

50 years of IWMA

This year
marks the
50th year
of the
IWMA



50
YEARS

PLUS

CRU's 4 things to know
about Covid-19

wire and Tube Düsseldorf
to take place in December

AWI helps ventilator production



Newsletter of
the International Wire
& Machinery Association

Chairman's message

Dear members and friends of the IWMA EMC

Yes, we're saddened and disappointed. We're saddened that the world is currently in the middle of one of its worst modern-day medical crises and that we, like everyone else, are having to get used to a "new normal" of social isolation, closed businesses and general shortages.

We're disappointed that what was to have been the launch event of the IWMA's 50th anniversary celebrations, among our colleagues and friends in the industry, has passed without a single candle on a celebratory cake.

But it wasn't to be, and we mustn't be too downhearted; when wire Düsseldorf finally arrives in December, it will simply be the final highlight of a – let's say unusual – anniversary year. One none of us will ever forget, that's for sure!

The Coronavirus pandemic has been dynamic and intense over the past few weeks – for some countries more than others. We have found ourselves asking questions that would have seemed unthinkable just a few weeks ago – how best to protect family, friends, and colleagues; how to keep businesses running and productive; how to ensure our children are connected to education at a vital time for many of them...

Everyone I have talked to in the last few weeks has at some point asked such questions, and of course governments, health and education experts – with not a little help from the internet – have now managed to put plans in place to help, to heal and to educate, with the help of modern warriors in hospitals around the globe.

Here at the IWMA, like you, we have done all we can to hold back the spread of this pernicious virus, and at the same time we have tried hard to keep you all informed about events.

Our priority has been to help our employees and to keep them safe. One way has been the now almost universal adoption of social distancing. Like many of our members, the IWMA has implemented a home-working policy to limit exposure. The team has remote access to all our essential business systems, and at the same time we have stopped all non-essential travel. Video conferencing has been an invaluable way for team members and directors to stay in touch and carry out day-to-day business.

Since Messe Düsseldorf announced the postponement of wire 2020 until December 7-11, the team has addressed our cashflow concerns for the remainder of 2020. Spending has been cancelled where we believe it to be non-essential – which both on cost and health fronts meant we said goodbye for now to June's IWMA golf event and our Annual Dinner Dance in November.

One of our major member resources is our website, and the new version of this – one of the ways we marked our jubilee year – will offer regular updates on IWMA matters as well as any information you might find time to send us. We are also working on an IWMA community group on LinkedIn, and a series of webinars for members.

Meanwhile we are here – in spirit and at the end of a phone or web conference, rather than in person – for any enquiries, concerns, or information you need. Our concern, as always, is to support our members as well as we can through this unprecedented period in all our lives.

As many of you will know, wire India has also been postponed to the end of next March by Messe Düsseldorf, even though it wasn't due until November. Many reports coming out of India suggest the virus will hit the country particularly hard. We can only hope India's response will be both swift and brave.

Finally – and far from being the least of our concerns – we hope you all, as friends and colleagues in an extraordinary and diversified industry, can stay safe, vigilant in the face of an unseen danger, and care for each other in this most difficult of modern times. We will overcome it, whatever the social cost, but consider that one good to have come out of the crisis has been the way people are mainly showing their best face, their most caring and socially-responsible attitude to those around them, and doing what they can to pull as many people as possible back to health.

My very best wishes to you all. Stay safe.

Martin Van Der Zwan
Chairman, IWMA



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Celebrating 50 Years of the IWMA 1970–2020

The IWMA – the world's largest and most influential corporate membership association for the wire and cable industries – celebrates its 50th anniversary in 2020.





This year is a major milestone. It all started out very small – just a handful of industry leaders, who had the vision to see that wire and cable was an under-represented sector of a growing industry. But today, we are a global organisation representing member companies worth billions of dollars that literally connect the modern world.

Back in the late 1960s, few realised just how important wire and cable technologies were to become in the world of engineering. In fact, they have offered the means by which great ideas could evolve.

From wire ropes and rods for heavy lifting to elegant solutions for vast engineering projects, and cables so fine and pure they could be used in the tiniest of new electronic devices. Innovations in our industry have ultimately paved the way for a world and ideas literally connected instantly by cable.

In the pre-Internet age, knowledge came through being taught and developing skills; the interconnectedness of the entire world was distant magic. At this time, the IWMA helped to develop knowledge and skills for newcomers to the industry with training and bursary schemes, while disseminating the increasingly technical nature of wire and cable development at conferences and seminars.

We also enabled members to showcase the increasingly complicated machines and processes they were creating to potential buyers at well-organised exhibitions.

After a few exhibitions and conferences in the UK, the WMA (Wire and Machinery Association, as it was known then), expanded its horizons and in 1972 launched an exhibition in Basle, Switzerland, a central location for the European wire and cable industry. This ran successfully until 1984, attracting members to the extent that, in 1976, the organisation's name was changed to add the 'International' prefix.

But expanding further was a big task for a small organisation – one that, in the 1980s, prompted the IWMA to seek a partner to help expand its scope. With some of the major exhibitors at the biennial Swiss exhibitions, several IWMA members formed an international advisory committee to liaise with trade fair organisers to consider the best location for what had become, by 1982, the wire and cable industry's most important event.

The committee approached Messe Düsseldorf, and the result of the partnership is well known. Today, Messe organises some of the biggest exhibition circuits on the planet, and has taken wire and cable machinery and developments to Russia, China, South America, South East Asia, Iran and India – as well as making the Düsseldorf exhibition the biggest gathering of wire and cable makers and users in the world.

But the IWMA didn't stop there. With much of the burden of organising an international show taken out of members' hands, the group embarked on expansion in other areas.

In 1987 – the year after the first Düsseldorf show – the IWMA registered its charitable educational trust fund.

Over the following years, this would provide money to help several newcomers to the industry gain qualifications and expand their knowledge. Also in 1987, the IWMA created its first Wire and Cable International Directory, which would be published every year until 2001 (when the internet pushed the notion of physical paper-based directories into history).

In 1989, as the decade drew to a close, the IWMA started its other main physical product – this magazine, Wire and Cable News (WCN). Distributed free to members, the magazine passes on news of people, methods and companies, IWMA functions and business, and is useful as a guide to the major upcoming exhibitions and what member companies will be displaying at them.

The new millennium began strongly, with an extension of the educational trust and the launch of the IWMA website. The trust began to offer travel awards – money that could take young applicants to the main shows, to give them a better idea of the breadth and depth of the industry they had joined. Meanwhile, the website became the chief repository of the IWMA's background knowledge, with a library of technical papers for research, plus contact details and information for each member company.

The association also started sponsoring the new wire Russia exhibition and by affiliating with ACIMAF, the Italian wire and cable organisation.

More expansion was to come: in 2004, the inaugural wire China, like wire Russia the year before, was sponsored by the IWMA, as was the new South East Asia wire event in 2007 and wire India in 2008. The association organised its 48th technical conference, in Istanbul, in 2009.

In 2011, the fifth biennial technical conference, organised by several industry bodies including the IWMA, was re-branded CabWire. It is an event that continues today and which has already spun-off a parallel event, CabWire Fundamentals, aimed at industry newcomers (and those keen to refresh their knowledge), offering technical primers in a multitude of ferrous and non-ferrous disciplines.

The IWMA was a keen supporter and sponsor in 2013 of the latest international exhibition, wire South America in Sao Paulo – and the second of the new CabWire conferences, in Milan.

The last half-decade has seen a similarly energetic IWMA continue to support wire and cable manufacturers and machine-makers worldwide. In 2014, the association relocated to new headquarters in Solihull, UK, and re-launched its website, offering even more useful content for members.

Over the years, the IWMA has continued to evolve the professional services and support we offer our members worldwide – via a wide range of activities and leading industry events. Both between and alongside major exhibitions, our Annual Dinner Dance and other social events also remain very popular networking and social events. So raise a glass... and here's to the next few decades!

IWMA the Next 50 Years

IWMA has been at the forefront of the wire and machinery field, progressing innovation, for over 50 years. It has stood in a unique position with no other organisation providing exactly the same offering as them.

The substance and purpose of IWMA is still unparalleled within its speciality. Therefore, IWMA needs to look and feel like the unrivalled organisation it is.

With this in mind IWMA has undergone a visual transformation. This reinvention means that IWMA now has the potential to, both practically and visually, look and feel like the leader it is for the next 50 years.



IWMA The new logo

To spearhead this reinvention of IWMA is the new logo. By utilising such a strong and confident wordmark, IWMA can be confident that first impressions of an innovative and progressive industry body are immediately made. The logo employs a bespoke typeface to graphically depict a coiled wire while at the same time illustrate the concept, drawn from work in the branding workshops, that the IWMA provides the environment to be **connected through expertise**.

Practically, this new logo is versatile enough to remain striking whilst adorning both a large-scale stand graphic at a trade show, as well as on a small-scale like a business card. This versatility also encompasses both digital and printed reproduction.



