

DATA CENTRES

COMPLETE CABLE SOLUTIONS FOR DEMANDING INDUSTRIES



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CABLES FOR CRITICAL INFRASTRUCTURE

All data centres - hyperscale, co-location and enterprise - rely on a network of cables to deliver power and maintain service. Choosing the right cable for your project is critical to your operation's ongoing success.

Tailored Solutions on a Global Scale





requirements.

One size and solution does not fit all.

Our portfolio covers data centre applications across low and medium voltage power, instrumentation, data, and control cables, manufactured to British, European and international standards.

We can support your project with cables that are:



CPR





It starts with the cable but there's much more to it. We tailor our solutions to the specific data centre design and the country regulatory

LOW SMOKE ZERO HALOGEN

Essential to protect sensitive equipment from toxic smoke and fumes in the event of fire. We can supply Low Smoke Zero Halogen cables across the range, including Medium Voltage cables.

ENHANCED CPR COMPLIANCE

With different countries setting different minimum Euroclasses, our expert knowledge of the Construction Products Regulation can help you navigate compliance.

EASY STRIP DESIGNS

Speed of installation and ease of preparation save time and labour onsite. Cable constructions are designed for easy strippability.

WATER RESISTANT

Water blocking measures should be tailored to and reflect the degree of resistance required in specific installations.

THIRD-PARTY ACCREDITED

Independent third-party certification marks provide valuable assurance of quality for specifiers. This includes the BSI Kitemark on individual cables or as project-wide testing, as well as geo-specific approvals such as BASEC and KEMA.

SUSTAINABILITY CONSCIOUS

Providing documentation to support Environmental Product Declarations (EPDs) and Life Cycle Analysis (LCA) to aid sustainable and responsible procurement decisions, backed by carbon emissions reducing actions across our operations.

TRUSTED TO CONNECT

Please see our website for the wider portfolio and full technical specifications, or speak to our data centre technical and project management teams about the cables needed for your specific project.

Creating the infrastructure

MEDIUM VOLTAGE - BRITISH STANDARD ARMOURED

3.3/6.6kV | 6.35/11kV | 12.7/22kV | 19/33kV

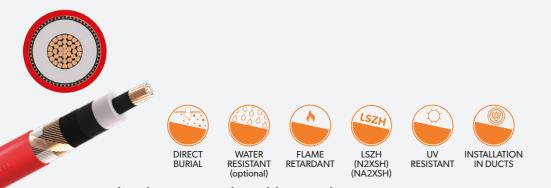


BS 6622 (PVC) and BS 7835 (LSZH)

Single core AWA or multi core SWA armoured cable suitable for direct burial. Normally supplied with Class 2 stranded copper conductors but Aluminium also available. Suitable for laying direct into the ground.

MEDIUM VOLTAGE - EUROPEAN STANDARD UNARMOURED

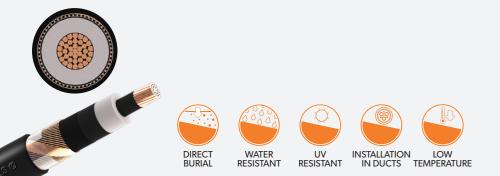
6/10kV | 12/20kV | 18/30kV | 26/45kV



N2XSY (PVC) and N2XSH (LSZH) (COPPER) NA2XSY (PVC) and NA2XSH (LSZH) (ALUMINIUM)

Single core XLPE insulated and PVC or LSZH sheathed power cable with copper wire screen suitable for outdoor static installation without heavy mechanical or tensile strain.

LSZH only: Optional waterblocking measures (longitudinal/radial) available to prevent water ingress.



N2XS2Y (COPPER) and NA2XS2Y (ALUMINIUM)

Single core XLPE insulated and Medium Density Polyethylene (MDPE) sheathed cable with copper wire screen suitable for in-ground installation or in cable ducts with water present. Optional dual longitudinal water-blocking tapes available to prevent water ingress.

