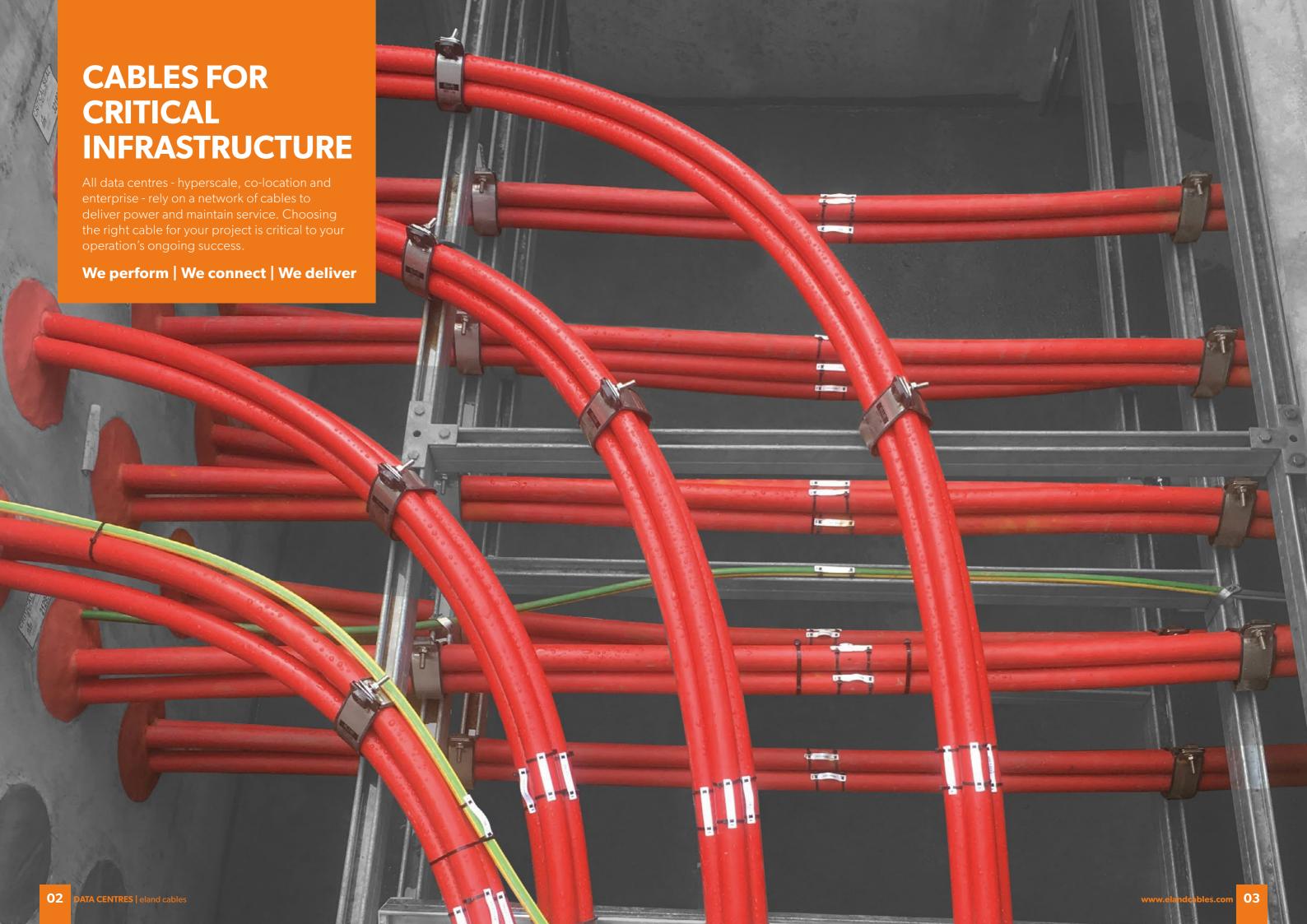


DATA CENTRES

COMPLETE CABLE SOLUTIONS FOR DEMANDING INDUSTRIES







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

One size 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:



LOW SMOKE ZERO HALOGEN

Essential for data centres 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.



CPR COMPLIANT

This European Directive for fixed wiring in buildings classifies cables by their reaction to fire, with different countries setting different minimum Euroclasses. Our expert knowledge of the Construction Products Regulation can help you navigate compliance.



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 KEMA for projects in the Netherlands, and SEMKO for Sweden and FIMKO for Finland.



