

Global Cable Experts

Your guide to
cable certification
and testing
services

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Contents

- 2 Introducing BASEC
- 3 What we do
- 5 Global coverage
- 7 About the service
- 9 Product certification and approvals
- 11 Management system certification
- 13 Sector specialists
- 17 UK laboratory testing & facilities
- 19 LV & medium voltage laboratory
- 23 UKCA & CPR testing & certification
- 25 Support & technical expertise
- 27 Cable standards

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Purpose

To be continuously improving quality and safety.

Vision

To be the preferred testing and certification partner to the worldwide cable industry.

Introducing **BASEC**

BASEC Group Limited

BASEC (formally, British Approvals Service for Cables), a KIWA company, focuses exclusively on serving the needs and customers of the global cable industry.

Established in 1971, for over 50 years BASEC has been a mark of reassurance for those manufacturing, specifying, buying and installing cable. The BASEC name is synonymous with quality and safety and our cable certification and testing is trusted and respected around the world.

UKAS Accredited

United Kingdom Accreditation Service (UKAS) is the only national accreditation body recognised by the UK government which assesses organisations that provide certification, testing, inspection and calibration services. UKAS work to internationally agreed standards.

BASEC is accredited by UKAS for ISO/IEC 17065 for product certification, ISO/IEC 17025 for testing, and ISO/IEC 17021-1 for quality management systems and environmental management systems certifications.



About us

What we do

BASEC is a global leader in product testing and certification services for the cable industry. We provide peace of mind that products are compliant across numerous sectors, including construction & electrical installation, power distribution, rail, marine, oil & gas and renewables.

In addition, you can access triple standard management systems certification, Construction Product Regulation (CPR) testing, bespoke type testing, impartial investigation of conformity issues, and testing and reporting to support you in the event of any potential disputes.



This guide will tell you more about who we are, how we operate and the reasons why people around the world are demanding BASEC approved cable.

Working to worldwide standards

BASEC's goal is to ensure that cable products meet appropriate national, local e.g. European specific and international standards by carrying out detailed examinations of both manufacturers' production processes and regular, rigorous testing of their products.

Testing to:

- ✓ International standards
- ✓ European standards
- ✓ British and other national standards
- ✓ Private specifications
- ✓ Sector-specific standards (e.g. rail, marine)
- ✓ Utility standards

Working with:

- ✓ Cable manufacturers
- ✓ Standardisation bodies
- ✓ Manufacturer associations
- ✓ Installer associations
- ✓ Professional institutions
- ✓ Wholesalers
- ✓ Distributors
- ✓ Cable stockists



Global coverage

BASEC Head Office
Milton Keynes, UK

BASEC Middle East
Dubai, UAE

BASEC audits in over 40 countries around the world to service the global cable market.

UK & Ireland

UK
Ireland

Europe

Belgium
Croatia
Bosnia & Herzegovina
Czech Republic
France
Germany
Greece
Italy
Lithuania
Malta
Netherlands
Poland
Portugal
Romania
Slovakia

Spain

Switzerland
Turkey

Middle East

Israel
Kuwait
Lebanon
Oman
Qatar
Saudi Arabia
UAE

Africa

Morocco
Nigeria
South Africa
Tunisia
Ghana

Asia

Hong Kong
China
Vietnam
Singapore
Taiwan

India

Rest of World

Trinidad and Tobago
USA
Uzbekistan
Mexico

Working with companies worldwide

You access tailored services to meet you and your customer's needs, wherever you are located in the world. This forms a key part of our commitment to providing you with an excellent service.

Alongside this global remit, we have not lost sight of our British roots and the rigour of the standards and testing that have been the foundation of BASEC's work from the beginning.

Our customers can be assured that the BASEC mark of approval carries the same weight and respect today as it has always done.

The benefits of BASEC approval

BASEC certification is amongst the most rigorous in the industry. By achieving it you will stand out clearly from your competitors and your cables will be recognised worldwide in terms of quality, safety and ongoing conformity to all the relevant standards.

It will open up new opportunities and markets for you, as the BASEC mark has been a mark of reassurance for those specifying, buying and installing cable for over 50 years. We support our clients throughout the process and ensure that we deliver a truly international accreditation service.

About the *service*

Comprehensive product testing and approvals provide purchasers and contractors with the peace of mind that the cable they install is compliant, safe, fit for purpose and will provide years of reliable service.

Our certification scheme is recognised as one of the most demanding in the industry. Manufacturers of BASEC approved cables are subject to regular factory inspections and cables are sampled and tested several times a year to ensure ongoing conformity.

This thoroughness means that when purchasers and contractors specify BASEC approved cable they can be sure it meets the highest quality standards and that it conforms with all relevant regulatory requirements.

 Stringent & high quality testing

 Tough auditing process

 Ongoing surveillance
ensuring continued compliance

= Winning Combination

If you see the BASEC mark on a cable you can rest assured that both cable and manufacturer are, and continue to be, compliant with the world's most rigorous quality testing processes.

Rigorous testing and ongoing surveillance

During the application process and our subsequent factory visits we check:

-  **The manufacturer's range of cable types and sizes against the Product Certification Requirements (PCR)**
-  **Production equipment (including witnessing cable being made)**
-  **The manufacturer's laboratory, including witnessing testing and checking the reliability of results**
-  **Calibration of machines and instruments**

In addition to factory visits BASEC selects up to 150 cable samples a year from each factory to test in the independent BASEC laboratories. All certification systems are based on a sampled process as not every batch of cable can be independently tested.

However, as BASEC tests samples more frequently than other certification schemes, you can be assured that any problems or deviations in production are identified quickly, and so can be promptly rectified.

