



Cable & Connectivity Industry Forum™

by **IWCS**

OCTOBER 14–17, 2024 | PROVIDENCE, RHODE ISLAND, USA

#IWCS2024

Event Program, Schedule,
& Exhibitor Directory

IWCS.ORG

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INTRODUCTION

Thank you for making plans to join us at the 2024 IWCS Cable & Connectivity Industry Forum! This is the 73rd annual IWCS Conference, which is a testament to the value that we continue to bring to you and your international cable and connectivity industry colleagues. The vitality of IWCS is demonstrated through the strong industry support from our annual sponsors, exhibitors, speakers, and attendees. The IWCS Forum continues to be the premier event for new technologies in cable and connectivity products, processes, and applications thanks to the rich Technical Symposium content contributed by industry professionals and academics from around the world.

We are pleased to offer several enhancements at this year's event. Be sure to familiarize yourself with the revamped schedule shown on pages 22–23. Popular elements have been moved to day one of the program—from what historically have taken place on day two. This includes the Plenary Session Luncheon, Welcome Reception, and the first three technical sessions. The core Professional Development Courses remain on day one (Monday), while the more advanced elective courses have been moved to day two (Tuesday). Additionally, lunch concessions are available in the Innovation Annex, adjacent to the Exhibition Hall during lunch hours on the Supplier Exhibition days (Tuesday and Wednesday). Grab lunch while you network with suppliers and colleagues!

The schedule was revised to allow more time to discuss important topics at the event. New this year, we present a full-day breakout program on Wednesday: “Navigating the Energy Transition: Smart Grid and Broadband Connectivity” plus an industry innovation session on Thursday: “Advancements in Sustainability & Recycling”. Complementing the Technical Symposium content, these new event components dedicate time to important dialogue surrounding trends, challenges, and opportunities currently facing the industry. The new elements include several panel discussions with time for the audience to engage with panelists during a Q&A segment.

Don't miss a thing! Be sure to use the attendee portal to quickly access event information such as the most up-to-date Program, event schedule, Supplier Exhibition™ floor plan, Technical Symposium papers, and more. Want to view a Technical Paper or speaker bio? Full-Access attendees are encouraged to use the event portal for a searchable database of Technical Papers and access the Proceedings*, an e-book which contains all of the Technical Papers and Forum presentation content.

Our most important goal is to meet all of your expectations for a valuable learning and networking experience. We hope you enjoy the IWCS Cable & Connectivity Industry Forum!

** The IWCS Proceedings are available in a digital format that is available to registered full-access attendees.*

SKIP THE LINES – REGISTER BEFORE YOU ARRIVE!

Join industry-leading wire and cable suppliers, manufacturers, and end-users to experience critical innovations and developments affecting the global cable and connectivity industry. Plus, you don't want to miss the valuable in-person networking that the IWCS Forum offers!

[Register at iwcs.org/register](https://iwcs.org/register)

“The forum was well organized and provided a great opportunity to learn the state of the art for both copper and fiber cables. I enjoyed the networking opportunities, and the length of presentations was just right.”

- Matthew O., Daikin America

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**Wire & Cable
Technology**
International

Wire & Cable Technology International (WCTI) magazine is the official media partner of IWCS. IWCS appreciates WCTI's support organizing the advertisements and exhibitor descriptions that are included in this program. Visit wiretech.com to subscribe to Wire & Cable Technology International magazine.

SAVE THE DATES FOR THE 2025 IWCS FORUM

Monday, October 27 – Thursday, October 30, 2025 | Pittsburgh, PA, USA

[Refer to details on page 14.](#)

ON-SITE REGISTRATION SCHEDULE

Registration will be held on the 5th floor of the Rhode Island Convention Center during the following hours. All conference attendees must register and obtain a badge. Badges must be worn at all times. Dress code is business casual.

Sunday	October 13, 2024	3:00 PM – 6:00 PM
Monday	October 14, 2024	7:30 AM – 6:00 PM
Tuesday	October 15, 2024	7:30 AM – 5:00 PM
Wednesday	October 16, 2024	7:30 AM – 5:00 PM
Thursday	October 17, 2024	7:30 AM – 2:00 PM

TECHNICAL SYMPOSIUM | *Full-Access registration required*



Your IWCS Symposium Committee has generated an extremely high-caliber program for the IWCS Technical Symposium, the cornerstone of the Cable & Connectivity Industry Forum. The Symposium allows attendees to experience previously unpublished Technical Papers featuring research and development for cabling and connector / interconnect technologies, designs, components, materials, fabrication, performance, testing and applications.

The Technical Program begins on Monday, October 14th with Sessions running simultaneously through Thursday, October 17th. **See pages 15-20 for details.**

PLENARY LUNCHEON WITH KEYNOTE | *Full-Access registration required*



Taking place during lunch on Monday, the Plenary Keynote presentation promises to be a highlight of the 2024 Forum. IWCS energetically welcomes Dr. Massoud Amin, fellow of the IEEE and ASME, and a pioneer in smart grid technologies. Dr. Amin's presentation titled, "The Convergence of Energy and Data: Powering and Connecting the Grid of the Future" will offer thought-provoking insights on technological advancements that are fundamental to

our social and professional lives. During the Plenary Luncheon, we will also recognize the best papers and presenters from last year's event. **Please note:** as a result of the revamped event schedule, the Plenary Session now takes place on the first day of the event – Monday, October 14. **See pages 8-9 for details.**

"AN EERIE EVENING" WELCOME RECEPTION | *Full-Access or Supplier Exhibition™ + Reception registration required*



Day one concludes with "an Eerie Evening" welcome reception. Join us in the Rotunda for an unforgettable Edgar Allan "PoE" themed reception, which is a great conclusion to the Power Over Ethernet (PoE) topic presented during Technical Session 2 earlier in the day. Enjoy drinks, entertainment, and light hors d'oeuvres while networking with colleagues from around the world. **Please note:** as a result of the revamped event schedule, the Reception now takes place on the

first day of the event – Monday, October 14.

PROFESSIONAL DEVELOPMENT COURSES | *Professional Development Course registration required*



IWCS is offering the annual core Professional Development Courses of Copper 101, Fiber 101, Materials 101 and Extrusion 101 as well as special elective courses. Instructed by renowned industry experts, these courses provide introductory topical information and are geared towards engineers, scientists, and other professionals who are new to the industry, or those who seek a refresher. The "core" courses will commence on Monday morning with four concurrent courses in the morning. The "elective" courses take place on Tuesday morning. Discounted fees are available for attendees who choose to participate in two courses – one "core" course and one "elective" course. **Please note:** "Full-Access" registration must be purchased separately to access the Technical Symposium sessions. **See pages 10-11 for details.**

EXECUTIVE SESSION | *Full-Access registration required*



The Executive Session is designed for the general management of the cable & connectivity industry supply chain companies. Important issues and economic trends facing the industry in these uncertain times will be addressed by expert speakers. You will not want to miss this provocative and insightful session happening Tuesday morning. **See page 12 for details.**

SUPPLIER EXHIBITION™ | *Full-Access or Supplier Exhibition™ Only registration required*



The IWCS Supplier Exhibition™ includes more than 80 exhibitors displaying cutting-edge products and services. Visit the exhibition to experience a wide variety of product technologies, user applications, and network with suppliers and attendees from around the world. Don't miss the special Supplier Spotlight Presentations which provide additional opportunities to learn about the latest product innovations and services from the suppliers of

our industry. **See pages 26-28 for details.**

New Breakout Program! "NAVIGATING THE ENERGY TRANSITION: SMART GRID & BROADBAND CONNECTIVITY"

Full-Access registration required



New this year, IWCS is excited to host a breakout program that fosters discussion on broad trends critical to global connectivity. Taking place on Wednesday, the "Navigating the Energy Transition: Smart Grid and Broadband Connectivity" program will feature presentations and multiple panel discussions. **See page 13 for details.**

RHODE ISLAND CONVENTION CENTER MAP

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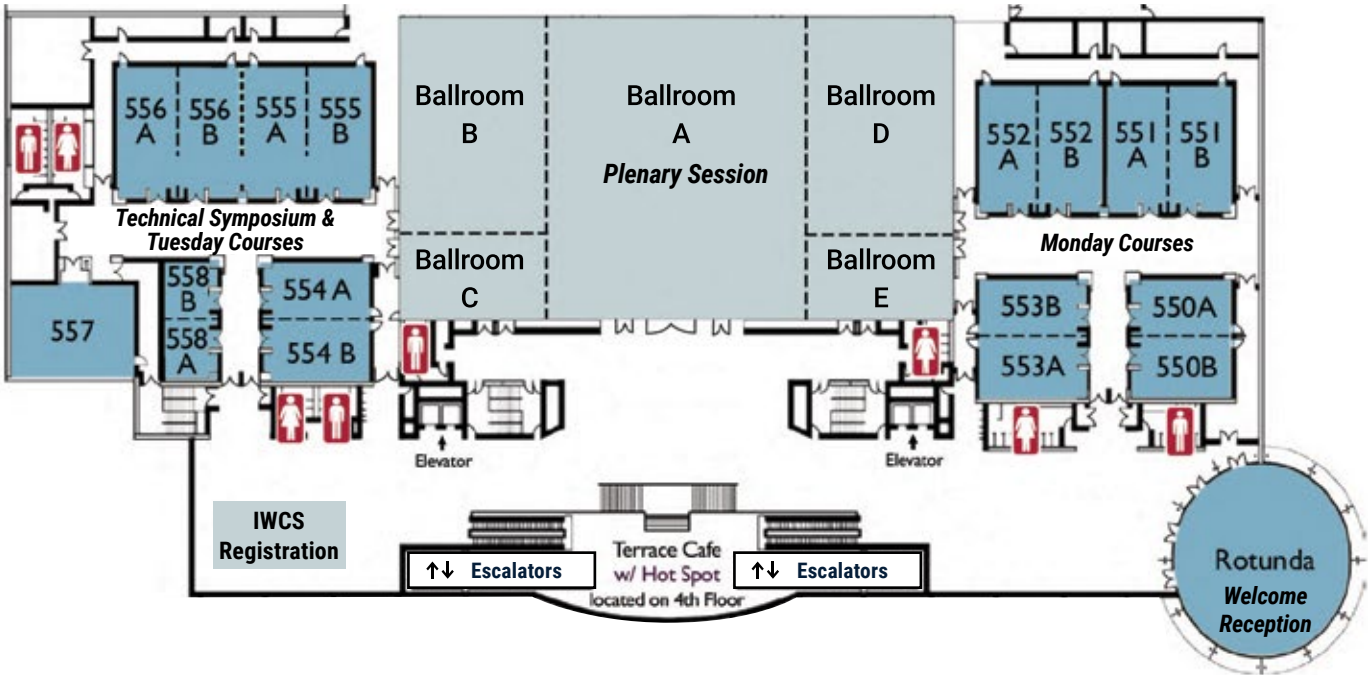
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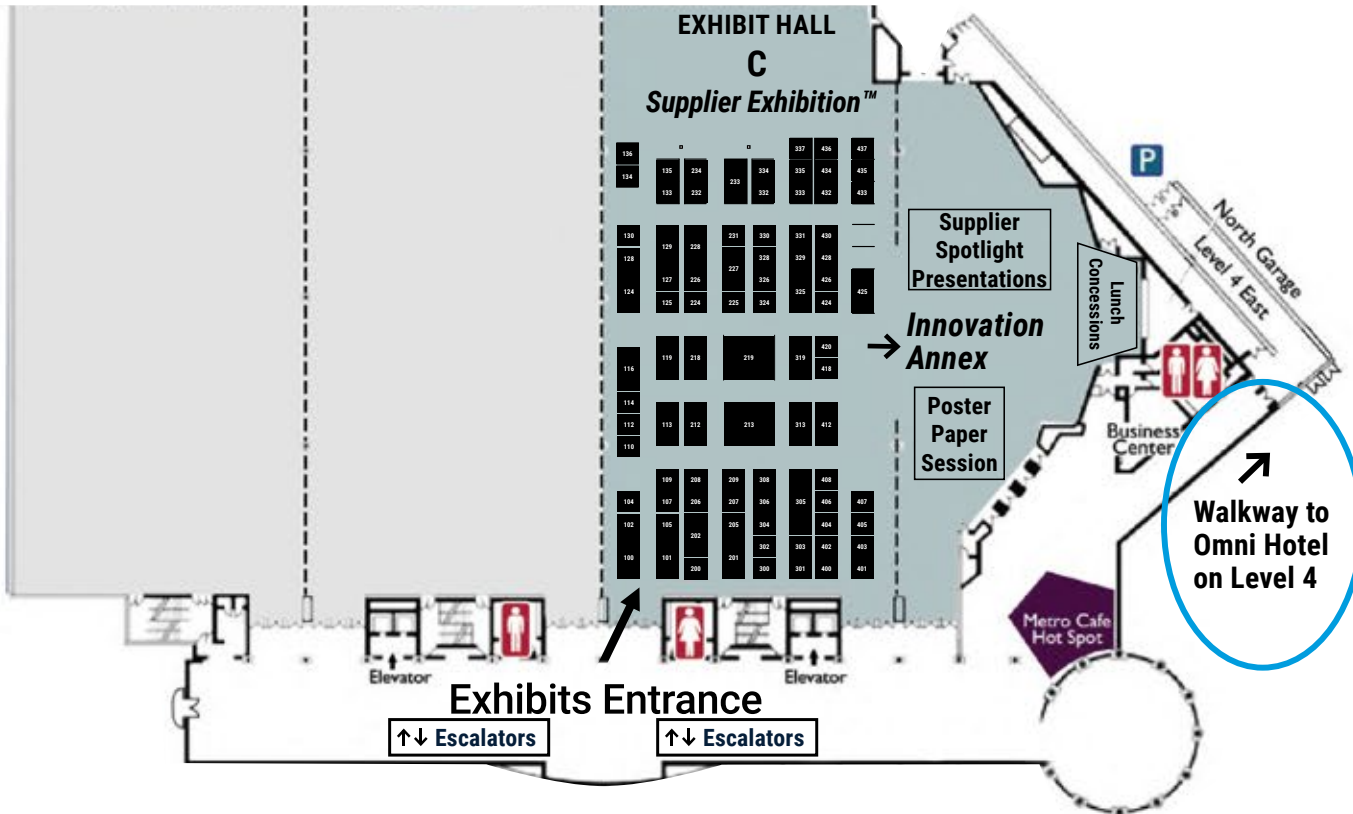
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5TH FLOOR (where most of the IWCS Forum takes place)



3RD FLOOR (Supplier Exhibition™)



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Review options at: www.iwcs.org/become-a-sponsor or contact IWCS MarCom Manager Becky Dippel at rdippel@iwcs.org.

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Monday, 12:45 – 2:30 PM

Ballroom A

Greetings & Announcements



David B. Kiddoo
CEO/Director
IWCS, Inc.



Dr. Scott H. Wasserman
Chairman of the Board
Dow



Mike Gurreri
2024 Committee Chair
CommScope, Inc.

2023 Awards & Recognition

Jack Spergel Memorial Award for Outstanding 2023 Technical Paper

"Multicore Fiber for Space-Constrained, High Bandwidth Density Applications"

Dan Neugroschl, Chiral Photonics, USA

Kitts-Kingsley Award for Best 2023 Presentation

"Channel Performance Degradation from Installation Stresses"

Michael Dodds, Leviton, USA

Award for Outstanding 2023 Poster Paper

"UV Protection and Lightfastness of Outdoor Cables"

Brita Kunze, Delta Tecnic, Spain

Honoring Retiring IWCS Committee Member



Xavier Mann
Superior Essex

THE CONVERGENCE OF ENERGY AND DATA: POWERING & CONNECTING THE GRID OF THE FUTURE

Dr. Massoud Amin, *Chairman, President, and Chief Executive Officer, Energy Policy & Security (EPS) Associates*

As our world becomes increasingly connected, the convergence of energy and broadband infrastructure is crucial. The International Energy Agency (IEA) projects global electricity demand to grow by 2.7% annually through 2040, driven by digitalization and electrification. At the same time, 3.7 billion people lack internet access, according to the International Telecommunications Union.

This keynote will address how we can meet the dual challenges of expanding reliable power and broadband access. We'll explore successful case studies, such as South Korea's Smart Grid initiative and Denmark's advanced metering infrastructure, which integrate energy and data to enhance efficiency and connectivity.

Regulatory frameworks must evolve to support this convergence. The U.S. grid, for example, requires an estimated \$4.5 trillion beginning in 2025 for modernization, as noted by the American Society of Civil Engineers (ASCE). This investment must balance affordability, security, and technological advancement.

The grid of the future demands that we start preparing today. This talk will offer actionable insights for integrating energy and data networks, towards ensuring both are reliable, secure, and accessible to all.



Dr. Massoud Amin, Fellow of the IEEE and ASME, is a pioneer in smart grid technologies and a leader in cyber-physical security. He serves as Chairman and President of Energy Policy and Security Associates (EPS Associates) and is an Emeritus Professor, Director and endowed chair at the University of Minnesota. Before joining the University of Minnesota, Dr. Amin was with the Electric Power Research Institute (EPRI) in Palo Alto, California, serving as Area Manager of Infrastructure Security, Grid Operations/Planning, and Energy Markets. Widely recognized as the "father of the smart grid," Dr. Amin spearheaded the development of 24 technologies that were successfully transferred to industry and led security-related R&D for all North American utilities following the 9/11 attacks, earning the 2002 President's Award for the Infrastructure Security Initiative and two Chauncey Awards, the highest honor at EPRI. He led research, development, and deployment of smart grids, and the enhancement of critical infrastructures' security.

Before his leadership role for North American power system security, Dr. Amin conceived of and led a large-scale, ambitious effort that was jointly funded by the U.S. Department of Defense (DoD) and the Electric Power Research Institute, called the EPRI/DoD Complex Interactive Networks/Systems Initiative (CIN/SI). This was a \$30 million, 5-year program that supported over 108 professors, 240 graduate students and post-docs in 25+ of the top universities and other organizations in the country. It led to concepts that are now part of smart grid developments.

Dr. Amin's professional contributions focus on three key areas: defense networks, combat, and logistics systems (Command, Control, Communications, Computers, and Intelligence—C4I);

modernization, efficiency, security, and resilience of interdependent national critical infrastructures including power, energy, communications, finance, and transportation; and strategic foresight in technology, business, and policy. His expertise has been sought by military, government, academia, and industry for his work in infrastructure security, reconfigurable and self-repairing controls, risk-based decision-making, system optimization, and differential game theory applied to aerospace, energy, and transportation systems.

Dr. Amin served as Chairman Emeritus of the IEEE Smart Grid (2014-18) and was the founding Chairman of the IEEE Smart Grid Newsletter and Publications (2010-14). He has held significant positions on the boards of the Texas Reliability Entity and the Midwest Reliability Organization (MRO), overseeing reliability and security in regional utility entities. He also served on the Board on Infrastructure and the Constructed Environment (BICE) at the U.S. National Academy of Engineering (2001-07) and the Board on Mathematical Sciences and Applications (BMSA) at the National Academy of Sciences (2006-09).

In addition to his work at EPS Associates, Dr. Amin is the CTO of Renewable Energy Partners (REP), a Minneapolis-based company dedicated to advancing economic opportunity and environmental justice through clean energy projects and workforce training. As CTO, he leads the technical strategy, overseeing the design and integration of solar, renewable energy, and sustainable technologies. REP is one of Minnesota's only Black-owned solar developers, focusing on empowering underserved communities by providing access to health, wealth, and homeownership through renewable energy.

Dr. Amin continues to drive innovation and leadership at the intersection of energy systems and digital technologies, with a passion for developing leaders and powering progress.

PROFESSIONAL DEVELOPMENT COURSES (100-LEVEL CORE)

Monday, 8:30 AM – 12:30 PM | Rooms 550, 551, 552, and 553

MA101: SELECTION & USE OF MATERIALS

INSTRUCTORS:

Dr. Paul Brigandi, *Application Development Leader*;
Manesh Sekharan, *Senior Research Scientist*; **Yixuan Song**, *Associate TS&D Scientist - Dow, USA*

In this course, the selection and implementation of polymer materials used in the construction of wires and cables will be reviewed. The course will focus on polymer materials utilized in telecommunication cable applications with focus on twisted pair, coaxial, and fiber optic cables. An overview of the materials science essential to the polymer properties and additives employed in cable compounds will be covered to level-set all attendees. Further, the fundamental characteristics (advantages and disadvantages) of materials will be presented which can be then considered in selecting a material for use in a finished cable construction, with specific sections covering jackets, insulations and fiber optic materials. In addition, the effect of additives on material performance will also be discussed, particularly those that impart ultraviolet resistant and flame retardant properties on the materials.

FO101: FUNDAMENTALS OF OPTICAL FIBERS & FO CABLE DESIGN & APPLICATION

INSTRUCTOR:

Mario Tooley - *Corning Optical Communications, USA*

This course will explore several aspects of optical fiber and cable design technology with particular focus on products for communications. It will discuss application considerations to select a product appropriate for a given installation environment and the basic considerations necessary for successful design of optical fiber cables.

The first part of this course will outline the characteristics and fundamental operating principles of optical fibers and the key differences between Single-Mode and Multimode optical fibers. Included will be critical fiber parameters and their impact on system performance. Specific topics will include the Advantages of Optical Fiber, Optical Fiber Manufacturing, Total Internal Reflection, Attenuation, Dispersion, Polarization Mode Dispersion (PMD), Cutoff Wavelength and other optical parameters critical to optical communications.

The second part of this course will explore the functional requirements of optical fiber cables and some of the fundamental design equations which can be used to ensure a cable will meet a given installation or operational requirement. We will also discuss selection of a product appropriate for a given installation environment. Structural differences between cables for indoor, outdoor, and specialty applications will be explored including stranded loose tube cables, central and stranded tube ribbon cables, tight buffered cables and optical power ground wire cables.

EX101: THE ART AND SCIENCE OF EXTRUSION MACHINERY FOR WIRE AND CABLE

INSTRUCTOR:

Dr. Stéphan Puissant, *Assistant Professor in Polymer Processing*; *InSIC, France*; *Consultant*

The complete extrusion process is complex and involves a lot of machines having each a different function. The heart of the process is extrusion. This course focuses on the extrusion group, i.e. extruder and cross head (distributor and tooling).

The single screw extruder seems to be a very simple machine. However, the extrusion process is complex as it is governed by interacting laws from different mechanical engineering fields i.e., thermodynamics, flow mechanics, properties of solid and molten polymers etc. Therefore, in a first step, the physical characteristics (viscosity, conductivity, melting) of polymers used in extrusion are presented. These properties will be the keys to understand the functioning of the thermoplastics extrusion process.

The material basis being covered, the focus will shift on the functioning of the single screw extruder. There the 3 functional zones of the extruder are introduced. For each zone, we will see its functioning in relation to material properties. This mechanism having been described, we will obtain some hints of the optimal screw designs (for some broader plastic families!), so as solutions which may be used to solve problematic issues.

After being plastified (molten), the polymer is given its final shape by some extrusion head. In this part, the basics of distributor design according to the materials are presented. After discussing the effects of distributor geometries, we will also compare different tool designs.

For each of the different items (extruder, X-head, even cooling) covered in the course, we will try to give some practical hints in addition to a more theoretical approach.

CU101: FUNDAMENTALS OF COPPER CONDUCTORS & METALLIC CABLE DESIGN & APPLICATIONS

INSTRUCTORS:

Trent Hayes, *Engineering Director*; **Jason Huffman**, *Senior Director of Broadband Cable R&D - CommScope, Inc., USA*

An introduction to the design and application of copper conductor communications cables. Students will understand how coaxial, twisted pair and twin axial cables are designed and how they operate upon completing the class. This course provides background material on the history of copper cabling followed by sections on applications, design and construction of cables. Current standards and design examples are also reviewed by the instructors. Materials that are typically used in copper conductor communication cables will be incorporated at a fairly high level into the design exercises.