0.6/1kV

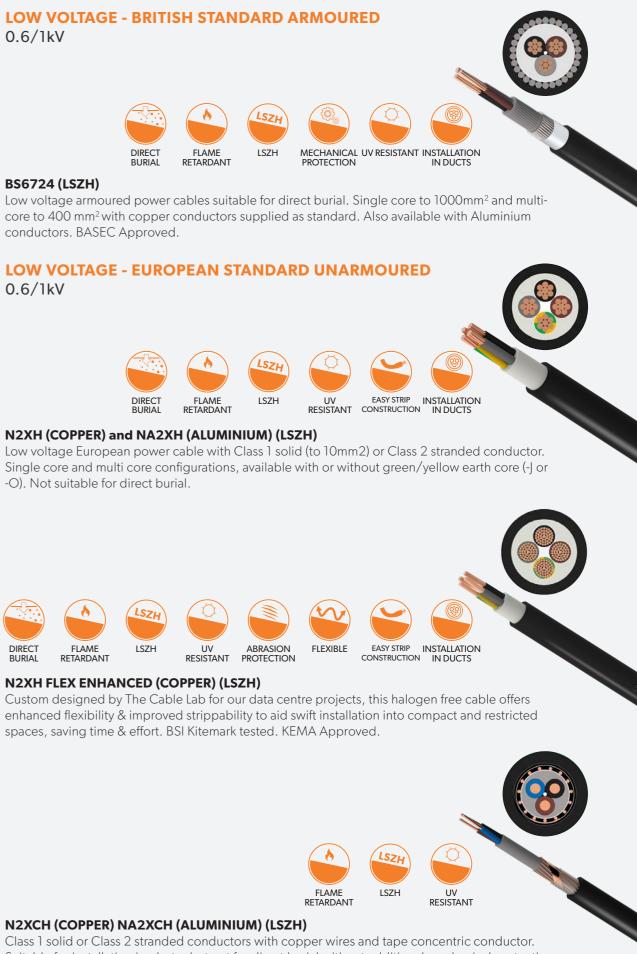


conductors. BASEC Approved.

0.6/1kV



-O). Not suitable for direct burial.



Suitable for installation in plaster but not for direct burial without additional mechanical protection.

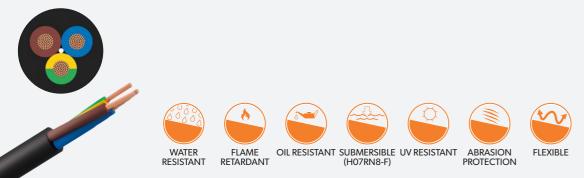
Powering the equipment

LOW VOLTAGE FLEXIBLE - EUROPEAN HARMONISED 450/750V



H07ZZ-F (LSZH) (RUBBER)

Robust multi core cable offering flexibility with LSZH rubber sheathing for applications under moderate amounts of stress. Used extensively throughout data centres to power server cabinets and UPS. BSI Kitemark tested.



H07RN-F and H07RN8-F (RUBBER)

Heavy-duty EPR insulated flexible rubber cable for trailing power applications under moderate mechanical and thermal stresses. H07RN8-F suitable for permanent submersion in water to 10m.



RV-K (PVC)

Flexible low voltage power distribution cable with water-resistant PVC sheathing available as single core or multi-core. Suitable for installation outdoors and in ducts.



RZ1-K (LSZH)

Flexible power and control cable with green LSZH Polyolefin sheath. Designed for internal fixed installation but UV resistant for exposure to sunlight. Single core and multicore cable.

LOW VOLTAGE - EARTH 450/750V

6491B - H07Z-R (LSZH)

LOW VOLTAGE FLEXIBLE - PANEL WIRING 300/500V / 450/750V

2491B - H07Z-K / H07Z-K (LSZH) Single core LSZH cable used for power switchgear panels in applications where PVC 2491X or tri-rated are not suitable. Available in 11 insulation colours. BASEC Approved.

INSTRUMENTATION 300V (90V and 500V on request)



EN 50288-7 materials available.



Single core LSZH cable used in fixed wiring protected installations. Available as standard in sizes up to 630mm² and in 11 insulation colours. BASEC Approved.





European standard instrumentation cables with LSZH sheathing. Options for collective screening and PiMF. Pairs, triples and quad formations. Other insulation and sheathing



STANDARD / ENHANCED GRADE

Fire resistant cables for delivering power and auxiliary control in fire alarm systems, voice alarm systems, and emergency lighting systems covered under BS5839-1, BS5266 and BS8519. Also available with augmented fire resistance to maintain circuit integrity for up to 120 mins in building with phased evacuation.