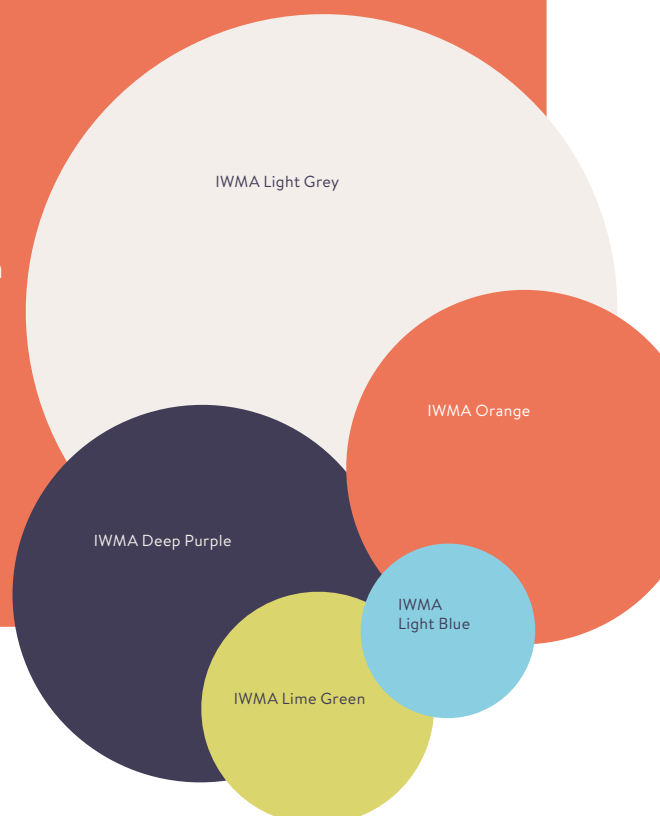
Why Rebrand IWMA?

For an organisation such as IWMA, that is synonymous with progress and innovation, no aspect of the company can sit still or rest on its laurels. With this in mind, the unique service that IWMA provide was not reflected in the IWMA brand. This means more than just the logo but rather the whole personality, both printed and digital collateral as well as the visual look and feel of the organisation.

Therefore, this rethinking and reorientation of the whole brand toolkit will not only give greater clarity to the IWMA messaging but provide greater coherence and focus to reinvigorate IWMA internally. This redesign also has the potential to reach new members, which will in turn not only shape the future of just IWMA but the wire and machine industry as a whole.

The Core Palette

The prominent new logo is offset by the bold, yet soft, updated IWMA colour palette. To enhance the new brand look and feel a subtle selection of colours have been combined to help disrupt expectations regarding traditional wire and industry standards. This palette will also continue to set IWMA apart as the unique organisation it is within the industry.



New Trade Fair Dates wire/Tube in December 2020

**Outlook by Friedrich-Georg
Kehrer, Global Portfolio Director
Metals and Flow Technologies:**

The world keeps turning – just differently.

This has never happened before in the over 70-year history of Messe Düsseldorf: all trade fair events scheduled for the first half of 2020 were postponed – either to the fourth quarter of this year or to 2021.

Coronavirus changes our way of thinking, our acting and our society.

And yet – even in times of thorough economic and health policy considerations, daily re-assessments of the situation, ever new expert recommendations and many often conflicting assessment criteria applied to the crisis, we succeeded – together with our partner associations and in a timely fashion – in finding alternative exhibition dates for the world's No. 1 trade fair for these industries – wire and Tube: 7 to 11 December 2020.

Together we have opted in favour of dates this year – sending out an important signal to the sectors that things will already carry on in the current calendar year.

IWMA was also by our side in an advisory capacity because Messe Düsseldorf and the International Wire & Machinery Association have already maintained in-depth contacts for a long time. We can look back on long-standing cooperation which – born by trust and thoroughly researched ideas – have proven a success formula – until this very day!

Our industries have rallied behind us and the new trade fair dates. Because a decision like this can only be put into practice in concert with the industry and our association partners.

Now the task is to talk to individual exhibitors and find new spaces in a changed hall layout resulting from the dates in December. wire will then be held in Halls

10 to 17, Tube in exhibition halls 5, 6, 7a, 7, 8a, 8b and 9.

Since the new trade fair dates were announced we have been talking to each individual company and channelling all our energy to ensure that wire and Tube in December can again be presented as powerful, innovative No. 1 trade fairs.

Our aim for December 2020 is to provide the industries with an international, comprehensive forum in Düsseldorf.

With its sights on the global market but clear differentiation from competitors, convincing with expert knowledge and emotional support – this is what the entire trade fair team at wire and Tube stands for – from the department for exhibitors and the press and marketing department to the protocol department that meticulously plans and passionately organises committee evenings and social dinners for the duration of the trade fair.

I look forward to the days in December, to meeting you all again, getting the trade fair engine started again and planning the future of our industries – courageously and prudently.

Yours,



Friedrich-Georg Kehrer
*Global Portfolio Director
Metals and Flow Technologies*



World leading trade fairs wire and Tube Düsseldorf to take place in December in response to Coronavirus Pandemic

Two of the world's leading trade fairs for the wire, cable, tube and pipe industries – wire and Tube – have been moved to the end of the year in response to the Coronavirus pandemic.

Both fairs, due to take place in early April, will now go-ahead 7-11 December at the Messe Düsseldorf exhibition centre.

The decision to postpone the biennial fairs – which in 2018 covered over 65,000 sq. m, attracted well over 1,400 exhibitors and had over 42,000 visitors – was taken at the end of February, as the country started to go into strict lockdown under the federal government's crisis management measures.

This year Messe expected up to 2,600 exhibitors across 15 halls and included new features such as a section devoted to manufacturers of springs and fasteners.

“Messe's actions were taken with the full support of its various partners, including ourselves, and in the light of a major international clampdown of travel, which would have made getting to and from the fair almost impossible for thousands of attendees anyway,” explained IWMA executive manager Andy Lewis.

Existing exhibitor and partner contracts, as well as already-purchased tickets, will remain valid for the new dates, but because these fall before Christmas – when the city will already be busy with Christmas market tourism and the like – Messe has asked the Düsseldorf hotel industry to be as helpful as possible with changes to accommodation.

“We appeal to our members and the entire industry to be flexible when it comes to rebooking by exhibitors and visitors,” says the company. “Trade fairs such as wire and Tube play an enormously important role for the city, the hotel industry and the catering trade. It would be counterproductive to not show goodwill in this situation.”

Messe took the decision on new dates as soon as it was practicable: “It was very important to inform everyone of this new date as soon as possible, to ensure planning security for the entire industry and its partners,” said Messe Düsseldorf managing director, Wolfram Diener. “Our customers and partners can trust us to act calmly and responsibly, even in difficult situations.”



Messe has been forced to postpone or rearrange many of its shows and fairs, in both Düsseldorf and India.

“It’s difficult to find anything positive to say about all the postponements and cancellations happening in all sectors around the world at the moment,” said IWMA executive manager Andy Lewis.

“The people we speak to are expressing real disappointment that the wire show isn’t going ahead. We are pretty disappointed along with them, since wire Düsseldorf was to be the focus of our 50th anniversary celebrations.

“Having said that, the show is a hugely popular international event at which a lot of business is done, and a huge number of contacts made.”

For more details, visit wire-tradefair.com

Covid-19 & Wire & Cable

CRU's 4 things you need to know



The Covid-19 pandemic has widespread implications for commodity markets, and the metallic wire and cable market is no exception. CRU have seen sharp declines in output across key end-use sectors, marginal disruptions to supply chains and a structural shift in the way the industry operates. In addition to our regular analysis covering the latest market trends and future outlook, the CRU Wire and Cable team is constantly reviewing the impacts of Covid-19 on the metallic wire and cable industry. This insight summarises some of our recent analysis and highlights the 4 things you need to know right now.

Please note - All article screenshots are taken from CRU's subscriber-only content of CRU's Wire and Cable Market Outlook service. For more information about how CRU can help your business navigate this market during these uncertain times, please get in touch via our website: www.crugroup.com/analysis/wire-and-cable

1. Pandemic induced weakness drives global recession

The global impact of Covid-19 has been profound. Lockdowns of countries and regions are now the norm. Uncertainty about the 'end game' has fuelled financial market volatility and prompted unprecedented government support. CRU is now forecasting a global recession in 2020: GDP in the EU and the USA is expected to fall, and China suffers a "hard landing" as economic growth drops sharply to 2%. World GDP is expected to come to a halt, and world industrial production to contract (by -1.6% y/y). Our figures are predicated on the assumption that the virus is successfully contained in major regions in Q2 (as it was in China in Q1) and that there is no second Covid-19 wave.

2. European automotive production plummets, demand for LVE cable shrinks

Between 16 March and 19 March, Europe's largest automotive manufacturers announced wide-reaching temporary shutdowns in all major European auto-producing countries, ranging from a few days to multiple weeks throughout late March and April. This has had a pronounced impact on CRU's outlook for cable demand in 2020. The European automotive sector consumed 390 kt conductors of cable in 2019, accounting for 26% of Europe's total LVE consumption and 15% of Europe's total winding wire consumption. As a result, the automotive sector has a strong impact on our regional LVE and winding wire forecasts. This is especially true following the downgrade to our 2020 annual European automotive production growth forecast by sixteen percentage points: to -14.8% y/y from 1.8% in January.