Product Certification and Approvals Services

What *is* involved



Six steps to gaining and maintaining the BASEC mark

The certification process can be broken down into six steps and we will work closely with you throughout to ensure it runs smoothly.

Step 1 Planning & Preparation

A pre-audit visit is offered to provide guidance and support in readying the necessary systems

Step 2 Initial audit & Audit Report Issued*

The audit comprises of both a review of the management systems in place and of the processes involved in the operations and production lines.

Step 3 Samples sent to BASEC for testing*

Cables are tested in one of BASEC's accredited laboratories in accordance with the relevant standards.

*Steps 2 & 3 happen simultaneously

Step 4 Certification

Following successful completion of the audit and testing, management systems certifications and product marking licences are awarded.

Step 5 Using the BASEC mark

Once you have been awarded the BASEC mark you will be able to use it on your products, as well as on your sales and marketing materials.

Step 6 Ongoing testing & surveillance audits

Two audits, with one combining witness of production, plus one unannounced visit per year, depending on the size and complexity of your business. At each routine audit, samples will be selected for testing, in order to ensure ongoing conformity. Recertification takes place every three years.



Management systems *certification*

BASEC is a UKAS accredited certification body for management systems, for the specific requirements of the cable sector. This makes us perfectly placed to offer an integrated and discrete solution to your management systems requirements.

Integrated Triple Standard

Integration of management systems reduces duplication and improves efficiency. We offer an integrated service to companies seeking approval to two or more standards.

- ✔ Quality management systems to ISO 9001
- ✔ Environmental management systems to ISO 14001
- ✔ Health & Safety management systems to ISO 45001
(BASEC does not hold UKAS accreditation)

Reasons to integrate management systems:

- ✔ More efficient and cost effective than operating separate systems
- ✔ Reduces disruption to your business and the amount of time required for assessments
- ✔ Increases efficiency by reducing the duplication of policies, procedures and auditing
- ✔ Integrate management systems with the BASEC PCR and demonstrate industry best practice



The benefits of choosing BASEC

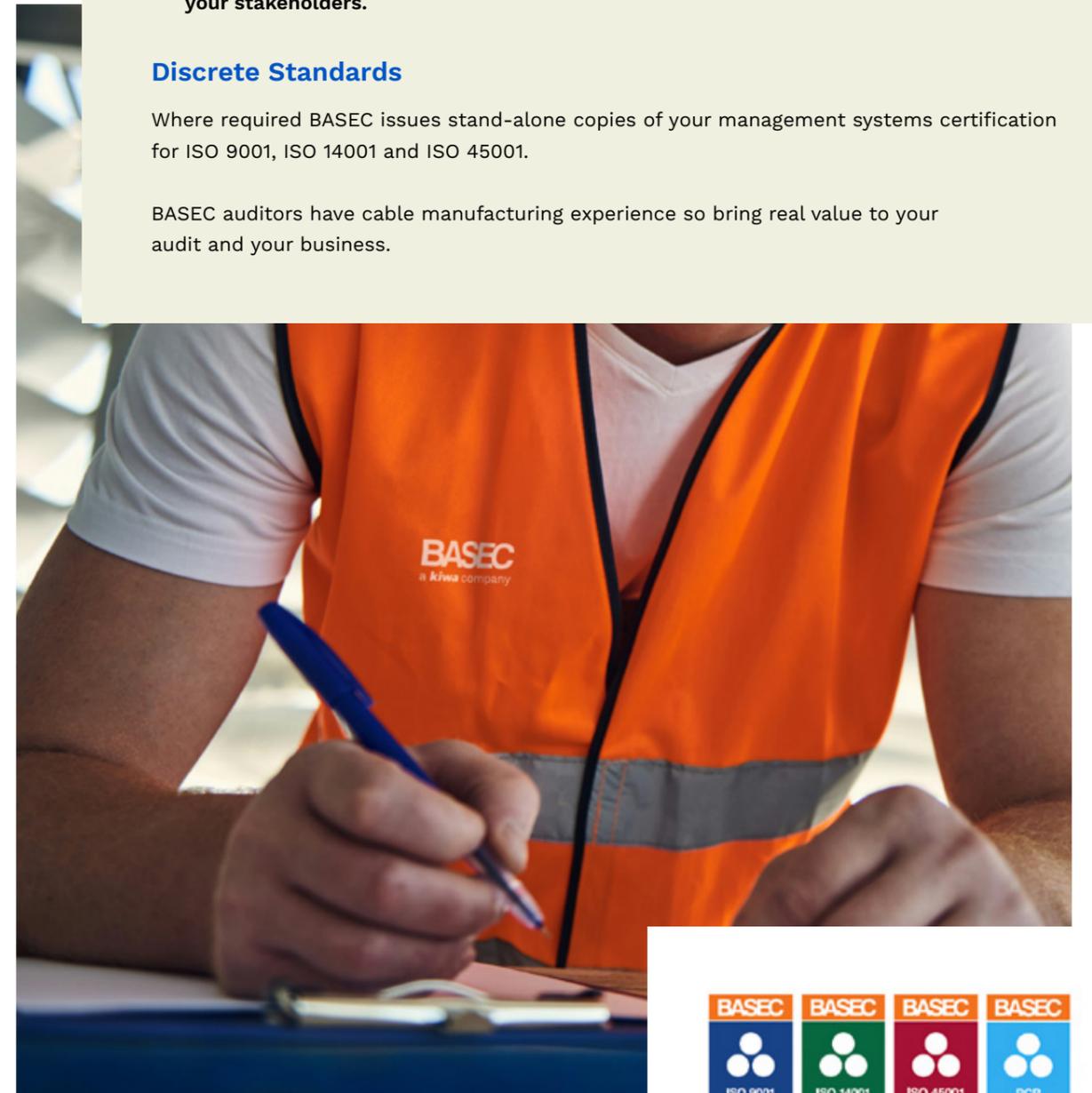
Integration of management systems reduces duplication and improves efficiency. We offer an integrated service to companies seeking approval to two or more standards.