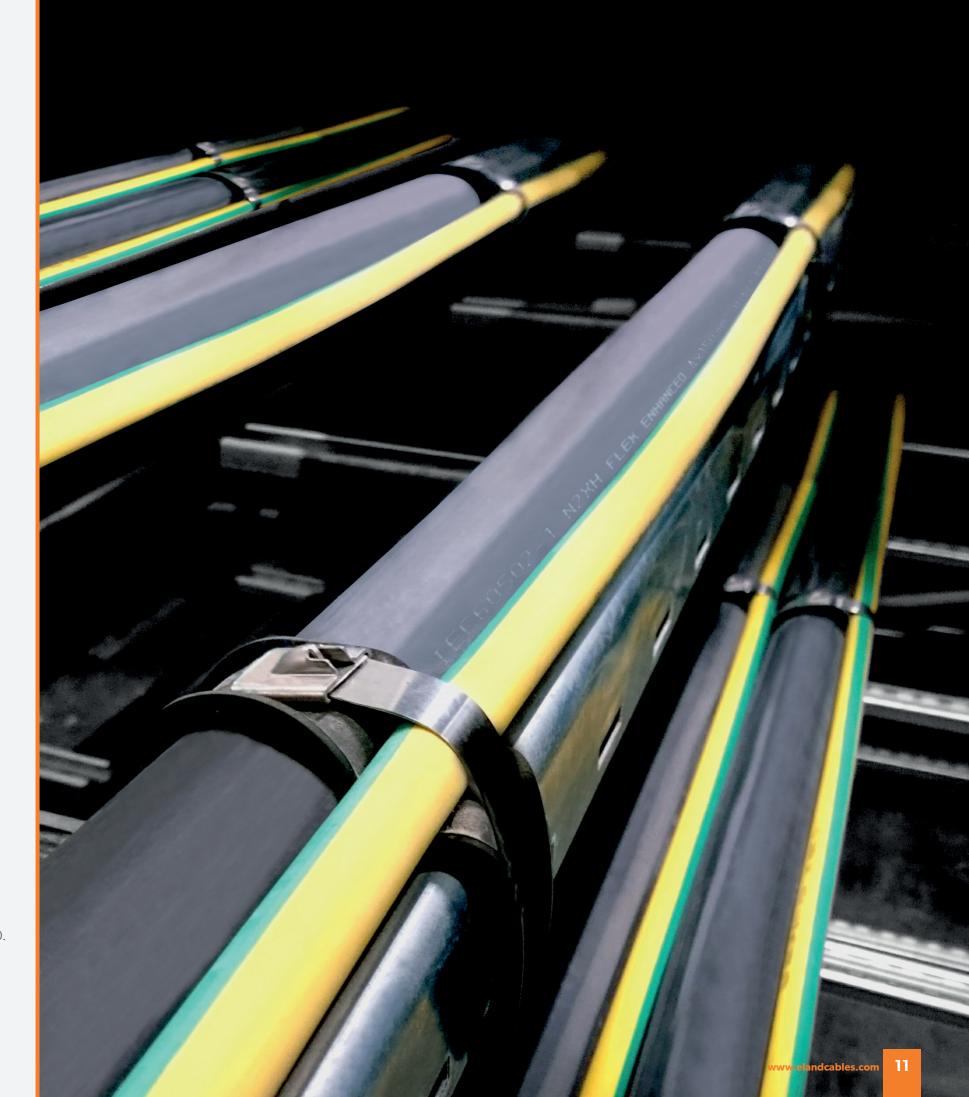
NHXH / NHXCH FE180 - E30/E90

European fire cables meeting IEC/EN 60332-3-24 available with or without concentric conductor screen, for emergency lighting, alarm and fire suppression systems. Provides insulation fire resistance for 180 mins and augmented circuit integrity for up to 90 mins.



BS 7846 F120 ARMOURED FIRE PERFORMANCE POWER 0.6/1kV

Steel wire armoured fire performance cable to BS7846 for applications requiring circuit integrity with resistance to fire, water jets, and mechanical shock to F2 and F30, F60 and F120.









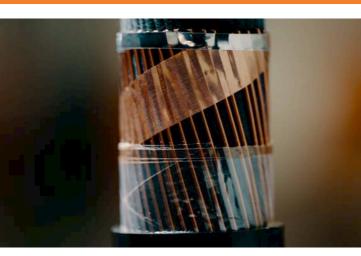














FOCUS ON MEDIUM VOLTAGE CABLES

Expertise brings confidence to MV installations

Medium Voltage cables are key to the critical infrastructure. Delivering the performance required over the lifespan expected is essential – any return to site for unplanned maintenance, repair or replacement is costly financially, in time, and from an environmental standpoint.