Covid-19 strikes European automotive cable demand

Insight

The European automotive sector is currently feeling the bite of the Covid-19 pandemic: most large manufacturing sites are shut down since 19 March and consumer appetite for cars has dramatically weakened. As a result, CRU forecast automotive production to contract by 14.8% y/y in 2020, pushing down the regional LVE and winding wire sectors.



3. Outlook for cable demand downgraded across the globe

The construction and transportation sectors make up almost 50% of total world cable demand, with the former set to decline by 0.8% y/y in 2020, in terms of value, and the latter to freefall again, wiping out another 9.1% y/y, in terms of vehicle units produced. We believe LVE cable and winding wire will be the most impacted during this downturn.

Covid-19: Cable markets brace for impact

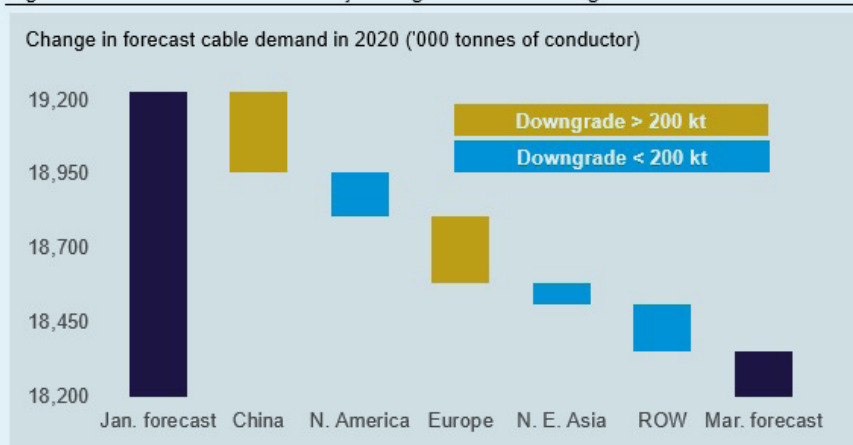
An unprecedented level of cable demand downgrades

At this early-stage, CRU estimate global insulated metallic wire and cable demand will contract by low single-digits y/y in 2020. This is not as aggressive as the 7.6% y/y collapse in demand seen in 2009, at the peak of the financial crisis, but indeed a notable downgrade from our January forecast as (see Figure 1)



Chenfei Wang
Analyst

Figure 1: Cable demand dramatically downgraded across the globe



DATA: CRU

4. Wire and cable supply chains are being tested, but holding up to-date

CRU's Wire & Cable News service ran a survey from March 9 to March 27 to find out how different parts of the wire and cable supply chain have been affected by Covid-19. Those replying to the survey consisted of a number of different company types along the wire and cable supply chain. Questions centred around how work patterns, production, logistics, labour and demand have been impacted due to Covid-19.

Wire & cable supply chain operating relatively well despite Covid-19

Covid-19

The impact of Covid-19 on the global wire and cable supply has so far not been as severe as we originally anticipated, but this is a fluid situation and of course can change from day to day. Cable producers in the most heavily affected regions have mainly been allowed to continue production as they are classed as a key industry. However, the supply of key raw materials like metals, polymers and yarns to the factories can be a problem as the logistics of these has been delayed by movement orders, stringent border checks and an overall demand for logistics services.



Natalie Noor-Drugan
Publisher & Editor in Chief

Basec certificates will remain valid after UK leaves the EU

BASEC has now achieved notified body listing in Europe (Ireland) for BASEC Conformity Limited, NB 2851 via INAB to sit alongside that of BASEC UK LIMITED NB 2661 via UKAS.

This means that BASEC can provide customers with the reassurance that their certificates, test and classification reports will remain valid - unless a product construction or material changes - and will not be impacted by the UK leaving the EU.

After the transition period ends on 31st December 2020, BASEC will still be able to manage their customers' CPR certification via BASEC UK or BASEC Conformity, irrespective of any trading relationship yet to be established.

As a Brexit contingency back in early 2018 BASEC applied for CPR status via INAB which was granted in September 2019 and on 18th February 2020 Nando approved BASEC Conformity Limited under the directive, regulations (EU) No 305/2011 Construction products.

BASEC's understanding of the AVCP system three requirements is that any test and classification report issued prior to the end of the transition period will remain valid and recognised throughout the EU. They will then be subject to any changes introduced by the new trade agreement.

For more details, visit basec.org.uk



Innovative Spring Wire Induction Temper Lines

Radyne spring wire induction temper (IT) lines are revolutionizing the spring wire industry. Traditional methods of hardening and tempering spring wire have proven shortcomings. The Radyne IT line is highly automated, runs continuously, provides for increased throughput and contains an environmentally friendly water quenching medium. These factors combined mean high strength spring wire with greater consistency for the end user.

What is spring wire and how is it used in the world?

Spring wire is a common name given to a range of steel wires prominently used in the manufacture of industrial and automotive springs. Inclusive of low-alloy manganese, medium-carbon and high-carbon steel wires, spring wire is a hardened and tempered steel alloy with exceptional yield strength. Other materials are incapable of undergoing deformation without losing their parent shape. Spring wire differs as it retains its physical shape after undergoing an appreciable amount of strain. It is an inherently resilient material with excellent elastic behaviour.

How is spring wire important to businesses or consumers?

Businesses and consumers require spring wire for numerous applications including general mechanical springs, automotive suspension systems, garage door springs, automotive engine valves and even aircraft engines. Higher strength spring wire with a greater reduction of area not only increases the fatigue rate and life expectancy of these end-use products, it also supports cold coiling processes as additional heat treatments are not performed after cold coiling.

What are the current methods of manufacture?

Traditional methods of manufacturing springs involve heating discrete lengths of wire in a furnace, up to temperatures in the region of 1000° C. The hot wire is wrapped around a mandrel to create the wound spring. While the wire is still hot, it slides free of the mandrel and drops into an oil quench tank in which the steel hardens. After exiting the quench tank, the hardened spring is tempered, possibly in a batch furnace.

For more details, visit inductotherm.co.uk

Rybinskkabel and BWE combine to provide first “seamless” SheathEx™ 400 Machine

Russian firm Rybinskkabel have partnered with the British based BWE to install the very first SheathEx™ 400 Machine in Russia. After the success of the larger 550 model, Rybinskkabel received the request, which has led to the development of a new cable application for BWE's SheathEx™ technology.

Not only was the installation a huge success but the 400 machine was setup in record time. Rybinskkabel LLC, was established in 1949 and is now one of the leading suppliers of cable products in Russia and with a mission to continue to enhance and optimise their technology.

The process follows the oil impregnated cable being fed directly into the SheathEx 400 machine. A ‘seamless’ and ‘smooth’ aluminium sheath is then extruded from 2 x 9.5mm Ø aluminium rods, directly onto the cable. The aluminium sheath is immediately cooled without any cable burn and automatically coiled onto a large cable drum.

For more details, visit bwe.co.uk and rkz.ru/company/international

Ajex & Turner produce versatile Trapezoidal conductor to maximise capability

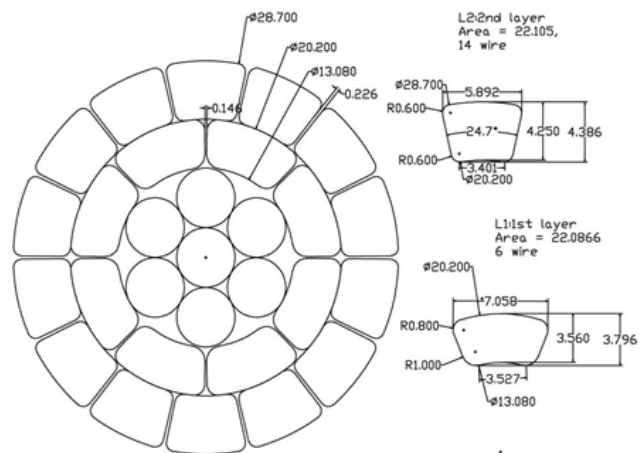
Indian-based firm Ajex & Turner have produced an innovative TW shaped conductor. The Trapezoidal form is designed to not only ensure accurate quality parameters but, by obtaining aluminium strands, the smooth outer surface is capable of applicable ASTM standard.

Pictured is a diagram detailing the progressive and versatile Trapezoidal shape.

By utilising high quality raw materials, PCD and Tungsten Carbide, this conductor maximises enduring performance.

To address the common concern regarding the smaller diameter conductor, the Trapezoidal shape ensures greater cross-sectional area of aluminium, allowing it to match the diameter of the conventional round conductor.

For more details, visit ajexturner.com



Example Drawing: Sector Shaped Compacting Die TW



Fourth consecutive win for Pakistan Cables

Pakistan Cables have secured the 43rd FPCCI Merit Export award, winning the prize for a fourth year in a row. The company is the only cable manufacturer to secure this award from the export category across consecutive years. Previously claiming the title in 2015-16, 2016-17 and 2017-18.