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PROFESSIONAL DEVELOPMENT COURSES (200-LEVEL ELECTIVE)

Tuesday, 8:30 AM – 12:30 PM | Rooms 554, 555, and 556

MA211: BASICS OF FLUOROPOLYMERS AND THEIR USE IN VARIOUS CABLE APPLICATIONS

Dr. Bianca Hydutsky, Senior Technology Manager; **Fred Johnston**, Senior Scientist; **Robert Young**, Technical Fellow - The Chemours Company, USA

In this course, the selection and implementation of polymer materials used in the construction of wires and cables will be reviewed. The course will focus on polymer materials utilized in telecommunication cable applications with focus on twisted pair, coaxial, and fiber optic cables. An overview of the materials science essential to the polymer properties and additives employed in cable compounds will be covered to level-set all attendees. Further, the fundamental characteristics (advantages and disadvantages) of materials will be presented which can be then considered in selecting a material for use in a finished cable construction, with specific sections covering jackets, insulations and fiber optic

F0212: ADVANCES IN OPTICAL FIBERS AND THEIR APPLICATIONS

Dr. Scott Bickham, Development Fellow - Corning Optical Communications, USA

Low-loss optical fibers were first fabricated over fifty years ago, and many types of fibers have been developed in conjunction with transceiver technology to enable deliver an ever-increasing amount of bandwidth over longer distances. This course will summarize some of the key developments in optical fiber technology that have enabled high-capacity data transmission in applications ranging from data centers to fiber-to-the-X to undersea communication systems. After presenting a brief refresher on the basic properties of optical waveguides, the course will discuss some of the key attributes of single-mode fibers, including attenuation mechanisms and the tradeoff between cutoff wavelength, bend loss and mode field diameter. The second section of the course will focus on multimode fibers and how the designs have evolved to deliver high modal bandwidth in conjunction with low macrobend loss to enable significant reductions in the sizes of the cables, hardware and equipment that are deployed in data centers. The course will conclude with an overview of the types of fibers that are being considered for co-packaged optics and other applications which will require high bandwidth density.

F0215: UNDERSTANDING OPTICAL FIBER COATINGS

Dr. Eric Urruti, Head of R&D, Coating & Adhesives, and Head of R&D Fiber Optic Materials & UV - Covestro, USA

Coatings are an integral part of an optical fiber. Understanding the capabilities of the chemistry as well as the physical properties is important to understanding the manufacturing of the fiber and cable, as well as the field performance. This course will discuss the fundamentals of the most commonly used technology, UV-cured acrylates. The first section will focus on the basic chemistry required, including photochemistry, and key components such as photoinitiators and sensitizers. The second part will discuss the components of typical coatings, and their specific functions in coating. The third section will focus on physical properties, how they are determined and their significance to performance. This will include discussion on microbending and how coatings are integral to protecting the fiber from external perturbations, strip force and pullout force and their significance, as well as temperature cycling. Finally we will discuss some specialty coatings with a focus on low index as well as high temperatures.



Please be sure to register for the specific course(s) you wish to attend. Advanced online registration is recommended but you may also inquire about available seats when you arrive for on-site registration/badge pick-up. The “core” courses commence on Monday morning with four concurrent courses in the morning. The “elective” courses take place on Tuesday morning. Discounted fees are available for attendees who choose to participate in two courses – one “core” course and one “elective” course.

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Optical Cable Demand Recovery – When?



Natalie Noor-Drugan, CRU

Natalie Noor-Drugan is a Principal Analyst at CRU's London headquarters. She works across the full portfolio of products analysing key trends and developments in both the metallic wire and cable, and optical fibre industries.

Will there be growth in global optical cable markets this year and what about the mid and longer term? This presentation will address optical cable outlook for Asia, Europe, Latin America, and North America. In North America, FTTH deployment and Generative AI provide bright spots for the US's future, while BEAD implementation is progressing, but some operators have lost faith in the program's timeline.

Metallic Wire and Cable: Cable Demand for Electrification is Strong, Though Not Without Risk



Aisling Hubert, CRU

Aisling is the editor of CRU's Wire & Cable Market Outlook as well as Electricity Transmission Market Outlook. Her work involves analysing trends and developments across the global metallic wire and cable industry, accounting for the metal demand of the global energy, infrastructure and manufacturing sectors.

Cable demand for energy and electrification has surged in recent years as nations prioritize their energy infrastructure in an increasingly electrified world. The demand for renewable energy, transmission and distribution systems, and motors and transformers has been incredibly strong, with emerging applications such as data centers further driving growth. At the same time, new risks have arisen as nations navigate high-interest rate environments, increased geopolitical uncertainty, and fallout from the COVID-19 pandemic. Amid these forces, cables have emerged as key strategic technologies, enabling global electrification while being exposed to the challenges posed by trade policies, national investment trends, and commodity price volatility.

Global Transition in Copper Grid Supply and Deployment



John Gross, Commodity Analyst & Publisher, Copper Journal

John is President of J.E. Gross Consulting Inc. a metals management and consultancy firm established in 1987 to assist companies in their procurement of metals, scrap recycling, and price risk management.

Over the past few years, expectations of the 'Green Energy' transition have prompted analysts to forecast significant deficits in the global market for many years to come. Predictions of copper demand doubling and surpassing supply in the near term have also led to projections of record-high prices as a result of the shortfall. While Spot Copper on Comex rose to a record high price of \$5.12 in May in response to forecasts of massive deficits, the gain was short-lived, however, as it was driven more by speculative influences rather than the fundamentals. Today, while demand is expected to continue growing, the optimistic outlook has been tempered by China's slowing economy and the impact that may have on the global market.

Global Economic Outlook



Robert Fry, Chief Economist, Robert Fry Economics

Robert analyzes and forecasts the global economy to guide business decision-makers. He publishes a monthly newsletter, "Current Economic Conditions", and speaks on the economic outlook to corporate leadership teams, customer events, and trade association meetings. In 2018, Robert was elected a Fellow of the National Association for Business Economics, in recognition of his outstanding service as a professional business economist and his contributions to the field of business economics.

Robert Fry will discuss current conditions in the global economy and the outlook for future growth, with emphasis on U.S. manufacturing and on markets important to the wire and cable industry. In particular, he will discuss why the most anticipated recession in U.S. history hasn't materialized (yet). Among the topics covered will be growth in GDP and industrial production, including wire & cable production, housing starts, light vehicle sales, inflation, and interest rates.

Tackling Broadband Deployment: BEAD, BABA and Supply Chain Demands



Kate Fegley-Lumms, Marketing Project & Partner Manager, Superior Essex

For the past two years of Kate Fegley-Lumms has served as a Strategic Partnerships and Marketing Strategist at Superior Essex Communications. Kate brings a wealth of experience and strategic insight to her current role as Marketing Project & Partner Manager. In her current capacity at Superior Essex Communications, Kate manages strategic partnerships, collaborating on marketing initiatives and tracking BEAD.

Take a deep dive into Broadband Equity Access & Deployment (BEAD) and the Build America, Buy America (BABA) Acts. This once in a generation initiative aims to enhance broadband access in unserved and underserved communities while ensuring the use of domestically produced materials for federally funded projects.

NAVIGATING THE ENERGY TRANSITION: SMART GRID & BROADBAND CONNECTIVITY

Wednesday, 8:30 AM – 4:25 PM | Ballroom B

New this year, IWCS is excited to host the first, of what we hope to continue in future years, full-day breakout program that fosters discussion on broad trends critical to power and global connectivity. Taking place on Wednesday, the “Navigating the Energy Transition: Smart Grid and Broadband Connectivity” program will feature presentations plus the following panel discussions from utility providers, policymakers, and innovators of power and communication cables.

5G / Smart Grid Network – Present and Future Deployment Tactics and Policies



Our modern era demands an unprecedented level of connectivity and electrification. From smart cars, to smart cities, to smart healthcare—the list goes on and on. What hurdles must we overcome to deliver reliable energy and communication networks for everyone and everything—in rural, urban, and all areas in between? What impact does government investment and legislative policy, including the Broadband Equity Access and Deployment (BEAD) program, have on the supply chain, utility and telecommunications providers, and, ultimately, communities?

The Latest Innovations Affecting Power and Communications Cables



To keep up with data center and power demand like we’ve never seen before, cable manufacturers are faced with the challenge to produce products that meet a multitude of functions, rather than via the traditional split of low-, medium-, and high-voltage cables. How will cabling infrastructure and other multi-technology systems operate together to enable the grid of the future? How have manufacturers shown their commitments and capital expenditures to meet project requirements such as the Build America, Buy America Act (BABA)?

Supply Chain – Impact and Effects of the Future Energy Grid



What impact does the alternate energy and smart grid of the future have on materials such as copper, aluminum, and fiber? Join us to learn how evolving infrastructure is affecting the demand and procurement process for these materials.

Critical Updates on Utility Infrastructure and Smart Grid Reliability & Resilience



The United States has an aging electricity grid with many of its systems being 25 years or older. Let’s discuss policies and infrastructure solutions critical to modernizing and creating a more reliable and efficient grid. How are utilities leveraging artificial intelligence (AI) to automate systems and deliver power more efficiently? What challenges are presented by the introduction of AI on network infrastructure?

ENVIRONMENTAL SUSTAINABILITY AND RECYCLING FOR THE CABLE & CONNECTIVITY INDUSTRY

Thursday, 8:30 AM – 11:45 AM | Ballroom B

Directly following Technical Paper presentations in Session 10: “Cable Sustainability and Recycling”, this panel discussion focuses on meeting vital sustainable goals through collaborative initiatives and industry partnerships, the selection of materials, and innovative product designs. A diverse panel includes perspectives from chemical and material suppliers, industry associations, and cable manufacturers. Panelists and presenters will discuss:

- Introduction of the Sustainable Optical Fiber Industry Alliance (SOFIA)
- Performance and Safety Considerations of Sustainable Materials
- Transparency of Products and Processes
- Responsible Manufacturing Practices (such as raw material procurement, emissions monitoring, and eligibility of products for energy credits)
- Recycling Initiatives Driving Supply Chain Circularity



Cable & Connectivity Industry Forum™

by IWCS

Save the Dates for IWCS 2025

Monday, October 27 – Thursday, October 30, 2025 Pittsburgh, PA, USA



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SUBMIT A TECHNICAL RESEARCH PAPER

If your work is of interest to the cable and connectivity industry, you should submit a Technical Paper Abstract. **Refer your colleagues!**

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View suggested topics and submission requirements at:

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PLENARY SESSION LUNCHEON: Keynote & Awards

Room: Ballroom A

Monday, October 14, 12:45 – 2:30 PM

Taking place during lunch on Monday, the Plenary Keynote presentation, “The Convergence of Energy and Data: Powering and Connecting the Grid of the Future” by Dr. Massoud Amin, the “Father of the Smart Grid” promises to be a highlight of the 2024 Forum.

[View details on page 9](#)

Session 1: CODES AND STANDARDS

Sponsored by: UL Solutions

Chairperson: Dmitriy Bodik, UL Solutions, USA

Room: 550

Monday, October 14, 2:45 – 5:15 PM

1-1 (2:45) Maximizing Production Efficiency: The Crucial Role of Coding and Marking Expertise in the Cable Market; Jeff Leaznby, LEIBINGER, USA

1-2 (3:10) Optimizing Fire Safety Assessments: the Transition from LOI To HRR; Thomas Schelling, Huber Advanced Materials, USA

1-3 (3:35) The Benefits of Serialized, Scannable Labels for Cabling; Thomas Knychalski, Legrand, USA

1-4 (4:00) Update on Revisions to UL's Certification Documents; Paul Knapp, UL Solutions, USA

1-5 (4:25) FRNC Materials Degradation Study - Accelerated Aging Laboratory Tests vs Natural Weathering in Different Climatic Zones; Klaudia Wiśniewska, Corning Optical Communications, Poland

1-6 (4:50) Single Pair Ethernet for Building Automation; David Hess, Cord Data, Switzerland

Session 2: DESIGN, TESTING, AND APPLICATION FOR COPPER ETHERNET, POE, AND ENERGY CABLES

Chairperson: Ed Fenton; Senior Key Executive, Daikin America; Executive Director, Wire and Cable Manufacturers Alliance (WCMA), USA

Room: Ballroom B

Room: 552

Monday, October 14, 2:45 – 4:50 PM

2-1 (2:45) Modeling of Twisted Pair Cable and Insulation Materials for PoE Applications; Juliusz Poltz, OptEM Engineering Inc., Canada

2-2 (3:10) Effect of Clock Frequency and Rise Time in Digital Electricity (DE) Transmission up to 2000m; Solomon Girma, Superior Essex, USA

2-3 (3:35) Single Pair Cable Bandwidth-Length Product; David Hess, Cord Data, USA

2-4 (4:00) Single-Pair Ethernet Cable Data Rate and Reach Simulation; Juliusz Poltz, OptEM Engineering Inc., Canada

2-5 (4:25) Simulation & Measurement of EMC of SPE Connectors & Assemblies; David Hess, bda connectivity GmbH, Germany

Session 3: ADVANCEMENTS IN MICRODUCT CABLE TECHNOLOGY

Chairperson: Jeff Barker; Prysmian, USA

Room: 551

Monday, October 14, 2:45 – 4:25 PM

3-1 (2:45) Ultra High-Density Microduct Cables with Freeform Ribbons and Applications; Shuhei Nakayama, Sumitomo Electric Industries, Ltd, Japan

3-2 (3:10) 864F 200u Flexible Ribbon Cable for 16mm Microduct; Eric Anderson, Prysmian, USA

3-3 (3:35) How Sustainable is Cable Blowing?; Willem Griffioen, Plumettaz S.A., Switzerland

3-4 (4:00) FTTH Indoor Cables: How to Achieve a Comparable Rating of their Jetting Performance; Michael Heinz, Corning, Germany

WELCOME RECEPTION: “An Eerie Evening”

Room: Rotunda (5th Floor of Rhode Island Convention Center)

Monday, October 14, 5:30 – 7:00 PM

[View details on page 5](#)

EXECUTIVE SESSION

Chairperson: Ed Fenton; Senior Key Executive, Daikin America; Executive Director, Wire and Cable Manufacturers Alliance (WCMA), USA

Room: Ballroom B

Tuesday, October 15, 8:30 AM – 12:00 PM

The Executive Session is designed for the general management of the cable & connectivity industry supply chain companies. This year's Executive Session will feature important industry topics such as market trends, economic outlook, industry opportunities, and more.

[View details on page 12](#)

(8:30) Optical Cable Demand Recovery – When?; Natalie Noor-Drugan, CRU

(9:00) Metallic Wire and Cable: Cable Demand for Electrification is Strong, Though Not Without Risk; Aisling Hubert, CRU

(9:30) Global Transition in Copper Grid Supply and Deployment; John Gross, Copper Journal

■ **Coffee & Networking Break (10:00 AM – 10:25 AM)**

(10:25) Global Economic Outlook; Robert Fry, Robert Fry Economics

(11:15) Tackling Broadband Deployment: BEAD, BABA and Supply Chain Demands; Kate Fegley-Lumms, Superior Essex

SUPPLIER SPOTLIGHT SESSION *(continued on Wednesday)*

Chairperson: Jon Mello, Teknor Apex, USA

Room: Innovation Annex in Exhibition Hall C (3rd Floor)

Tuesday, October 15, 1:00 – 4:00 PM

- (1:00) Semi-conductive compounds: product characterization, quality management, and key factors that impact cable processing;** Alphagary, an Orbia Business
- (1:15) Laser marking additives for ETFE, FEP, PFA and other polymers - wire and cable jacketing applications;** AGC Chemicals Americas, Inc.
- (1:30) Digitally Submit Cable Data to UL Solutions Ahead of Full Compliance Testing, Using CableBuilder;** UL Solutions
- (1:45) TBD;** Info-gel
- (2:00) Halogen-Free and Plenum-Rated Materials: Enabling High-Density Fiber Networks;** Teknor Apex
- (2:15) TBD;** M Holland
- (2:30) Runaya Green FRP rods;** Runaya Private Limited
- (2:45) Reinventing MES for Cable Manufacturers: Low-Code Development and IoT for Faster Results;** InnoVites B.V.
- (3:00) Advanced LED Systems for the Curing of Fiber Coatings;** Excelitas Technologies Corp.
- (3:15) Carbon Black and Conductivity in Medium and High Voltage Cables;** Orion
- (3:30) Optical Fiber and Cable Solutions;** Covestro LLC
- (3:45) Durable & Sustainable Aegis Nylons for Wire & Cable and Cable Management;** AdvanSix

POSTER SESSION

Room: Innovation Annex in Exhibition Hall C (3rd Floor)

Tuesday, October 15, 4:00 – 6:00 PM

- **Few-Mode EDFAs in SDM Systems: Modal Gain, Noise Figure and Bit Error Rate Performance;** Hesham Youssef, Telecom Egypt | SubOptic Foundation, Egypt
- **Optical Fiber vs Copper Solutions;** Karla Celada Vazquez, Legrand, USA
- **Structures and Tribological Performance of PEKK Reinforced by Yttria-Stabilized Zirconia Composite Designed for Tribological Application;** Alamin Mohammed, Centre for Advanced Laser Manufacturing (CALM), School of Mechanical Engineering, Shandong University of Technology, China
- **Analysis and Improvement on Optical Fiber Breaking During Optical Cable Manufacturing;** Zhan Langlang, Hengtong Optic-Electric Egypt Co., S.A.E, Egypt
- **Excess Fiber Length Optimization in Polypropylene Round Drop Optical Fiber Cable in Air Blown Application;** Arun Gupta, Sterlite Technologies Ltd, India
- **Application Research of Flexible Optical Fiber Cabling Solution in Communication Room;** Pan Xiukun, Hengtong Optic-Electric Co., Ltd, China

- **Optimization of Shrinkage and Protrusion on Optical Fiber Ribbon Cable;** Bo Feng, Yangtze Optical Fibre and Cable Joint Stock Limited Company | Wuhan University of Technology
- **Research on the Production Process of G.654 Fiber Ribbon Cables;** Junhong Liu, Yangtze Optical Fibre and Cable Joint Stock Limited Company
- **The Influence of the Distribution State of Optical Fibers in Stranded Loose Tube Optical Cables on their Additional Attenuation;** Shi Kang, State Key Laboratory of Optical Fiber and Cable Manufacture Technology, Yangtze Optical Fibre and Cable Joint Stock Limited Company, China
- **Effect of Temperature on Fiber Strain of Optical Cable;** Kesen Yang, State Key Laboratory of Optical Fiber and Cable Manufacture Technology, Yangtze Optical Fibre and Cable Joint Stock Limited Company, China
- **Research and Optimization of Water Penetration Performance on All-Dry Optical Cable;** Bo Feng, Yangtze Optical Fibre and Cable Joint Stock Limited Company | Wuhan University of Technology, China
- **Optical Braid Inspection for Braided and Armored Products;** Patrick Jones, Taymer International, Canada
- **Use of Advance Composite for Fiber Optic cables;** Ronak Sanghvi, Indore Composite Pvt. Ltd.
- **Crosslinked Polyolefins: Opportunities for Fostering Circularity Throughout the Materials Lifecycle;** Alison Shapiro, University of Delaware
- **Selection of Optical Fibre Cable for FTTR Cabling;** Cheng Liu, Fiberhome Telecommunication Technologies Co. Ltd

Wednesday Breakout Program: NAVIGATING THE ENERGY TRANSITION: SMART GRID AND BROADBAND CONNECTIVITY

Room: Ballroom B

Wednesday, October 16, 8:30 AM – 5:00 PM

Experience developments in critical trends affecting the cable industry, such as 5G deployment, smart grid infrastructure, and power demand in this new all-day industry trends breakout session. Presentations and panel discussions will feature utility providers, policymakers, and innovators of power and communication cables.

View additional details on page 13

- (8:35) Middle Mile Networks: The Digital Economy Enabler in Rural America;** Jose Castro, Panduit
- (8:55) Panel Discussion: 5G / Smart Grid Network – Present and Future Deployment Tactics and Policies**
 - **Ben Segura, Technical Lead of Corporate Development,** Google Fiber
 - **Stuart Freiman, Federal Program Officer,** National Telecommunications and Information Administration (NTIA)
 - **Jose Castro, Research Manager,** Panduit
- **Coffee & Networking Break (9:45 AM – 10:10 AM)**
- (10:10) Feasibility Analysis on Fiber Optic and Primary Power Hybrid Cable Concepts;** Jay Herman, Electric Power Research Institute (EPRI)

(10:30) Panel Discussion: The Latest Innovations Affecting Power and Communications Cables

- **Jay Herman**, *Principal Technical Leader - ICT Program*, Electric Power Research Institute (EPRI)
- **Maura Nespoli**, *VP of Sales for Renewable Energy and Sustainable Solutions*, Power Distribution North America, Prysmian
- **Kai Zhou**, *Director of Product Management*, UL Solutions
- **Kate Fegley-Lumms**, *Marketing Project & Partner Manager*, Superior Essex

■ **Lunch Concessions in Exhibition Hall** (11:30 AM – 2:00 PM)

(2:00) Panel Discussion: Supply Chain – Impact and Effects of the Future Energy Grid

- **Natalie Noor-Drugan**, *Principal Analyst – Base Metals*, CRU
- **Aisling Hubert**, *Senior Analyst – Base Metals*, CRU
- **Bessie Williams**, *North America Chief Procurement Officer*, Prysmian
- **John Gross**, *Commodity Analyst & Publisher*, The Copper Journal

■ **Coffee & Networking Break** (3:10 PM – 3:35 PM)

(3:35) Green Valley Underground Power Distribution Case Study; Holly Campbell Joiner, Alabama Power

(3:55) Panel Discussion: Critical Updates on Utility Infrastructure and Smart Grid Reliability & Resilience

- **Dr. Massoud Amin**, *Chairman, President, and Chief Executive Officer*, Energy Policy & Security (EPS) Associates, Chief Technology Officer, Renewable Energy Partners (REP)
- **Holly Campbell Joiner**, *Connectivity Supervisor for Fiber to Distribution Program*, Alabama Power
- **Rashmi Varma**, *CEO*, QuantaWatt

Session 4: MATERIALS AND ADDITIVES - PART 1

Sponsored by: Dow

Chairperson: Thomas Schelling; J.M. Huber Corporation, USA
Room: 554

Wednesday, October 16, 8:30 – 11:00 AM

4-1 (8:30) Numerical Simulation of Extrusion Process: A Powerful Tool to Save Time and Money; Hend Bahloul, MSP (Material Service and Processing), France

4-2 (8:55) The Next Generation Liquid Stabilization Solution for MV & HV XLPE Cables Produced by Direct Peroxide Injection; Jiong Yu, SI Group, USA

4-3 (9:20) Increasing Demand for Crosslinked Halogen Free Flame Retardant Compounds for Solar Application; LeeAnn Chen, Orbia Polymer Solutions - Alphagary, USA

■ **Coffee & Networking Break** (9:45 AM – 10:10 AM)

4-4 (10:10) Study of Plasticizers Migration in EVA-based LSZH Cable Jackets under Damp Heat Aging Conditions; Pan Xiukun, Hengtong Optic-Electric Co., Ltd, China

4-5 (10:35) Study on Effect of Multiple Extrusion Recycling on the Structure and Properties of High-Density Polyethylene; Pan Xiukun, Hengtong Optic-Electric Co., Ltd, China

Session 5: DATA CENTER AND EDGE APPLICATIONS

Chairperson: Eric Whitham; OFS, USA

Room: 555

Wednesday, October 16, 8:30 – 11:00 AM

5-1 (8:30) Fiber Optics Links for Artificial Intelligence Computing and Networks; Mabud Choudhury, OFS, USA

5-2 (8:55) Extended Transmission Multimode Fiber for Wavelength Range from 850nm to 910nm in High-Speed Data Center and AIML Applications; Hao Dong, Corning Optical Communications, USA

5-3 (9:20) Chromatic Dispersion of Single Mode Fibers for 800G and 1.6 Transmission; Earl Parsons, CommScope, USA

■ **Coffee & Networking Break** (9:45 AM – 10:10 AM)

5-4 (10:10) Multimode Polymer Waveguide Interconnect Systems for On-Board Applications; Bulent Kose, Panduit Corp., USA

5-5 (10:35) Big Things Do Come in Small Packages; Eric Hyland, Legrand, USA

SUPPLIER SPOTLIGHT SESSION (continued from Tuesday)

Chairperson: Jon Mello, Teknor Apex, USA

Room: Innovation Annex in Exhibition Hall C (3rd Floor)

Wednesday, October 16, 12:00 – 1:15 PM

(12:00) Nailless Plywood Reels—A Step Towards Sustainability; Narwal

(12:15) Quality Control Testing Equipment; TESTMACH INTECH LLP

(12:30) Expertly-tailored color packages for XLPE Wire and Cable; Chroma Color Corporation

(12:45) Fire-proof Silicone Compound; Delesun Group

(1:00) TBD; Reellex

Session 6: MATERIALS AND ADDITIVES - PART 2

Sponsored by: Dow

Chairperson: Thomas Schelling; J.M. Huber Corporation, USA
Room: 554

Wednesday, October 16, 2:00 – 4:55 PM

6-1 (2:00) Low Carbon Footprint ADSS Cable; Lucas Nogueira, Prysmian Cabos e Sistemas do Brasil S.A., Brazil