SPECIFICATION IS THE STARTING POINT

The right cable balances performance demands, installation design, and environmental challenges, be that being laid in water-logged buried ducts in ground subject to low temperatures or running internally in a building. Cable bend radius, armouring, tailored screen sizes, water-resistance and the varying methods of waterblocking should all be considered. Our team can help you identify the best-suited cable.

COMPLIANCE IS KEY

With regulatory requirements and legislative compliance potentially differing between installations, does your Medium Voltage cable require CPR compliance? Would a third-party accreditation or quality mark provide assurances? Our team can design a white paper of compliant products.

TESTING IS IMPERATIVE

Before your cable arrives onsite you want to know it's been tested intensively. Rigorous laboratory testing in our specialist MV facility verifies the cable's performance and compliance now and in the future using accelerated ageing techniques. Our dedicated mobile testing unit is also at your disposal should its services be required onsite.

ASSURANCE BRINGS CERTAINTIES

With MV cables in particular, there is no one-size-fits-all solution. With your data centre relying on these cables to underpin the entirety of operations, complacency is not affordable. Issues do still occur - they're reported from major power distribution projects across all industries. It's why having access to experts from specification through to installation can be such an advantage.

"Uptime and reliability are the central pillars of any data centre. It's delivered through a cable network that can be relied upon to provide the sustainable operations you demand. Testing, compliance, and the precise specification truly matter."

Darren Clark, Eland Cables



Technical experts and Industry specialists combine to work with you.

milestones.

By working with experts in their field you have access to the information you need to keep the project on-track.

TRUSTED AS EXPERTS

Our project support services are focused on adding value to your project, delivered by an experienced team. We work in partnership with consultants and electrical contractors to carry out a build that's run against agreed project

TECHNICAL SUPPORT

Our technical experts are on hand at every stage, from specification to completion, to provide answers to your cable questions. With strong manufacturing backgrounds they now sit on national standards bodies and committees and can advise on the suitability of a cable across matters of construction, electrical design and compliance.

INDUSTRY BEST PRACTICE

Data Centre specialists with industry and regulatory technical qualifications,, give guidance based on their real-world experience of hyperscale projects, with guidance ranging from installation challenges to future-proof solutions.

PROACTIVE PROJECT MANAGEMENT

Our dedicated project team use all their experience to ensure your project runs smoothly, providing the support, flexibility and reactive approach that makes us the partner of choice on largescale multi-phase builds.



Quality and Compliance are key to minimising unplanned maintenance and downtime.

We're unashamedly obsessive about testing our cables as it protects our customers from sub-standard and non-compliant products.

Our high quality, high performance cables face the strictest quality assurance processes, underpinned by cable testing in a laboratory globally recognised for its testing capabilities.

With compliance key to contractors delivering projects on-time, and for end users avoiding maintenance and downtime, it means you can have total trust that your cables and accessories meet the highest standards,





TRUSTED TO PERFORM

INDUSTRY-LEADING QUALITY ASSURANCE

Rigorous quality checks ensure our cables are in optimum condition to be despatched to you. From audits of manufacturing sites to inbound goods testing and pre-export checks, we tightly control the cables and accessories we supply.

WORLD-CLASS LAB TESTING

Internationally, the gold standards for cable testing laboratories are IECEE CBTL and ISO/IEC 17025 - The Cable Lab holds both accreditations. Our extensive testing capabilities allow us to verify quality and compliance by analysing the completed cable and the component layers, including after accelerated ageing for assurances of longevity.

THIRD-PARTY QUALITY MARK TESTING

We can test cables under the BSI Cable Testing Verification Kitemark to provide a globally-recognised third-party mark of quality. It requires in-depth testing to certify the performance safety standards of the cable across specific manufacturing runs and across core and size configurations.



"As the first company to achieve the BSI Cable Testing Verification Kitemark, Eland Cables sets a new benchmark in cable compliance."



TRUSTED TO DELIVER

Logistics that reflect your order and your site is a key part of customer service

Our project support services are focused on adding value to your project, delivered by an experienced team.

We work in partnership with consultants and electrical contractors to carry out a build run against agreed project milestones. You need to work with a team who takes responsibility; that can be flexible, and who understand that getting the right cable to the right place at the right time is paramount to success. You need to work with experts in their field so that you have access to the information you need to keep the project on-track.



