



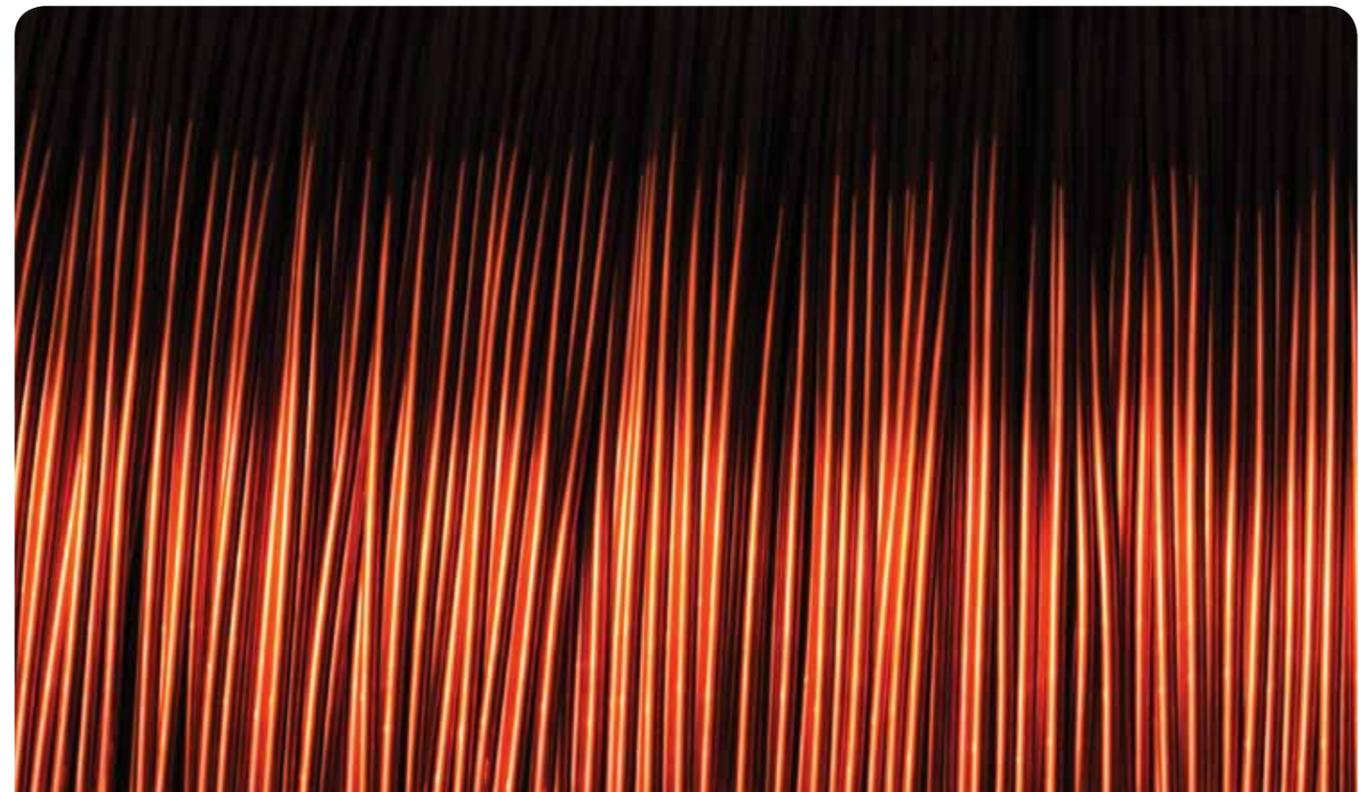