During the FPCCI ceremony held at the Governor House in Karachi, the award was presented to Mr. Fahd K. Chinoy, Chief Executive Officer of Pakistan Cables by the chief guest of the evening, honorable President of Pakistan, Dr. Arif Alvi.

Mr. Fahd Chinoy commented, “Pakistan Cables is committed to growing our international sales

footprint by consistently maintaining our status as the top exporter in our sector. We are proud to be leading from the front, enabling the development of Pakistan's engineering export base.”

Founded in 1953, Pakistan Cables is the oldest and most reputable cable manufacturer in Pakistan and the only wire and cable manufacturer listed on the PSX since 1955. The company has the largest geographical footprint in Pakistan, with a presence in over 180 cities.

For more details, visit pakistancables.com



ACI launches revolutionary new range of innovative cable drying products

UK-based ACI®, a world leader in industrial air movement solutions, has announced the launch of an innovative new range of cable drying products that are set to transform the cable, wire and extrusion industry.

Putting an end to quality-check failures due to the presence of moisture in production, ACI's new solution is set to save the extrusion industry many thousands of pounds each year.

Specially engineered to effectively remove residual moisture from water-cooled insulated wire, cable and extruded products, ACI's new Cable Dryer and Profile Dryer combination atomises water and then collects residual moisture.

Vast improvements in efficiency, energy consumption and drying speed

Particularly effective in small diameter production – where quality failure is common due to the presence of moisture – ACI's solution enables reliable production rates of up to 1,200 meters per minute, proven to be the fastest drying speed currently available on the market.

Designed to achieve both major running cost savings and vastly improved cable and wire drying efficiencies, ACI's blower-driven units bring the added benefit of reduced energy consumption, compared to air wipe alternatives.

Capable of drying cable ranging from 0.2mm to 65mm in diameter, ACI's drop-in Cable Dryer unit, which is just 950mm long, can be used independently of the Profile Dryer, which is most valuable in the production of small diameter cable, wire and extrusion.

ACI Managing Director, Chris Hellier, said: "Following a stringent period of development from our highly skilled team, we are proud to bring ACI's new cable drying range to the market."



To see the new ACI Cable Dryer System in action visit: youtu.be/9Kew6XV0E9M

To find out more about ACI, contact the team on **+44 (0)1297 529242**, email sales@aircontrolindustries.com or visit www.aircontrolindustries.com

Ridgway announces growth plans on back of major contract win

Ridgway Machines Ltd, a world leading manufacturer of precision taping and winding equipment for the electrical and energy industries, has announced it is about to expand its presence in Leicester, in the East Midlands region of the UK.

The move comes following a period of substantial global growth and the award of a multi-million pound contract to provide taping machinery to the USA.

The company's growth plans will also see Ridgway increasing its workforce over the next few months to meet demand for its products. It will be creating new roles across a wide range of functions, including Mechanical Fitters, a Design Engineer, Installation Engineer and Quality Manager.

Newly appointed Production Manager Gary Wharton, who has recently moved to Ridgway Machines, said: "I am really excited to be joining Ridgway. I have many years' experience in managing different engineering projects and am looking forward to using my knowledge on the biggest project in the company's history."

Speaking about the recent contract win, Ridgway's CEO, Stephen Hunt, said: "Ridgway has been providing expert engineering solutions for almost a century. These significant orders mark a real step forward in our plans for growth and are exciting not only for all of the team here but also for all those in our supply chain."



He added: "This is a real boost for the local community and the East Midlands in general. Our customers are global and the new orders represent the first of many as we support their strategic expansion over four continents. We are planning to relocate to larger premises to meet this continuing demand for our specialist expertise".

For more details, visit ridgwayeng.com

Stride Supplies retains prestigious EN9120:2016 and ISO 9001:2015 certification

Stride Supplies, the UK's largest spring wire stockist, has announced its continued certification to the renowned EN9120:2016 and ISO 9001:2015 following a recent BSI audit.

This continued certification is technically equivalent to AS9120B and SJAC9120A and as the EN9120:2016 and ISO 9001:2015 certification is recognised around the world as a prestigious assurance of operational and product quality in a highly regulated and specialised industry, this can assist Stride in approaching new customers and markets.

Stride Industrial Group Chairman, Graham Howes, commented "We've been established as the country's leading spring wire stockholder for the automotive, medical and other industry sectors for many years now and are keen to make great 'Strides' in the Aeronautical markets."

George Adams, Stride's Operations Manager, who led the programme said "I am extremely pleased we have passed our BSI

Audit and incredibly proud of achieving zero non-conformities raised by our auditor, full credit goes to all our hard working staff that maintain extremely high quality standards in an environment that is very focused on risk, business resilience, product quality and traceability, which is crucial in an industry where the consequences of product failure can be huge. We're committed to giving the highest levels of service, quality and reliability – that's what has put us at the forefront of the UK spring wire industry."

Stride Industrial Group comprises Stride Supplies and William Smith & Son. Employing 40 people to supply spring wire sourced from steel manufacturers to businesses all over the world, including those in Korea, US, Sweden, Germany, Italy and France.

For more details, visit stride-supplies.co.uk



Welcome New IWMA Members

ASSOMAC
WIRE MACHINERY PEOPLE group

Assomac Machines Ltd

The Assomac Group has established itself as one of India's leading names in the field of Wire Drawing Machines, Wire Cutting Machinery, Wire Making Machinery with their promise of quality products that stay ahead of time. The Assomac Group of Companies is an integrated conglomerate of engineering companies engaged in manufacturing all types equipment and the accessories used in making Alloy Steel, Carbon Steel, Mild Steel, Stainless Steel and other Non-Ferrous Wires.

www.assomacmachines.com

Ullrich Machinery Company Ltd

UMC is a 4th generation privately-owned family company that has been involved in the wire industry for over 87 years. Since 1932 the company has launched the worldwide brands of Hurricane Wire Product - Southfence, New Zealand - Solidlock USA and Canada - South Wire Australia - Fiji Wire Industries - New Guinea Wire Industries - Hurricane Wire UK. Their Design and Manufacturing Departments use the latest technology - 3D Modelling and CNC Operated Machine Tools, both for prototyping, and in the manufacturing process.

www.umcmachinery.com

 **BOZALIOĞLU**

Bozalioglu Insaat Taahhut Muhendislik ve Orman Urunleri Sanayi Ticaret ve Limited Sirketi

Bozalioglu building engineering and forestry products, industry, trade ltd. Co. Is a family business based in turkey. Operating for over 100 years with the fifth generation currently running the plant. The company began to produce Carpentry products in the 1980s, moving to cable and drums in 1986 and set up their own plant in 1997. In 2003 The business became a limited corporation and a member of the denizli chamber of commerce.

www.bozalioglu.com

 **IDEAL**

IDEAL-WERK C + E JUNGEBLDT GMBH & CO

IDEAL are an innovative company in mechanical and plant engineering. Their core competence is resistance and laser welding. They successfully apply this competence to their customers in various industries and for numerous applications. They are considered one of the technology leaders and are recognized worldwide as a creative solution provider in connection technology. Their products impress with their durability, reliability and high availability.

www.ideal-werk.com

Short Circuit (ISC) Performance Considerations For CCS

**Jeffrey T. Jordan,
P. Eng., MBA**

*Power Grid Product
Manager, Copperweld*

Evidence gathered over several decades questions the conventional short-circuit performance calculations used to select copper-clad steel (CCS) ground conductors.

Here we describe historical fusing-limit models for the selection of grounding conductors, the contemporary formula used for any type of grounding conductor, and how they compare to a growing body of CCS fusing-limit tests measured at high-power test labs.

The results suggest the standard IEEE Std 80 determination of a CCS conductor's ultimate current-carrying ability does not accurately predict its performance.

To establish baseline performance, tests were conducted on CCS conductors to build graphs measuring short-circuit current (Isc) against fault current duration (time), predicting fusing (separation through burning) of the conductor.

History

Historically, copper-covered steel – used for everything from telephone wiring to grounding conductors from the 1900s-1960s – is commonly compared electrically to copper using the International Annealed Copper Standard (IACS), which assumes steady-state current carrying ability.

To better understand CCS – commonly used in buried grounding applications as well as power distribution poles and the like – in non-steady-state applications, Copperweld Bimetallics (formerly Copperweld Steel Company of Pittsburgh), began testing its own products in 1971 at a specialised high-power test lab. This involved injecting short-circuit currents – typical of those that might occur in a line-to-ground fault – into various CCS conductors.

In each test the conductor burned apart on reaching the fusing limit, interrupting the circuit like a high-power fuse. Current and time were measured with high accuracy, then a successful test at 10 per cent below the fusing limit – often resulting in the cable glowing cherry red – was used to confirm the limit. Charting fusing limits in this way offered results that could be extrapolated for other time/current pairs.

The time-current tests indicated that, size-for-size, the fusing limit of Copperweld CCS (40% IACS) is 80-85 per cent that of copper in grounding applications.