6-2 (2:25) Increasing Demand for High Voltage Cable, Selection of Polymer, Carbon Black to its Cable Construction; Priya Rakshit, Orbia Polymer Solutions - Alphagary, USA

6-3 (2:50) Carbon Black and Conductivity in Medium and High Voltage Cables; Scott Brewer, Orion Engineered Carbons SA, USA

■ **Coffee & Networking Break** (3:15 PM – 3:40 PM)

6-4 (3:40) Next Generation PVC Elastomers with Superior Low Temp Performance; Qiming He, Teknor Apex Company, USA

6-5 (4:05) Preliminary Investigation of a High Thermal Stability Polyimide for Magnetic Wire Coatings; Brian Knapp, Akron Polymer Systems, USA

6-6 (4:30) Gallium, Germanium, and their Implications in the Energy Transition; Daniel Smith, Nest Technical Services, Inc., USA

Session 7: MATERIAL AND DESIGN FOR OPTICAL FIBER CABLE

Chairperson: Bulent Kose, Panduit Corp., USA
Room: 555

Wednesday, October 16, 2:00 – 5:45 PM

7-1 (2:00) Development of Indoor / Outdoor Cables with Robust Structure; Daisuke Hikima, Fujikura Limited., Japan

7-2 (2:25) Fine Tuning of the Surface Energy of the GFRP Rods Used in Optical Fiber Cable Sheathing; Chaithanya PV, Runaya Private Limited, India

7-3 (2:50) Application of a Swellable Water Blocking Fiber Coating for Fully Dry Micro Loose Tube Solution; André Steghuis, BV Twentsche Kabelfabriek TKF, Netherlands

■ **Coffee & Networking Break (3:15 PM – 3:40 PM)**

7-4 (3:40) Enhancing Fiber Optic Cable Identification in Miniaturized Environments: The Role of Specialized Masterbatch; Jesús Trenado, Delta Tecnic, Spain

7-5 (4:05) Influence of Coating Properties on the Quality of Optical Fibre Cables; Onno Bresser, TKH Group NV, Netherlands

7-6 (4:30) Fast Curing Next Generation Primary Coating Technology Providing Improved Consistency in Optical Fiber Performance and Draw Tower Process; Grant Sheridan, Covestro LLC, USA

7-7 (4:55) Mitigated Inking Impact of Next Generation Optical Fiber Coatings, While Maintaining Robust Draw Processing Capability; Xiaosong Wu, Covestro LLC, USA

7-8 (5:20) Novel Optical Fibers for Sensor and Laser Systems; John Ballato, Clemson University, USA

Session 8: SPECIALTY APPLICATIONS AND FIBER MODELING

Chairperson: Ben Waite, Fiber Optic Center, Inc., USA
Room: 555

Thursday, October 17, 8:30 – 10:35 AM

8-1 (8:30) CPR Reaction and Resistance to Fire Testing of Low Smoke, Zero Halogen Tight-Buffer Breakout Cables for Deployment in Nuclear Power Plants; Brian Risch, Prysmian, USA

8-2 (8:55) Automatic Alignment Method for Free-Space Optical Communication; Paul Huang, Panduit Corp., USA

8-3 (9:20) Temperature Cycling Simulation Using Finite Element Analysis; Henry Rice, Proterial Cable America, USA

■ **Coffee & Networking Break (9:45 AM – 10:10 AM)**

8-4 (10:10) New Formula for Calculation of Dependence of Microbending Sensitivity on Coating Geometry and Material; Onno Bresser, TKH Group NV, China

Session 9: RURAL BROADBAND AND CABLE DESIGN

Chairperson: Mike Gimblet, Corning Optical Communications, USA

Room: 556

Thursday, October 17, 8:30 – 11:50 AM

9-1 (8:30) Study on Remote Operated Optical Fiber Switching Node Using Power-over-Fiber Technique; Akihiro Kuroda, NTT Access Network Service Systems Laboratories, Japan

9-2 (8:55) Analysis of Fiber Shrinkage Phenomenon in Flat Drop Optical Cables; Junehyong Kim, Hyesung Cable & Communication Inc., Republic of Korea

9-3 (9:20) Micro Unit Cable with Low Loss and Bend Insensitive Fiber; Eunjeong Yang, LS Cable & System, Republic of Korea

■ **Coffee & Networking Break (9:45 AM – 10:10 AM)**

9-4 (10:10) Cable Designs for Rural Broadband Applications; Joseph Lichtenwalner, Corning, USA

9-5 (10:35) GRP Break Force Study in Load Safe Aerial Drop Cable; Sebastian Olszewski, Corning Optical Communications, Poland

9-6 (11:00) Development of Optical Fiber Cable for On-Road Surface Wiring; Akihiro Yanagida, NTT Corporation, Japan

9-7 (11:25) Development of Optical Fiber Cable Suitable for Simple Installation on Road Surface; Masataka Tabuse, Furukawa Electric Co., Ltd., Japan

Session 10: CABLE SUSTAINABILITY AND RECYCLING

Chairperson: Paul Brigandi, Dow, USA
Room: Ballroom B

Thursday, October 17, 8:30 – 9:45 AM

10-1 (8:30) Exploring Thermal Stability and Volatility of FEPs at High Temperatures; Bo Xu, Superior Essex, USA

10-2 (8:55) Sustainable Options in Polyethylene Cable Jacket Materials; Vincenzo De Altin Popiolek, Virginia Tech Department of Materials Science and Engineering, USA

10-3 (9:20) Fluoropolymer Sustainability and Responsible Manufacturing to Support Cable and Connectivity; Bianca Hydutsky, The Chemours Company, USA

■ **Coffee & Networking Break (9:45 AM – 10:10 AM)**

Industry Innovation Session: OUR INDUSTRY'S INNOVATIVE APPROACH TO SUSTAINABILITY & RECYCLING
Chairperson: Bianca Hydutsky, The Chemours Company, **Room:** Ballroom B

Thursday, October 17, 10:10 AM – 12:15 PM

View additional details on page 13

(10:10) **Introduction of the Sustainable Optical Fiber Industry Alliance (SOFIA)**



SOFIA

Hear from members of SOFIA, which is an industry initiative focused on promoting sustainability throughout the optical fiber and cable value chain through increased collaboration.

- **David Lindsay**, *Commercial Director, Energy, North America*, Borealis
- **Marie Ange Vatin**, *Global Sales Manager Fiber Optic Material*, Covestro
- **Anthony Musa**, *President, Heraeus Quartz North America*
- **Alain Giraud**, *Sales Director*, Nextrom
- **Enrique Mendez**, *Senior Global Market Manager Industrial*, Teijin Aramid
- **Jeff Koch**, *Senior Commercial Manager*, Umicore

(10:40) **Advancements in Sustainability & Recycling**

During this panel discussion with Q&A, industry experts will discuss sustainable material selection (performance & safety), transparency, responsible manufacturing (raw materials / emissions / energy credits) and supply chain circularity / recycling within the Cable & Connectivity Industry.

- **Jay West**, *Senior Director*, American Chemistry Council, *Executive Director*, Performance Fluoropolymer Partnership
- **Cy Genna**, *Industry Advocacy Leader – Advanced Performance Materials*, Chemours
- **Marie Ange Vatin**, *Global Sales Manager Fiber Optic Material*, Covestro
- **Paul Brigandi**, *Application Technology Leader, Specialty Plastics – Wire & Cable*, Dow
- **Kevin Buchanan**, *President*, Fluoropolymer Resources LLC
- **Maura Nespoli**, *VP of Sales for Renewable Energy & Sustainable Solutions*, Prysmian
- **Enrique Mendez**, *Senior Global Market Manager Industrial*, Teijin Aramid
- **Mike Patel**, *Director of Marketing*, Teknor Apex



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Session 11: EMERGING TRENDS IN OPTICAL CONNECTIVITY

Chairperson: Mike Gurreri, CommScope, Inc., USA

Room: 555

Thursday, October 17, 1:00 – 2:40 PM

11-1 (1:00) A Study of End-Face Geometry and Visual Inspection of a Very Small Form Factor Ferrule; Samuel Field, US Conec, Ltd., USA

11-2 (1:25) Pre-Connectorized Multi-Core Fiber Cable for Easy Installation; Takayoshi Mori, NTT Corporation, Japan

11-3 (1:50) Connectivity Advancement Trends for Quantum Technology & Its Applications; Bernard Lee, SENKO Advanced Components, USA

11-4 (2:15) A Very Small Form Factor Connector Solution Designed for Space Constrained Applications; Jeff Hendrick, US Conec, Ltd., USA

Session 12: OPTICAL FIBER CABLE MANUFACTURING

Chairperson: Robert Elkins, Corning Optical Communications, USA

Room: 556

Thursday, October 17, 1:00 – 3:05 PM

12-1 (1:00) Enhancing Efficiency and Quality in High-Speed Optical Cable Manufacturing through AI-Driven Process Control; Jussi Hanhiova, Maillefer Extrusion Oy, Finland

12-2 (1:25) The Influence of Extrusion Temperature on the Tensile Performance of Flat Optical Cables; Pengcheng Zeng, Yangtze Optical Fibre and Cable Joint Stock Limited Company, China

12-3 (1:50) Research and Analysis of G.657 Fibre Bending Loss Measurement; Lubin Deng, State Key Laboratory of Optical Fibre and Cable Manufacture Technology | Yangtze Optical Fibre and Cable Joint Stock Limited Company, China

12-4 (2:15) Application of G654E Fiber in Air-Blown Microcable for Backbone Network; Pan Xiukun, Hengtong Optic-Electric Co., Ltd, China

12-5 (2:40) Overview of Rare Earth Doped Fibers, Applications and Fabrication; Richard Tumminelli, Fiber Optic Center, USA

Session 13: OUTDOOR POWER DELIVERY AND UTILITY APPLICATIONS

Chairperson: Jon Mello, Teknor Apex, USA

Room: 554

Thursday, October 17, 1:00 – 2:40 PM

13-1 (1:00) EV Charging: Forced Air-Cooled Charging for DC Fast Chargers; Joseph Iamartino, Marmon Electrical, USA

13-2 (1:25) Electrifying Aerospace: Challenges, Regulations, Performance, and Future Needs in High Voltage Wiring for eVTOL Aircraft; Michael Traskos, Lectromec, USA

13-3 (1:50) A Study on Reinforcement Method Using Reinforcing Piles for Corrosion of Road Surface Boundaries of Steel Utility Pole; Wataru Kokubo, NTT Corporation, Japan

13-4 (2:15) Extraction of Equipment from Point Cloud Data for Automation of Heavy Equipment; Yusuke Sakurahara, NTT Corporation, Japan

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Educate the Industry

Help advance the worldwide cable and connectivity industry by sharing your research. In addition to presenting at the Forum, authors may participate in the IWCS Webinar Series, a live presentation of your paper with a global audience.

Suggested Topics (additional topics are also welcome)

COPPER

- Copper Conductors
- Copper Cable
 - Performance Modeling, Measurements & Testing
 - Accessories
 - Power
 - Medium / High Voltage
 - Fault Managed Power Delivery / Digital Electricity / Class 4
 - Data Communications / PoE
 - EMC / Single Pair Ethernet
 - Sensor / Signal / Transmission Cable
 - Industrial Automation / Robotics
 - Long Haul / Submarine Networks
 - Renewable / Off-Shore Energy
 - Oil / Gas / Drilling / Mining
 - Advance Healthcare
 - Automotive / Aerospace
 - Electric / Autonomous Vehicles

OPTICAL FIBER

- Optical Fiber Manufacturing
- Optical Fiber Applications
- Ultra-Low Loss Optical Fibers
- Multimode Fiber
- Optical Fiber Measurement, Reliability and Maintenance
- Splicing Technologies
- Next-Generation Special Fibers

OPTICAL FIBER CABLE

- Optical Fiber Cable Manufacturing
- Cable Measurement, Reliability and Maintenance
- Cable Designs
- Flexible Ribbon
- High Density Cable
- Multi-Core Cable
- Micro-Cables
- FTTx/FTTH and Installations
- Long Haul / Submarine Networks

CODES & STANDARDS

- Safety
- Performance
- Environmental / Sustainability / Eco-Labels

MATERIALS

- Compound Manufacturing
- Processing / Extrusion
- Cable Component Materials
 - Fluoropolymers
 - PVC
 - Low Smoke / Flame Retardant Halogen Free
 - Olefins
 - Thermoplastic Elastomers
 - Thermoplastic Urethanes
- Connectivity Materials
- Raw Materials / Ingredients

CONNECTIVITY / ASSEMBLIES

- Interconnect / Connectors
- Optical Connectivity
- Wire Harnesses
- Assemblies
- Harsh Environments
- Ferrule-less Alternative Optical Connectivity Methods
- High Density Interconnect Developments
- Field Installable / Fusion Splices / Terminations
- Field Identification / Repair / Reconditioning

INSTALLATION & TOOLS

- Microduct
- Air Blown
- Splicing Technologies
- Tooling & Testing

SPECIALTY APPLICATIONS

- 5G Cabling / Network Technology
- Broadband Infrastructure / Rural Communities
- Enterprise & Edge Data Centers
- SMART Society Concepts (Grids / Cities / Buildings)
- Sensor / Signal / Transmission Cable
- Industrial Automation / Robotics
- Long Haul / Submarine Networks
- Renewable / Off-Shore Energy
- Fault Managed Power Delivery / Digital Electricity / Class 4
- Oil / Gas / Drilling / Mining
- Advance Healthcare
- Automotive / Aerospace
- Electric / Autonomous Vehicles
- EMC / Single Pair Ethernet
- Wireless Signal Transmission

Further 2025 IWCS event information, abstract submission requirements, and selection criteria is available at: iwcs.org/present.

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Eastern USA	Monday, October 14	Tuesday, October 15	
8:30 AM	<p><i>*Core*</i> Professional Development Courses</p> <p>8:30 AM–12:30 PM</p> <p>MA101: Selection & Use of Materials in Wire & Cable</p> <p>EX101: The Art & Science of Extrusion Machinery for Wire and Cable</p> <p>CU101: Fundamentals of Copper Conductors & Metallic Cable Design and Applications</p> <p>FO101: Fundamentals of Optical Fibers and FO Cable Design and Application</p>	<p>Executive Session</p> <p><i>*Elective*</i> Professional Development Courses</p> <p>8:30 AM–12:30 PM</p> <p>MA211: Basics of Fluoropolymers and Their Use in Various Cable Applications</p> <p>FO212: Advances in Optical Fibers and Their Applications</p> <p>FO215: Understanding Optical Fiber Coatings</p>	
8:55 AM			
9:20 AM			
9:45 AM			
10:10 AM			
10:35 AM			
11:00 AM			
11:25 AM			
11:50 AM			
12:15 PM			
12:40 PM	<p>Plenary Luncheon <i>with awards and Keynote presentation</i> "The Convergence of Energy and Data: Powering and Connecting the Grid of the Future" Dr. Massoud Amin, Chairman, President, and CEO, Energy Policy & Security (EPS) Associates Ballroom A 12:45 – 2:30 PM</p>	<p>Supplier Exhibition™ 12:30 – 6:00 PM Exhibit Hall C (3rd Floor)</p>	<p>Lunch Concessions Available 12:30 – 2:30 PM Innovation Annex in Exhibit Hall C</p>
1:00 PM			
1:25 PM			
1:50 PM			
2:15 PM			
2:40 PM	<p>Session 1 Codes & Standards 2:45 – 5:15 PM Room 550</p>	<p>Session 2 Design, Testing, and Applications for Copper Ethernet, PoE, and Energy Cables 2:45 – 4:50 PM Room 552</p>	<p>Session 3 Advancements in Microduct Cable Technology 2:45 – 4:25 PM Room 551</p>
3:05 PM			
3:30 PM	<p>5:00 – 6:00 PM Refreshments Sponsored by: Amarel Automation and AESA Cortaillod</p>	<p>Poster Paper Session 4:00 – 6:00 PM Innovation Annex in Exhibit Hall C</p>	
4:55 PM			
4:20 PM			
4:45 PM	<p>Welcome Reception "An Eerie Evening" 5:30 – 7:00 PM Rotunda (5th Floor – Rhode Island Convention Center)</p>	<p>Prize Drawing Sponsored by: BASF</p>	
5:10 PM			
5:35 PM			
6:00 PM+			

Wednesday, October 16			Thursday, October 17			Eastern USA
Session 4 Materials/ Additives - Part 1 8:30 – 11:00 AM	Session 5 Data Center & Edge Applications 8:30 – 11:00 AM	Part 1 5G / Smart Grid Network – Present and Future Deployment Tactics and Policies 8:30 – 9:45 AM	Session 8 Special Applications and Fiber Modeling 8:30 – 10:35 AM	Session 9 Rural Broadband and Cable Design 8:30 – 11:50 AM	Session 10 Cable Sustainability and Recycling 8:30 AM – 12:15 PM Ballroom B	8:30 AM
Coffee Break 9:45– 10:10 AM Sponsored by: Fiber Optic Center			Coffee Break 9:45– 10:10 AM Sponsored by: Fiber Optic Center			8:55 AM
Room 554	Room 555	Part 2 The Latest Innovations Affecting Power & Communications Cables 10:10 – 11:25 AM	Room 555	Room 556	Industry Innovation Session: Advancements in Sustainability & Recycling 10:10 AM – 12:15 PM Ballroom B	9:20 AM
Supplier Exhibition™ 10:00 AM–2:00 PM Exhibit Hall C (3 rd Floor)		Lunch Concessions Available 11:30 AM–1:30 PM Innovation Annex in Exhibit Hall C	Lunch on Your Own 12:00–1:00			9:45 AM
Supplier Spotlights 12:00 PM–1:30 PM Innovation Annex in Exhibit Hall C						10:10 AM
Prize Drawing Sponsored by: BASF						10:35 AM
Session 6 Materials/ Additives - Part 2 2:00 – 4:55 PM	Session 7 Material and Design for Optical Fiber Cable 2:00 – 5:45 PM	Part 3 Supply Chain – Impact and Effects of the Future Energy Grid 2:00– 3:10 PM	Session 11 Emerging Trends in Optical Connectivity 1:00 – 2:40 PM Room 555	Session 12 Optical Fiber Cable Manufacturing 1:00 – 3:05 PM Room 556		Session 13 Outdoor Power Delivery and Utility Applications 1:00 – 2:40 PM Room 554
Coffee Break 3:10– 3:35 PM Sponsored by: Fiber Optic Center						11:25 AM
Room 554	Room 555	Part 4 Critical Updates on Utility Infrastructure & Smart Grid Reliability & Resilience 3:35– 4:55 PM				11:50 AM
						12:15 PM
						12:40 PM
						1:00 PM
						1:25 PM
						1:50 PM
						2:15 PM
						2:40 PM
						3:05 PM
						3:30 PM
						4:55 PM
						4:20 PM
						4:45 PM
						5:10 PM
						5:35 PM
						6:00 PM+

BREAKOUT: Navigating the Energy Transition: Smart Grid and Broadband Connectivity 8:30 AM – 4:55 PM | Ballroom B



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CableMES

UL Solutions wire and cable software

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- Minimizes errors and reduces rework
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- Real-time alarms and historical trending



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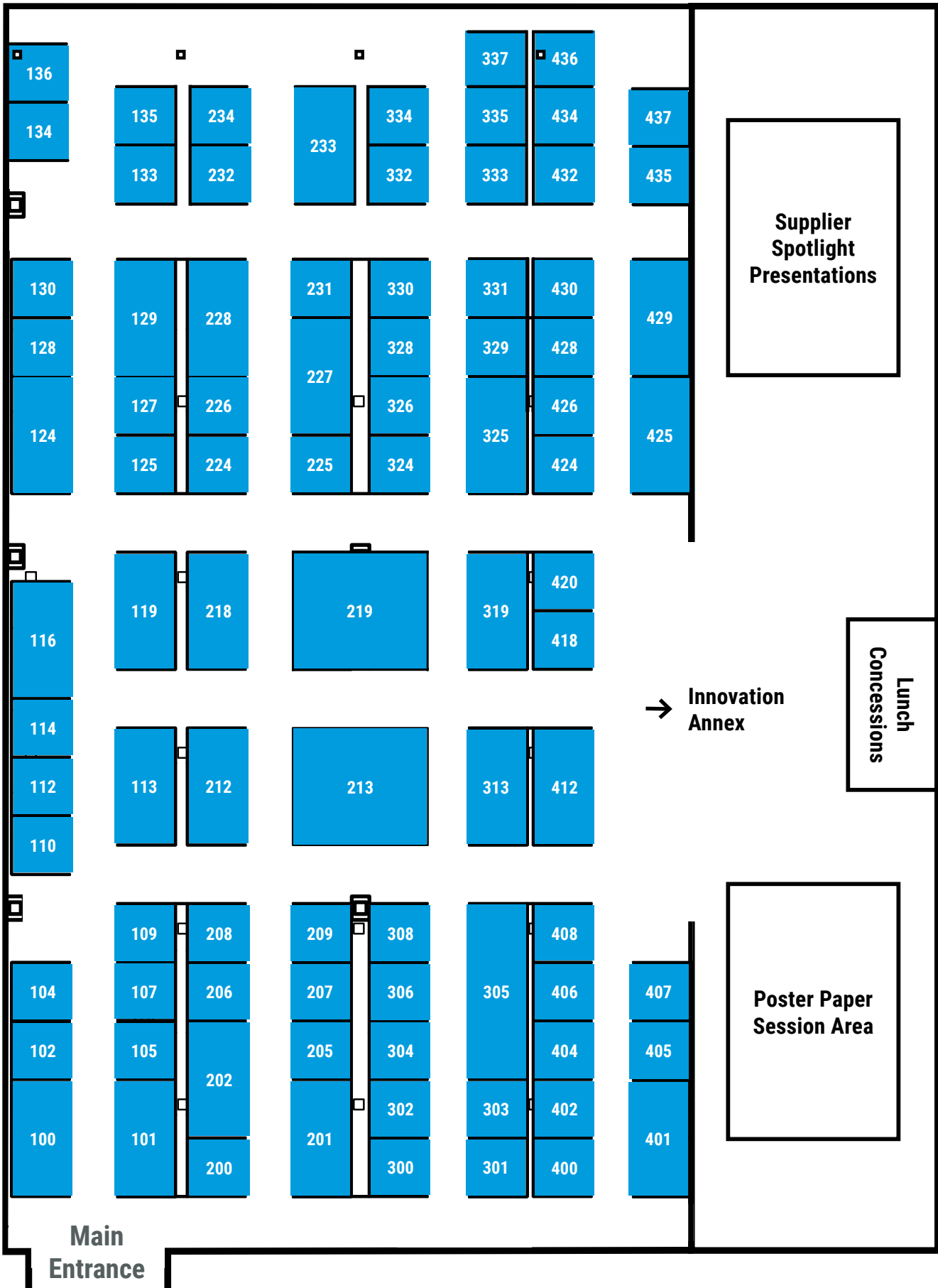


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-Victor D., LL Flex

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Aurora Material Solutions supplies a complete line of thermoplastic compound solutions for the wire and cable industry, including Thermoplastic CPE, PVC alloys, LSZH, FPVC and SEBS based TPE's. Our products provide the performance characteristics you need, backed by the service and delivery you demand.

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We are committed to being our customers' first choice in polymer solutions. At Aurora, we believe in People. Partners. Possibilities., providing you high-quality polymers, industry-leading service, and customized solutions. **Let's partner together today!**

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AdvanSix **304**
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 Advansix.com/aegis-nylon-jacket-compounds



At AdvanSix, it all starts with essential chemistries that make innovative solutions possible. Our dedicated Wire & Cable team of experts, led by Taha Abdulla, are the industry's leading nylon solutions providers and trusted innovation partners ready to meet customers' needs.

Our durable Aegis® nylon compounds for cable and wire applications are trusted by customers across the industry for its proven processability and performance. Aegis® nylon compounds are QMTT2 or QMTM2 UL-certified wire components that offer a range of performance benefits, including protection from oil, gasoline and other hydrocarbons, abrasion and crush resistant, good performance at all line speeds and wire sizes, extra flexibility for cold and dry environments, low fuming during wire extrusion, UL QMTT2 Listed (building wire applications), UL QMTM2 Listed (plenum cable applications), available as 100% PCR or PIR nylon content grades. They are specifically designed for demanding applications, including residential buildings, commercial buildings, plenum cables, data centers, medical facilities, stadiums, appliances and automotive. All grades are UL certified for use on wire and cables that power data centers, buildings, cars, machines, appliances and more. Our 100% recycled nylon grades offer customers the same performance as our standard nylon grades with the added benefit of a lower carbon footprint. We are one of the top five fully integrated manufacturers of Nylon 6 globally and one of the largest single-site global producers of caprolactam – a key ingredient for nylon resins. With exceptional quality control and a robust supply chain, our teams deliver industry-leading quality and reliable supply. We combine our rich history with a commitment to product innovation and sustainable solutions, helping our customers deliver on their own promises to consumers.