TRUSTED TO PERFORM

Quality and Compliance are at the heart of mitigating the risk of unplanned maintenance and downtime.

Our commitment to supplying high quality, high performance cables sees us work with quality-conscious organisations around the world.

Commissioning and delivering any project sees you juggling a myriad of responsibilities. Due diligence means when appointing supply partners you want to identify companies that will make the job easier and that you can trust to deliver a product that meets your all your expectations.

The strictest quality assurance processes are backed by cable testing in a world-class UK laboratory. We take our responsibilities as cable experts seriously and do all we can to ensure only quality, compliant products are available in the marketplace, including offering compliance testing on third-party cables. It means you can have total trust that your data centre cables and accessories meet the highest standards.



INDUSTRY-LEADING QUALITY ASSURANCE

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



TESTING IN THE CABLE LAB®

Our on-site UKAS accredited laboratory tests cables, providing consistent, impartial results to determine quality and compliance. Extensive capabilities include vertical flame testing, tensile & elongation, conductor resistance, properties after ageing, and RoHS compliance.



BSI KITEMARK™ TESTING

Described by BSI as 'a new benchmark in cable compliance' this in-depth testing certifies the performance safety standards of the cable. Takes specific manufacturing runs across core and size configurations for a globally-recognised third-party mark of quality.





"As the first company to achieve the BSI Cable Testing Verification Kitemark, Eland Cables sets a new benchmark in cable compliance. The rigorous and extensive testing programme they undertake in their UKAS laboratory, under our ongoing surveillance, tests the cables to British and international standards for key safety criteria and by certifying their cables against the scheme, Eland Cables can demonstrate that its cables meet the highest standards."

bsi.

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 | 26/45kV















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) (NA2XSY)





RETARDANT





IS7H

(N2XSH)



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.



DIRECT BURIAL





W/ATER

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.

LOW VOLTAGE - BRITISH STANDARD ARMOURED 0.6/1kV







(BS6724)







MECHANICAL UV RESISTANT PROTECTION (BS5467)

BS5467 (PVC) and BS6724 (LSZH)

Low voltage armoured power cables suitable for direct burial. Single core to 1000mm² and multi-core to 400 mm² with copper conductors supplied as standard. Also available with Aluminium conductors. BASEC Approved.

LOW VOLTAGE - EUROPEAN STANDARD UNARMOURED 0.6/1kV







UV RESISTANT

N2XY / N2XH (COPPER) and NA2XY / NA2XH (ALUMINIUM) (PVC / LSZH)

Low voltage European power cable with Class 1 solid (to 25mm²) or Class 2 stranded conductor. Single core and multi core configurations, available with or without green/ yellow earth core (-) or -O). Not suitable for direct burial.















N2XH FLEX ENHANCED (COPPER) (LSZH)

Custom designed by The Cable Lab for our data centre projects, this halogen free cable offers enhanced flexibility & improved strippability to aid swift installation into compact and restricted spaces, saving time & effort. BSI Kitemark tested. KEMA Approved.





N2XCH (COPPER) NA2XCH (ALUMINIUM) (LSZH)

Class 1 solid or Class 2 stranded conductors with copper wires and tape concentric conductor. Suitable for installation in plaster but not for direct burial without additional mechanical protection.

Powering the equipment

LOW VOLTAGE FLEXIBLE - EUROPEAN HARMONISED













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.















OIL RESISTANT SUBMERSIBLE UV RESISTANT

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.













WATER

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.











UV RESISTANT

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





6491B - H07Z-R (LSZH)

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.

LOW VOLTAGE FLEXIBLE - PANEL WIRING









LSZH

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.



WORTH NOTING

We also supply a full range of cables tailored to specific geographic markets. This includes the YmZ1K mbzh and Z1G-YmZ1K manufactured to meet Netherlands' **NEN1010** standards and holding **KEMA approval**.

Our range of Medium Voltage cables is also tailored to specific markets:



Sweden: FXQJ-F & FXLI-F 12/20kV, AXQJ-F & AXLI 18/30kV



INSTRUMENTATION

300V (90V and 500V on request)











BS EN 50288-7

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













LSZH

BS 5308

British standard (now withdrawn and superseded by BS EN 50288-7) still extensively specified. Part 1 Type 1 (XLPE insulation, LSZH or Silicone sheathing) or Part 1 Type 2 (with SWA) available with collective (CAM) or individual and collective (ICAM) screening. Other insulation and sheathing materials available.