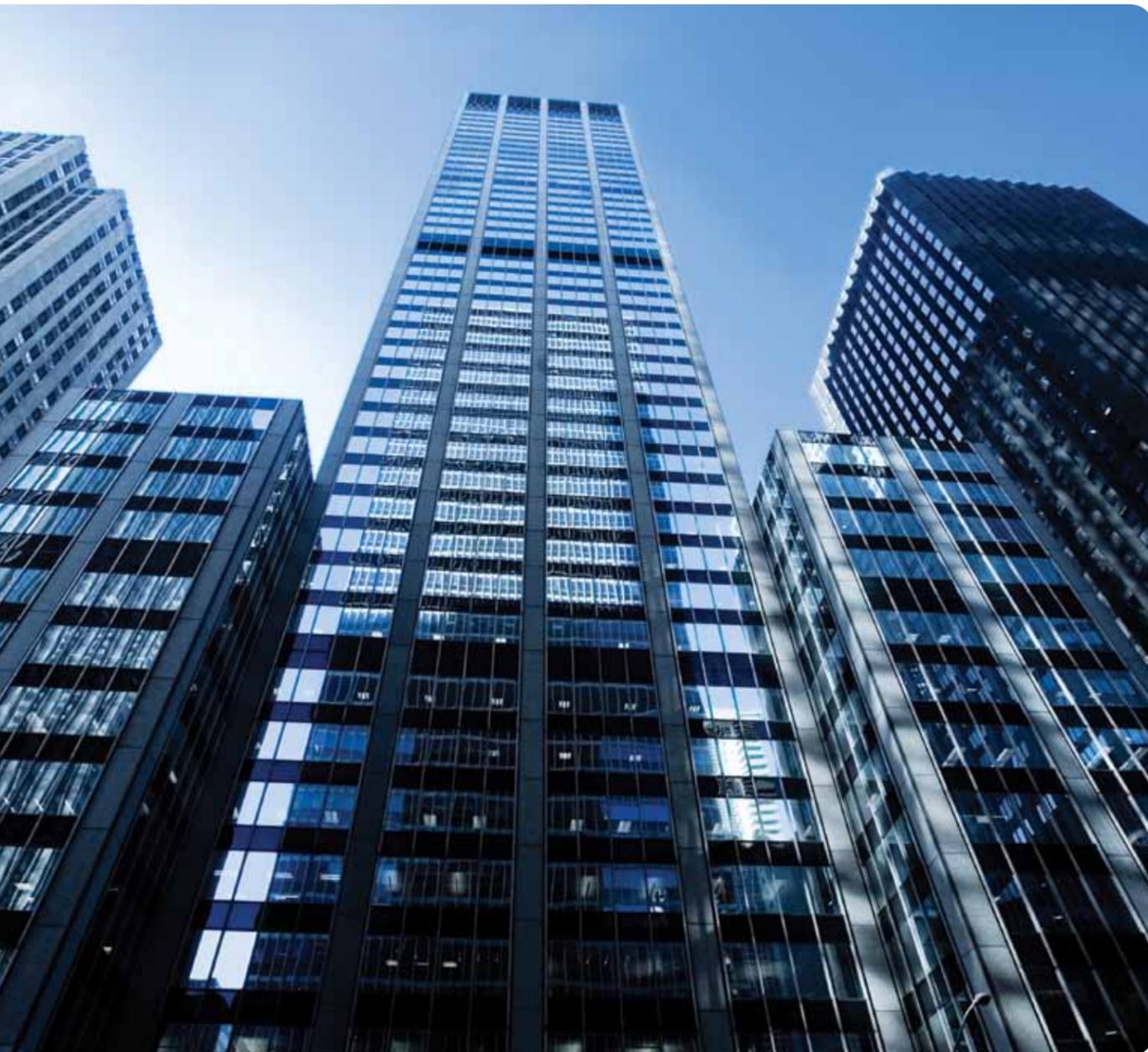
Excel Corporate Overview