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ADVARIS is a leading supplier of special software solutions and consultancy for cable and wire manufacturers. Our customer list ranges from small and medium companies to global players like Nexans, Southwire and many more. ADVARIS Cable is now successfully in use worldwide. ADVARIS is an international software and consulting company headquartered in Bruchsal, Germany. For more than 25 years, we have been successful on the market, implementing innovative industry solutions for companies with demanding production processes and high aims in terms of flexibility, delivery reliability, quality and cost efficiency. We support you in identifying and exploiting your potential for growth in the digital world of Industry 4.0 and the Smart Factory. With in-depth industry knowledge and optimally pre-configured processes (best practices), we ensure that you quickly acquire a competitive edge.

AGC Chemicals Americas, Inc. **109**
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 Contacts: Victoria Dean, Kristin Carlin



Boost Wire and Cable Performance Properties With Advanced

Fluorochemical Solutions From AGC Chemicals-Fluon+™ enhanced materials and compounds improve performance properties of wire and cable, such as durability, flexibility and heat resistance, in demanding applications. AGC Chemicals will feature these materials at the 2024 IWCS Supplier Exhibition, booth 109. Fluon+ materials use advanced fillers, pigment systems and additives to enhance the performance of AGC's Fluon fluoropolymer resins. These materials add performance characteristics such as toughness; lubricity; creep, wear and chemical resistance; and thermal and electrical

Servicing the wire & cable industry for over 70 years.

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conductivity. Products like wire and cable jackets, insulated coatings, fuel hoses and multilayer film made with Fluon+ materials are used in a wide range of applications in the automotive, aerospace, chemical processing, resource recovery, electronics and semiconductor markets. Fluon+ modified PEEK uses specialty fluoropolymers to improve its impact strength, wear resistance, flexibility and electrical insulating properties. Fluon+ modified PEEK retains mechanical properties at high temperatures up to 200°C. It is ideal for wireline and cable insulations to better withstand repetitive use in harsh environments.

Alphagary/Mexichem Specialty Compounds, Inc. 101

170 Pioneer Drive
Leominster, MA 01453 USA
Website: www.alphagary.com
Tel: 978-537-8071
Emails: denise.wallace@orbia.com,
francine.ayles@orbia.com

Orbia's Polymer Solutions business Alphagary is a global leader in the design and manufacture of specialty polymer compounds and additives for polyvinyl chloride formulations including stabilizers, plasticizers and colorants. Formulated specifically for datacom (data, voice video) and electrical (signal, control, power) copper and fiber optic cable applications, Alphagary's compound expertise includes PVC, LSHF (PO), TPE, TPU, CPE and newly introduced semi-con materials for the semiconductive layers on MV and HV power cables. Innovative materials include bespoke formulations that meet global fire testing standards (US NEC, European CPR) while not impeding transmission rates for a multitude of applications including renewable energy, AI, agriculture, robotics, entertainment and more. New developments include tough materials for outdoor applications that maintain flexibility while supporting performance; materials to replace FEP, and materials built with bio-based / recycled content. Alphagary has 1000 employees and nine manufacturing facilities across the US, UK, Mexico, Colombia and India, serving 80 countries through a global sales and distribution network.

Amaral Automation / AESA Cortailod 412
1697 Warwick Ave, Suite D
Warwick, RI 02889 USA
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Website: www.amaralautomation.com

Email: officemanager@amaralautomation.com
Contact: Julie Tilley

Measurement equipment, data management systems, certification, knowledge and expertise to enhance quality management and production performance in the cable industry and increase efficiency in a sustainable way.

American Polywater Corporation 136

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Stillwater, MN 55082 USA
Tel: 651-430-2270
Website: www.polywater.com
Contact: Pat Estenson
Email: pat.estenson@polywater.com

Polywater is a leading chemical manufacturer focused on solutions for the communications and electrical world. These solutions include: Lubricants used in cable manufacturing and installation; specialty Cleaners used for cable prep / splicing; Sealants to protect enclosures & infrastructure from moisture/gases/rodents; Adhesives to adhere dissimilar materials including HDPE/PVC/fiberglass/steel.

Arkema Inc. 319

900 First Avenue,
King of Prussia, PA 19406 USA
Contact: Luigi Puglia
Email: luigi.puglia@arkema.com
Website: <https://hpp.arkema.com/en>

Come visit Booth #319 to learn more about Arkema Inc. as a leading supplier of specialty materials to the wire and cable industry, Arkema's high-performance polymers are commonly used for applications where extreme protection and reliability are required. A wide range of materials is available including Kynar® PVDF, Rilsan® polyamide 11, Pebax® elastomers, Orgalloy® alloys and Kepstan® PEKK thermoplastics. Key characteristics of these outstanding polymers include high-temperature resistance, low flame and smoke properties, chemical resistance, low-temperature flexibility, low shrink back and ease of processing. Arkema's long-chain polyamides and alloys are excellent for power cables including Rilsan® HT polymers for high-temperature applications and Rilsan® Clear polymers for applications that demand optical clarity. Arkema is a leader in bio-based and durable materials for wire and cable applications including halogen-free flame-retardant materials.

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Artofil bv

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Artofil is the manufacturer of High Tech Yarn for industrial applications. Customers rely on our knowhow and expertise for more than 70 years. Close co-operation enables Artofil to provide dedicated yarn solutions that fit our customer's requirements. We develop and produce high reliability quality products for high quality applications. Artofil is your Technical Yarn specialist and preferred partner for Water Blocking Yarn for Power Cable, Water Blocking Yarn for Fiber Optic Cable, Water Blocking Coating; Blockcoat, Aircraft Carpet Yarn, High Temperature Yarn and Tirecord Fabric Header Yarn.

ASI Silica Machinery, LLC

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515 Loring Ave
Los Angeles, CA 90024 USA
Website: www.asisilica.com
Tel: 310-863-4168
Email: wamberg@asisilica.com
Contact: Wendy Amberg

ASI Silica Machinery is the global market leader in equipment and process for manufacturing optical fiber preforms. Founded in 1997, ASI Silica Machinery, LLC manufactures its equipment, supported by its own research and development facility, in the USA. The company designs and supplies a full range of machines for the production of core and clad silica based optical fiber preforms. ASI Silica Machinery equipment is operating in Europe, India, Asia and America. We are proud to have empowered key companies to take full control of their optical fiber production to meet increasing global demands. Our operating machines attest to high production volumes and financial performance, accounting for about 10% of the world's current optical fiber production. ASI/Silica Machinery is the preform capital equipment supplier of choice. Our research and manufacturing facilities are located in Los Angeles, CA, USA. Contact us to see how ASI Silica Machinery can help you produce optical fiber preforms at globally competitive prices.

Aurora Material Solutions

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cschnell@auroraplastics.com
Contacts: Matthew Kuwatch, Cam Schnell



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Aurora Material Solutions supplies a complete line of thermo-plastic compound solutions for the wire and cable industry, including Thermoplastic CPE, PVC alloys, LSZH, FPVC and SEBS based TPE's. Our products provide the performance characteristics you need, backed by the service and delivery you demand. AuroraGuard™ TPO Compounds provide high heat, high flame performance, good flexibility and can be formulated to be low smoke zero halogen. Fillers and additives are incorporated to meet any of your specific requirements for flame retardancy, low temperature properties and mechanical performance. AuroraFlex™ flexible PVC solutions are a cost-effective alternative to higher cost thermoplastics. These compounds cover durometers from 45 to 90 Shore A, with specific gravities ranging from 1.15 to 1.65. Additionally, AuroraFlex SL is designed to produce longer-lasting materials, with no tearing and minimal wear. Our AuroraFlex TPEs: We utilize multiple chemistries to impart high performance for cable durability and easier processing. Aurora also carries solutions for the higher-level electronics/electrical markets, including our CPVC and rigid engineered thermoplastics line including PC, PC/ABS, PC/PBT and PC/PET. We are committed to being our customers' first choice in polymer solutions. At Aurora, we believe in People. Partners. Possibilities., providing you high-quality polymers, industry-leading service and customized solutions. Let's partner together today.

Aversion Technologies, Inc.

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1125 West Street, Suite 328
Annapolis, MD 21401 USA
Website: www.aversiontech.com
Tel: 202-657-6300
Email: ptutini@aversiontech.com
Contact: Peter Tutini

Aversion Technologies produces high performance repellent and deterrent masterbatches incorporated into the most popular polymers to protect wires, ca-

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bles, pipes and tubes. Tested and used worldwide, our Repela products are the standard by which all others are measured. Non-toxic, low odor and easy to handle pellets make processing with Repela a simple routine. Repela is the best protection for your cables.

Avient Corporation **228**

33587 Walker Road
Avon Lake, OH 44012 USA
Tel: 440-930-1000
Website: www.avient.com
Email: contact@avient.com

Avient Corporation provides specialized and sustainable materials solutions that transform customer challenges into opportunities, bringing new products to life for a better world. We offer technologies formulated to meet various demands for wire and cable applications. Our customizable thermoplastics, colorants, additives and engineered fibers are used in high-performance components such as insulation, jacketing, ripcords, strength members, yarns and cross-web. Other examples of our materials include:

- Dyneema[®], the world's strongest fiber[™], enables unmatched levels of performance and protection for end-use applications, including ballistic personal protection, marine and sustainable infrastructure and outdoor sports.
- Unique technologies that improve the recyclability of products and enable recycled content to be incorporated, thus advancing a more circular economy.
- Light-weighting solutions that replace heavier traditional materials like metal, glass and wood, which can improve fuel efficiency in all modes of transportation and reduce carbon footprint.
- Sustainable infrastructure solutions that increase energy efficiency, renewable energy, natural resource conservation and fiber optic / 5G network accessibility.

Avient is certified ACC Responsible Care[®], a founding member of the Alliance to End Plastic Waste and certified Great Place to Work[®].

BASF **330**

1609 Biddle Ave
Wyandotte, MI 48192 USA
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Email: patricia.presswood@basf.com
Contact: Patricia Presswood

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At BASF, we create chemistry—and have been doing so for more than 50 years. By combining customer driven innovation with a global presence and technical expertise under one roof, BASF Performance Materials delivers the right solutions for our customers' challenges. We offer a wide range of Thermoplastic Polyurethane Elastomers and Engineering Plastics that stand up to the harsh demands of wire and cable applications. The BASF portfolio includes polyamides, polysulfones and PBT. Elastollan® TPU is well-suited for high performance cabling when it comes to abrasion and wear resistance, low smoke/halogen free flame performance, high operating temperatures and weatherability.

Cable Components Group / Gendon Polymer Services **303**
 185 S Broad Street, Ste 101
 Pawcatuck, CT 6379 USA
 Website: www.cablecomponents.com
 Tel: 401-932-9553, 401-275-3197
 Email: glewcm@cablecomponents.com
 Contact: Charles Glew

Cable Components Group (CCG) designs, extrudes and formulates high performance fillers and compounds for wire and cable, as well as fiber optic applications. CCG's patented chemical foaming technology, FluoroFoam®, enables foaming on traditional extrusion equipment without the need for costly capital expenditures. CCG is committed to providing chemically foamable solutions for cable components for any range of materials and temperature ratings. CCG's foaming technology can be used to lightweight cables, improve fire and electrical performance and decrease raw material usage for any cable construction. The range of materials includes fluoropolymers (FEP, PFA, MFA, ECTFE, PVDF) engineered resins (PEEK, PEKK, PPSU, PPS, PES, PSU), and both halogenated and non-halogenated polyolefin formulas. FluoroFoam® is CCG's flagship line of chemically foamable fluoropolymers such as FEP and MFA for insulation.

Carris Reels **325**
 49 Main St
 Proctor, VT 05765 USA
 Website: www.carris.com
 Tel: 802-773-9111, 438-870-9110
 Emails: aaron.yaddow@carris.net,
Mathieu.St-Amour@carris.net

Contacts: Aaron Yaddow, Mathieu St-Amour

Carris Reels manufactures and distributes packaging solutions for the wire and cable industry including plywood, nailed wood, hardboard, plastic, wood/metal and stamped metal reels. Additional services offered are recycling/repair services and logistics in the New England area. Its vast manufacturing network consists of multiple locations across the USA, Canada and Mexico, in addition to several warehouse/assembly locations. Carris Reels is 100% employee owned.

CBC Metals Processing **306**
 225 Doney Crescent
 Concord, ON L4K 1P6 Canada
 Website: www.cbcmetals.ca
 Tels: 416-618-3002, 905-738-6321
 Emails: randy@cbcmetals.ca,
jane@cbcmetals.ca
 Contacts: Randy Coupland, Jane Heary

Copper and aluminum strip and foil solution specialists for wire and cable.

Chase Corporation **202**
 375 University Avenue
 Westwood, MA 02090 USA
 Tel: 859-638-3703
 Website: www.chasecorp.com
 Email: zvogt@chasecorp.com
 Contact: Zachary Vogt

Chase Corporation offers the most comprehensive range of cable component materials of any global supplier. Products include a wide range of multi-ply shielding tapes, heat seal and pressure sensitive coated films and laminates, foil-free edge tapes, screening tapes, marker identification tapes, water blocking tapes and yarns and a full range of non-conductive and semi-conductive tapes for MV, HV and EHV cable designs. Industry recognized brand names include Chase and Sons®, NEPTAPE®, FIREFITE®, HIGHDRAW®, AquaBlok®, Slicktape®, Powerline®, Dualite® microspheres and Chase BIH2Ock® strand fill compound. The newest member of the Chase product family is Stewart Superabsorbents, the preeminent supplier of superabsorbent polymers (SAP) for specialty applications. Chase has manufacturing facilities in Oxford, MA; Lenoir, NC; Hickory, NC; Pittsburgh, PA; Greenville, SC; and Suzhou, China; with sales offices located throughout the world. Chase also offers contract manufacturing and product design services,

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with in-house capabilities for coating, laminating, printing and slitting at its ISO 9001:2015-certified plants.

Chroma Color Corporation **407**
 3900 W Dayton St.
 McHenry, IL 60050-8378 USA
 Tel: 815-385-8100
 Website: <https://chromacolors.com/>

Chroma Color Corporation is a leader in providing high-performance color concentrates for the wire and cable industry. Our innovative solutions cater to diverse markets, including Building, Automotive, Electronics and Telecommunications. We are excelling in the development of advanced XLPE formulations, specifically designed for harsh environments such as construction, mining, refineries, power plants, aerospace and chemical plants. Our XLPE compounds offer superior resistance to

abrasion and tear, perform exceptionally in extreme temperatures, and maintain vibrant colors with up to 50% catalyst, all while reducing costs. We also specialize in XLPE (UV) solutions tailored for the rapidly evolving EV automotive market, where high voltage demands are pushing boundaries. These products meet stringent ASTM standards, ensuring reliability and safety. In addition, Chroma Color continues to provide top-tier NM (non-metallic) PVC options for building and construction, available in high-performance colors such as White - 14 AWG, Yellow - 12 AWG, Orange - 10 AWG, and Black - 8 AWG and 6 AWG, with a let-down ratio of just 1%. Our commitment to quality is reflected in our compliance with rigorous regulatory standards, making us a trusted partner in the industry. Visit our booth # 407 to discover how Chroma Color can elevate your wire and cable products to meet the demands of today and tomorrow.

Expand your wire and cable curing capabilities with the most comprehensive product portfolio on the market.

The advertisement features three pieces of curing equipment: a blue NobleLight unit on the left, a black and white OmniCure AC9300 unit in the center, and a white Phoseon unit on the right. The background is dark with green and yellow wavy lines. Below the equipment are the logos for NobleLight, OmniCure, and Phoseon. At the bottom right is the Excelitas Technologies logo and website address. A call to action box is located at the bottom left.

Visit us at **IWCS 2024**
Booth #201
 Providence, RI
 October 15 - 16, 2024

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Clinton Instrument Company **224**
 295 East Main Street
 Clinton, CT 06413 USA
 Website: www.clintoninstrument.com
 Tel: 860-395-7873
 Email: bcarroll@clintoninstrument.com
 Contact: Brockett Carroll



The Clinton Instrument Company, specialists in spark test technology for the wire and cable industry and inventor of the high-frequency sine wave spark tester, is pleased to be exhibiting at IWCS.

Conneaut Industries, Inc **133**
 89 Hopkins Hill Road
 West Greenwich, RI 02817 USA
 Tel: 401-392-1110
 Website: www.conneaut.com
 Email: russ@conneaut.com
 Contact: Russell Kibbe

Braiding and weaving, cable materials, shielding/insulation, yarns and other textiles. Since 1930, Conneaut Industries has been an industry-leading converter of specialty yarn products. Conneaut has an extensive customer base in North America, and an international presence providing customer-based solutions for each individual need. Conneaut has developed process expertise in precision winding, twisting and plying of all textile types to achieve specific customer solutions. Materials typically used are fiberglass, aramids, cotton, polyester, nylon, UHMW, PTFE-coated fiberglass and many other specialty man-made and natural fibers. Markets served include electrical wire and cable, magnet wire, telecommunication, automotive, aerospace, oil and gas, sporting goods, military, marine, durable goods and medical.

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Covestro LLC

212

1 Covestro Circle
Pittsburgh, PA 15205 USA
Website: www.covestro.com
Tel: 224-277-3275, 412-413-5935
Emails: stacey.siler@covestro.com,
cynthia.sjoberg@covestro.com
Contacts: Stacey Siler, Cynthia Sjoberg

Covestro is one of the world's leading manufacturers of high-quality polymer materials and their components. With its innovative products, processes and methods, the company helps enhance sustainability and the quality of life in many areas. Covestro supplies customers around the world in key industries such as mobility, building and living, electrical and electronics, sports and leisure, health, telecommunications and within the chemical industry itself. Covestro Optical and Fiber Solutions enable the telecommunications industry while playing a pivotal role in supporting the framework of society on a global scale, for the transmission of energy and data. Our innovative and reliable high-performance materials, including wire and cable, are suitable for various manufacturing processes while simultaneously meeting tough environmental demands. The company is committed to becoming fully circular. In addition, Covestro aims to achieve climate neutrality for its Scope 1 and Scope 2 emissions by 2035, and the Group's Scope 3 emissions are also set to be climate neutral by 2050. Covestro generated sales of €14.4 billion in fiscal 2023. At the end of 2023, the company had 48 production sites worldwide and employed approximately 17,500 people (calculated as full-time equivalents).

Delesun Inc

418

100 Church ST 8th Floor
New York, NY 10007 USA
Website: www.delesungp.com
Tel: 540-998-0700
Email: sale@delesungp.com
Contact: Tane Zhao

Delesun Inc is wholly owned company by Seesun registered in USA exclusively for the American market, and it has the full supports in terms of technical and production from its parent company, and it has its targets on exploring and providing good products solutions and services to the markets in America directly and be with options of local collaboration for production and trade partners.

Seesun polymer material, with more 20 years development history so far, has been specializing in design and producing high grade of polymer composite materials for multiple industrial applications for Chinese and the international market. Among its branch of product lines and their sorts of applications, those made for power cable industry have taken much vital position with this company. The different technical demands from the cable working environments have been well addressed by the relevant products solutions. Such as normal silicone composite compound, calendared silicone sheet with reinforced sorts of fabrics and the fire & high temperature-resistant series containing silicone sheet/ layer, fire-resistant polyolefin, etc. Presently, Seesun has been supplying many reputable customers among including Nexans, Prysmian and other key cable manufacturers globally.

We provide silicone rubber compounds, high-temperature resistant silicone rubber compound for EV vehicle cable, fire resistant silicone compounds for fire resistant cable, flame-retardant silicone rubber that meets standard VW-1, silicone rubber compound meets standard of EN50382, oil resistant silicone rubber compound, FDA silicone rubber compound, EPDM and CPE Compounds, EVM and NBE compounds and fire retardant bands.

Dejinchang Optoelectronics Technology (Thailand) Co.,Ltd

435

7/268 Moo 6 T.Mapyangporn A.Pluakdaeng,
Rayong 21140, Thailand
Telephone: +66 82 123 3292
Email: lihao@th-djc.com
Contact: Lihao (Louis) Li

Dejinchang is a Thai company mainly engaged in the development and production of new materials for deep processing of various copper conductors (all types of copper wires). The main product is copper wire, from electrolytic copper to various types of copper wire, including bare copper wire, tinned wire, silver-plated wire, nickel-plated wire, alloy wire and various specifications of single wire, parallel wire and stranded wire. Committed to wire and cable customers, Dejinchang will continue to innovate technology, optimize management, expand the market and attract talents.

DeWAL Industries

424

15 Ray Trainor Drive
Narragansett, RI 02882 USA
Website: www.rogerscorporation.com

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Tel: 800-9352940
 Email: robert.paroskie@rogerscorporation.com
 Contact: Robert Paroskie



DeWAL Industries, a part of Rogers Corporation, offers a full suite of

high-performance material options aimed at increasing the reliability and productivity of your final designed system for the Aerospace & Defense, General Industrial and Appliance markets. DeWAL® unsintered, extruded PTFE is the premium choice for wire insulation wrapping as it ensures protection from the elements as well as natural fire, and chemical resistivity. DeWAL expanded PTFE (ePTFE) films are an excellent choice for use in coaxial cable insulation wrapping. DeWAL full density skived PTFE films, pressure-sensitive tapes and unsintered extruded films are used for exterior wrapping of mechanical cables as well as cable and wire harnesses. They meet the most stringent specs in the

industry, with consistent high quality you can trust. All DeWAL products are manufactured in our Narragansett, RI, USA, facility and are supported by Rogers' global sales and marketing teams.

EuroWire/Wire & Cable ASIA Magazine **405**
 46 Holly Walk Leamington Spa
 Warwickshire, 4HY CV32 United Kingdom
 Tel: 44-1926-834684
 Website: www.read-eurowire.com
 Email: jason@intras.co.uk
 Contact: Jason Smith

Excelitas Technologies® Corp. **201**
 2260 Argentia Road
 Mississauga, Ontario L5N 6H7, Canada
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Excelitas Technologies® Corp. will display its expanded portfolio of UV curing systems from its Noblelight®, OmniCure® and Phoseon® brands at the 2024 IWCS (booth #201). The LightHammer® Mark III for fiber and cable is the latest generation “smart” microwave-powered system with a secondary reflector. The IoT-enabled Mark III system includes a 10-inch-wide intelligent irradiator (lamp module), electrodeless bulb and solid-state power supply. OmniCure AC9300P LED Large-Area UV Curing Systems deliver over 14 W/cm² peak irradiance making it ideal for cable marking and ribboning. The high-performing, air-cooled AC9300P offers enhanced optics for fast uniform curing at short working distances. inks, adhesives and coatings. OmniCure AC8225-F+ and AC9225-F UV LED Curing Systems are designed for fiber curing applications, featuring a custom optical design to enhance output and optimize delivery of UV onto the fiber. The AC8225-F+ delivers up to 16 W/cm² peak irradiance at a 10-18 mm working distance, while the AC9225-F offers up to 22 W/cm² peak irradiance to optimize performance. Phoseon Fiber Curing Systems consist of a high intensity UV LED light source, which cures the coatings protecting the glass fibers, along with a Fiber Reflector Unit (FRU) to direct the UV energy around the circumference of the fiber. The UV LED light source and FRU are enclosed in an IP52 enclosure, protecting the system from liquid spills.

**Fabpro Polymers,
a Brand of MBCC-Group** **420**

100 South Fabpro Way
Kingman, KS 67068 USA
Web Site: www.fabpropolymers.com
Tel: 612-963-8239
Email: Al.Mullenbach@glpolymers.com
Contact: Al Mullenbach,
National Sales and Marketing Director

Polypropylene Cable Fillers: Al Mullenbach, National Sales and Marking Director, Fabpro Polymers, Kingman, KS, USA, says, “Fabpro Polymers offers a wide range of polypropylene cable fillers with a variety of packaging options suitable for all types of cabling machines. Cablemax™ fillers are available in slit film and monofilament construction offering two specific types of filling characteristics. The fillers are supplied in continuous knot free lengths to ensure trouble free cable making that are supplied with or without paper centers. Cablemax™ fillers are available in a Flame Retardant form that meets

ASTM 2863 specifications.”