Sample No	Test current, sym amps			Duration Cycles	Description	Comments
	Start	Middle	End			
1	39000	36100	34000	48.5	4/0 Cu 7-str	Fused near clamp
2	21000	19000	18650	117.5	4/0 Cu 7-str	Fused 1in from clamp
3	20700	19500	18650	141	4/0 Cu 7-str	No fusing
4	20700	15600	10850	126	CW7 No 5	Fused at one clamp
5	20200	18300	15000	113	CW7 No 5	No fusing
7	20250	18300	14400	117.5	CW7 No 5	Fused at one clamp
11	64600	-	-	9.5	CW7 No 5	Fused one end

Excerpt from original 1971 test data for Copperweld wires. Using this data, approximate fusing currents for CCS conductors were calculated in 1972. Using such data, a predictive short-circuit fusing current formula was determined and a full set of curves eventually showed the fusing current for any conductor size.

Modern models

Standards for ground conductors today can be traced to 1981, when JG Sverak proposed a change to IEEE Std 80. He wanted to better reflect the short-circuit fusing limit of soft-drawn copper cables with regard to heat dissipation during a fault, and to permit easier comparison of alternative conductors to copper by calculation.

Though we don't challenge the first purpose of Sverak's formula, we address a potential flaw in using it to more easily compare alternative materials.

Sverak identifies the primary reason for his formula as addressing the inability to evaluate and compare the ampacity (current-carrying capacity) of a variety of conductors relative to copper. But instead of establishing a single formula for all conductors based on theoretical performance, it is more accurate to simply evaluate conductors in a test lab.

A universal formula might arise – or not – from these tests, but that has yet to be determined; any modelling methodology must fit the available empirical data, not the other way round.

The results using Sverak's formula (see fig 2) didn't match previously-accepted CCS performance values, leading to speculation about its ability to properly evaluate other bimetallic conductors.

The overwhelming dominance of the Sverak formula after 1981 appears to have influenced CCS manufacturers' literature. The question was reopened again in 2008, when testing showed performance values that exceeded the Sverak calculation.

To resolve things we started a new test program at a high-power lab capable of delivering very high power very accurately on demand.

According to the Sverak formula, CCS 19 No 9 is capable of carrying a maximum 34 kA for up to 500ms before fusing. The 500ms duration I_{sc} fault condition was selected because of its popularity among utility customers for grounding selection criteria.

A single sample was tested twice, at 34kA for 500ms then at 36kA for 500ms, fusing in neither case and thus exceeding the Sverak-predicted maximum current capacity.

Comparison of 1972 CCS vs. Sverak CCS
Time-Current Curves

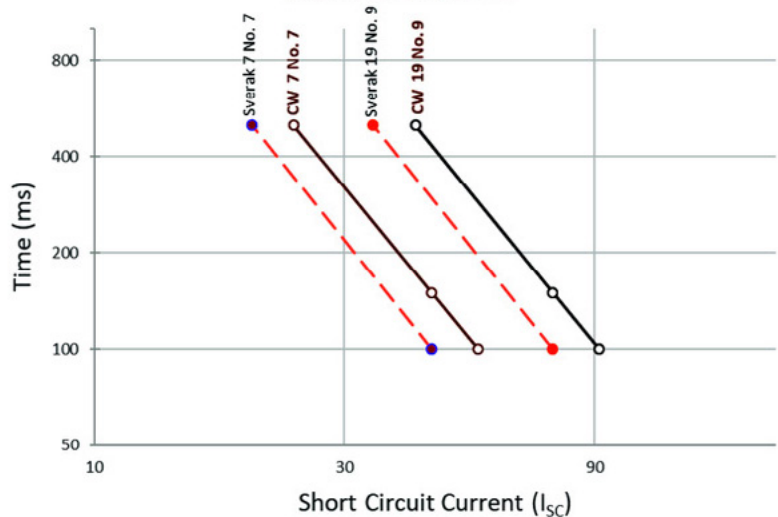


Figure 2: The gap between the 1972 CCS data and the 1981 Sverak formula.

A similar test using CCS 7 No 7 showed it capable of carrying 21kA for up to 500ms before fusing – exceeding the 20kA Sverak prediction.

Other tests demonstrated the same mode of failure at the connecting lugs mentioned in the original 1971 tests. In more recent verification tests, lugs were oversized in an attempt to remove this as a possible mode of failure.

Conductors that glowed cherry red near the limit were allowed to cool and tested a second time, and remained operational.

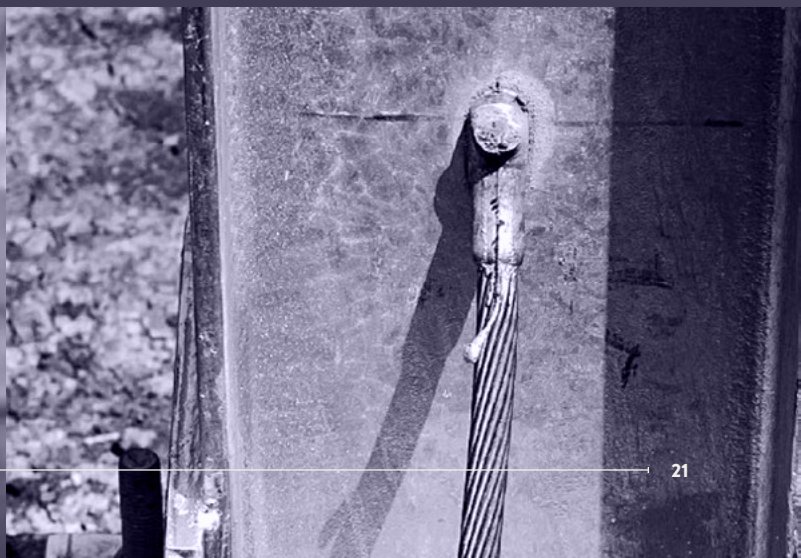
Further work needs to be done on verifying time-current curves for fault durations under 500ms, which requires more stable test apparatus.

Conclusions

There is strong empirical evidence that CCS performance exceeds the Sverak calculations in IEEE Std 80 for ultimate current carrying capability. Fusing limits for CCS developed in the 1970s have been verified in 2018 and 2019 by checking that no fusing occurs at 10% below the measured fusing limit.

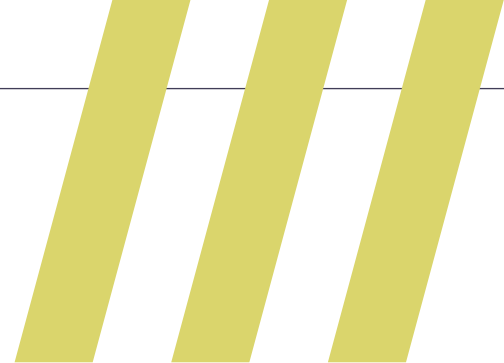
In verification tests, fusing at 500ms occurred at the white-hot lugs while the wire glowed cherry red, despite oversizing the lugs. Further work is needed to verify time-current curves for fault durations of under 500ms.