FIRE PERFORMANCE















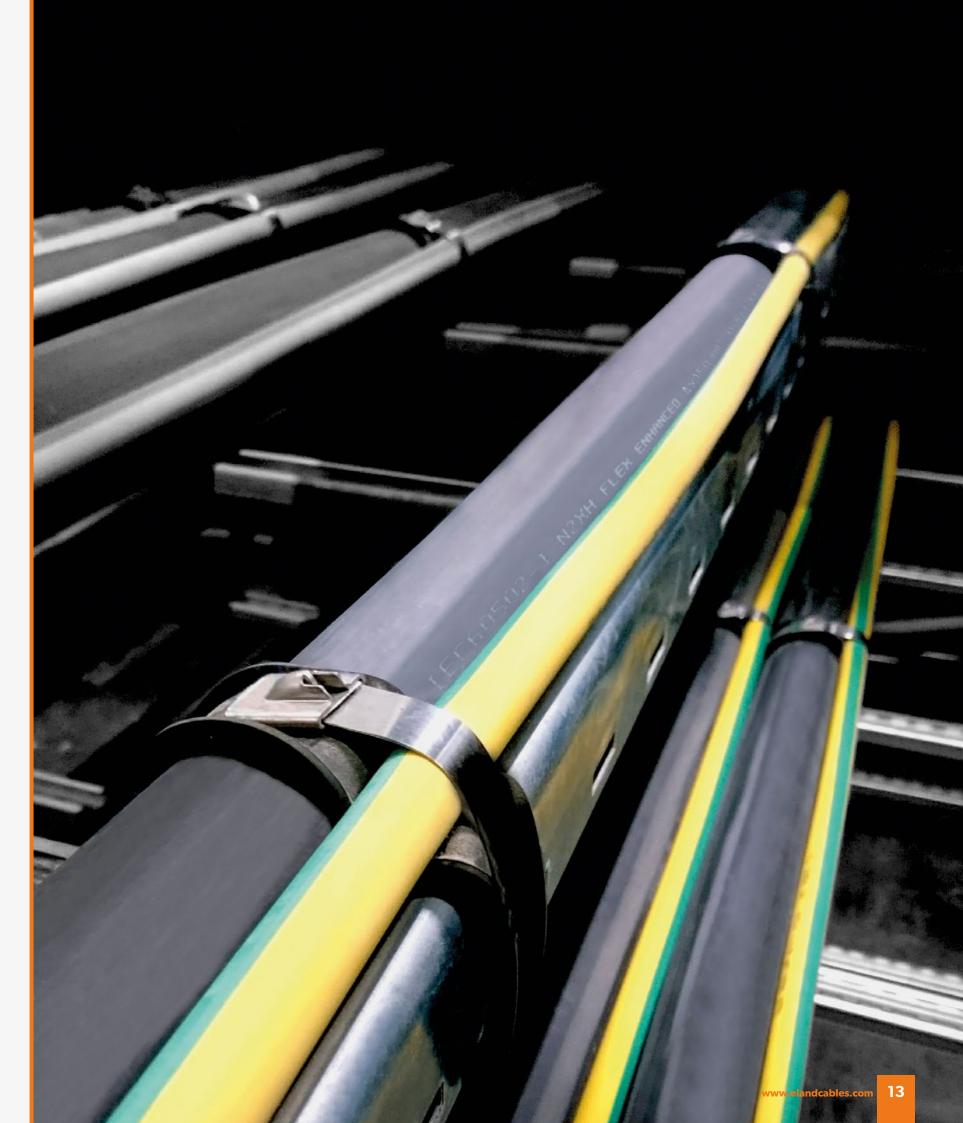


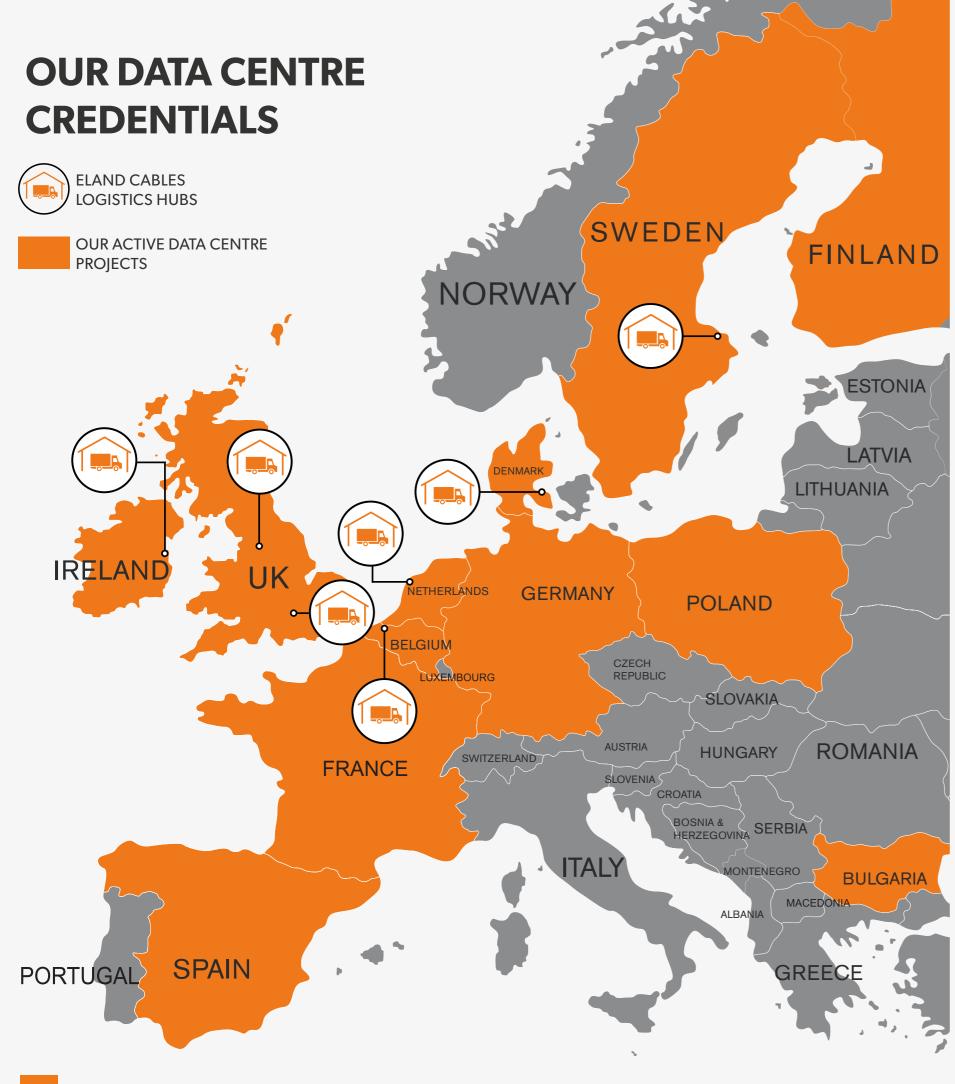


FLAME HEAT LOW RETARDANT RESISTANT TEMPERATURE

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.





CPR COMPLIANT DATA CENTRE SOLUTIONS



We are currently working on data centre projects across Europe, providing CPR compliant cables across low and medium voltage product ranges. Our extensive experience allows us to deliver solutions tailored to specific European countries and their regulations.

Some European countries currently set no minimum CPR classification - the UK and Ireland included - whilst others such as Belgium, the Netherlands and Sweden operate a risk-based assessment. We also see projects where a Euroclass in excess of any regulatory minimum is stipulated by the electrical engineers. We work with our partners to identify the most appropriate cable, whether in general circulation or custom designed by our team and specifically manufactured & CPR tested, so that all CPR requirements are complied with.

CPD-CERTIFIED CPR TRAINING



Recognising the need for expert cable training as industry standards, regulations and technology continue to evolve, we offer a wide range of training courses including CPR CPD-certified modules. Cable training on areas such as MV cables, fire performance cable standards, and cable construction also available.

DATA CENTRES | eland cables www.elandcables.com

TRUSTED TO DELIVER

You know data centres. We know data centre cables. Together our expertise can deliver a solution that works for you.

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.



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.



PROACTIVE PROJECT MANAGEMENT

Our data centre industry specialists 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 large-scale projects.



TAILORED LOGISTICS

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.



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.





END-TO-END QUALITY

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.



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.