Fiber Optic Center **305**

23 Centre Street
New Bedford, MA 02740 USA
Website: www.focenter.com
Tel: 508-992-6464
Email: sales@focenter.com



Fiber Optic Center, Inc., (FOC), is an international leading distributor specializing in helping their customers make the best cable assemblies in the world. FOC partners with Technical Horsepower Consulting, LLC. (THC), an international leader in consultation and technical training in the areas of optical cable, optical sensors and cable/connector interface.

Fil-Tec, Inc. **200**

PO Box B
Hagerstown, MD 21741 USA
Website: www.fil-tec.com
Tel: 240-818-7290, 240-313-5082
Email: christine.lovett@fil-tec.com
Contact: Christine Lovett

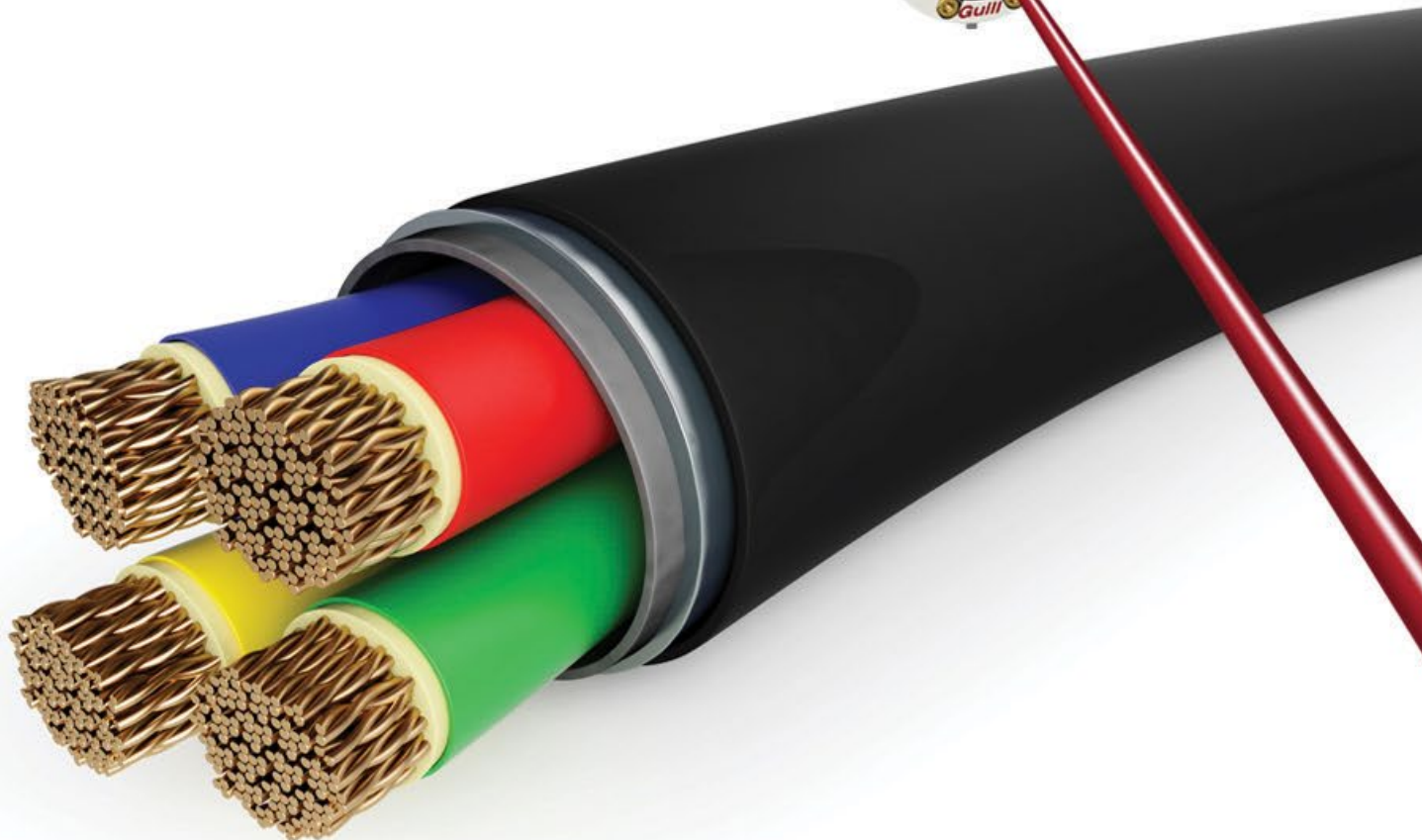
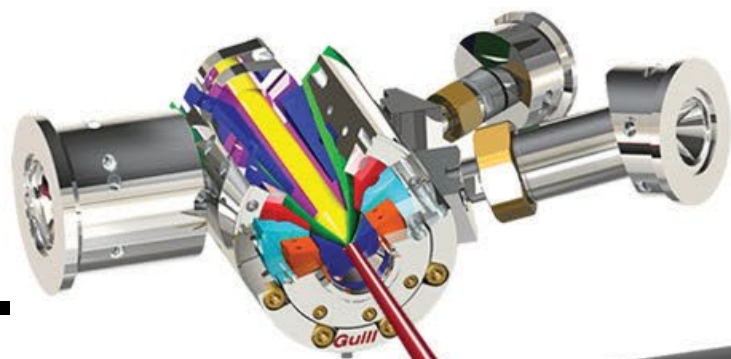
Fil-Tec, Inc. offers a complete line of performance yarns for application in power cables, copper and fiberoptic telecom and specialty cables. Products on display include: Binder Yarns with Water Blocking, Non-Wicking, Flame Retardant/Low Smoke finishes; Core Yarns; Ripcords; Filler Yarns; Marker Yarns; Fiberglass Reinforcement Yarns. Our Water Swellable Binder and Core (wrap around the FRP) Yarns offer the following benefits: a) Very low dust, extends life of bearings and other moving parts of the equipment; b) Less downtime due to mechanical maintenance related to SAP dust problems; c) Less clean up time; d) Cleaner working environment for the operator. Our technology produces a Water Swellable binder with higher yield, this means lower cost per kilometer of cable produced.

Gem Gravure Company Inc **428**

112 School St.
Hanover, MA 02339 USA
Website: www.gemgravure.com
Tel: 781-206-9912
Email: asviokla@gemgravure.com
Contact: Annaliese Sviokla

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www.guill.com
tooling@guill.com

**West Warwick,
Rhode Island (USA)**

401-828-7600

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When marking wire, a durable message requires a durable ink. Gem Gravure has more than 60 years of experience

creating inks that survive in tough conditions. GEM offers ink jet fluids for use in all ink jet printers with pigmented inks a specialty. White ink WTG7160 and black ink BKG7161 provide enhanced adhesion on polyethylene, including HDPE and XLPE. BLG1866 bright aqua ink continues to grow in popularity as a single ink for dark and light surfaces. GEM inks pair with the alphaJET evo® ink jet printer for superior print quality at high speed. The alphaJET evo is specially designed to reduce make up/solvent use, saving you money and time. GEM is the exclusive North American representative for KBA Metronic alphaJET® ink jet printers. Software rounds out the full marking and coding process. GEM's custom software packages include diamondJET™, diamondBRIDGE™ and Code M. Protect and control your data with a tailored software solution.

GEON Performance Solutions 232

25777 Detroit Road ste 202
Westlake, OH 44145 USA
Website: www.geon.com
Tel: 440-458-0359
Email: jeff.squires@geon.com
Contact: Jeff Squires

GEON® Performance Solutions is a global leader in plastic compounded solutions and the leading brand in PVC compounds. We offer a range of formulated PP and other TPOs, contract manufacturing solutions and strategic manufacturing services.

Graham Engineering Company, LLC 234

1203 Eden Rd.
York, PA 17402 USA
Website: www.grahamengineering.com
Tel: 717-505-4810, 401-615-9282
Emails: cgast@grahamengineering.com,
jdichristofaro@grahamengineering.com
Contacts: Corey Gast, Jason DiChristofaro

Graham Engineering Company has led the extrusion industry for more than 50 years, since the invention of the Graham Wheel in 1964. When it comes to extrusion, Graham and its brands American Kuhne® and Welex® specialize in constructing

the perfect solution for your needs from their proven stable of machinery and the industry-leading Navigator® controls. Learn more about our company, history, people and approach.

Guelph Twines Ltd. 114

50 Crimea St
Guelph, ON N1H 6J6 Canada
Website: www.guelphtwines.com
Tel: 519-821-9140
Email: mike@guelphtwines.com
Contact: Mike Ironberg

Guelph Twines makes specialty plastic and paper cordage products for a variety of industries throughout North America. We were founded in 1972, when four former members of the venerable Brantford Cordage Company moved to Guelph, Ontario, Canada and utilized their comprehensive experience in the cordage industry to begin their own manufacturing company, Guelph Twines Ltd. Over the years, our company has succeeded by remaining highly responsive to our customers, providing consistent quality and being innovative in our product lines. These goals are made possible by a very capable group of people.

Guill Tool & Engineering 302

10 Pike Street West Warwick
West Warwick, RI 02893-3612 USA
Website: www.guill.com
Tel: 401-465-5526
Email: tbaldock@guill.com
Contact: Thomas Baldock

Guill Tool & Engineering is the global leader in extrusion tooling. Single and multi-layer dies for extrusion wire and cable assemblies of all types. Die carts and accessories, too. All Guill products are designed, engineered, manufactured, assembled and fully tested in our factory, located in West Warwick, RI, USA. We actively partner with extruder manufacturers, and we sell worldwide through our network of reps. Standard and custom designs are available to meet your requirements, from fine gauge wire for electronics up to automotive harnesses, fiber optic and undersea cable.

Herkula 226

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Email: r.ilges@herkula.com
Contact: Ricardo Ilges

The beginnings of Herkula date back to 1894. At Herkula, we have invested our many years of existence into the perfection of our craft. The know-how we have accumulated over these years is unrivalled in the industry. The core business of Herkula consists of the development, production and distribution of special inks, varnishes and coating materials for the optical fiber and cable industry. We maintain two state-of-the-art R&D laboratories which work in close cooperation with our customers to develop customized solutions for individual requirements. Furthermore, Herkula brings new innovative products to the market in order to comply with evolving industry standards. We supply over 475 well-known industrial companies in 66 countries with cutting-edge products that meet the required high-quality standards. Herkula is proudly characterized by experience, innovation and expertise.

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Tel: 866-564-8237
Email: ken.averitte@huber.com
Contact: Ken Averitte



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Huber Advanced Materials is a trusted global leader and supplier of innovative and sustainable material solutions. We manufacture a comprehensive portfolio of value-added Martinal®, Hydral®, Hymod® and Micral® aluminum hydroxides (ATH); Magnifin®, Vertex® and Zerogen® magnesium hydroxides (MDH); Kemgard® molybdate compounds; and Safire® nitrogen-phosphorus fire retardant technology. We deliver technical solutions for a variety of end-use applications, including wire and cable, reinforced polyester molding and pultrusion, engineering thermoplastics, roofing, silicone rubber, coatings and carpet backing. Huber Advanced Materials operates four manufacturing sites in North America and two in Europe. Our innovative portfolio of thermal management solutions includes Martoxid®, Magnifin® and Martinal®, which offer technical advantages like allowing for high filler loading levels while being reliable and cost-effective.

In addition, Huber produces Martoxid® calcined aluminum oxide, Compalox® activated aluminum oxide and Pergopak® organic matting agents.

Huestis Machine Corporation 300

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Bristol, RI 02809 USA
Website: www.huestis.com
Tel: 401-253-5500
Email: fredc@huestis.com
Contact: Frederick Correia



For more than 90 years, Huestis Industrial has built and supplied high-quality machines and ancillary equipment to industrial companies around the world. From military to wire and cable, and every industrial application in between, the world has depended on Huestis Industrial to provide them with low cost, rugged and long lasting solutions to meet their manufacturing demands for an ever changing business environment. Whether it is our air wipers, cable jacket strippers, payoffs and take-ups, accumulators or custom machines—our performance is legendary.

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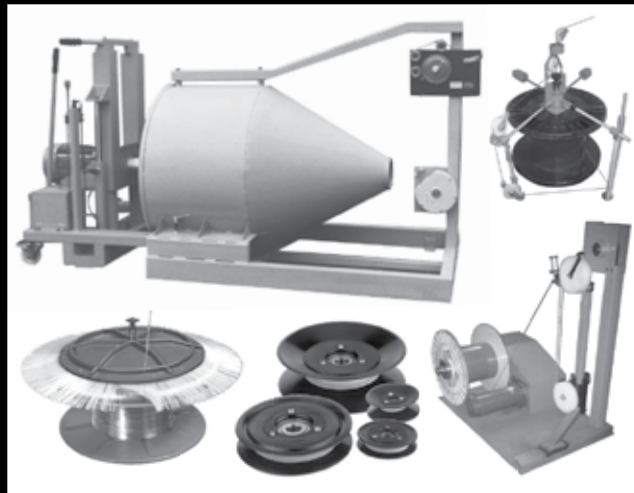
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Seoul, 6525 South Korea
Website: www.hscnci.com
Tel: +82-1030644366
Email: kenny.ryu@hscnci.com
Contact: Kenny Ryu

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Email: jfiorella@iesof.com
Contact: Jacques Fiorella

Industrial Equipment and Solutions of Florida LLC has over 25 years of experience in equipment and materials for the telecom and energy cable industry. IESOF is proud to become an authorized Shanghai KECHEN Wire & Cable Machinery Co., Ltd. (shortly named as KCM) sales and service representative for North America. IESOF will also soon provide a larger array of raw material supply for the specific industry targets (telecom and energy). In addition, advisory support for global operations will be proposed on a case-by-case basis to industrials.

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2311 Distribution Drive
Charlotte, NC 28269 USA
Website: www.info-gel.com
Tel: 704-582-9009
Email: cborkowski@info-gel.com
Contact: Craig Borkowski

Info-Gel LLC. is the world's premier manufacturer of thixotropic gels used by fiber optic, cable and wire companies worldwide. Started in the 1990's and based out of Charlotte, NC, we have factories in the USA, Ireland and a JV in India to ensure products are delivered with short lead times to the highest quality standards.

InnoVites B.V. 128

Galileilaan 23f, 6716 BP Ede
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Email: dino.d@innovites.com
Phone: +31 (0) 88 5000 150
Contact: Dino Datson



InnoVites is a company that specializes in software solutions for the wire & cable industry. InnoVites has been in the industry for over 25 years and has a strong reputation for delivering tailored solutions and excellent customer service. InnoVites' expertise in the wire & cable sector, combined with their use of advanced technologies like Microsoft Dynamics 365, makes them a valuable partner for companies seeking to improve their operational efficiency and competitiveness.

IWCS 102

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Contacts: David Kiddoo (CEO), Michelle Melsop (Operations), Becky Dippel (Sales & Marketing)



IWCS organizes the Cable & Connectivity Industry Forum as the premier technology event for the exchange of information about product, material and process innovation for cabling and connectivity solutions. IWCS also provides networking and development opportunities for industry professionals by offering educational webinars and scholarships. IWCS is committed to strengthen its connectivity content and industry presence, providing interaction with technical and supply chain professionals on the connectorization of cabling infrastructure. We present new content and promote discussion of ideas and innovations to advance connectivity solutions.



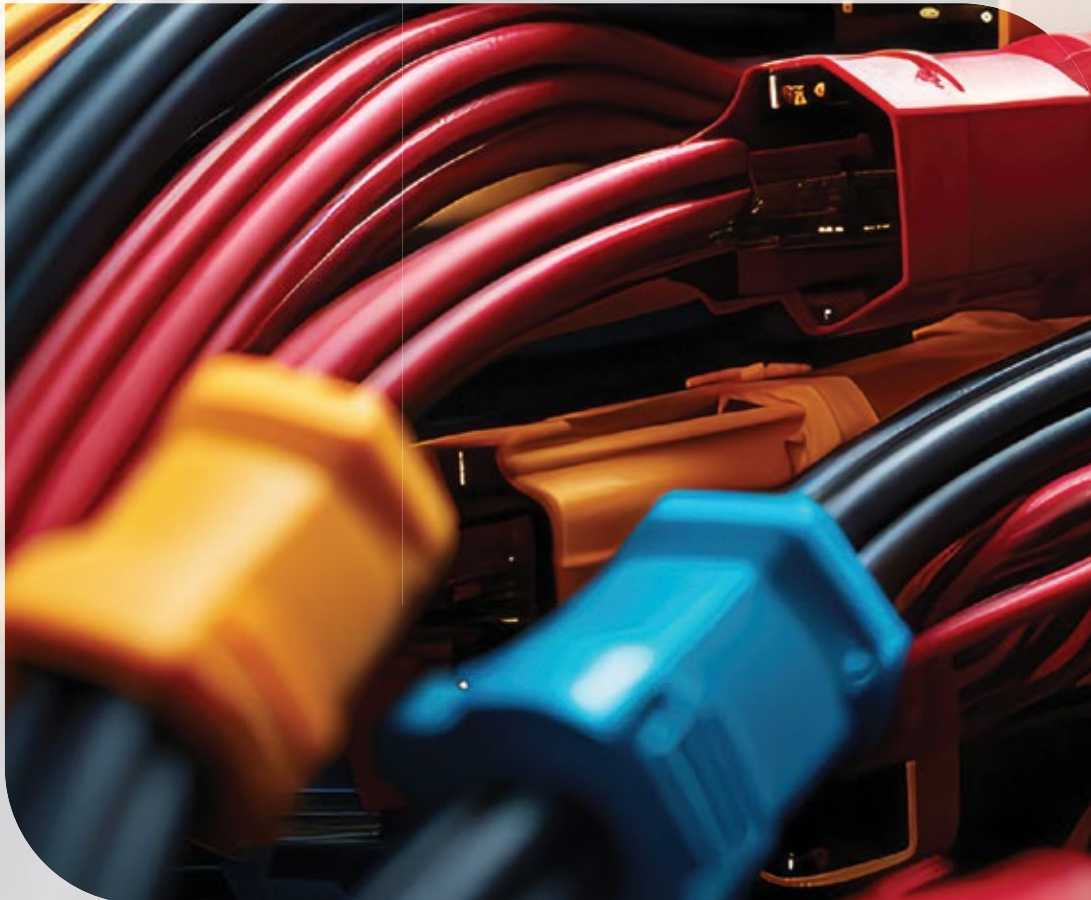
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Email: sdonnelly@kinreiusa.com
Contact: Sean Donnelly

Kinrei of America is the North American Manufacturers' Representative for the wire and cable industry. Through our partnerships with world-class machine and product manufacturers, we provide turn-key solutions to wire and cable manufacturing challenges along with industry-expert knowledge. Kinrei of America is committed to providing the highest quality products and value-added services to our customers in the wire and cable industry.

KN Manufacturing Solutions 402

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Hoschton, GA 30548 USA
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KN Manufacturing Solutions, founded in 2006, supports wire and cable manufacturing customers through agency and distributor representation of machinery suppliers. Additionally, we offer our own problem-solving, upgrading and control integration services. At IWCS, KN Manufacturing Solutions, as a distributor of Movacolor, will showcase and discuss products for various dosing and blending applications found in wire and cable factories. Movacolor is well-known in the plastics industry for its reliable and highly accurate products. Their portfolio includes gravimetric, volumetric and optometric systems, all with continuous or batch functionality for granules, liquids, powders and regrind materials. On display, we will have our smallest continuous blender (max ~200+ lb/hr), which is an optimal solution for applications that benefit from:

- Perfect dosing accuracy and repeatability.
- Easy and quick main material changeover.
- Quick and accurate color change feature during production to save on bleed scrap.

Kuraray America, Inc. 429

460-E Greenway Industrial Drive
Fort Mill, SC 29708 USA
Website: www.kuraray.us.com
Tel: (803) 396-7350 or (804) 654-0010

Email: Forrest.Sloan@Kuraray.com
Contact: Forrest Sloan



Kuraray supplies the wire and cable industry with VECTRAN® LCP fibers in HT (high strength) and UM (high modulus) grades. LCP fibers are stronger than para-aramids, with superior flex fatigue and abrasion resistance. In addition, they have near-zero moisture content, eliminating a frequent cause of blistering during high-speed extrusion of polymer cable jackets. LCP fibers are used in many specialty cable and umbilical applications demanding durability in high-stress dynamic end uses. In addition to high-performance fibers, Kuraray also produces SEPTON™ and HYBRAR™ thermoplastic elastomers. TPEs and modified blends can be extruded for protection, vibration damping, added grip and other user-defined attributes.

LL Flex LLC 127

1225 West Burnett Avenue
Louisville, KY 40210 USA
Website: www.llflex.com
Tel: 502-636-8400, 447-921-3960, ext. 17
Email: jlaverick@llflex.com
Contact: Jonathan Laverick

LL Flex, LCC is a leader in wire and cable and construction materials solutions, particularly industrial film and metal laminates. The company operates manufacturing facilities in Kentucky and North Carolina in the USA and has contract manufacturing, slitting and sales representatives globally. For the wire and cable industry, the company provides laminated steel, aluminum and copper tapes/armoring solutions.

Lloyd & Bouvier 219

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M. Holland Company



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Contacts: Todd Waddle, Jaclyn Zinkewich

We're a leading international distributor of thermoplastic resin, helping clients and suppliers with everything from sourcing and logistics solutions to strategic marketing channels. Manufacturers of wire and cable products have unique and complex material requirements. M. Holland offers a wide variety of plastic compounds, gels, tapes and copper conductors to meet the industry's diversified needs, allowing us to be a single-source supplier. Beyond the distribution of materials, we offer expert compounding capabilities to match our clients' specifications. We also provide a range of testing and application development services at our dedicated M. Holland Technical Services Laboratory. And because our materials ship from seven strategically located warehouses throughout North America, we help keep the supply chain reliable.

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 Tel: 252-563-7070
 Email: steve@madem-moorecraft.com
 Contact: Stephen Redhage

Madem-Moorecraft announces the opening of our newest manufacturing plant, located in Denton, TX, USA. The Denton factory will manufacture nailed wooden and plywood reels, utilizing the latest IOT cnc technologies. Madem-Moorecraft is part of the world wide Madam Group of companies. Madem is among the largest forestry groups in Brazil and it is the leading worldwide manufacturer of wooden reels for electrical cable companies. With multiple production plants, Madem produces and supplies more than 40 countries. The Madem Reels Group directly captured more carbon from atmosphere than its emissions, positively contributing to mitigate the climate changes.

The group has closed its inventory of Greenhouse

Effect gases, under advice of Ecofinance Negocios (www.grupoecofinance.com.br), scoring a higher total by integrating Scope 3 sources. In 2022, taking biogenic and fossil emissions into account, the group captured more gases than it emitted through the natural carbon capture provided by its cultivated forests. Furthermore, the accumulated inventory from native and cultivated forests accounts for more than 195 times the fossil emissions. The next step of this project consists of the continuous search for environmental improvements and advancement in energy efficiency throughout our operations.

Maillefer Extrusion Oy 400

Ensimmäinen Savu
 01510 Vantaa, Finland
 Website: www.maillefer.net
 Tel: +358 443 331 316, 358 405 248 854
 Emails: pirita.oli@maillefer.net,
mikko.lahti@maillefer.net
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About Kuraray:

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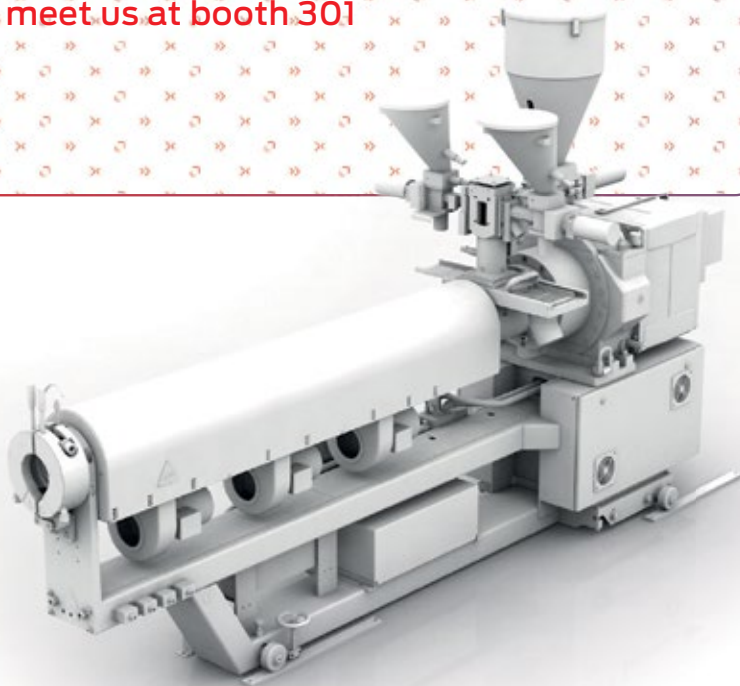
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This year's IWCS will feature Maillefer as a prominent exhibitor. The company will showcase its latest advancements and reaffirm its dedication to sustainability. A highlight of Maillefer's presence will be Mr. Jussi Hanhiova's presentation on the "Topography Scanner," a platform for groundbreaking ideas that will redefine industry standards. By combining cutting-edge technology demonstrations with this forward-thinking presentation, Maillefer is poised to shape the future of the industry. We are also excited to share our recent breakthroughs in autonomous buffering line development. Visit Maillefer at booth number 400 to explore these innovations firsthand and learn how progress.