For more details, visit copperweld.com



IWMA Corporate Members

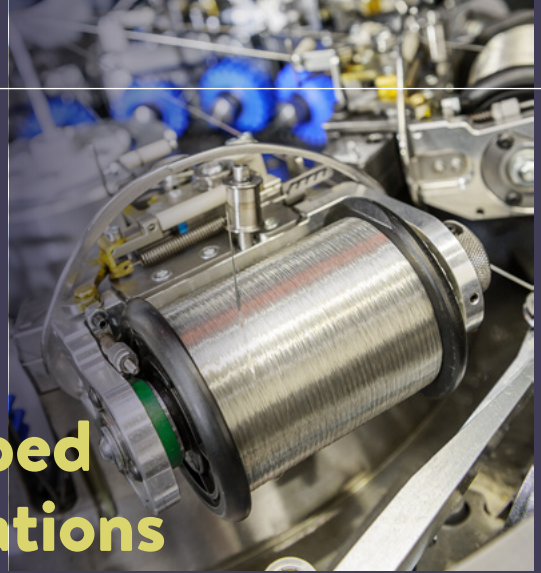
Australia	AFH-Antriebstechnik GmbH	Koner SpA
Australasian Wire Industry Association	August Strecker GmbH & Co KG	LAMPLAST di Aldo Redaelli e C. s.a.s.
Badger Wire	Bongard Machines GmbH & Co. KG	Manentimacchine Srl
Austria	CeramTec GmbH	O.M.A. Srl
EDER Engineering GmbH	Deutsches Kupferinstitut Berufsverband e.V.	PS Costruzioni Meccaniche Srl
Medek & Schorner GmbH	DLB Draht und Litzen GmbH	Japan
Plasmait GmbH	EJP Maschinen GmbH	T Fukase & Company Ltd
Rosendahl Nextrom GmbH	Eurobend GmbH	New Zealand
SHI Kabel GmbH & Co KG	GEO Reinigungstechnik GmbH	Ullrich Machinery Company Ltd
Belgium	Hafner & Krullmann GmbH	Pakistan
FIB Belgium s.a.	Hans Schmidt & Co GmbH	Pakistan Cables Ltd
Fisk Alloy Conductors BVBA	Heinze & Streng GmbH	Premier Cables (Pty) Ltd
NV Bekaert SA	Ideal-Werk C + E Jungeblodt GmbH & Co	Wisi Cables
Smeets S.A. - Loypos	Joachim Uhing GmbH & Co. KG	Poland
Brazil	Kabel. Consult. Ing	Consultex Sp. z.o.o.
Madem SA Ind E Com de Madeiras	KIESELSTEIN International GmbH	NOTA- ZAKLAD MECHANIKI PRECYZYJNEJ
Canada	Lune CHF GmbH	Technokabel SA
A Karpat Ltd	Meisenbach GmbH	WOLCO Sp. z.o.o.
Calmec Precision Ltd	Niehoff Maschinenfabrik GmbH & Co KG	Singapore
Frontier Composites & Castings Inc	Queins Machines GmbH	Plexchem Technologies
I.C.E. Wire Line Equipment Inc	Reber Systematic GmbH	South Africa
QED Wire Lines Inc	Redies Deutschland GmbH & Co.KG	South African Wire Association
China	Riedel SDS	Cape Gate (PTY) Ltd
ABZ (SHANGHAI) SMART TECH.CO.LTD	Siebe Engineering GmbH	Spain
Baicheng Fujia Technology Co., Ltd.	Sikora AG	Aleados del Cobre S.A.
Dongguan Xinmei Precise Mold Co., Ltd	SKET Verseilmaschinenbau GmbH	Aversion Technologies Europe S.L
HEDA INDUSTRIAL CO., LTD	TRAXIT International GmbH	Sri Lanka
Heshan Hang Kei Steel Wire Manufacturing Co.,Ltd	Troester GmbH & Co KG	Kelani Cables PLC
Hipo Electrix Science & Technology Co Ltd	VDKM	Lanka Special Steels Ltd
Jiangsu Handing Machinery Co.Ltd	India	Sweden
Jiangsu Hongtai Stainless Steel Wire Rope Co Ltd	Ajex & Turner Wire Technologies	H. Folke Sandelin AB
Ningbo Kaite Machinery Co Ltd	Associated Engineers and Industrials Private Limited	Luma Metall AB
Pamica Group Limited	Assomac Machines Ltd	Windak Group
Qunye Electrical Co Ltd	Jina Special Steel Works Pvt Ltd	Switzerland
Shanghai Kechen Wire & Cable Machinery Co Ltd	Kay Pee Dies India Pvt Ltd	AESA Cortaillod
Denmark	Mikrotek Machines Ltd	FMS Force Measuring Systems AG
DSE Test Solutions A/S	NAPPOO HI # COMMAND	Microdia SA
Roblon A/S	Peddington Lubricants & Coatings Pvt. Ltd	Zumbach Electronic AG
Finland	Rollring Industries	Taiwan
Maillefer Extrusion Oy	Sneham International	Gwo-lian Machinery Industry Co
Upcast Oy	Supremac Industries India Ltd	Key Rate International Co., Ltd.
France	Italy	U Gear Automatic Machinery Ltd
Balloffet SA	ACIMAF	The Netherlands
Geca-Tapes bv	BB Spring Technology	InnoVites B.V.
UL International (France) SA	DRT Impianti S.R.L.	Lantor BV
Germany	Eurotek S.R.L.	Turkey
ACOTEQ GmbH	Guidetti srl	Aymak Makine Muhendislik Hizmetleri San ve Tic



Bozalioglu Orman Urunleri	John Boddy Consultancy	Commission Brokers Inc
CSM Metalurji Imalat Sanayi Ve Muhendislik Ltd sti	Knight Precision Wire Limited	Fabritex Inc
Er-Bakir Elektrolitik Bakir Mamulleri AS	Leoni Temco Ltd	FH Machinery Inc.
GURFIL Sanayi ve Elektronik Cih. Paz. AS	Leviton Manufacturing UK Limited	Fort Wayne Wire Die Inc
Sarkuysan Elektrolitik Bakir San ve Tic	Lewis Wire Limited	Gem Gravure Co Inc
Untel Kablo A.S.	Locton Ltd	Huestis Industrial
Uygar Makina San.Ve Tic Ltd.Sti	Marldon Group Limited	Mathiasen Machinery Inc
UK	Metalube Limited	Nano-Diamond America Inc
Acuity Products Limited	MSS Products Ltd	NDC Technologies Inc
Air Control Industries	NeoFil Ltd	Reelex Packaging Solutions Inc
Alloy Wire International	Novametal Wire Uk Ltd	Tianjin Huayuan Times Metal Products Co Ltd
Ambrell Ltd	OMA (UK) Ltd	Vinston US Corp
Anglia Metal Ltd	Ormiston Wire Ltd	WCISA
ArcelorMittal Kent Wire Ltd	Pentre Group Ltd	Weber & Scher Mfg Co Inc
Bar Products & Services Ltd	Permanoid Ltd	Wire & Cable Technology International
BASEC (British Approvals Service for Cables)	PEXTRUSION Ltd	Wire & Plastic Machinery Corp
Bridon-Bekaert The Ropes Group	Pneufom Machines Ltd	Wire Association International Inc
British Diamond Wire Die Co Ltd (Balloffet UK)	Pressure Welding Machines Ltd	Wire Lab Company
BWE Limited	Proton Products International Ltd	YTC America Inc
Cable Tapes UK Ltd	Prysmian Group	Vietnam
Central Wire Industries UK Ltd	Q8Oils	Hoang Hung Long Co., Ltd
Chaplin Bros (Birmingham) Ltd	Rautomead Limited	Vietnam Electric Cable Corp (CADIVI)
Chemetall Ltd	RichardsApex Europe Limited	
Cimteq Ltd	Ridgway Machines Ltd	
Condat Ltd	SACO AEI Polymers UK Ltd	
Control and Power Engineering Ltd	Scott Precision Wire Ltd	
Copperweld Bimetallics UK Ltd	Spring Tooling Ltd	
CRU Group	Stonepark Consultancy Ltd	
De Montfort University	Stride Supplies Ltd	
EFD Induction Ltd	TapeFormers Ltd	
Foxton Dies Ltd	Techna International Ltd	
FUCHS Lubricants (UK) Plc	Techno Commerce Ltd	
G Church - Consultancy	The Worshipful Co of Tin Plate Workers Alias Wire Workers	
Goodwin Machinery Ltd	Thompson & Hudson Wire Machinery	
H&R ChemPharm (UK) Ltd	University of Southampton	
HB Cables & Components Ltd	Warbrick International Ltd	
Holton Crest Ltd	Webster & Horsfall Limited	
Huntstar Trading Ltd	Whitelegg Machines Ltd	
Inductotherm Heating & Welding (Radyne)	Wintwire Ltd	
Institute of Spring Technology Ltd	Wire Electric Supplies Limited	
Integer Research Ltd, an Argus Media Company	XL Technologies UK Limited	
Interlink Import-Export Ltd	United Arab Emirates	
International Trade Shows Link Ltd	Ducab	
Intras Limited	USA	
Itaya Europe limited	Bartell Machinery Systems	
JG Tec Ltd	Cemanco LC	
John Binns & Son (Springs) Ltd		

Braiding

Niehoff's BMV 16 rotary braiding machine is equipped with three patented innovations



Maschinenfabrik Niehoff has nearly 70 years of experience in design and manufacture of machinery for the production of non-ferrous wires and automotive, power, data and special cables. The production range includes the vertical lever arm rotary braiding machines of the BMV type equipped with 12, 16 or 24 bobbin carriers. The most recent version of the 16-carrier version features three patented innovations:

Three innovations

1st innovation: The BMV 16 braiding machine can automatically increase the bobbin speed from 175 rpm to a maximum value of 200 rpm and reduce the frequency of the lubrication intervals. The result of this patented NIEHOFF solution is an increased production output of 14%. This means that the user needs less time for a certain order volume, and the braided product is less contaminated with oil.

2nd innovation: The machine keeps the coverage ratio of the cable always constant at the preset value, for example 80%. The reason for this innovation is that a cable to be braided entering the braiding machine can vary in diameter. If a certain minimum coverage even with a changing cable diameter has to be maintained, up to now a certain safety margin has had to be added. The patented NIEHOFF solution makes it possible to apply only as much braiding wire as necessary. This saves 15% material or even more! A measuring device permanently controls the diameter of the incoming cable before it enters the inlet of the braiding area and regulates the line speed – and therefore the braiding pitch – accordingly. Coverage is documented and can be proven to customers.

3rd innovation: Via WTC (Wire Tension Controlling) system and dancer position the machine controls the wire tension of the braiding bobbins, from full to empty condition. Thus, all braiding wires are applied to the product to be braided with uniform tension. The result of this patented NIEHOFF solution is a uniform braid along the whole length of the

product. This means that faultless shieldings can be produced, which are particularly required for applications in the area of autonomous driving. Wire tension is documented and can be proven to customers.