- ✔ BASEC Product Approval clients will benefit from cost savings when you move your management systems certifications to BASEC.
- ✔ Tailored requirements for ISO 14001 to local environmental and legislative obligations, to enhance your environmental performance.
- ✔ BASEC looks beyond the legislation and compliance to ISO 45001, to help you deliver good risk management and organisational continuity, addressing the needs of all of your stakeholders.

Discrete Standards

Where required BASEC issues stand-alone copies of your management systems certification for ISO 9001, ISO 14001 and ISO 45001.

BASEC auditors have cable manufacturing experience so bring real value to your audit and your business.



Sector *specialists*

As the experts in cables across numerous sectors, BASEC works with manufacturers to ensure the supply of safe and compliant cable, in line with sector-specific standards and regulations. Offering peace of mind to installers and specifiers when buying and sourcing cable products.

Many sectors, such as rail, marine and oil & gas, rely on third-party testing to demonstrate product conformity to their customers.

BASEC's laboratories can carry out a range of tests to verify a cable's construction, materials and its electrical properties. Our state-of-the-art fire testing laboratory carries out tests on fire resistance, circuit integrity and reaction to fire. BASEC also offers a range of smoke emission, halogens, acid gas and toxicity tests.

BASEC delivers product certification and approval, third-party testing, investigations and assessments of non-standard cables, pre-shipment testing, inspection and batch testing.

Construction & Electrical Installation

In the construction and electrical installation sector, cable must be installed to strict quality requirements and must conform to regulatory requirements such as local wiring codes and regulations like BS 7671 and CPR (Construction Products Regulation).

Assurance of product quality level in such applications is crucial as it will directly affect the safety and performance inside these constructions. Depending on the risk level of each construction and local regulations, the classification requirements will be specified during the design stage.

At BASEC, we test to International, European and British standards for building wire, installation cables, flexible cables, armoured and non-armoured power distribution cables, control and instrumentation cables and modular wiring.

Fire & Security

Product performance is fundamental for any cable; however, the fire performance of the cable is also crucial in the fire and security sector.

The expected fire performance of the cable can be fire resistance or fire reaction, and it will be specified in the system design stage based on the application of each cable, and in all cases, it should be verified.

Independent assurance of performance verified through rigorous testing and certification is a must to ensure the cables' highest level of quality and safety.

At BASEC we test to International, European, and British standards for fire performance cables.

Rail

Complex components and systems developed over the years come together to make up the railway network operations. They must be safe and suitable for the intended rail application.

A range of cable types is used to connect these complex rail systems together. Electrified railway lines can also house generating stations, transmission, and distribution lines to transfer power from the in-house supply or connect to the grid.

Cables supplied to rail networks and for rolling stock or power and signalling applications must conform to strict performance and safety standards, often requiring additional fire safety and performance specifications.

For rolling stock BASEC tests to EN 50306 series, EN 50305, EN 45545, BS EN 50264 series and Transport for London (TfL) / London Underground Ltd (LUL) S1-085. For rail infrastructure, BASEC tests MV track feeder cables to Network Rail standards and LUL, BS 7835 / BS 6622 / IEC 60502-2, tests, and LV power cables to BS 7846, BS 6724, BS 8592, BS 7629-1.