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 Bismarckstrasse 4-10
 D-49324 Melle, Germany
 Website: www.melos-gmbh.com
 Tel: +49 54 22 94 47-0
 Emails: angela.ehrich@melos-gmbh.com,
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nina.kleinemenke@melos-gmbh.com
 Contacts: Angela Ehrich, Dennis Scherf,
 Nina Kleinemenke

Melos is a leading German company in the developing formulations for cable compounds that are used in various areas of applications: Installation, Aerospace, Marine, Green Energy, Automotive, Rolling Stock, Rapid Transit, Railways, Offshore or Shipbuilding. Melos Cable Compounds can be used for low, medium and high voltage cables. Since many decades Melos Cable Compounds are used worldwide. Modern processing machines and well-established processes lead to an economical and environmentally friendly way of manufacturing. The key strengths of Melos are the proven quality, a lot of experience in different markets, flexible logistics, high capacity and delivery reliability. Melos offers a range of thermoplastic and radiation crosslinkable sheathing and insulation materials under the brand MECOLINE, as well as bedding compounds under the brand FM for different types of cables. Melos actively develops new formulations for MECOLINE cable compounds which are used in a whole variety of different applications for insulation and sheathing applications. Flame retardant FM bedding compounds will significantly increase the flame retarding properties of the cable construction. For

this purpose, Melos has installed an own laboratory with sophisticated equipment and experienced R&D employees. Flame resistance of the entire cable construction is guaranteed by using appropriate formulations to meet stringent safety and environmental standards. Bedding compounds from Melos are halogen-free and environmentally friendly. In suitable designed cables, Melos bedding compounds acts as a perfect barrier preventing interaction (migration) between the sheathing and insulation. Modern production facilities in Melle, Germany allow Melos to manufacture numerous compounds according to customer specifications. All products are subject to stringent quality control and manufacturing procedures certified by independent institutes.

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See [Alphagary/Mexichem Specialty Compounds, Inc.](http://Alphagary/Mexichem%20Specialty%20Compounds,Inc)

MGS Group, The **401**
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 Rome, NY 13442-4259 USA
 Website: www.themgsgroup.com
 Tel: 315-337-3350
 Email: jpswinchatt@themgsgroup.com
 Contact: Jeff Swinchatt

The MGS Group is dedicated to providing its customers the highest level of automation and technology for product handling and twisting systems, customized to optimize individual applications, using comprehensive design and engineering capabilities, with equipment ruggedly built for decades of reliable, consistent service. The MGS Group is home and management arm for industry giants: MGS Manufacturing, Hall Industries and Northampton Machinery. Under The MGS Group guidance we have combined complimentary machinery businesses focusing on the wire, cable, fiber optic, hose, tube and related industries.

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 146 Log Canoe Circle
 Stevensville, MD 21666 USA
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Website: us.mitsubishi-chemical.com
Tel: 2487975771
Email: brent.westbrook@mcgc.com
Contact: Brent Westbrook

Mitsubishi Chemical Group is a specialty materials group with an unwavering commitment to lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet. We bring deep expertise and material science leadership to help our customers meet challenging requirements for wire insulation and sheathing. We leverage our advanced chemistry-based solutions, in collaboration with our customers, to solve today's material challenges and innovate for the future. Come visit us at booth #337, to learn more about OLEFISTA™, TEFABLOC™ and VINIKA™.

Nabaltec AG **313**
Alustrasse 50-52,
Schwandorf 92421 Germany
Website: www.nabaltec.de
Tel: +49 9431 53464
Email: schlotter.andreas@nabaltec.de
Contact: Andreas Schlotter

 Nabaltec AG, with registered office in Schwandorf, a chemicals business which has received multiple awards for innovativeness, manufactures, develops and distributes highly specialized products based on aluminum hydroxide and aluminum oxide on an industrial scale through its two product segments, "Functional Fillers" and "Specialty Alumina." The company's prod-

uct range includes eco-friendly flame retardant fillers and functional additives for the plastics industry. Flame retardant fillers are used e.g. in cables in tunnels, airports, high-rise buildings and electronic devices, while additives have applications in catalysis and in electric vehicles. Nabaltec also produces specialty oxides for use in technical ceramics, the refractory and polishing industries. Nabaltec maintains production sites in Germany and the USA and plans to continue to develop its market position by expanding capacity, further optimizing processes and quality and making strategic extensions to its product range. On the strength of its specialty products, the company strives to attain the market leadership in each segment.

Narwal Exports **134**
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Email: hasselberg@ocsservicegmbh.com
Contact: Simon Hasselberg

OCS is synonymous with customized and innovative solutions for quality control and quality assurance in the polymer and petrochemical industries. The services offered by OCS range from raw material inspection, surface testing and the production of advanced quality measurement systems to system integration and turnkey laboratory solutions.

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Monday, October 27 – Thursday, October 30, 2025 | Pittsburgh, PA, USA

[Refer to details on page 14.](#)



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 Email: info@optem.com
 Contact: Joan Beckett



OptEM Cable Designer software gives engineers the ability to design, calculate mass and cost, model, simulate and optimize copper cables to meet compliance requirements and certification. The software uses advanced electromagnetic analysis and mathematical modeling techniques to simulate the cable's electrical and propagation parameters (L, R, C, G, Zo, IL, RL, XT, TCTL) to check cable performance. Engineers can investigate cable behavior, test material effects and calculate cable mass and cost – all prior to prototyping and measurement – allowing companies to reduce prototype iterations and manufacturing cost. Come visit our booth and let us show you how OptEM Cable Designer can help you design right the first time and save prototyping costs.

Orion S.A. 206

1700 City Plaza Drive, Suite 300
 Spring, TX 77389, USA
 Tel: 832-445-3300
 Contact: Kevin Milks
 Email: Kevin.Milks@orioncarbons.com
 Website: www.orioncarbons.com

Orion S.A. offers a comprehensive portfolio of high-performance conductive additives which extend cable service life by imparting desired conductivities, superior surface smoothness and UV protection to medium- and high-voltage (HV) cables. The company's latest innovation is PRINTEX kappa 60 conductive additive, designed for polymer compounds and a strong choice for wire-and-cable applications.

Acetylene-based premium PRINTEX® kappa 100 BEADS delivers exceptionally high cleanliness, purity and conductivity to HV electric transmission cables. In addition, two new circular additives produced from tire pyrolysis oil match the performance of fossil-based specialty carbon black used in cable jacketing.

To increase acetylene black availability, Orion

broke ground April 9, 2024 on the only USA plant producing acetylene-based conductive additives. Located in La Porte, Texas, the plant is expected to begin operation during the second quarter of 2025. Orion, a leading global supplier of carbon black, produces the material to customers' specifications for tires, coatings, ink, batteries, plastics and numerous other specialty, high-performance applications. Carbon black is used to tint, colorize, provide reinforcement, conduct electricity, increase durability and add UV protection. A leading innovator, Orion applies a deep understanding of customers' needs to deliver sustainable solutions.

PolyChem Alloy®, Inc 334

240 Polychem Court
 Lenoir, NC 28645 USA
 Website: www.polychemalloy.com
 Tel: 828-754-7570, 828-292-3703
 Email: abarlow@polychemalloy.com
 Contact: Ashton Barlow

PolyChem Alloy® is a manufacturer and global supplier for a wide range of specialty compounds, concentrates and products specifically tailored to provide solutions for the wire and cable industry. Coupled with extensive know-how and cutting-edge technology, we develop innovated products of unsurpassed quality. Our products include: Environmentally safe blowing agents and nucleating agents for polyolefins core, Rodent repellent compounds for underground applications, Super adsorbent polymer for fiber optic cable, Foam concentrates for 100% closed cell applications, Pelletized impact modifiers for automotive and low temperature outdoor applications, Low-loss dielectric adhesive to bond PE foam core to metal substrates, and Antistatic masterbatches for polyolefins.

EXHIBITOR DESCRIPTIONS

Proton Products Inc 425
 9297 Jeronimo Road
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 Tel: 949-981-1909
 Email: grantlatimer@protonproducts.us
 Contact: Grant Latimer

Proton Products Group was founded in 2000 and is a privately-owned British company with an international customer base. Proton Products is a leading manufacturer of instrumentation and control equipment for use in industrial production. We continue to expand our product range with affordable, innovative technology which provides our customers with solutions that improve production capabilities and efficiency. Our products make use of advanced technologies including laser Doppler speed and length measurement, laser scanning diameter measurement, CCD diameter measurement, high-frequency induction preheating and digital control systems. Our dedicated and experienced team of professionals operate within a culture of continuous improvement and are firmly focused on developing innovative solutions and high-quality products backed with excellent service.

REELEX Packaging Solutions, Inc. 331
 39 Jon Barrett Road
 Patterson, NY 12563 USA
 Website: www.reelex.com
 Tel: 845-878-7878, 845-495-4141
 Emails: dtroy@reelex.com,
sales@reelex.com
 Contact: Dave Troy

REELEX will be attending the supplier exhibition at IWCS Cable & Connectivity Forum with a focus on REELEX® coiling machines and the latest packaging innovations. Exhibiting in booth 331, REELEX will have videos and other information on display to present REELEX coiling machines. REELEX will also exhibit physical examples of a variety of packaging available to low-voltage and fiber optic cable manufacturers, including the REELEX AIR® package. REELEX is a patented method of winding any flexible filamentary material into a precision-wound figure-eight coil. This unique coil dispenses from the inside-out without twists, tangles, snags or overruns and may be placed into a wide range of containers from cardboard boxes to shrink film to environmentally-sustainable packaging.

Roblon US Inc 329
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 Granite Falls, NC 28630 USA
 Website: www.roblon.com
 Tel: 828-326-2121, 828-326-2121
 Emails: jli@roblon.com, tm@roblon.com
 Contacts: Jamey Little, Tammy Wagner

The Roblon brand is considered the very embodiment of endurance when it comes to enhancing fiber solutions for a wide range of industries.

Rosendahl Nextrom 301
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 Claremont, NC 28610 USA
 Website: www.rosendahlnextrom.com
 Tel: 828-464-2543
 Email: anita.hennessee@rosendahlnextrom.com
 Contact: Anita Hennessee



AI data centers are booming worldwide. The electric vehicles of the future demand

new kinds of cables. And the power grid must keep up with all these developments. Rosendahl Nextrom supports these mega trends with new and improved solutions for the market.

Increasing production capacity: The demand for high-speed data infrastructures continues, as does Rosendahl Nextrom's R&D work in this area. The company offers production lines for fiber optic and copper cables, optimized for high-speed production and equipped with many standout features for scrap reduction, quality control, and automation. Rosendahl's high-temperature physical foaming lines can manufacture cables with unique properties. For the use in high-end applications, such as medical or aerospace technology, or AI data centers. Nextrom is revolutionizing preform manufacturing with a combination of Vapor Axial Deposition and Outside Vapor Deposition technologies tailored for producing large-sized preforms with the lowest operational expenses. Furthermore, the telecom fiber drawing process has been optimized to reach impressive speeds of up to 3500 m/min.

Accelerating e-mobility and energy transition: With batteries as the new energy source in modern cars, vehicle wiring is changing. New types of cables and wires are needed for both propulsion and power distribution. Recently, Rosendahl introduced the world's first turnkey extrusion line for hairpin insu-

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lation. It makes a safe and reliable power supply at 800+ possible and minimizes energy losses in electric board systems. Other solutions for the automotive industry include busbar insulation, high-end charging cables and high-performance data cables. Rosendahl Nextrom's sustainable concept for forming, welding and jacketing flexible materials and product sizes on a single production line is well-suited for connecting wind farms, photovoltaic farms and offshore projects to the power grid.

Innovating smart and responsibly: Along with high performance comes high responsibility. A major focus of Rosendahl Nextrom's efforts is the thoughtful use of materials, waste reduction, minimizing wear and enhancing energy efficiency. Their powerful line control offers a wide variety of possibilities to continuously improve production. ESG-compliant measurement of CO₂ and energy consumption has been added to Rosendahl Nextrom's smart portfolio, ready to support the green transition in the industry. In the field of telecom fiber drawing, Nex-

trum is leading the way towards more sustainable production: A Helium Recovery System recovers up to 90% of the used helium, effectively reducing dependence on this limited resource. The return on investment for this system can be achieved within a year, considering the current prices and availability constraints of helium. Additionally, the Nextrom Induction Furnace drastically cuts down on energy consumption.

Runaya Private Limited **124**
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 Email: avinash.kumar@runaya.com
 Contact: Avinash Kumar

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 2006 | EUROMADEM SPAIN
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 Phone: +55 54 3462 5600 - www.mademreels.com - sales@mademreels.com

IWCS INVENTORY HIGHLIGHTS



Rosendahl 500mm Ribbon Strander, 12+12
CBR1171



D-S 3.5" Fiber Sheath Line
EXPL498



Tensor SZ Strander
CBR1448



600/630 Northampton Triple Twister (6)
CBR1457.5



400mm N-M 12W Planetary Cabler
CBR1001



16" Tensor Dual Driven Fiber PO
PAY2474

- EXPL499 – 2½" **TEC** Optical Fiber Sheathing Line, 84" PO/TU
- EXPL492 – 4½" **Davis Std** Jacketing Line, 96" PO/TU
- EXPL469 – 4½" **Davis Std** Jacket Line, 2m **Skaltek** TU's, 36" Cat
- EXPL453 – 3½" **Davis Std.** Line w/ **MGS** Dual 36" TU, Vert Accum
- EXPL417 – 2" **Davis Standard** Hi Temp Extrusion Line, EKP800 TU
- EXPL416 – 3" **Viteck** Fiber Jacketing Line, 36" BWC
- EXRL44 – 3½"/3½" **Davis Std** Rubber Ext Line, **Clipper** PA-1000
- EXP1506 – 165mm **Davis Std**, 30:1 Extruder, Therm III, 150HP DC (2)
- EXP1504 – 1¼" **Merritt Davis** 24:1 Ext, 4.6kW AC Motor
- EXP1503 – 2½" **Davis Standard**, 24:1, Therm III Extruder, 50 HP DC
- EXP1495 – 2½" **Davis Standard**, 24:1, Mark VI Extruder, 40 HP AC
- EXP1488 – 4½" **Davis Standard**, 24:1, Thermatic III Extruder, 150HP
- EXP1475 – 1½" **Davis Standard**, 24:1, DS-15H Striping Extruder
- EXP1454 – 100mm **Davis Standard**, 230:1, Thermatic III, Air Cool
- EXP1439 – 3" **Davis Standard**, 24:1, Thermatic III Extruder, 60 HP DC
- EXP1430 – 1¼" **Davis Standard**, 24:1, Vertical Extruder, AC Drive
- EXP1416.1 – 100mm **Mallefer**, 24:1, Extruder, 156kW AC Motor
- EXP1388 – 2½" **Davis Std** Extruder, 24:1 Therm III 40HP DC, Port
- EXP1189 – 80mm **Nextrom**, 24:1 Extruder, 79.1 kW DC Motor
- EXP1092 – 4½" **Davis Std** Extruder, 24:1, Therm II, X-800 Liner
- EXP1066 – 3½" **Davis Standard** Extruder, 24:1, Thermatic III (3)
- EXR212 – 3½" **Davis Std** 15:1 Rubber Extruder, Therm III (3)
- TPR462 – **Nashoba** 3 Head Concentric Taping Line
- TPR449 – **Roblon** Concentric Taper/Binder, 2000 RPM
- TPR448 – 400mm **Queins** Dual Eccentric Taper, AB PLC, AC Motor

- TBR221 – 10" **Bartell** Tubular Strander, 6W, Outside, Model 6B64 (9)
- TBR220 – 6½" **Bartell** Tubular Strander, 18W, Outside, Model 18B62 (8)
- CBR1468 – 40" **Watson** 6W Planetary Cabler, 60" Dual Capstan
- CBR1456 – **Watson/Kinrei** 560mm Twinner, Model HK560R, Yr 2007
- CBR1453 – 36" **Cook**, BH-36, Single Twist Cabler, 600 RPM
- CBR1452 – 48" **Ceeco** Drum Twister, Open Fork, 30 HP AC
- CBR1449 – 30" **Cook** Single Twist Buncher, BH-30, 15 HP AC Inverter
- CBR1447 – 30" **Allard** Shaft Type, Flyer Arm Neutralizer
- CBR1446 – 36" **Cook**, BHO-36, Single Twist Cabler, 600 RPM
- CBR1442 – 630mm **Setic** Dual Reel Backtwist PO, DVD630HV
- CBR1437 – 24" **TEC** BackTwist PO (4 sets of 2), 800 RPM
- CBR1435 – 630mm **Setic** Backtwist Dual Payoff, Yr 2019, AC Vector
- CBR1426 – 24", 6W, **Watson** Planetary Cabling Line, PO/TU
- CBR1372 – 10" **Tensor** 6W Planetary Strander, Driven, Yr 2007
- CBR1371 – 16" **Nextrom** 36W Planetary Fiber Ribbon Strander
- CBR1369 – 630mm **Northampton** Double Twist Twinner, Model
- CBR1353 – 30" **Ceeco** Planetary Line, 12+18, Dual Ecc Taper, 84" TU
- CBR1339 – **Tensor** SZ Strander, 8 Plates
- CBR1330.2 – 36" **Cook** Single Twist Buncher, 600 RPM
- CBR1296 – 36" **Allard**, Single Twist Closer, Model STC-36
- CBR1279 – 630mm **Krupp** Rigid Stranding Line, 12+18, N-M 2.6m TU
- CBR1273 – 72" **Ceeco/Nextrom** Drum Twisting Line, Yr 2000
- BIN238 – 400mm **Roblon** Taper/Binder, Model TBX400, Yr 2007
- BIN237 – **TEC** 15x15 Pos Aramid Fiber Server, Mech Tension
- BIN217 – **Tensor** Dual Concentric Binder, Model BC-4000-DSRL (NEW)

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Saint-Gobain Tape Solutions 107

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Tel.: 773-225-4986
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NA Marketing Communications Manager
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Saint-Gobain® is a global leader in high-performance, technology-driven materials. Through our ability to provide proven products, customized solutions, and complete systems, we serve customers across a diverse array of sectors, including aerospace, automotive, defense, communications, construction and beyond. Our one-stop shop provides a wide product offering in the market to meet wire and cabling challenges you face. The spirit of collaboration and co-development that sets our partnerships apart serves as the basis of trusted relationships that inspire truly innovative possibilities. Our wide network of facilities offers you a peace of mind and security of supply. Our Norgard™ products center around advanced films and fabrics, with expertise in providing fluoropolymer-based films, fabrics, composites and tapes serving as safe, high temperature-resistant, protective barriers. Norgard™ products provide you with solutions that offer excellent dielectrics in demanding extreme conditions for high temperature cabling, with the ability to develop products designed specifically for your needs.

Service Thread 432

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Contact: Steve Zande



Service Thread designs, develops and manufactures binders, ripcords, strength members and fillers from aramid, polyester, nylon, polypropylene and other specialty fibers. Our products are designed for wire and cable and are available with water blocking, non-wicking, abrasion resistant and other properties as needed. In our manufacturing process we ply, twist, treat and wind a variety of textile yarns. Through our own processes, we have become experts in package design, controlling yarn tension and other variables that can affect our customer's application of the yarns into their manufacturing process. We work with our wire and cable customers, sharing our yarn processing techniques, often resulting in faster processing speeds with less waste. Our goal is not to simply sell yarn products, but to offer a full service experience. We don't send out a catalogue of products and encourage you to buy today; we want to talk to you to learn about what you are using, why you are using it and how it fits into your cable. Our goal is to provide our wire and cable customers value beyond what you may be receiving now, and to help the industry with innovation in products and processes.

Shaowu Yonghe Jintang New Materials Co., Ltd. 335

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Shaowu Yonghe Jintang is one of the subsidiaries of Yonghe Group which is a public listed group company boasting complete and comprehensive fluorochemical production line ranging from fluorospar mining to fluoropolymers. The product line includes FEP resin, PFA resin, PTFE fine powder and PVDF resin with registered trade name Niflon®, FEP, PFA and PVDF resins, with their extraordinary performance, are ideal choice for wire and cable industry as insulation and jacket material. Our main product FEP Grade EW-511 and EW-521 is now widely used for CMP data cable in North America market. Visit booth 335 for more details.

Shresht Composites Inc. **119**
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150 Huddleston Road, Suite 1300
Peachtree City, GA 30269 USA
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Email: sales@sikora-usa.com
Contact: Haylee Milligan







SIKORA, a manufacturer and supplier of advanced measuring, control, inspection, analysis and sorting technology, will be at IWCS booth 225. Visitors will have the opportunity to see a variety of online

measuring and control systems that ensure quality control and process optimization in the wire, cable and optical fiber markets. SIKORA will display the CENTERVIEW 8000, which measures the diameter, ovality and eccentricity of jacketed wire up to 1" in diameter. For precise diameter and ovality measurement, in conjunction with lump detection, SIKORA features the highspeed LASER LUMP 2000 series. Other highlights at SIKORA's booth include the FIBER 6000 series for quality control of optical fibers in the drawing tower. These comprise of gauge heads for measuring the fiber diameter, temperature, tension and concentricity of the fiber coating, as well as for the detection of lumps and neckdowns on the surface of the coated fiber.

Submarine Telecoms Forum **328**
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Email: Knielsen@subtelforum.com
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Submarine Telecoms Forum is the leading digital platform for submarine cable industry insights, offering a dedicated e-magazine, daily news feed and streaming video content.

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Syensqo is excited to announce the construction of a new Solef PVDF plant in the USA, alongside expansion plans in Europe and Asia. Learn more about our PVDF portfolio and discover new industry specific solutions featuring high-performance and high-temperature polymers for jacketing and insulation.

Syscom Advanced Materials **332**
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 Contact: Eric Krinsky

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Teknor Apex

213

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moliver@teknorapex.com
Contact: Jon Mello, Melanie Oliver

For 100 years, industry partners have trusted global plastics compounder Teknor Apex for customized process solutions and new applications. The Teknor Apex portfolio boasts one of the broadest ranges of UL-recognized thermoplastic insulation and jacketing compounds for the wire and cable industry, including:

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- Fireguard® low-smoke, highly flame-retardant PVC for copper and optical fiber data cables for plenum applications.
- Apex® flexible and semi-rigid PVC for appliance wire, building wire and control cables.

A family-owned company since 1924, Teknor Apex continuously innovates and raises the benchmark for extrusion and molding solutions in the wire and cable industry. The superior performance and excellent processing characteristics of our products prove our commitment to your success — and the people, products and partners that have made us a market leader. Stop by booth #213 to talk over your challenges and help us celebrate 100 years!

Tensor Machinery Ltd

207

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ken.luterbach@tensormachinery.com
Contacts: Jennifer Martin-Kepes, Ken Luterbach

Tensor Machinery Ltd. has been a designer and builder of process equipment for the wire and cable industry for decades. Tensor Machinery provides a wide range of equipment to manufacture fiber optic and copper cables from individual components to complete turnkey manufacturing lines. Our typical products include UV Coloring lines, Ribbon Fiber

manufacturing, SZ and Planetary Stranding, Payoffs and Take-ups, Tape Armoring, Yarn Serving and complete Jacketing lines for Indoor and Outdoor cable products. The Tensor equipment uses the latest in mechanical, electrical and electronic technology and is engineered to withstand the daily demand placed on it by production.