Further advantages of all BMV braiding machines

The BMV braiding machines are designed for processing of bare or plated round or flat wire made from copper, aluminium or stainless steel as well as artificial yarn and fibers. They feature an infinitely adjustable electronic control of line speed and braiding pitch as well as an automatic central lubrication system. By means of different monitoring systems, some optionally available, all BMV braiders can operate unattended for extended periods and without frequent operator intervention. Machine and process data linked to Industry 4.0 can be collected and used.

The machines are optionally equipped with an integral taping device enabling braiding and the subsequent taping process to be completed in one step. It is possible to manufacture, if required, also products with tapes which must be applied both before and after braiding in S or Z direction. These central taping devices can also be individually activated. The advantages: Space savings, elimination of rewinding processes and an increase in product quality.



wire India postponed due to Coronavirus outbreak

wire India has been postponed in response to the ongoing Coronavirus pandemic. The exhibition was scheduled to commence November 2020 but will now take place 25 – 27 March 2021.

The event has been rescheduled alongside Messe India's sister trade fair, Tube India, the METEC India and India Essen Welding & Cutting fairs.

The IWMA has been working closely with Messe regarding the postponement of the successful trade fair, where in the region of 400 exhibitors from 25 countries are expected to attend.

"We were in discussions with Messe to reassess the developing situation," said IWMA executive manager Andy Lewis. "It was obviously a difficult decision, but in the circumstances, it was the only one Messe could reasonably make. We support the change totally. We are in touch with members to keep them updated."

The postponement of the leading national Indian trade fairs is part of the effort being made by organisations internationally to scale-down or rearrange operations.

"Many trade shows – usually a major international driver of all kinds of industrial sales – are being postponed or cancelled now because few organisers can guarantee that events due later in the year, even November, will be safe for large gatherings.

Organisers and exhibitors need to know now what resources and time they will have to commit, or not commit," said Andy Lewis.

Friedrich-Georg Kehrler, Messe Düsseldorf's global portfolio director for metals and flow technologies said of the Indian exhibitions: "We are very grateful to our exhibitors and partners for their support in these difficult times.

“

We will master the challenges ahead. It's all the more reason to look forward to welcoming guests to Mumbai in March”.

For more details, visit wire-india.com

The shows must go on! wire Düsseldorf and wire China

As countries across the world are emerging from lockdown, there's a collective focus on how the cable and wire community can come back even stronger than before.

Cimteq is pleased to confirm its support of two important 2020 trade shows: wire China (23 to 26 September 2020) and wire Düsseldorf (7 to 11 December 2020). As the largest cable trade show in Asia, wire China offers access to some 1,600 exhibitors. While, wire Düsseldorf has expanded its portfolio to include, for the first time, fastening elements and springs and expects in excess of 38,000 trade visitors over the five days of the show.

Understandably, exhibitors and visitors alike seek reassurance that both venues ensure their shows' energy is matched by a robust approach to Covid-19 safety.

Mike Braddock, Cimteq CEO, comments on preparations for the events:

“The trade fair organisers Messe Düsseldorf Shanghai, Shanghai Electric Cable Research Institute Ltd and the Metallurgical Council of China were quick to set up a Covid-19 emergency team consisting of project team leaders, risk management and legal experts. I'm happy to report that this team has kept us informed of all new protocols at every step of the way. We're really excited to be showcasing at both events. We'll be offering demonstrations of our new CableBuilder family of products (more on that soon) and CableMES.”

For further information on Cimteq at wire China and wire Düsseldorf, contact

For more details, visit [cimteq.com](https://www.cimteq.com)



Dates for the 2020/2021 wire exhibitions

As a wire industry partner with Messe Düsseldorf GmbH, the IWMA attends the biggest international exhibitions and offers attending members great support through its stand at the shows and industry networking events.

Visit www.iwma.org to find out more.



**23rd – 26th
September
2020**

Shanghai New
International Expo Centre
(SNIEC), Shanghai, China



**7th – 11th
December
2020**

Messe Düsseldorf,
Germany



**25th – 27th
March
2021**

Bombay Convention
& Exhibition Centre,
Mumbai, India



**8th – 10th
June
2021**

Expocentre, Moscow,
Russia



**22nd – 24th
September
2021**

BITEC, Bangkok,
Thailand



**5th – 7th
October
2021**

São Paulo Exhibition and
Convention Centre,
São Paulo, Brazil

RoSET: Rosendahl's next generation power cable insulation technology

A number of forward-thinking cable makers, along with major utilities worldwide, are already producing and testing polypropylene-based insulation systems (PPC) for MV and HV applications, both in AC and DC.

PPC systems are characterized by excellent properties: lower carbon footprint, no degassing needed, no byproducts, recyclable, equal or better electrical properties, higher operating temperature, to name just a few. These cables can also be installed in the XLPE-based network using the same accessories as XLPE cables.

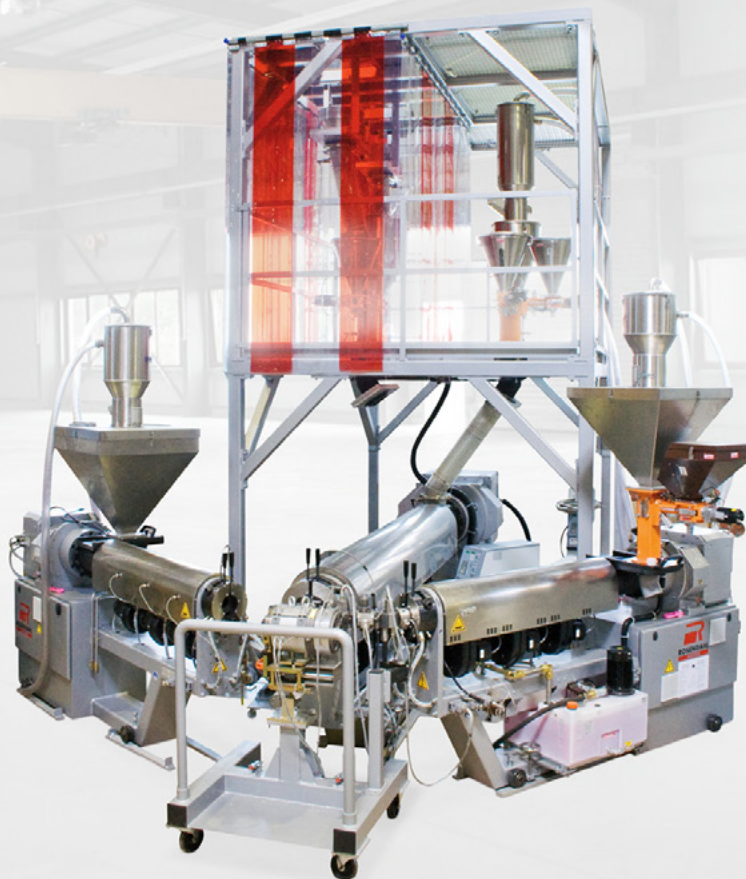
Medium-voltage AC cable properties with RoSET

Rosendahl has conducted both internal and test institute tests, which revealed excellent electrical performance at both the AC breakdown and impulse tests. The full electrical type test was successfully passed and also showed very low loss factor (Tan Delta) values, even when compared to the so-called reference peroxide XLPE grade.

The new RoSET insulation system is tailored to MV cable production and should be compared to similar kinds of grades. Quite often these are water-tree retardant XLPE compounds with different properties than HV/EHV XLPE grades. As is well known, the thermal conductivity of pure polypropylene is much lower than that of polyethylene. With polypropylene

copolymers, however, the difference is no longer so great.

Together with development partner HV Cable Solutions, Rosendahl made ampacity calculations with different XLPE and PPC grades for a single 20 kV cable. The results showed that the polypropylene compound cable can have better current carrying capacity, transmission capacity and lower electrical losses at 90° C and that the cable can also be run at 110° C, if necessary. This was also the case in auxiliary tests when a similar MV XLPE cable was compared to a MV PPC cable.



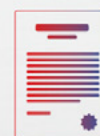
RM-A



PPC



Process
Know-how



Product
Guarantee

The benefits of a dedicated production line for PPC

Rosendahl have extensively tested RoSET MV PPC, both in their Pischelsdorf laboratory and with complete production runs on an installed line, with a dedicated extrusion setting for the RoSET insulation system compounds with high and stable performances.

To ensure that the proper care is taken when handling the materials, and to minimize the risk of cross contamination when changing from one material to another, a special material handling system has been developed. A dedicated horizontal

MV PPC insulation line is strongly recommended to avoid any problems, and to ensure successful test and production runs to serve the forerunners on the market with a best available quality.

As the PPC technology develops towards higher voltages and different properties, Rosendahl will continue to be part of that development.

For more details, visit rosendahlnextrom.com



Metalube celebrates growth through international partnerships

UK based manufacturer of specialist industrial lubricants, Metalube, has delivered 20% growth across recent years.