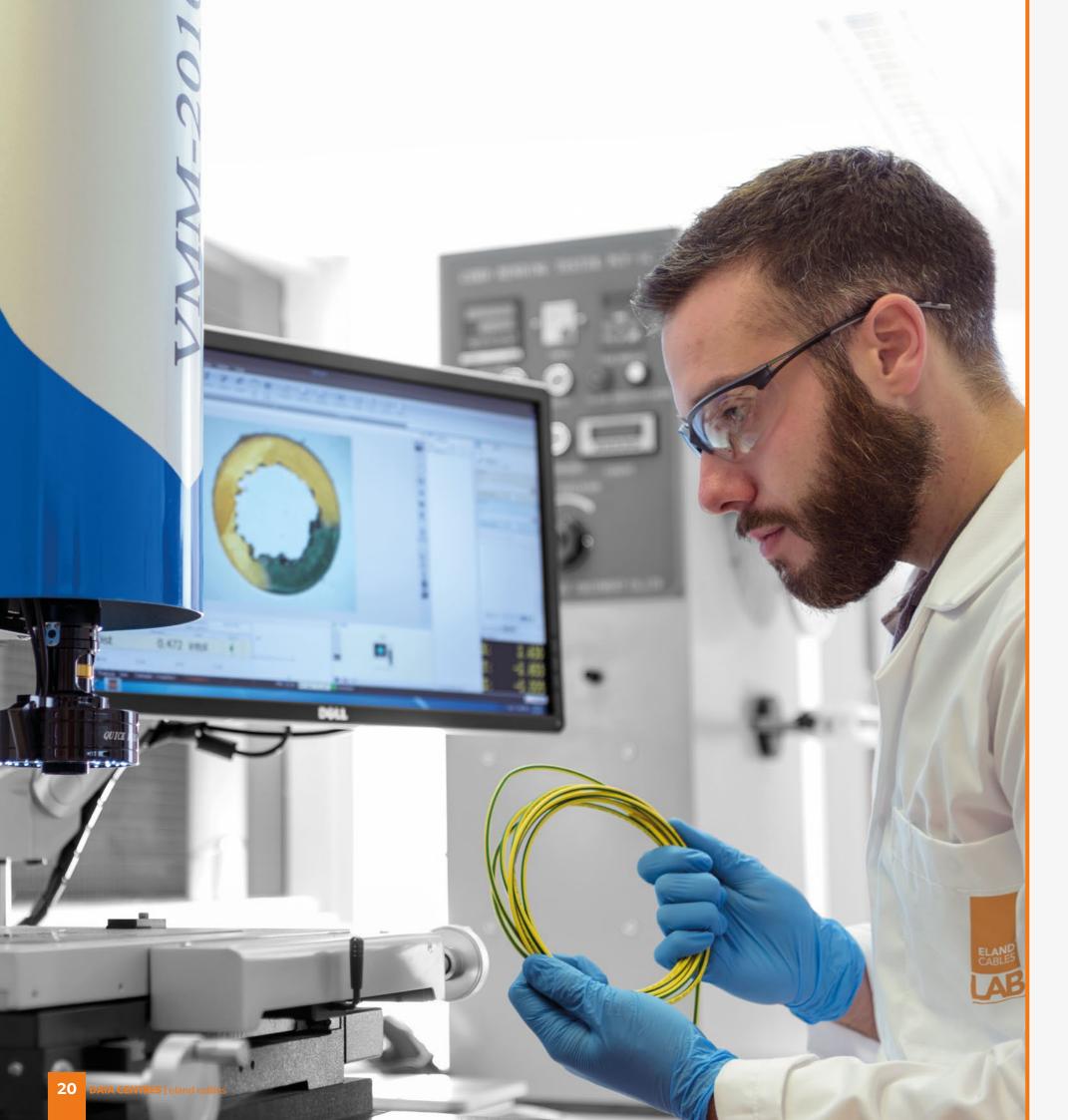


CABLE ASSEMBLIES

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.



CUSTOMISED CABLES

For when you need something different

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

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®.

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 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 FOR COMPLETE CABLE SOLUTIONS

We're the cable supply partner the major projects work with.

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 systems online.

We're the cable supplier the industry trusts.

Project references available upon request.



"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."

Ivan Cleere, Head of Technical/QA









Supporting projects globally www.**elandcables**.com

Data Centre Technical & Project Team tel: +44 (0) 20 7241 8518 sales@elandcables.com

Eland Cables Ltd, 120 Highgate Studios, 53-79 Highgate Road, London NW5 1TL, United Kingdom © Eland Cables Ltd. All rights reserved. Compiled and produced in February 2019