Testmach Intech Llp

324

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Email: Prashant.Patil@Testmach.Net
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We design, manufacture and export a wide range of customized mechanical testing equipment. Our machines are used in quality control (QA/QC), and testing and evaluation for various industries including the following:

- Cables manufacturers (OFC/ADSS/OPGW/ oatch code/FTHH).
- Conductor manufacturers (conventional / HTLS).
- HT-LV/MV/EHV/power/covered conductor/telephone/instrumentation cables.
- Wire and rod, spring wire/insulator/ FRP/hardware.

Thermoplastics Engineering Corporation (TEC)

227

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Contact: Benjamin Roberts



TEC was formed in the summer of 1986 in Leominster, Massachusetts and has been providing quality machines to customers ever since. Thermoplastics Engineering Corporation is a trusted supplier of

Extruders, Cablers, Respoolers, Payoffs and Take-ups, and many other types of Wire, Cable, Extrusion and Fiber Optic machinery. We create standard and custom machinery to your specifications using experience and a knowledgeable staff of industry professionals. Our staff of experienced mechanics, engineers, electricians, programmers and machinists are capable of building quality machinery, and our sales team is eager to assist you in

selecting the correct machines for your application. Our overall goal is to help you find the best solution to your production needs. TEC has designed components for Wire and Cable, Fiber Optic, Tubing and profile Extrusion markets.

UL Solutions **110**
 333 Pfingsten Rd
 Northbrook, IL 60062 USA
 Website: www.ul.com



A global leader in applied safety science, UL Solutions (NYSE: ULS) transforms safety,

security and sustainability challenges into opportunities for customers in more than 100 countries. UL Solutions delivers testing, inspection and certification services, together with software products and advisory offerings, that support our customers' product innovation and business growth. The UL Mark serves as a recognized symbol of trust in our customers' products and reflects an unwavering commitment to advancing our safety mission. We help our customers innovate, launch new products and services, navigate global markets and complex supply chains, and grow sustainably and responsibly into the future. Our science is your advantage.

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Wardwell Braiding Co. **205**
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 Tel: +1 401 7248800
 Email: sales@wardwell.com



The Wardwell Braiding Co. is a leading supplier of braiding equipment. Since the company's founding in 1911, Wardwell has continually introduced advanced technologies to maximize the braiding process. Over a century later, Wardwell's product line includes spiraling, re-winding, payoff and wind-up equipment. Braiders are available in 16 and 24 Carrier sizes in high-speed rotary style, 3-144 carriers in maypole style and 16-72 carriers for electrical harness applications. Integrated or standalone payoffs and take-ups are available for reels ranging from 355 mm to 2000 mm. Wardwell offers semi-automatic re-winders with 2, 3 and 4 spindles, and fully automatic and wire-splitting styles are available through Spirka, with static and dynamic payoffs to match. Wardwell's superior service program includes training, assistance with commissioning and start-up, and annual service contracts to evaluate equipment, perform PM and troubleshooting to keep your equipment in top running condition.

Web Industries **233**
 293 Boston Post Rd W Suite 510
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 Website: www.webindustries.com
 Tel: +1 508-573-7979
 Email: sales@webindustries.com
 Contact: Jim Evans,
 Business Development Manager

Web Industries Adds New Products to Wire and Cable Portfolio: Laminated Shielding Tapes, PET Core Wraps Among New Offerings. Web Industries Inc. has added new laminated shielding tapes, PET core wraps and water-blocking tapes to its lineup of solutions for wire and cable manufacturers in the telecommunications, energy, power and other industries. Applications include data cables and low- and medium-voltage cables.

The precision converter and contract manufacturer will showcase these and other new products, including polyester tapes and higher-capacity, wider-format spooling capabilities, at IWCS 2024, the Cable and Connectivity Industry Forum, Oct. 14-17 in Providence, RI, Booth 233.

New Shielding Tapes and Core Wraps: The new laminated shielding tapes feature a polyester and aluminum foil construction, made to precise tolerances. The PET core wraps can be supplied in for-

mats from 0.5 mil to 5 mil thickness.

Large-Format Spooling: Labor Savings, Efficiency Gains. Web Industries offers extra-large traverse wound spools of core wraps and other tapes. Its latest spooling technology yields spools up to 24 inches wide, holding up to 200,000 linear feet of PET core wrap or shielding tapes. Major benefits of large-format spooling are labor savings and run-time consistency. For more information, visit the company's website or call 508-573-7979.

Wire & Cable Technology International (WCTI)

130

1741 Akron Peninsula Road
Akron, OH 44313 USA

Website: www.wiretech.com

Tel: 330-864-2122

Email: alex@wiretech.com,
mike@wiretech.com, mcnulty@wiretech.com

Contact: Alex Lippincott, Mike Dies,

Mike McNulty

Wire & Cable Technology International

International

Wire & Cable Technology International, the Official Magazine of the IWCS Cable & Con-

nectivity Industry Forum, is a leading worldwide technical magazine, covering the production, processing and use of communications, electrical and mechanical wire and cable as well as wire harnesses and cable assemblies. The magazine is published six times per year, in both print and digital editions, and it is distributed to wire and cable industry professionals in more than 100 countries. Additional publications include the annual Buyer's Guide, the monthly OVERVIEW business and marketing enewsletter and the IWCS Supplier Exhibition Directory.

Wire and Plastic Machinery Corp.

113

100 Franklin Street, PO Box 2928
Bristol, CT 06011 USA

Website: www.wireandplastic.com

Tel: 774-721-1185, 860-689-2671

Emails: emacs@wireandplastic.com,
rsachdev@wireandplastic.com

Contacts: Erik Macs, Rahul Sachdev



With over 30,000 items of machinery in stock and eight warehouses, Wire & Plastic Machinery Corp. is the largest supplier of used wire and cable equipment in the world. Wire & Plastic Machinery Corp. is actively engaged in purchasing high-quality used equipment for stock to offer its customers a one stop selection. The equipment is sold either in its original state or after mechanical and electrical refurbishing, to today's standards. A wide range of equipment is available for producing almost all cable types such as fiber optic, low-voltage cables, data cable, automotive, power and specialized electrical cables. Categories include Barrel Packers, Binders, Bobbin Winders, Braiders, Capstans, Caterpullers, Coilers, Dancers, Extruders (Plastic and Rubber), Extrusion Lines, Granulators, Motors, Optical Fiber Equipment, Ovens, Payoffs, Preheaters, Printers, Reels, Rewinders, Rotating Equipment, Screws, Strippers, Strippers, Takeups, Tapers, Testers, Tubular Stranders, Welders and Wire Drawing.

Booth personnel at the IWCS in Providence, RI on October 14-17, 2024 will include Rick Narang, Rahul Sachdev, Erik Macs and Greg Malcervelli. Video displays as well as website access will provide viewing of our entire current online inventory.

Wire Association International/ Wire Journal

426

71 Bradley Road Suite 9
Madison, CT 06443 USA

Website: www.wirenet.org

Tel: 203-458-7578

Email: stimme@wirenet.org

Contact: Shannon Timme

The Wire Association International (WAI), Inc., founded in 1930, is a worldwide technical society for wire and cable industry professionals. The Wire Association International is the official trade-show organizer of the WAI Operations Summit & Wire Expo and Interwire trade shows that promote products and services to the global wire and cable marketplace. The Wire Association International's official website, wirenet.org, hosts the online Industry Search, a database and search engine housing over 3200 company profiles.

EXHIBITOR DESCRIPTIONS

Wire Journal International and the annual WJI Reference Guide are WAI's official publications, and the monthly "Off the Press" e-newsletter is the official newsletter. WAI also produces technical products, including HardWIRED educational videos and a host of technical handbooks, webinars, and DVD's. Stream WAI videos and past webinars on the WAI YouTube channel.

Zumbach Electronics Corp. 135
140 Kisco Ave
Mount Kisco, NY 10459 USA
Website: www.zumbach.com
Tel: 914 241 7080
Email: JLage@zumbach.com
Contact: Jorge Lage

Zumbach offers measuring solutions for wire drawing, enamelling and coating processes. Our measuring solutions can help you improve your production of high frequency cables, signal and control cables, energy cables and much more. With Zumbach measuring systems, measuring values can be displayed, monitored and controlled directly in real time during the production process. This enables you to perform constant quality assurance during production. The optimization is based on a continuous statistical analysis with which the process is optimized to reach its full potential, taking into account any machine instabilities that might exist.

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SINCE 1984



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Tensor Machinery is built on a commitment to advanced design, innovation, quality and a higher standard of engineering. It's what our founder George Kepes believed in, and the legacy that drives us today.

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Get Tensor Machinery's 40 years of innovative engineering working for you, and discover the difference doing it better makes.

Connect with us at IWCS 2024!
Booth 207

sales@tensormachinery.com tensormachinery.com



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Wire & Plastic Machinery Corporation
100 Franklin Street
Bristol, CT 06010
tel: +1-860-583-4646
info@wireandplastic.com

SEE US IN BOOTH 113

wireandplastic.com

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- ✓ Automatic Calibration with Clinton's STCAL System!

Clinton
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Shown with Optional Horn/Light tower

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The mission of **Huestis Industrial** is to develop, manufacture and market reliable, cost effective industrial equipment. This mission is supported by the company's dedication and commitment to quality. Each individual employee, at every level, takes responsibility for the company's success by respecting and understanding each other's role and its impact on Huestis customers. Our success is dependent on delivering the highest quality product at an affordable price to meet the customer's full expectation.

- Air Wipes • Enclosures
- Take-Up Stands • Adjustable Payoff Stands
- Shaftless Payoff Stands • Buncher Payoff Stands
- Cable Jacket Strippers
- Spooling/Coiling Equipment
- Cold Pressure Welding
- Length Meters



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Huestis products have earned a reputation for dependability and rugged design. This success is a result of practical, innovative engineering and extensive in-house machining and assembly facilities including the most current CNC turning, milling, drilling and automated machining equipment.

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E-Mail: sales@huestis.com
Web Site: www.huestisindustrial.com



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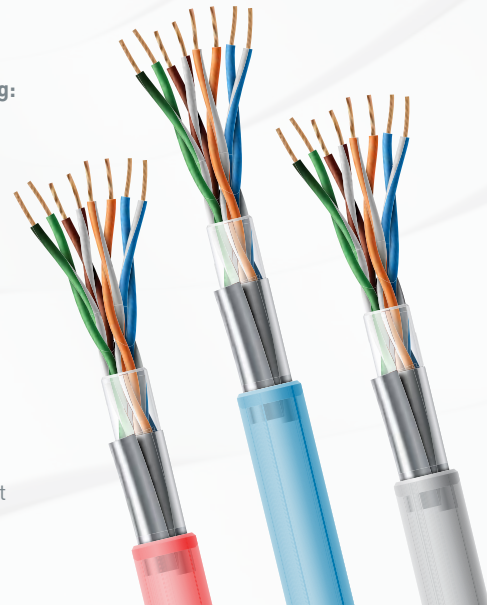
Superior Plenum Compounds for Wire & Cable Applications

Aurora Material Solutions manufactures a wide variety of advanced polymers, custom thermoplastics and compounds; and we set the industry benchmark for product quality, R&D and customer service. Aurora Material Solutions supplies the wire and cable industry with a complete line of thermoplastic compound solutions, including thermoplastic CPE, PVC alloys, LSZH, FPVC and TPEs. Our products provide the performance characteristics you need, backed by the service and delivery you demand.

Our plenum compounds offer the best in fire-resistant properties for wire and cable. **They offer many benefits over competitive materials, including:**

- › **Easy processing** – smooth extrusion, consistent material flow, minimal equipment wear and highly efficient manufacturing.
- › **Colorability** – using less filler, our plenum compounds provide vibrant pigmentation that meet stringent aesthetic and identification requirements without compromising material performance,
- › **Temperature resistance** – our compounds have operating temperature ratings of 75-90°C, with various options that ensure reliable performance and safety.
- › **Ideal for use in both wire insulation AND wire jacketing**, a rarity in the industry.
- › **UV-resistant compounds** are available.

In addition, Aurora Material Solutions plenum compounds boast the lowest smoke generation in the industry, reducing the risk of inhalation and improving visibility in emergency situations.



At Aurora Material Solutions, our compounds are not only laboratory tested, but field proven with an outstanding performance record. We continue to push the latest technology envelope of compounding techniques with a culture of continuous improvement. We are committed to being our customers' first choice in polymer solutions. At Aurora, we believe in People. Partners. Possibilities., providing you high-quality polymers, industry-leading service, and customized solutions.

Visit us at
Booth #218
and let's partner
together!

VISIT US AT BOOTH 218

PRODUCT SHOWCASE

Excelitas Technologies® Corp., the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets, will display its high-performance, specialty lighting products for UV curing from its Noblelight®, OmniCure® and Phoseon® brands.

The LightHammer® Mark III for fiber and cable is the latest generation “smart” microwave-powered system with a secondary reflector. The IoT-enabled Mark III system includes a 10-inch-wide intelligent irradiator (lamp module), electrodeless bulb and solid-state power supply.

OmniCure AC9300P LED Large-Area UV Curing Systems deliver over 14 W/cm² peak irradiance making it ideal for cable marking and ribboning. The high-performing, air-cooled AC9300P offers enhanced optics for fast uniform curing at short working distances.

OmniCure AC8225-F+ and AC9225-F UV LED Curing Systems are designed for fiber curing applications, featuring a custom optical design to enhance output and optimize delivery of UV onto the fiber. The AC8225-F+ delivers up to 16 W/cm² peak irradiance at a 10-18 mm working distance, while the AC9225-F offers up to 22 W/cm² peak irradiance to optimize performance at high process speeds.

Phoseon Fiber Curing Systems consist of a high intensity UV LED light source, which cures the coatings protecting the glass fibers, along with a Fiber Reflector Unit (FRU) to direct the UV energy around the circumference of the fiber. The UV LED light source and FRU are enclosed in an IP52 enclosure, protecting the system from liquid spills.

Visit us at Booth #201 during the 2024 IWCS Cable & Connectivity Industry Forum. www.excelitas.com



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PRODUCT SHOWCASE

TEC was formed in the summer of 1986 in Leominster, Massachusetts and has been providing quality machines to customers ever since. **Thermoplastics Engineering Corporation** is a trusted supplier of Extruders, Cablers, Respoolers, Payoffs and Takeups, and many other types of Wire, Cable, Extrusion and Fiber Optic machinery. We create standard and custom machinery to your specifications using experience and a knowledgeable staff of industry professionals. Our staff of experienced mechanics, engineers, electricians, programmers and machinists are capable of building quality machinery, and our sales team is eager to assist you in selecting the correct machines for your application. Our overall goal is to help you find the best solution to your production needs. TEC has designed components for Wire and Cable, Fiber Optic, Tubing and profile Extrusion markets. Whether you need complete extrusion or cabling lines, need to add an individual piece of equipment to existing line, TEC will find the right solution for you. Products include:

**EXTRUDERS – VERTICAL EXTRUDERS, HORIZONTAL EXTRUDERS,
WATER RECIRCULATING/COOLING**

**CABLERS – SINGLE-TWIST, DOUBLE-TWIST, ROTATING CRADLE,
DOUBLE-TWIST TWINNERS**

**PAYOFFS/TAKEUPS – PINTLE/SHAFT TYPE, MULTI-STATION
RESPOOLERS**

**DANCER/ACCUMULATORS – VERTICAL & HORIZONTAL
ACCUMULATORS, BELT PULLER CAPSTANS, BELT WRAP CAPSTANS,
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**TAPING/BINDING/FIBER – TAPING AND BINDING HEADS, ARAMID
FIBER SERVERS, CORE NEUTRALIZING, NEUTRALIZING PAYOFFS**

**CONTROL SYSTEMS – EXTRUSION & CABLING LINES,
TENSION & SPEED CONTROL SYSTEMS**

**Thermoplastics Engineering Corporation (TEC), Booth 227
11 Spruce Street, Leominster, MA 01453 USA
Ph: 978 537 8135, (800) 241 4311, Fax: 978 537 5484
Contact: Benjamin Roberts, broberts@thermoplasticseng.com
sales@thermoplasticseng.com • www.thermoplasticseng.com**



VISIT US AT BOOTH 227

PRODUCT SHOWCASE

Kuraray supplies the wire and cable industry with VECTRAN® LCP fibers in HT (high strength) and UM (high modulus) grades. LCP fibers are stronger than para-aramids, with superior flex fatigue and abrasion resistance. In addition, they have near-zero moisture content, eliminating a frequent cause of blistering during high-speed extrusion of polymer cable jackets. LCP fibers are used in many specialty cable and umbilical applications demanding durability in high-stress dynamic end uses. In addition to high-performance fibers, Kuraray also produces SEPTON™ and HYBRAR™ thermoplastic elastomers. TPEs and modified blends can be extruded for protection, vibration damping, added grip and other user-defined attributes.

Please contact **Forrest Sloan** (forrest.sloan@kuraray.com) for information on VECTRAN® fibers and other Kuraray products. Visit www.kuraray.us.com. Visit us in IWCS Booth 429.

kuraray



VECTRAN® spools from Kuraray America.

**Kuraray America, Inc. – Vectran Fibers Division • 460-E Greenway Industrial Drive • Fort Mill, SC 29708 USA
Tel: (803) 396-7350 or (804) 654-0010 • E-mail: forrest.sloan@kuraray.com • Web Site: www.kuraray.us.com**

Rosendahl Nextrom offers production lines for fiber optic and copper cables, optimized for high-speed production and equipped with many standout features for scrap reduction, quality control and automation. Rosendahl's high-temperature physical foaming lines can manufacture cables with unique properties. For the use in high-end applications, such as medical or aerospace technology, or AI data centers. Nextrom is revolutionizing preform manufacturing with a combination of Vapor Axial Deposition and Outside Vapor Deposition technologies tailored for producing large-sized preforms with the lowest operational expenses.

Recently, Rosendahl introduced the world's first turnkey extrusion line for hairpin insulation. It makes a safe and reliable power supply at 800+ possible and minimizes energy losses in electric board systems. Other solutions for the automotive industry include busbar insulation, high-end charging cables and high-performance data cables.

A major focus of Rosendahl Nextrom's efforts is the thoughtful use of materials, waste reduction, minimizing wear and enhancing energy efficiency. Their powerful line control offers a wide variety of possibilities to continuously improve production. ESG-compliant measurement of CO₂ and energy consumption has been added to Rosendahl Nextrom's smart portfolio, ready to support the green transition in the industry. An AI-based process control further improves process stability and product quality for datacom cables. Nextrom is leading the way towards more sustainable production: A Helium Recovery System recovers up to 90% of the used helium, effectively reducing dependence on this limited resource.

Rosendahl Nextrom • Booth 301 • www.rosendahlnextrom.com



Clockwise from top left: Rosendahl's hairpin extrusion with a newly developed flat crosshead, Nextrom's preform lab in Vantaa, Nextrom's induction furnace for optical fiber preforms and Rosendahl's newly installed loose tube laboratory line in Pischelsdorf.



PRODUCT SHOWCASE

Guill Tool & Engineering is the global leader in extrusion tooling. Single and multi-layer dies for extrusion wire and cable assemblies of all types. Die carts and accessories, too.

All Guill products are designed, engineered, manufactured, assembled and fully tested in our factory, located in West Warwick, Rhode Island. We actively partner with extruder manufacturers, and we sell worldwide through our network of reps.

Standard and custom designs are available to meet your requirements, from fine gauge wire for electronics up to automotive harnesses, fiber optic and undersea cable.

Guill Tool & Engineering

10 Pike St., West Warwick, RI 02893, USA



Guill

Contact: Tom Baldock • Email: tbaldock@guill.com
Website: www.guill.com

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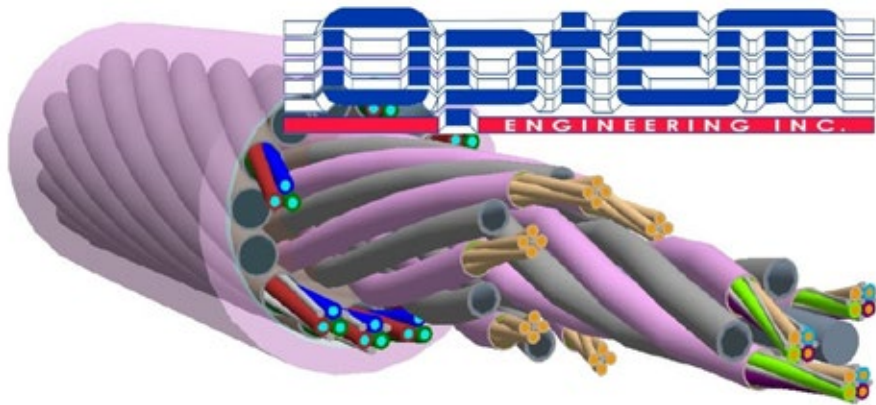
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PRODUCT SHOWCASE



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 1-403-289-0499

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OptEM Cable Designer Software

Model, Simulate & Optimize Copper Cable Design to Meet Compliance Requirements & Certification

Easy to Use Software Interface

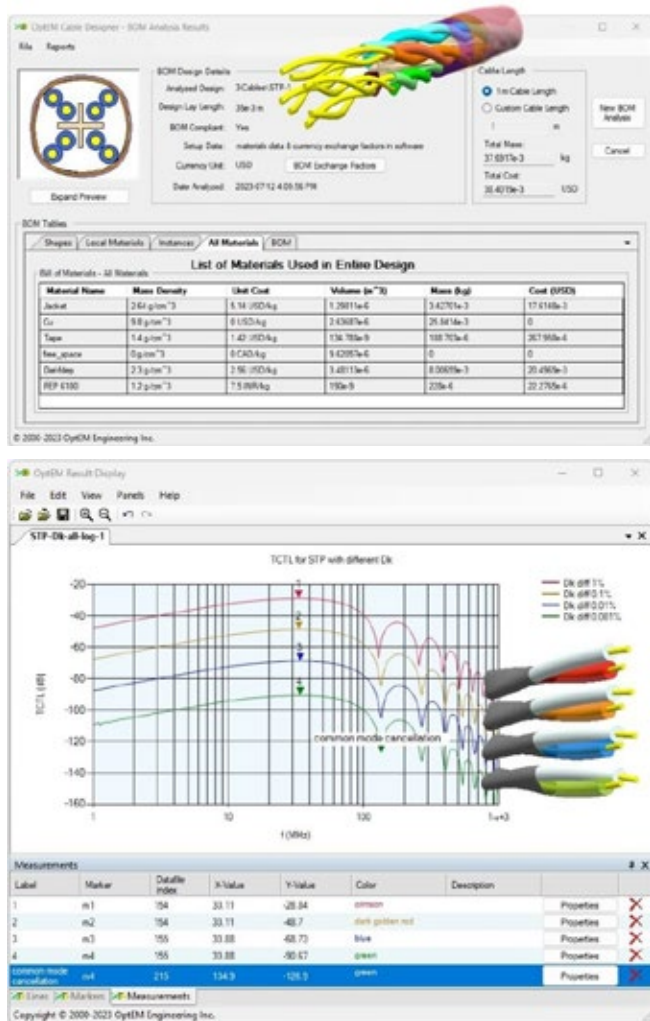
- Draw cable components and combine shapes to create specialized structures
- Auto-place components for a hierarchical cable construction in 2D and 3D modeling views
- Define pair lay lengths for accurate category cable twisting and geometry
- Built-in library of materials has plated conductors, and foamed and frequency-dependent dielectrics
- Add your own materials to the library to investigate how different materials affect cable performance
- 3D modeling allows auto-stripping, transparency and continuous 3D model rotation to view the internal cable layers, twists, and outside model perspective
- Setup your simulation to define an automated script that, with just one click, analyzes your cable and generates a set of pre-selected output reports and plots

Bill of Materials (BOM) With Cable Mass & Cost

- BOM module performs detailed 3D integration of volume and surface area (required for plated materials) to accurately calculate cable mass and cost
- Pair lay lengths are included in calculations since twisting adds length to wires and subsequently adds mass and cost
- BOM results presented as tables in the software and saved independently as HTML and Excel reports

Accurate Electromagnetic (EM) Analysis

- Advanced EM analysis and mathematical modeling techniques used to simulate the cable's electrical and propagation parameters (L, R, C, G, Zo, IL, RL, XT, TCTL)
- EM solver accurately analyzes high frequency skin and proximity effects in wires, eddy currents in shields, and dielectric losses in insulation
- Automated plotting module has features for placing markers, taking measurements and data scaling which allow comparisons between simulated, measured and compliance data together on one plot for a pass/fail view



Reduce prototype iterations & manufacturing costs today with OptEM Cable Designer!