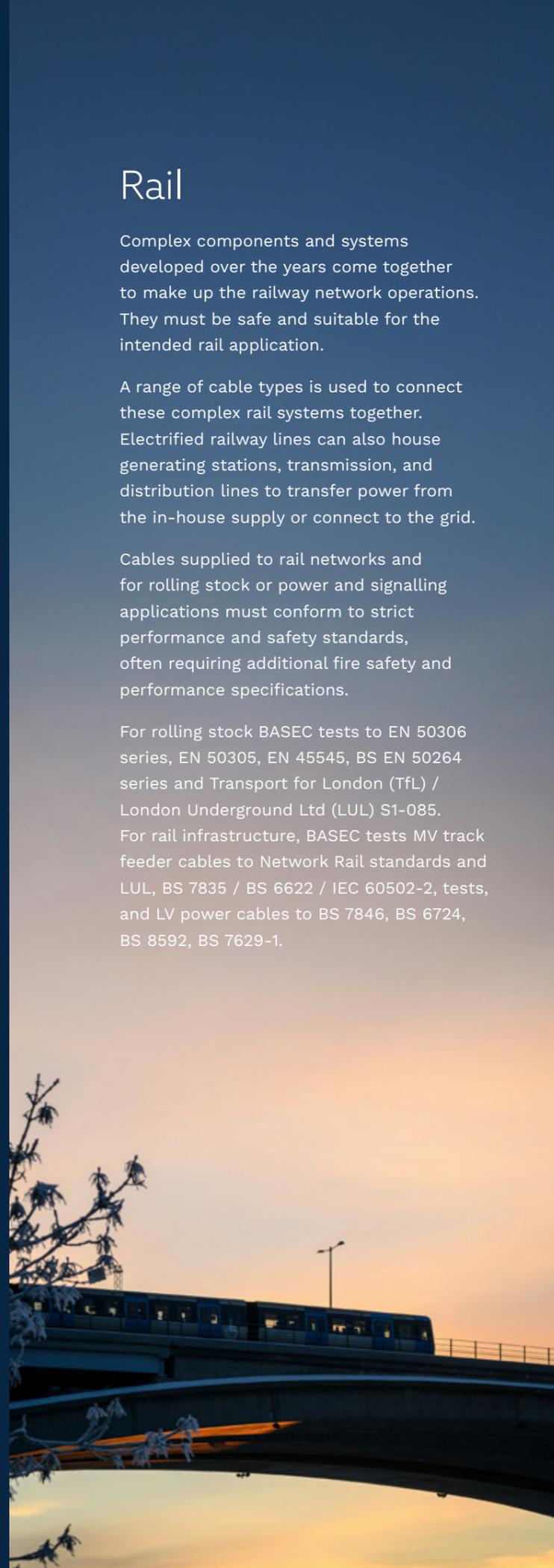
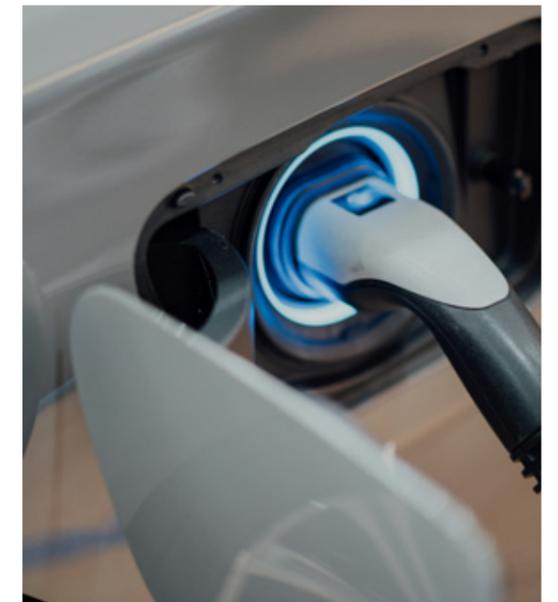
EV Charging Cables

Electric vehicles present a very effective way to support global economies by reducing carbon footprints and offering mobile, decentralised energy storage. In addition, it's the opportunity to support the energy networks in a completely unconnected phenomenon which is a key factor in achieving intelligent networks.

The EV charging cable is intended to supply power and communication to an electric vehicle, which will be defined based on the required charging mode.

The charging mode will affect the cable design, rated voltage, and even the used raw materials, which shows the importance of rigorous testing for each cable type. This ensures the quality of the charging cable meets the standard requirements; otherwise, the non-standard cables will affect the efficiency of the overall charging effectiveness of the installed charger.

BASEC can test international and European standards, such as IEC 62893 series and EN 50620, and merge the test protocols for similar standards to issue a dual approval including both standards.



Power Distribution

Substantial structural changes are currently underway in the power industry. This, coupled with an ageing infrastructure, means that it's essential that the cabling supplied provides a reliable and long-term service.

Medium and low voltage cables are essential parts of the distribution networks, which need high-quality cables to be used to increase the overall efficiency of the distribution network by minimising the downtime of these networks because of cable failures.

BASEC tests insulated power, armoured, non-armoured, control and instrumentation cables. Testing to BS 7870 series, BS 6622, BS 7835 and

IEC 60502-2 is conducted on: copper, aluminium, alloy, reinforced, waveform, triplex, concentric and split concentric cables.

Oil, Gas & Petrochemical

Cables supplied to the oil, gas and petrochemical sectors must conform to strict regulatory and design standards as they are installed in hazardous areas and challenging environments.

These cables should be sensibly designed, manufactured, and tested to ensure that these cables work in these hazardous areas and challenging environments with the highest levels of quality and safety to enhance and limit the risk level in these sectors.

BASEC tests to sector standards and specifications for LV, MV and instrumentation and control cables, including NEK 606, IEC 60092 series, IEEE 1580, BS 6883, BS 7917, EEMUA 133, IEC 60331, and IEC 60332.

Aerospace & Defence

Cables used in various aerospace and defence applications often need to conform to special requirements and rigorous approval and procurement processes. Specific tests are applied to cable products to address the need to cope with highperformance, lightweight, and aggressive environments.

BASEC tests to DEF STAN 61-12 series and BS (G) series.

Nuclear

Cables supplied to the nuclear sector must hold high performance characteristics such as achieving reliable performance for the power plant's lifetime and maintaining integrity in a loss of coolant accident (LOCA) scenario.

BASEC performs testing to measure thermal endurance, LOCA scenarios, and testing for enhanced fire performance. Fire testing is delivered to IEC 60332-3 series and IEC 60331 series, smoke emission to IEC 61034-2 and acid, gas and halogens to IEC 60754 series. Testing to IEEE 383 is available.

Marine

Marine cables must operate in some of the most adverse conditions with the highest quality and safety levels. The BASEC name is synonymous with quality and safety, and our cable testing enables you to demonstrate to your clients that your cables meet the required standards and will deliver reliable service for many years.

BASEC tests to sector standards and specifications for LV, MV, and instrumentation and control cables, including NEK 606, IEC 60092 series, IEEE 1580, BS 6883, BS 7917, IEC 60331, and IEC 60332 series.