The global business, built around the production of lubricants for drawing non-ferrous wire and tubes, contributes part of their recent success to a set of international partnerships. Strategic partnerships have been formed between Metalube and Italian based Industrial Fluid specialist Bellini SpA and USA based Blachfords.

Bellini SpA will now distribute the entire Metalube range of lubricants across Italy, with Metalube India distributing Bellini's metal cutting lubricants throughout India in return. The partnership with H.L Blachford Ltd will focus on selling Metalube's high quality, non-

ferrous copper and aluminium wire drawing lubricants across the United States, Canada and Mexico.

Metalube has continued to invest back into the business at the Irlam plant headquarters, with the introduction of both mixing vessels and more energy efficient production technology. The plant itself has seen growth of more than 50% and has expanded into new premises next door, with the purchase of a new manufacturing site nearby.

The company was built around the production of lubricants for drawing non-ferrous wire and tubes. Lubricool, Alumol and Tubol products along with OCG, a range of protective greases for overhead line conductors, remain key parts of the portfolio, alongside more recent additions

of wire rope lubricants and chain oils. The international company exports 95% of its production to over 90 countries worldwide and has offices in Manchester, Dubai, Mumbai, São Paulo and Shanghai.

Newly recruited wire and cable new business development manager, Adrian Day, will be attending wire Düsseldorf, along with a selection of Metalube team members from across the globe. Where the company will continue to have a large presence at the exhibition.

For more details, visit [**metalube.co.uk**](https://www.metalube.co.uk)

Sikora appoint Dr. Jörg Wissdorf as new member of the executive board

SIKORA AG, manufacturer and global supplier of innovative measuring, control, inspection and sorting technology has appointed Dr. Jörg Wissdorf as a new member of the executive board since March 1, 2020. He is familiarized for succeeding executive board, Harry Prunk, who will retire in a few months after 45 successful years with SIKORA.

“We are delighted to have won our ideal candidate with Dr. Wissdorf” says Prof. Dr. Thomas Sikora, chairman of the supervisory board of SIKORA AG.

Jörg Wissdorf will be responsible for the areas Sales, Marketing and Service after a transition period together with the long-standing board member, Mr. Harry Prunk.

Dr. Wissdorf, a graduated aerospace engineer, previously worked in several leading positions in Sales and Marketing as well as managing director of national and international companies. “I look forward to the new responsibility and want to further expand the growth of the company in the existing as well as in the younger markets,” says Jörg Wissdorf.

For more details, visit sikora.net/en



New SIKORA AG executive board member:
Dr. Jörg Wissdorf



Wire manufacturer AWI step forward to help in ventilator production

Alloy Wire International (AWI) has been commissioned to produce more than 5 kilometers of material that will be used to produce crucial parts for use in life-saving equipment destined for the groundbreaking Nightingale Hospital in London.

The wire, manufactured in the West Midlands, is helping support the UK's unprecedented drive to build more ventilators.

Alloy Wire International is one of the UK's leading manufacturers of round, flat and profile wire, with its 60-strong range featuring a number of medical suitable materials including Phynox, MP35N, Stainless 316LVM, Nickel 200&201 and Inconels.

The company, which holds more than 200 tonnes of EU/DFARS compliant stock at any one time, put its Emergency Manufacturing Service (EMS) into action to meet the urgent requirements of a spring maker that is supplying into the VentilatorChallengeUK Consortium to assist in the ramp-up of Smiths and Penlon Rapidly Manufactured Ventilator Systems.

AWI is also supplying urgent quantities of custom-made Inconel spring wire and 316v Stainless Steel to a spring maker in Wisconsin and a major medical centre in Seoul.

“We work with over 5000 customers every year and we knew a lot of them supplied into critical sectors that deliver essential services,” explained Mark Venables, Managing Director of Alloy Wire International.

“The Covid-19 pandemic has brought this sharply into view and, over the last week, we have been busy manufacturing a range of wire for companies that are playing a crucial role in supporting the frontline, often meeting extremely demanding timelines in the process.”

The company’s workforce is working around the clock to meet the requirements of existing and new customers, with material available from 0.025mm (.001”) to 21mm (.827”) in small batches or medium/large volumes.

In addition to the projects it is completing for ventilator production, AWI is also providing wire that goes into electric heating elements used for medical plastic forming and for the critical sterilisation of vital equipment.

Angus Hogath, Sales Director at AWI, commented: “We are very proud of the heroic actions of frontline NHS and social care staff and this is our own small way of supporting them to help save lives.

“Our staff have been fantastic and really embraced our role as a key manufacturer, adopting the Government’s social distancing policies whilst still delivering wire that is going to be used in increasing the number of ventilators in the UK and supporting other crucial medical equipment.

“AWI is ‘at the source’ of many first steps in creating life-saving equipment and we are committed to maintaining this supply throughout the pandemic.”

For further information, please visit www.alloywire.com or follow @alloywire on Twitter.



Metallic Wire & Cable: market in turmoil amid Covid-19 crisis

Q2 Review from CRU

The outbreak of Covid-19 has developed into an ongoing global pandemic, with epicentres shifting from China to Europe and North America. As the number of cases and deaths worldwide continue to grow, many of us are now living under some form of lockdown. Looking beyond the human tragedy, global economies and all types of industrial activities have been severely impacted, and metallic wire and cable industry is no exception.

The global wire and cable market is in turmoil, driven by a pronounced weakness across all cable end-use sectors. With automotive manufacturers temporarily shutting plants, construction projects delayed, and industrial activities grinding to a halt, the collapse in cable demand is not limited to any single region, but widespread. Indeed, CRU forecasts total global cable demand to contract sharply this year, at a rate only previously seen during the Global Financial Crisis (GFC).

CRU have downgraded our cable consumption forecasts across all regions and over the entire forecast horizon. The change primarily reflects the virus-induced slowdown in manufacturing and construction activity. Looking at specific regions, 'Rest of the World' and Europe have seen the largest percentage downgrades, with 2020 demand being cut to near double-digit declines.

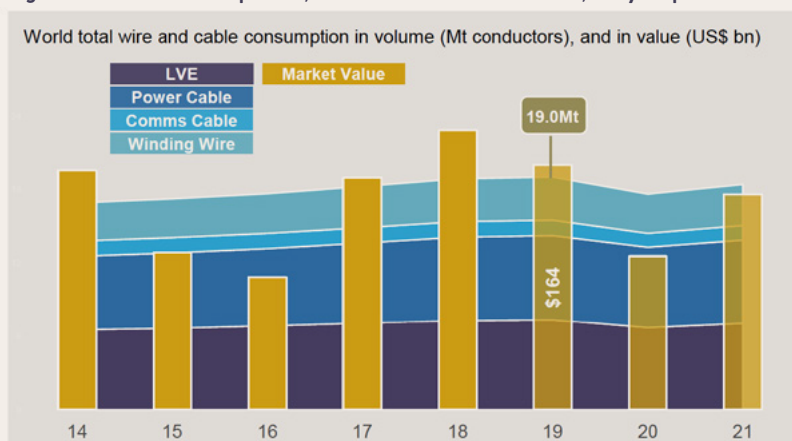
Covid-19 will not equally impact all cable end-use sectors. CRU expects automotive demand to be the most severely hit, with consumer demand remaining weak over the medium term. Construction and industrial sectors are expected to follow, with the utility sector, expected to be the most protected sector. As a result, LVE cable demand will be the most affected,

accounting for nearly half of the total 2020-2024 downgrade.

Looking forward, it is important to highlight that we do anticipate a recovery in world total cable demand next year in our base case. However, we do not expect cable demand to reach 2019's level until 2023, in terms of conductor tonnes.

For more details, visit [crugroup.com](https://www.crugroup.com)

Figure 3: A rebound is expected, but will be weaker than 2010, the year post the GFCV



DATA: CRU. Note: y-axis and exact data points omitted – subscriber only content.

Successful Industry Lunch and 2020 Young Person of the Year Award

More than 150 members attended the IWMA industry lunch this year – an annual event that also included our inaugural young person of the year award and gave us an opportunity to showcase the new IWMA branding.

Held on 5th February 2020 at the Mere Golf Resort & Spa in Knutsford, the day commenced with networking and a welcome speech from IWMA Chairman Martin Van Der Zwan, who looked back over the last 50 years and forward to an exciting year for the industry.

Riccardo Weber, Director of Customer Care, Marketing & Product Development for Prysmian UK, then gave a keynote speech and Chenfei Wang, analyst for wire, cable & fibre optics for CRU Group, delivered a presentation titled 'End of an era: What lies ahead after China's demand slowdown?'.

The 2020 young person of the year award attracted many applications from all over the world. These were eventually narrowed down to a shortlist of 3 candidates:

- Alun Owens, Cimteq UK
- Andrew Steptoe, Bridon-Bekaert the Ropes Group UK
- Jinlin Gao, Bekaert China

The inaugural IWMA young person of the year title was awarded to Alun Owens, who won a £500 prize. As runner-up shortlisted candidates, Andrew and Jinlin received prizes of £100 each.

This new IWMA accolade was very well received and entries for next year's young person of the year award will open in September 2020.





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