FORS

DEDICATED TRANSPORT TEAM

We'll deliver your cables where and when you need them. Phased and planned just-in-time deliveries can be supplemented by ad-hoc requirements. Our Pan European fleet has on-time delivery rates of 99.9%.

FORS SILVER ACCREDITED FLEET

Our modern Euro6 fleet of articulated and rigid trucks, and specialist unloading vehicles, are FORS Silver accredited. Our Transport Compliance team and JAUPT accredited driver school ensure our drivers remain up-to-date with all requirements including the Certificate of Professional Competency, and our maintenance workshop keeps our vehicles in prime condition.

FULLY TRACEABLE, FULLY CONTACTABLE

Our drivers are connected and in constant contact with our transport team, allowing up-to-the-minute location tracking for site ETAs and instant PODs.

PROJECT DISTRIBUTION HUBS

To aid accessibility for large-scale builds we establish dedicated distribution hubs where cables can be stored ready for local delivery when site requires. It minimises on-site storage and space demands, reduces security risks, and can provide a buffer for unforeseen demands.



CASE STUDIES

Having a cable team that understands the industry can make a tangible difference to the smooth running of your project.

CLIENT CONFIDENTIAL

The Netherlands

PROJECT SCOPE:

Technical and commercial support across product selection, local regulatory requirements, and custom cable design for an enterprise data centre in Schipol.

REQUIREMENT:

The full range of LV and MV power cables, earthing, and accessories including glands and cleats

ELAND CABLES' SOLUTION:

Our technical expertise saw us advise on CPR regulatory requirements in the Netherlands and the wider Dutch wiring regulations NEN1010.

The project included a requirement for a flexible cable with some additional considerations and enhancements rather than an off-theshelf power cable, so The Cable Lab designed a cable meeting the performance and installation requirements before submitting and gaining third-party approval within 6 weeks of the client's initial request.

A full product solution was offered and accepted for all cables and accessories giving the client a single point of contact for all their electrical needs.

By supplying both cables and accessories, the cables could be precisely calibrated to match the accessories sizes, minimising onsite termination issues.



CASE STUDIES

Having a cable team that understands the industry can make a tangible difference to the smooth running of your project.v

INTERXION

France

PROJECT SCOPE:

Urgent supply of LV power cables for maintenance of an existing French data centre

ELAND CABLES' SOLUTION:

The client was seeking supply of 0.6/kV power cables with low smoke zero halogen sheathing and meeting a range of European cable standards.

We identified the most appropriate cable in the cross-section size and core configuration to meet the installation and application demands, and were able to supply the 7000 metres needed from stock.

Our cable was delivered to site in under 48hrs from order, allowing timely maintenance to proceed.

"GE has benefitted from Eland Cables' innovative and flexible approach to working together – as a supplier they make working together easy. The high level of service, the expert technical support, and the consistent quality of products mean we hope to continue our collaboration for years to come."







Quality means seamless installation with accessories

It's essential that your cable accessories are sized correctly - it can have a significant impact on the time and ability to terminate the installation. We manufacture the cables to stringent tolerances so that accompanying accessories are matched accordingly.

Quality matters with cable accessories too so our portfolio is subject to the same rigorous QA procedures as our cables. Our premium brand accessories deliver the assurance of electrical integrity from start to finish.

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TRUSTED FROM END-TO-END

CABLE GLANDS

Our nylon, brass and nickel-plated glands provide high quality connections. Includes glands for braided, armoured and EMC screened cables. Rated IP68 and IP69K.

CABLE CLEATS

Support your infrastructure with our premium range of cleats, available in stainless steel or LSZH for public or enclosed spaces. Trefoil and Quad formation cleats also supplied.