Renewables

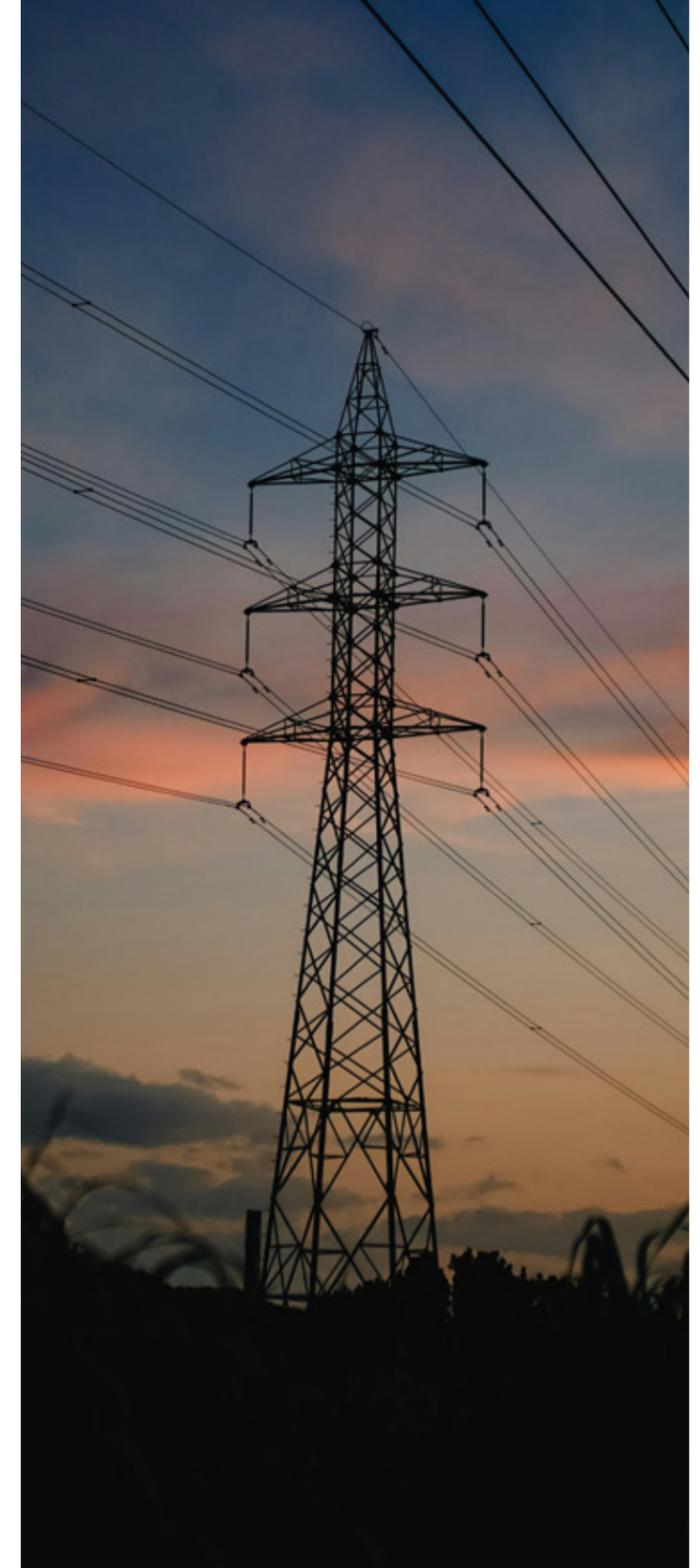
Renewable energies are at the forefront of a sustainable power supply. Solar is the world's fastest-growing energy technology, and ambitious growth projections remain key targets for all major global regions.

Cables for the renewables sector must also be resilient in challenging weather conditions including harsh sunlight, extreme heat, high winds, and regular contact with rain and saltwater.

Solar cables are used to interconnect PV panels and connect the PV panels to the inverter. The inverter plays the role of converting direct current (DC) to alternating current (AC).

BASEC tests to sector standards and specifications, including IEC 62930 and EN 50618 for solar photovoltaic systems and MV cables to IEC 60502 for wind power.

BASEC can merge the test protocols for similar standards like IEC 62930 and EN 50618 to issue a dual approval including both standards.



As cable experts, BASEC partners with manufacturers across multiple sectors to ensure the installation of safe and compliant cable. Ensuring that cable products are made and perform in line with sector specific standards and regulations, offering peace of mind to installers and specifiers.

UK laboratory & *testing* facilities

Our fully accredited, state-of-the-art laboratory is the largest independent cable testing service in the UK. At BASEC we test to any international standard, product code or bespoke requirement you may have.

Cable testing scope includes:

- ✔ Product certification and approvals
- ✔ One-off type testing to support R&D
- ✔ Pre-shipment and batch testing
- ✔ Operation failure analysis
- ✔ CPR testing
- ✔ Certificate of assessed design

Our commitment to ongoing investment, the BASEC laboratory contains the latest state-of-the-art technology and equipment.

Extensive range of equipment includes:

- ✔ Tensometers
- ✔ Ageing ovens
- ✔ Freezers
- ✔ Conductor testers
- ✔ Fire resistance testing rig
- ✔ Vertical ladder rig
- ✔ Voltage testers
- ✔ Smoke cube
- ✔ Polymer chemistry lab



Fire & smoke

Regulatory safety standards testing for cables used for emergency power, fire alarms and in public spaces including flammability, reaction to fire, resistance to fire, smoke emission and toxic gases.



Construction & mechanical

Tests for conformity to specification and ease of identification, installation and usability including armour testing, marking and colour checking.



Chemical testing

Testing for chemical composition of cable compounds (insulation and sheath) and other chemical tests on cable components such as metal coatings.



Electricity

Safety and performance tests including conductor resistance, insulation resistance, voltage tests and flex testing.



