer the highest quality and consistency wire to spring makers.

Increasing capacity without increasing cables

Korea-based Optowiz is launching a campaign through its California operations to market its bi-directional (BiDi) high-density (HD) SFP transceivers to North American customers. Optowiz CEO Dr KJ Yang explained that this two wavelength (2WL) TRx offers a new method of transmitting data on each of the 18 common CWDM channels via existing fiber optic cables with no change in any passive optics, thereby increasing the capacity of all existing optical fiber communications. By simply replacing existing CWDM SFP TRx, users could "double the effective fiber cable capacity without investment of any new fiber optic cables".

With demand for Internet connectivity continuing to increase, the fiber optic cables carrying the data will near capacity. Hence, short of laying more cables, growing demand is being increasingly met by boosting the number of available CWDM channels on which the Internet data traffic is transmitted. Optowiz's BiDi HD SFP transceivers can transmit data at speeds up to 6Gbps over a one-core single-mode fiber.

Optowiz has released this double density HD-SFP designed to transmit on one sub-band (low-band) of each CWDM wavelength and receive on the other sub-band (high-band). Dr Yang continued: "This 2WL BiDi HD-SFP product is an inexpensive way of overcoming the capacity limits of optical fiber cables at the existing CWDM broadband service operations, and I must add that over ten thousand units of 2WL SFPs had been sold to the largest wireless service provider in Korea."

Swaging wire rope

Stainelec Hydraulic Equipment has introduced the ARM HS-12 cordless hydraulic swager designed to swage wire rope material for factory and on-site operations.

Designed and manufactured in Japan, ARM HS-12 cordless hydraulic swagers feature a compact, lightweight design allowing the unit to be easily moved around the worksite or factory. Powered by a reliable 18-volt battery motor and weighing 6.5kg, the HS-12 can be used in restricted or elevated working positions.

The ARM HS-12 cordless hydraulic swagers feature oval swaging sleeves, to enclose the ends of steel wire rope and cable for various rigging and support applications. The swagers can handle high tensile wire rope of 6mm to 12mm diameter, and have a swaging capacity of 6mm, 8mm, 9mm, 10mm and 12mm diameter.



ALL the publicity you can get...

Send us the details and a photograph for our new Products, Machines & Technology section in wiredInUSA.

To make sure your editorial is published in the May edition, send us the details by **24th April**.

All editorial should be sent to editor David Bell at david@wiredinusa.com

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LEADING MAGAZINES
 for the wire and cable industries

ABB	22, 28	Malawi Telecommunications	36
Advaris Informationssysteme	42	Megger	75
AIM Inc	42	Metro Wire and Cable	20
Amphenol Industrial Products Group	75	MFL Group	57
ArcelorMittal Montreal	22	Mitsubishi Electric Corporation	35
Bekaert / Bekaert Rope Group / Matco Cables SpA	29	Mitsubishi Heavy Industries	35
Blachford	42	MOHR Test and Measurement LLC	73
Bow Technology	43	Molex Incorporated	16
Caballé SA	43	Nano Diamond America Inc	58
Cable Services & Systems	44	NDC Technologies	58
Candor	26, 44	Niehoff	59
Carlisle Interconnect Technologies	12	Nexans / Bombardier Transportation	27
Cemanco	44	Norvento	29
Cicoil	75	Numalliance	61
Cimteq Ltd	45	OFS/ Sviazstroy-1	27
Clifford Welding Systems	46	Pasternack	73
Clinton Instrument Company	46	Pourtier of America	61
Commission Brokers	47	Prysmian Group	28
Condat	47	PWM Ltd	62
Daloo	48	Queins Machines GmbH	62
DEM Costruzioni Speciali Sr	48	RadCon	63
Die Quip	49	The Raptor Protection of Slovakia (RPS)	27
Dominion Virginia Power / Philip Morris USA	9	Refractron	64
DSR Wire Corporation	76	Renewable Energy Systems Americas (RES Americas)	14
Messe Dusseldorf GmBh	50	Setic of America	64
Dynamex Corporation	50	Shanghai Jiajie Technology Co Ltd	62
Eastern Oregon Telecom (EOT)	19	Shymkent	38
Fluoropolymer Resources LLC (FRL)	21	Sikora	65
Frost & Sullivan	33	Simpacks	66
Gabarró SA	51	Sirio Wire Srl	67
Gauder Group Inc	51	SkyPower Global / International Gulf Development (IGD)	34
Gavlick Machinery Corporation	52	SolarCity	72
Gem Gravure	52	Southern Light	17
Grupo Simec SAB de CV	22	Stainelec Hydraulic Equipment	77
Guill Tool & Engineering Co Inc	52	Sumgait Technology Park (STP)	34
Helukabel	74	SunEdison Inc	10
IBA Group	53	TE Connectivity	72
Innovites	54	Tecknikor	67
Inosym	55	TPC Wire & Cable Corp	71
The international copper association of India (ICA)	36	Tulsa Power	67, 71
IWMA	30	Ultimate Automation Ltd	68
Keir Manufacturing	55	Windak Group	68
Lämneå Bruk AB	55	Wire Mesh Corporation	18
LaserLinc Inc	56	World Wire and Cable conference	26
Maillefer Extrusion OY	56	Zumbach Electronic AG	69

Cersa Mci	7
Clinton Instrument Company	17
EuroWire magazine / WCA magazine	77
Gem Gravure	13
Ideal Welding Systems	15
Inhol BV / Melos	23
Messe Düsseldorf	2
NDC Technologies	8
Ultimate Automation Ltd	19
WAI (Interwire)	21
Zumbach	11

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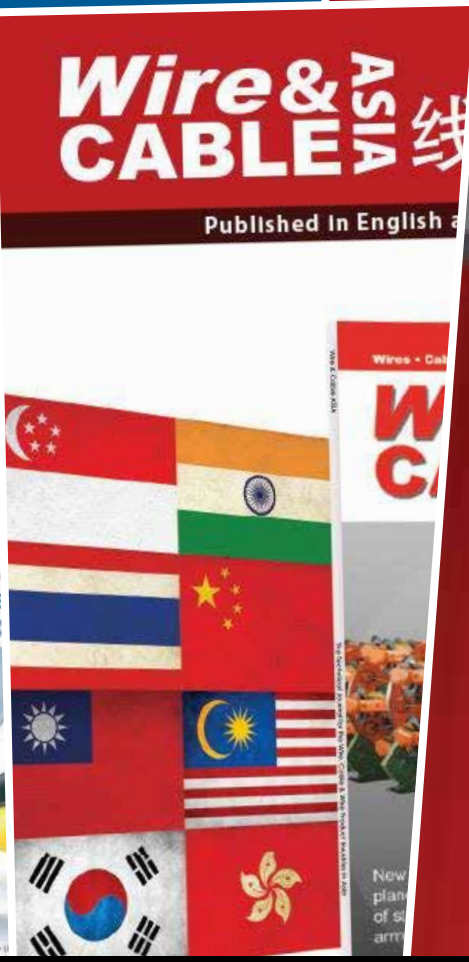
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