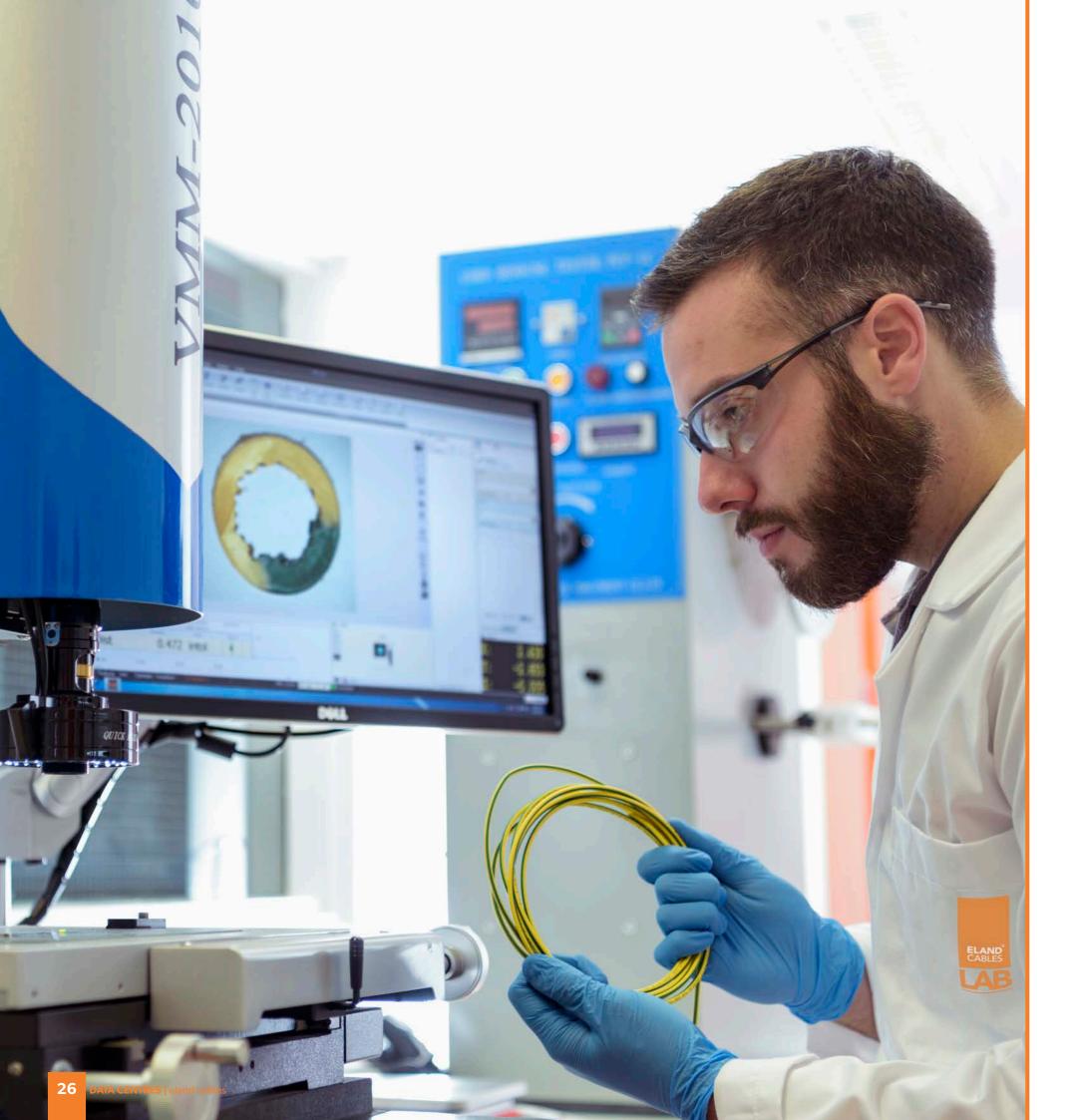
CABLE LUGS

Create secure terminations with our copper lugs. Long palm and dual hole fixings available to suit the installation needs. Cable terminations (cord end terminals) also supplied.

CABLE ASSEMBLIES

Designed against specific installation plans, pre-cut lengths of cable complete with chosen connector or termination can be supplied when large quantities of the same construction are required.

Other cable accessories also available. Accessories can be tailored to meet specific installation demands. Please speak to the team for more information.



For when you need something different

Whether it's adapting an existing cable or designing from scratch to your unique specification, we can provide the cable that works for you. Designed by our technical experts to relevant standards, it is manufactured then tested in The Cable Lab[®].

space available.

Geo-specific cable approvals and certifications are sometimes required for installation compliance. Where required, we can support submissions for third-party certifications and regulatory compliance as needed.

Whatever the requirements, we'll supply the new cable meeting your precise needs with speed and efficiency.

TRUSTED TO FIND A CUSTOM SOLUTION

Sometimes an off-the-shelf cable isn't right. We can design, manufacture and test a cable that works for your installation.