Materials & polymers

Testing for performance including ageing, compatibility of polymers, compliance of polymers for high and low-temperature conditions and checks on the correct processing of polymers during manufacture.

Low voltage & *fire laboratory*

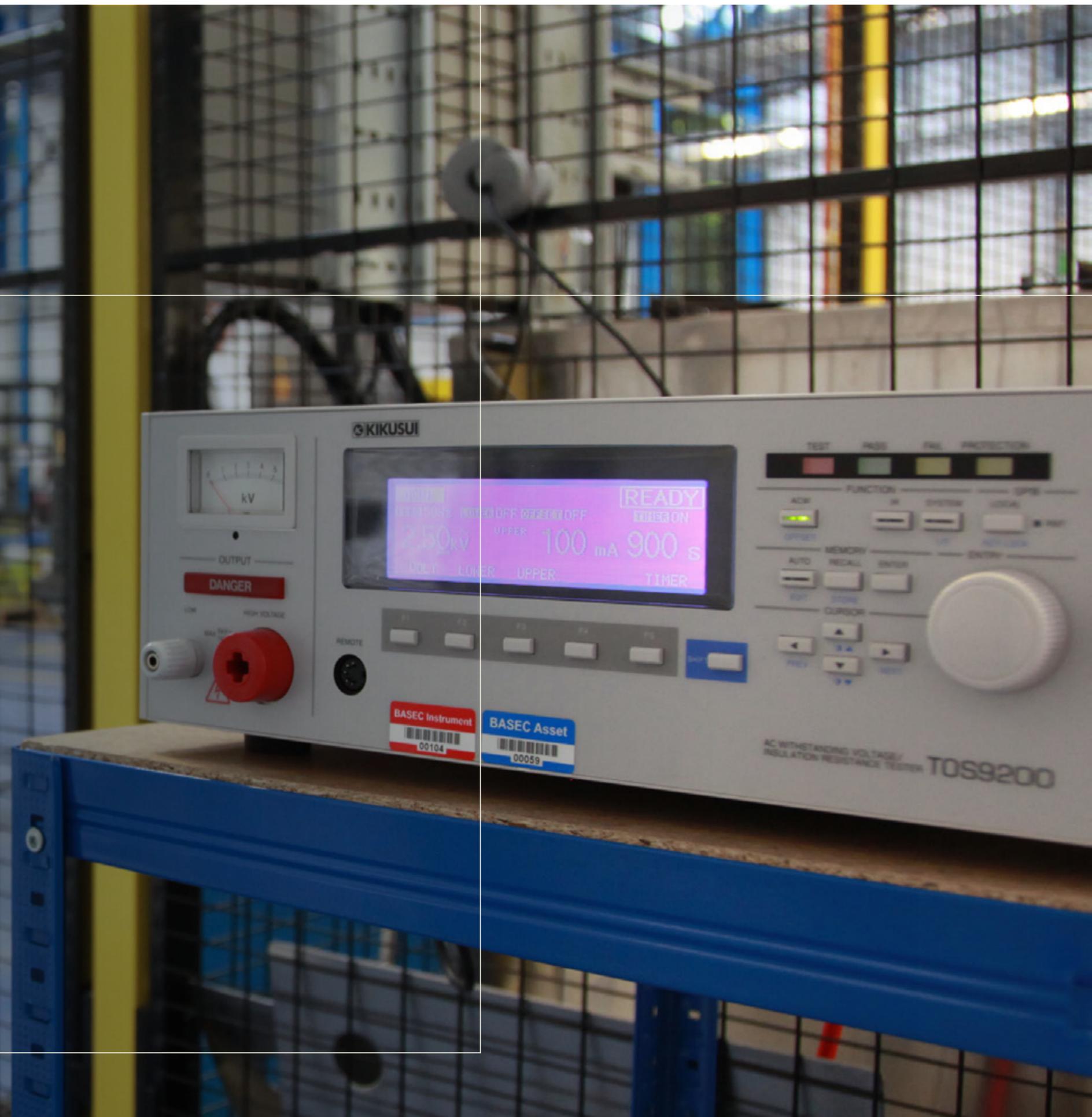
BASEC has two state-of-the-art testing laboratories which hold UKAS accreditation to ensure the same quality levels have been maintained.

Integration of management systems reduces duplication and improves efficiency. We offer an integrated service to companies seeking approval to two or more standards.

- ✔ Electrical and mechanical tests
- ✔ Material tests
- ✔ Chemical tests
- ✔ Fire tests

TGA and FTIR Analysis

Ensures that the same quality materials have been used to validate our certificate over time. BASEC use spectroscopy technologies to test and analyse the materials used in the cables of our customers. In addition to special test equipment such as Thermogravimetric analysis (TGA) and Fourier Transform Infrared (FTIR).



Medium voltage laboratory

Our Medium voltage cable testing laboratory in Dubai is the first specialist laboratory for cable testing in the Middle East.

We offer efficient MV testing turnaround times to accelerate your cable compliance.

Providing comprehensive testing to meet the national and international cables standards for medium-voltage cables as per different cables standards:

- ✓ IEC 60502-2
- ✓ BS 6622
- ✓ BS 7835
- ✓ BS 7870-4.10
- ✓ BS 7870-4.20
- ✓ BS 7870-4.11

A wide range of non-electrical testing for MV cables is done to assess the material cable performance as per different standards (constructional and dimensional tests, hot set test, circularity, corrosive and acid gas, insulation/separation/oversheath materials performance before and after ageing. Water absorption test on insulation, strippability test for insulation screen, and the like).



UKAS Accredited laboratory to enhance the quality and safety of distribution networks and different projects worldwide.