PRODUCT SHOWCASE

When you are searching for the best way to mark your wire and cable, you need a company that will focus on your unique needs. A company with a talent for understanding your processes and the resources to create practical solutions. Since 1952, **Gem Gravure Co, Inc.** has been providing superior printing technology for jacketed wire and cable as well as wire harness.

It started with GEM's original patented process for gravure marking wheels and expanded to continuous ink jet (CIJ). Messages went from static to variable. While contact markers and wheels remain a high-speed solution for many customers, ink jet coding is GEM's strength. GEM is the exclusive representative for **KBA-Metronic** in the United States, Canada and the borders of Mexico. KBA-Metronic is based in Germany. The KBA-Metronic alphaJET® printer is one of the most reliable, eco-friendly ink jet printers available. A solvent recovery system is built into each alphaJET unit, reducing make up consumptions to low eco-friendly, budget-friendly rates.

GEM ink jet inks range from heavy pigmented opaque to soft pigmented to dye-based inks. This range allows customers to select bright opaque codes, codes resistant to automotive solvents or dye-based codes that resist transfer. GEM's staff of expert chemists design fluids specifically for the needs of the customer. A full line of low VOC and VOC exempt inks are available.

Visit Gem Gravure in Booth 428



Gem Gravure Co. Inc.

112 School Street

Hanover, MA 02339, USA

Tel: +1 781 878 0456

Fax: +1 781 871 3264

Email: info@gemgravure.com

Website: www.gemgravure.com



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- Building Wire
- CATV
- Apparatus & Cord
- Hybrid Cables
- PoE
- Plenum

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- Bio-based solutions

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- Better Standard Quality
- Cost Competitive
- Sustainable Solutions
- Investing in the Future

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[GEON.com/markets/wire-cable](https://www.geon.com/markets/wire-cable)

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Performance Solutions

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An Orbia business.

general resins, specialty resins, compounds and additives for vinyl compounds, primarily stabilizers and plasticizers. The group also provides compounds formulated from polyolefin (PO), thermoplastic polyurethane (TPU) and thermoplastic elastomer (TPE) polymers. Products made from these materials find functional value in our every-day lives from underground pipes to wallcovering and flooring, communications cables, interior automotive parts, various consumer goods and healthcare and food contact products. The business group supplies Orbia's downstream businesses and a global customer base.

www.alphagary.com

Booth 101

Orbia's Polymer Solutions business group and businesses Vestolit and Alphagary provide polyvinyl chloride (PVC)



Covestro is one of the world's leading manufacturers of high-quality polymer materials and their components. With its innovative products, processes and methods, the company helps enhance sustainability and the quality of life

in many areas. Covestro supplies customers around the world in key industries such as mobility, building and living, as well as the electrical and electronics sector. In addition, polymers from Covestro are also used in sectors such as sports and leisure, telecommunications and health, as well as in the chemical industry itself.

The company is geared completely to the circular economy. In addition, Covestro aims to achieve climate neutrality for its Scope 1 and Scope 2 emissions by 2035, and the Group's Scope 3 emissions are also set to be climate neutral by 2050. Covestro generated sales of EUR 14.4 billion in fiscal year 2023. At the end of 2023, the company had 48 production sites worldwide and employed approximately 17,500 people (calculated as full-time equivalents).

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www.chemours.com

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CommScope is a global leader in connectivity solutions for communications networks. We provide infrastructure solutions for wireless, business enterprise, residential broadband and carrier wire line networks with industry-leading brands such as Andrew®, SYSTIMAX® and HELIAX®. Founded in Hickory, North Carolina more than 30 years ago, CommScope and its worldwide team of more than 13,000 employees create infrastructure solutions for communications networks in more than 130 countries.

www.commscope.com

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For more than 170 years, Corning has combined its unparalleled expertise in glass science, ceramics science, and optical physics with deep manufacturing and engineering capabilities to develop life-changing innovations and products. Since ushering in the telecommunications revolution with the invention of low-loss optical fiber in 1970, our Optical Communications segment has been continually innovating to increase the speed and capacity of optical fiber networks, while providing innovations that make deployment easier and more cost effective. Today, we are delivering optical communications solutions for growing segments like outdoor and indoor 5G networks and hyperscale data centers.

www.corning.com



Dow, an Official Materials Innovation Sponsor of IWCS, has been a respected supplier

of telecommunications insulation, jacketing and FOC component materials for over 40 years. Using our versatile lineup of AXELERON™ Telecom Cable Compounds and deep understanding of material science, we partner with others throughout the value chain to translate unmet end-user needs into innovative and high quality solutions that help support sustainability efforts. As the global demand for connectivity continues to grow and evolve, we're both thrilled and appreciative to be part of this exciting industry.

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Huber Advanced Materials is your trusted global leader in innovative and

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www.huberadvancedmaterials.com

Booth 100

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Prysmian is a global cabling solutions provider leading the energy transition and

digital transformation. By leveraging its wide geographical footprint and extensive product range, its track record of technological leadership and innovation, and a strong customer base, the company is well-placed to capitalize on its leading positions and win in new, growing markets. Prysmian's business strategy perfectly matches key market drivers by developing resilient, high-performing, sustainable and innovative cable solutions in the segments of Transmission, Power Grid, Electrification and Digital Solutions.

Prysmian is a public company listed on the Italian Stock Exchange, with almost 150 years of experience, about 30,000 employees, 108 plants and 26 R&D centers in over 50 countries, and sales of over €15 billion in 2023.

www.prysmian.com



Teknor Apex features a full range of thermoplastic insulation and jacketing compounds for wire and cable applications - Apex® flexible and semi-rigid PVC for appliance wire, building wire and control cables; Fireguard® low smoke, highly flame retardant PVC for copper and optical fiber data cables; Flexalloy® PVC elastomers for robotics, industrial cables, EV charger cables and flexible cords; Halguard® low smoke, halogen free flame retardant compounds capable of meeting applicable UL and EU CPR requirements for infrastructure cables. Our portfolio includes one of the broadest ranges of UL Recognized wire and cable compounds in the industry.

www.teknorapex.com

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A global leader in applied safety science, UL Solutions transforms safety, security and sustainability challenges into opportunities for customers in

more than 100 countries. UL Solutions delivers testing, inspection and certification services, together with software products and advisory offerings, that support our customers' product innovation and business growth. The UL Certification Marks serve as a recognized symbol of trust in our customers' products and reflect an unwavering commitment to advancing our safety mission. We help our customers innovate, launch new products and services, navigate global markets and complex supply chains and grow sustainably and responsibly into the future. Our science is your advantage.

www.ul.com

Booth 110



Smart Link Better Life.

Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC) (Stock Code: 601869.SH, 06869.HK) is a global leading

provider of optical fibre preforms, optical fibres, optical fibre cables and integrated solutions. YOFC mainly produces and sells all kinds of communicational optical fibre preforms, optical fibres, optical fibre cables and different types of optical transceivers, specialty optical fibres, active optical cables, and submarine cables, RF coaxial cables and accessories, etc. YOFC is also equipped with some solutions and services such as system integration and communication engineering design. Providing a variety of different products and solutions for world's telecommunications industry and other industries (e.g. Public utility, Transportation, Oil & Chemistry and Medication etc.), YOFC has offered its products and services to over 100 countries and regions around the world.

www.en.yofc.com

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www.lloydbouvier.com

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For nearly five decades, OFS with its AT&T Bell Labs heritage has been at the forefront of optical fiber, fiber optic cable, and optical connectivity development and production in the United States. Part of our heritage includes being an inventor of original fiber optic technologies, we have an unparalleled expertise in the industry, making us a leading domestic manufacturer of fiber optic solutions in the U.S. Our company brand is creating future-ready and sustainable

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www.ofsoptics.com



Runaya is a new age manufacturing company aim to provide technology-

based sustainability solutions for India's manufacturing landscape. Our technology business segment encapsulates the telecom grade FRP & ARP rods for optical fibre cables. Our vision is to be the factory of the world in the cable strength segment of telecom industry with current capacity 2 million km at our Silvassa plant. Our products are manufactured by latest environment friendly processes with strong focus on quality & sustainability.

www.runaya.com

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Carris is a highly efficient manufacturing company with a participatory business culture that has been competing successfully in the domestic and global markets for over 70 years. Carris strives to be a good citizen in the communities in which it operates and has long been a committed steward of the environment. At Carris, customers come first, and its collaborative culture translates to creative solutions and responsiveness to changing needs. The proof of Carris' value is demonstrated by the trust that its customers place in Carris as their business partner of choice.

www.carris.com

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Fiber Optic Center, Inc., (FOC), is an international leader in distributing fiber optic components, equipment and supplies and has been helping customers make the best cable assemblies in the world for over two decades.

www.focenter.com

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GRAHAM ENGINEERING

The global standard in single screw extrusion, Graham Engineering Company (GEC), has over 50 years of experience meeting and exceeding our customers' needs. GEC has provided machinery solutions in over 70 countries across many forms of extrusion. The company's solutions comprise standard and custom extrusion solutions in single screw extruders, feed screws, extrusion systems, and specialized turnkey systems for the wire & cable industry. GEC is a privately held company located in York, PA.

www.grahamengineering.com

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Dainichiseika

We develop, manufacture and sell colorants and functional materials for polyvinyl chloride (PVC), high-performance fluoropolymers, and thermoplastic and thermosetting resins.

We also use dispersion and processing technologies, which enable various plastic compounding methods that have a high degree of difficulty. Through them, we contribute to meeting customer expectations to achieve highly functional and high value-added products.

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GOLD SPONSORS *continued*



Masterchem Solutions was established in

1979. Previously named Master Adhesives, we entered the Fiber-Optic Cable Industry by securing a patent to produce Mastergel in 1993. Within 31 years, we have become a world leader in the development and manufacture of thixotropic gels and an array of flooding and filling compounds for use in multiple cable designs. With an ISO 9001 Certified Quality Program, we are in a position to utilize our expertise and equipment to produce or toll manufacture a variety of specialized adhesives, cleaners and uniquely engineered products for cable manufacturers and many other industries.

www.masterchemsolutions.com



M. Holland is a leading international distributor of thermoplastic resins, materials, and services, providing suppliers with

the most strategic channels to market, offering innovative sourcing and supply chain solutions to our clients, and helping people lead rewarding careers. M. Holland's Wire and Cable group offers a wide variety of plastic compounds, gels, tapes and copper conductors to meet the wire and cable industry's diversified needs, in many cases providing a single-source solution to its clients. The company's in-house engineers have expertise across a wide range of services, specializing in application development, material selection, mold design, and troubleshooting. Since 1950, a deep commitment to personal relationships has formed the core of M. Holland's heritage, its culture, and its vision. Headquartered in Northbrook, Illinois, the company has over \$1 billion in annual sales and sells to more than 4,000 customers annually.

www.mholland.com

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Nabaltec is a manufacturer of environmentally friendly, flame-retardant fillers and special oxides. These highly

specialized products have been developed using aluminum hydroxide and aluminum oxide as a basis, and they are sold primarily for two market segments, namely "Functional Fillers" and "Specialty Alumina". To provide one example, flame-retardant fillers are used in cables and electronic devices. In case of fire they can delay its spread and suppress the development of environmentally harmful and unhealthy smokes and fumes. Special oxides are used e.g. for various machine components as well as in the refractory industry. Nabaltec manufactures at three locations: in Germany and in the USA.

www.nabaltec.de

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SABIC Specialties Business serves advanced technology spaces with high performance materials to help address complex thermal, mechanical, optical, and electrical

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Our portfolio includes high heat families of ULTEM™, EXTEM™, and SILTEM™ resins, LNP™ resins & compounds, LNP™ PC copolymers, and NORYL™ resins & compounds. These materials serve applications ranging from emerging technologies associated with the 4th industrial revolution, such as artificial intelligence, 5G infrastructure, net zero solutions and electric mobility, to smart electronics, medical devices, and robotics.

<https://bit.ly/Discover-SILTEM-resins>



Superior Essex Communications is a leading manufacturer and supplier of communications products for the telecommunications, energy, and industrial sectors. The company was founded in 1930 and has since expanded to operate globally, with locations in North America, Europe, Asia-Pacific, and South America.

The company specializes in the manufacturing of copper and optical fiber cables used in various applications such as network infrastructure, power transmission, and industrial automation. Their products are used in a wide range of industries including telecommunications, energy distribution, transportation, and construction.

Superior Essex Communications prides itself on its commitment to innovation and sustainability. The company is constantly investing in research and development to create new products that meet the evolving needs of their customers. They also have a strong focus on sustainability, with initiatives in place to reduce their environmental impact and promote social responsibility.

www.superioressexcommunications.com

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AGC AGC Chemicals Americas offers the broadest range of high-performance fluoropolymers in the world including fluoroelastomers, PTFE, PFA and ETFE resins, as well as fluoropolymer compounds for critical applications when performance matters and failure is not an option. Our Fluon+™ Melt Processable Compounds are based on copolymer resins FEP, ETFE, PFA, PVDF and ECTFE. These compounds extend the fluoropolymer properties of chemical resistance, toughness and lubricity. Standard and custom products are free of cadmium, hexavalent chromium and lead. All Fluon+ MPC products are manufactured to precise specifications. These high performance fluoroproducts provide cutting-edge solutions to an ever-changing world.

www.agcchem.com | **Booth 109**

ARKEMA As a leading supplier of specialty materials to the industry, Arkema's high-performance polymers are used for applications where extreme protection and reliability are required. A wide range of materials is available including Kynar® PVDF, Rilsan® polyamide 11, Pebax® elastomers, Orgalloy® alloys and Kepstan® PEKK. Key characteristics of these outstanding polymers include high-temperature resistance, low flame and smoke properties, chemical resistance, low-temperature flexibility, low shrink back and easy processing. Arkema's long-chain polyamides and alloys are excellent for power cables including Rilsan® HT for high-temperature applications and Rilsan® Clear for applications that demand optical clarity. Arkema is a leader in bio-based and durable materials for applications including halogen-free flame-retardant materials.

<https://hpp.arkema.com> | **Booth 319**

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www.kuraray.com | **Booth 429**

ODEN TECHNOLOGIES Oden Technologies is the leading provider of AI-driven solutions for manufacturers, transforming billions of complex data points into action for the front-line in real-time. Process AI, Oden's premier software offering, enables new operators to perform like seasoned veterans based on current conditions. With real-time process recommendations and predicted outcomes served directly to operators, Process AI ensures front-line workers have the exact information they need – when they need it – to achieve peak production.

www.oden.io

WONDERFUL Wonderful Hi-Tech Co., Ltd. engages in the manufacture and sale of electronic wire and cable. Its products include fiber to the home solution, copper systems, local area network cables, coaxial cables, ultra fine wire, hook-up wire, power supply cord, computer cable, and automotive wire.

www.wontex.com

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Wire & Cable Technology International (WCTI) is the "Official Magazine of the IWCS", and we publish several IWCS articles throughout the year as well as the annual IWCS preview article and the annual IWCS supplier exhibition directory. WCTI is a bimonthly technical magazine for manufacturers, processors, distributors and users of all types of wires, cables, wire harnesses and cable assemblies. Readers of the print and digital editions are located in more than 100 countries, and additional publications include a monthly business and market newsletter called the OVERVIEW, and the annual WCTI Buyers' Guide. www.wiretech.com | **Booth 130**



CCCA is a major resource for well researched, fact-based information and education on the important issues, technologies and structured cabling products impacting the current and future needs of the building network and cabling infrastructure. CCCA is proactive in supporting and participating in codes and standards bodies and other trade, industry and safety organizations, which affect the quality, performance and societal needs of the structured cabling infrastructure.

www.cccassoc.org



Connector Supplier is the only publication that focuses exclusively on interconnect solutions, including connectors, cable assemblies, sensors, and antennas. This longtime industry resource informs electronics professionals about connectivity technologies, spotlighting the products, companies, markets, trends, organizations, and personalities that shape the interconnect industry. Connector Supplier reaches more than 75,000 readers every month through its newsletter, website, and other special publications.

www.connectorsupplier.com

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Communities

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www.crugroup.com/events



EuroWire and Wire & Cable ASIA are international

magazines for the wire and cable industries. Published six times per year, they cover technological developments concerning wire and cable manufacturing methods, production machinery and processing equipment. Every issue reports on special areas of wire and cable manufacturing. EuroWire and Wire & Cable ASIA enjoy an increasing and unrivaled readership across Europe, the Americas, Asia, and internationally, being understood by a wide audience of wire and cable professionals.

www.read-eurowire.com

www.read-wca.com

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The Fiber Network Council APAC is dedicated to advancing the latest Fiber technologies across the Asia-Pacific region. As a member,

you gain access to exclusive events, such as workshops, seminars, and the Annual Conference, where industry leaders and experts gather. Membership also provides access to insightful market studies, white papers, and technical papers on topics like FTTx, 5G, IoT, and Smart Cities. Additionally, members benefit from global alliances, significant discounts on sponsorships and event registrations, and various membership tiers tailored to commercial organizations and non-profits, enhancing opportunities for growth and success.

Annual conference: November 4-6, 2024, Manila, Philippines

fibernetnetworkapac.org

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www.subtelforum.com

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The Vinyl Institute (VI) is a U.S. trade association representing the leading manufacturers of vinyl, vinyl chloride monomer, vinyl additives, and modifiers. The VI works on behalf of its members to promote the benefits of the world's most versatile plastic, used to make everything from PVC piping to flooring, roofing and vinyl siding. The vinyl industry in the United States employs over 350,000 highly skilled employees at nearly 3,000 facilities and generates an economic value of \$54 billion.

www.vinylinfo.org



The Vinyl Sustainability Council (VSC), founded in 2016 in partnership with the Vinyl Institute, is a council created to advance the vinyl industry's efforts in addressing sustainability. The VSC is a collaborative platform for companies, organizations and other industry stakeholders to come together to create a sustainable development path for the industry.

www.vantagevinyl.com/vinyl-sustainability-council



WCISA® Wire and Cable Industry Suppliers Association® - is a nonprofit corporate membership association of North American suppliers of machinery, materials and accessories used for making all types of wire and cable. Members are based in or have an established subsidiary in North America. WCISA's mission is to promote its member's products and services by providing its members with representation, networking/social opportunities and services at wire and cable trade events and conferences. WCISA is active in wire and cable trade events and conferences throughout the world, in varying capacities, including as an exhibitor, supporter, sponsor and outing organizer. WCISA also awards to scholarships to employees and dependents of member companies as well as partner associations.

www.wcisaonline.org

ASSOCIATION & MEDIA PARTNERS *continued*



The Wire Journal International (WJI) is the leading magazine

for the wire and cable industry. Published monthly, WJI is written for executives, engineers, technical and sales professionals, and purchasing agents engaged in the manufacture of ferrous and nonferrous wire and cable; electrical wire and cable; fiber optic cable; and formed and fabricated wire products. Coverage includes management, marketing and manufacturing methods and technical developments related to production of wire and cable products, industry news, trends and events, personnel appointments, and patent updates.

wirenet.org/wire-journal-international

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Wire & Cable Manufacturers' Alliance, Inc. (WCMA) is a non-profit corporate business

association serving manufacturers of low to high voltage electrical, electronic, and fiber optic wire and cable with established manufacturing operations located in North America. Corporate membership also includes industry suppliers, service providers, affiliated companies and organizations that support the industry, also having significant North American based operations.

www.wcmainc.org



The Wire Association International is a not-for-profit association with 1,800 individual members in 50 countries. The association serves the educational needs of the wire

and cable manufacturing industry through a variety of products and services. WAI manages the Interwire Trade Exposition and the WAI Operations Summit & Wire Expo and publishes the Wire Journal International and the Wire Journal International Reference Guide.

www.wirenet.org

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Wire World is the global leader for information, news, events and suppliers to the wire & cable

industry. Since 1995, Wire World has brought information to makers of wire and cable and provided opportunities for suppliers to connect 24/7. Press releases highlight projects, company highlights, equipment, personnel, events and more from around the globe. With thousands of users from every continent, there is a great reason to be connected to the industry with Wire World.

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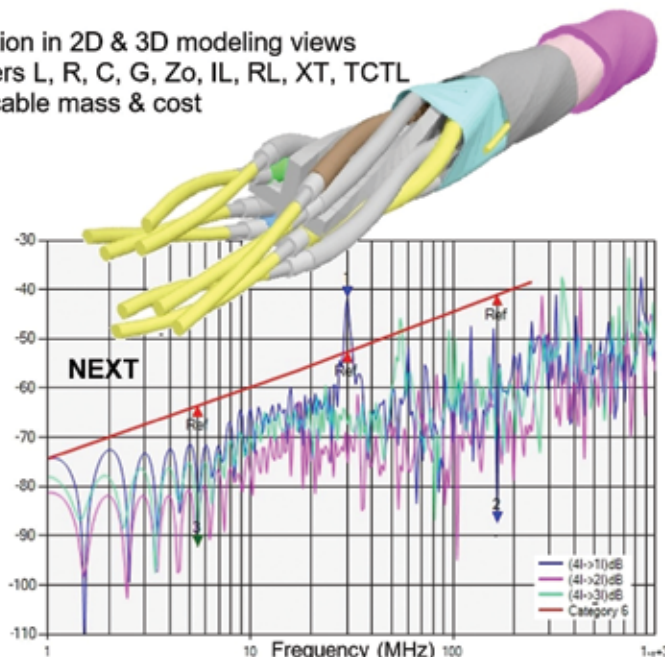
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- Drum and raw material management
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- Real-time alarms and historical trending



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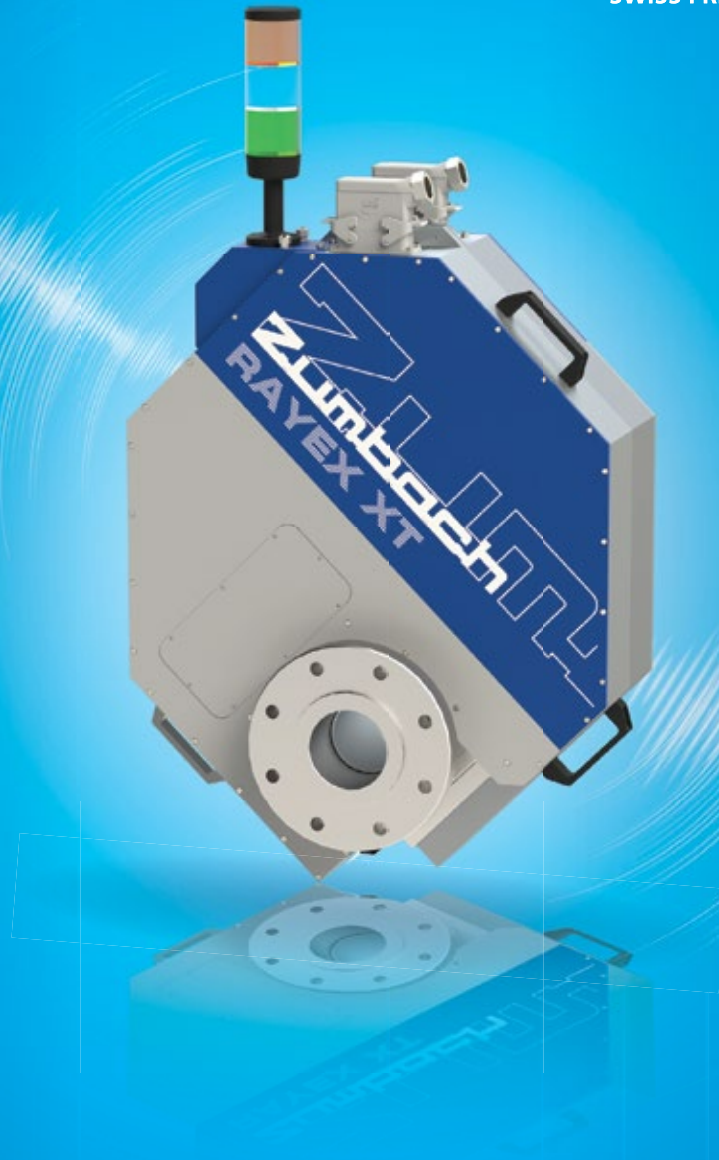
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SUPPLIER EXHIBITION™ FLOOR PLAN

EXHIBITOR DESCRIPTIONS



RAYEX® D Dynamic X-Ray Measuring System

Benefits:

- ✓ Latest generation of measurement algorithm provides measurement readiness within one second
- ✓ Micro-focused X-ray beam ensures highest measurement accuracy
- ✓ New generation of X-ray sources with extended lifetime
- ✓ Direct access to the sensors via the web server
- ✓ Simultaneous acquisition of all measured values from both measurement axes