It might be you need additional water-blocking properties, an extra layer of screening, or mechanical protection from armour; re-sheathing or oversheathing can adapt a cable to the installation environment; or you may need to design a composite cable running power and data to fit the installation





everyone

emissions.

We've committed to the Science Based Targets Initiative and are signatories to the United Nations Global Compact, formally reporting our progress annually. We're supporting carbon-reduction initiatives throughout our supply chain, and we can provide information on embodied carbon in our products for EPD documentation, aiding procurement decisions based on sustainability criteria.

Our customers understand that Quality is key to being 'Green' in the life cycle of a cable. Quality products verified in a cable laboratory, coupled with the expert technical support to ensure the specification matches the design and installation parameters, can have an extended lifespan. It means fewer return visits to site for remedial maintenance or premature replacement.

Environmental sustainability is just part of our wider ESG commitments focusing on sustainable, ethical operations that look after our people, and support our communities and bring social value. Talk to our team for more information about how our efforts bring benefit your project.





TRUSTED TO CARE

Making sustainability commitments that benefit

We must all consider our impact on the environment. As a company we're on a journey to Net-Zero, making positive changes that minimise our carbon

CFV 77686

ENMS 77626



7Gd+ FUTURE FIRST HVO FUEL REDUCING CO2e BY 90%





DELIVERING NATURE NET POSITIVE ACTIONS

sustainable

SOLAR PANELS FOR CLEAN ENERGY

The solar panels installed at our Operations sites generate as much electricity as we consume annually.

SUSTAINABLE HVO BIOFUELS

ELECTRIC VEHICLES

Our fleet also includes EVs and delivering with these electric vans means zero emissions - they're charged using our onsite solar power too.

RECYCLED & RECYCLABLE PACKAGING

All our packaging is recyclable or biodegradable, including our pallet wrap. All our plastics, paper, cardboard and wood waste is all crushed, bailed or chipped on site.

CABLE RECYCLING

Our cable recycling facility sees us process copper & aluminium conductor cables, stripping, granulating and processing the different material layers so they can be reused and recycled for other products. We can recycle your legacy and waste cables as part of a scheduled backhaul from your site.

ZERO LANDFILL WASTE SITES

We're a zero waste site where any waste not suitable for recycling, even floor sweepings, get processed into biofuel pellets instead of going to landfill.

net positive results.

The real & tangible steps we're taking to make our operations and your installations more

Our fleet of HGVs is fuelled with sustainable HVO biofuels instead of diesel, significantly reducing carbon emissions associated with cable delivery,

We recognise there is still a way to go to become Net Zero and are continuing to make changes to reduce our carbon emissions. We encourage the wider industry to join us in supporting technology and change that can deliver nature



- Cable Testing

Speak to a member of the Projects team for more informaion.

SUPPORTING INDUSTRY

Tailored cable training delivered by experts

A little cable knowledge can often help you make more informed decisions in your everyday role. We offer training to companies delivered by our technical and industry experts, that combines technical know-how with a practical, commercial approach, tailored to the work you do.

These individual modules, taking on average 1hr-1.5hrs each including time for guestions, are ideal as 'lunch and learn' or 'breakfast briefing' sessions and help attendees feel more confident in their interactions with electrical cables.

Our training courses cover subjects including:

• Cable Construction, Materials & Applications • Medium Voltage Cables • Sustainability in Electrical Cables

• The Construction Products Regulation

• Fire Performance Cables and their Standards





TRUSTED FOR COMPLETE CABLE SOLUTIONS

For high-profile and hyperscale projects we're the cable partner to work with

systems online.

"The value of quality and compliance cannot be underestimated when delivering a data centre project where continuous and reliable operation (and that all-important up-time) is essential. From the substation through the generators and switchgear and into the server halls, the best systems are only as good as the cables that connect them.

By working with cable experts you're in the best position to deliver the sustained success your project demands."

The 'Eland Experience' is a combination of quality products, expert technical support, and services that add value without adding to your workload.

Our solutions for data centre operations are built around a collaborative approach with a team that's always available, whenever you need them. We've delivered projects and continue to support operations across Europe and into emerging markets including Africa. For each project we've ensured quality, compliance and full traceability, meeting strict development time-lines to bring

We're the cable supplier the industry trusts.

Project references available upon request.

Ivan Cleere, Head of Technical/QA







Supporting projects globally WWW.**elandcables**.com

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