At BASEC's MV laboratory in Dubai, we can test MV cables up to 42 kV, a comprehensive test range for electrical testing,

- ✓ Partial discharge test
- ✓ Tan Delta measurement in relation to voltage
- ✓ Tan Delta measurement in relation to temperature
- ✓ Heating cycle test
- ✓ Impulse voltage test
- ✓ Four-hour voltage test
- ✓ D.C. voltage test on oversheath
- ✓ Conductor and metallic screen resistance measurements
- ✓ Insulation and conductor screens resistivity
- ✓ Insulation resistance constant of oversheath
- ✓ Water penetration test

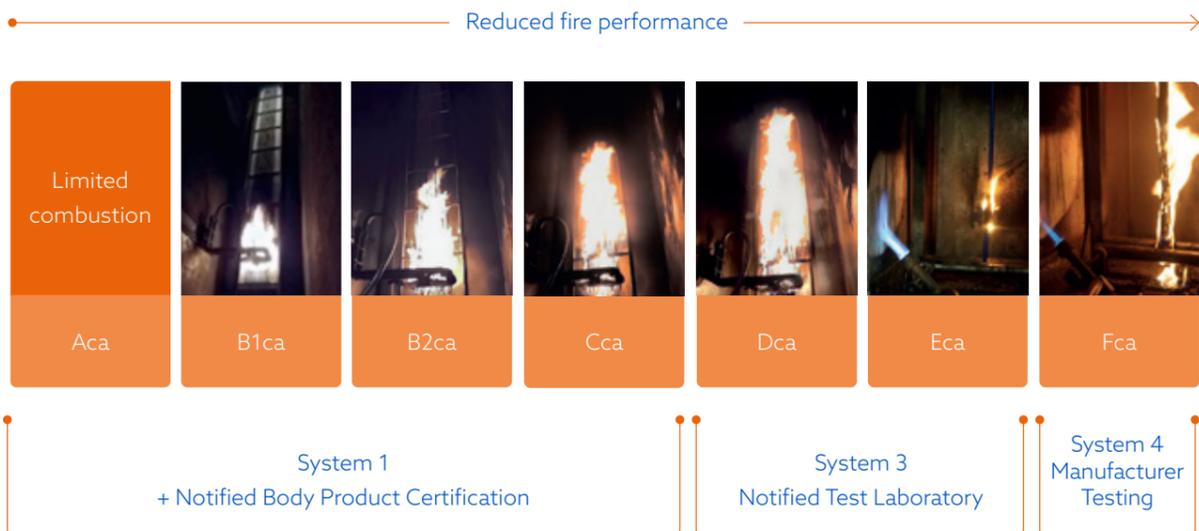
UKCA & CPR

Testing & certification

As a designated UK Approved Body (No 2661) for both AVCP System 1+ and System 3, BASEC UK can test and classify cables for UKCA, enabling manufacturers and distributors worldwide to supply into the UK CPR market. BASEC Conformity Limited was established and listed as an EU Notified Body (NB 2851) in February 2020; it is NANDO listed, and EU 27 recognised, enabling certification to AVCP System 1+ and CE marking for the EU CPR market. Through our parent company Kiwa, we can provide services to meet Systems 3 for the EU CPR market

For over 45 years, BASEC has been a global leader in the testing and certification of cables. We have invested heavily in new equipment to allow us to test all the requirements of the CPR in respect of cables, providing a full service to manufacturers and traders.

CPR Classification According to Fire Performance



CPR Explained

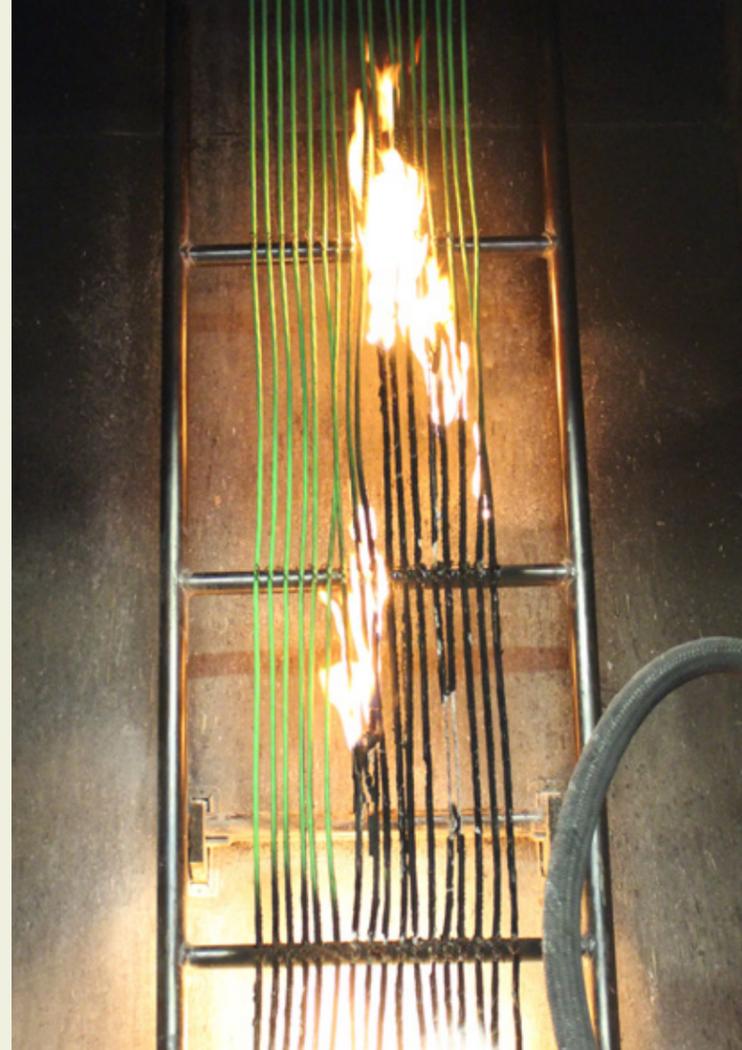
As of 1st July 2017 under the European Construction Products Regulation (CPR), it is now mandatory for cable manufacturers and suppliers to apply CE marking to any products covered by the harmonised European standard EN 50575. The CPR applies to all cables placed on the market for use in a fixed installation in domestic, commercial and industrial premises and other civil engineering works anywhere in the European Union. It applies to power, communications and fibre optic cables irrespective of the place of manufacture and includes novel/unique cables and those which are not designed to any particular design standard. These tests, with a few exceptions, need to be carried out by an independent Notified Body. Following the UK exit from the European Union (Brexit) and from Jan 1st 2021, the UK has maintained the testing and certification requirements of the CPR under the umbrella of UKCA and this operates in parallel to CPR and is appropriate for the UK market. For UKCA a UK Approved Body fulfils the requirements of an EU Notified Body.

The Construction Products Regulation is solely concerned with the reaction to fire and resistance to fire properties of these products, resulting in awarding classifications often known as “Euroclasses” to each product or family of products. The CPR regime for resistance to fire of cables is still under development at present.

BASEC has invested heavily in state-of-the-art equipment, allowing us to test all of the CPR’s requirements, respective to cables.

Enabling you, your manufacturer and traders to access a full service for testing.

Compliance to all of the requirements for CPR and fire, through BASEC testing and classification, means manufacturers and distributors from around the world can supply in to the UK & European markets.



Dedicated *cable expertise* and *regional* *support*

Global Expertise, dedicated support

At BASEC, our technical excellence is built on decades of experience in cable testing, certification, and standards development. Our team of industry specialists offers deep expertise across a wide range of cable types and applications. Operating globally, BASEC provides responsive support through regional offices and partners, ensuring our customers receive expert guidance and reliable service wherever they are in the world.

Regional teams to support your compliance journey

Our regional customer account teams are dedicated to guiding customers every step of the way—from initial enquiry through to final certification. Our team provides tailored support to help manufacturers, distributors, and specifiers meet regulatory requirements and industry standards. Whether you're operating locally or internationally, BASEC ensures a smooth, transparent process backed by trusted expertise and international reach.



Other services



Certificate of Assessed Design

We offer a Certificate of Assessed Design (CAD) for new concepts where no national or international standards exist, or for variants from an existing standard. This enables manufacturers to offer innovative new designs to the market, whilst at the same time verifying their quality, safety and fitness for purpose.

BASEC, as an approved UKAS and INAB notified body, we can help customers with all legal requirements.



HAR Scheme

BASEC is a member of the pan-European HAR scheme, which is in place to demonstrate mutual acceptance and harmonised European standards of cable certification. BASEC provides HAR scheme certification to manufacturers based in the UK, Ireland and other eligible European markets.

Cable standards

BASEC provides certifications and approvals to all global cable standards

One of the most common causes of confusion and issues on site when specifying cable is understanding the various standards that cables must comply to.

Most importantly, BASEC aims to give you a measure and mark you can trust in – to be sure that the cable you are using is compliant and will not cause any problems or damage your reputation as an installer or specifier.

A key part of our role is to ensure that the claims of conformity made by the cable manufacturers about the cable are valid. Only when we are completely satisfied with each cable's test results do we allow manufacturers to use the BASEC mark.

Registered Stockist scheme

The Registered Stockist scheme forms part of BASEC's established Market Surveillance initiatives to drive the improvement of cable quality and safety throughout the supply chain and industry, with rigorous certification, factory auditing and testing.

An important feature of the scheme sees BASEC conducting audits at cable distributors' facilities to review procurement, selling and compliance practices, and to take random product samples for independent testing at the BASEC laboratory. This is a step towards ensuring that the product that reaches the market is of the highest quality and safety and will:

- ✓ **Improve market surveillance of manufacturers samples**
- ✓ **Ensure cables are distributed to the highest standards**
- ✓ **Ensure cables are of the highest quality and safety when certified by BASEC**

Companies that distribute cables, regardless of the size, are encouraged to sign up. Becoming a BASEC Stockist gives you the advantage to display the BASEC mark, a symbol to give confidence to your customers, as proof you have met the scheme's requirements.





Global range of *cable standards*

BASEC's rich British heritage means we are well versed in certifying and approving to British and European standards.

In order for you to manufacture, supply, or install cable, we understand that there is a vast number of local standards across the global that you may need support in complying and obtaining approvals for.

Looking to expand into new markets? We can cater to your requirements and support your cable compliance needs. Covering an extensive range of local and international standards including the locations listed below, our regional teams are ready to help you.

UK & Ireland

British (BS)

Irish (IS)

Europe & Rest of World

Brazilian (ABNT/NBR)

Canadian (CSA)

European (EN)

French (NF)

German (DIN/VDE)

Italian (UNI)

Norwegian (NEK)

Asia

Australian (AS)

Indian (BIS)

Indonesian (SNI)

Malaysian (MS)

New Zealand (NZS)

People's Republic of China (GB/T)

Singapore (SS)

Taiwan (CNC)

Thailand (TIS)

Middle East & Asia

Gulf Cooperation Council (GSO)

South Africa (SANS)

United Arab Emirates (ESMA)

International

IEC / IEEE / ISO