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The demands of today's business environment mean we increasingly rely upon the instant supply and availability of information from both colleagues and the outside World.

This information can present itself in a variety of ways, as standard data in word processing documents, as voice messages, video clips, Internet downloads, even x-ray images and quite often as a combination of these. As a result we constantly expect more from our computer networks and IT systems, not only in terms of performance but also, and just as importantly, in terms of availability – 'up time' – and

reliability. Investment in powerful computers, e-commerce and faster communication networks has never been higher, and is no longer limited to the blue chip corporate or city financial institutions. From sectors such as retail, education and health, to transport and leisure, it's hard to name a business type that is not reliant, to some extent, on an efficient and effective IT strategy.



A challenge facing the modern IT manager is that these typical demands have to be met against a backdrop of ever-changing standards, new applications, and budget restraints. User needs change as new applications become available, mainstream or cost effective. Increasing use of voice over IP telephony (VoIP), IP based electronic security systems, wireless and general mobile computing, Internet, Intranets, email and video conferencing all add to the growing demands placed on a company's local area network. Add to this the fact that 10 Gigabit Ethernet over copper and fibre is now common place in data centres specifically, and the benefits of a business getting its network specification decisions right are endless and quite often mission critical.

All this before we contemplate emerging applications such as 40 and 100 Gigabit Ethernet !

Consider this and then the fact that one of the most important components of these modern, business critical networks is often treated as an afterthought – **cabling**.

Cabling

A network is only as good as its weakest link.

In the highly complicated world of network and IT infrastructure, this may be an over simplification of matters, but it is nevertheless true.

If your cabling infrastructure is not designed, installed and in the first instance built from components that can cope with current and more importantly future demands, your investment in hardware – from servers, through routers and switches, to client devices – is wasted and your business suffers. Many surveys over recent years have confirmed that more than 50% of network failures are due to problems with the installed cabling.

The life expectancy of your cabling infrastructure is far greater than that of any of the hardware that will connect to it. You must therefore plan well, think ahead and consider your choices carefully when deciding upon, not just the type and standard of structured cabling for your business, but also the brand you choose.

A well designed, correctly installed, standards-compliant structured cabling system, backed by a comprehensive warranty programme is the best way of protecting your investment and allowing for future needs.

Introducing Excel

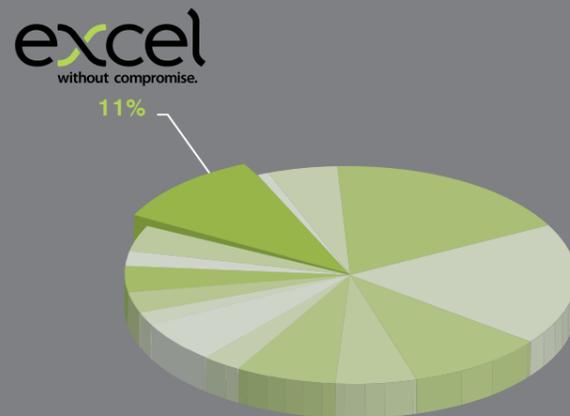
Excel is a world-class premium end-to-end infrastructure solution – designed, manufactured, supported and delivered – without compromise.

Excel is driven by a team of industry experts, ensuring the latest innovation and manufacturing capabilities are implemented to surpass quality and performance standards, technical compliance and excellence.

A Market Leader

In March 2011 the independent market research organisation BSRIA, reported on over 15 brands of structured cabling in its survey of the 2010 UK market. Of these, four companies accounted for over 57% of the total market when measured by value. Excel is proud to have recorded third position with 11% of the copper cabling market, in what is widely regarded as the authoritative survey of the UK market.

Sales of copper products by suppliers (OEM Sales not included), value %, 2010



Source: BSRIA 2011

Following expansion into international markets from 1996 the system is a growing force in markets across EMEA, with customers supported in over 28 countries by Excel offices in Birmingham, St Neots, and City Of London in the UK, Madrid in Spain, Dubai in the United Arab Emirates and Hong Kong.

The meteoric rise of the brand reflects a growing demand throughout EMEA for a reliable, standards-compliant, readily available, structured cabling and racking system. Excel is able to deliver this mix through a growing base of distributors and integrators across the region, which combine to make the brand an increasingly viable option. With a focus on, system performance, independent verification and a 25 year product and application warranty, when installed by an Excel Partner, it's easy to see why this is the system of choice in many government, education, retail, finance and enterprise installations.

Strength and Stability

The Excel brand is owned by the Mayflex Group, a leading provider of Converged IP Solutions for infrastructure, networking and electronic security products. Mayflex was established in 1917 and is a successful, privately owned company with a respected name and a proven track record in partnering installers, integrators and resellers. The company is headquartered in Birmingham, England with further UK offices in Cambridgeshire and the City Of London, outside of the UK customers are supported via offices in Madrid in Spain, Dubai in the United Arab Emirates, and Hong Kong. With EMEA revenues in excess of £70 Million, Mayflex resources ensure the constant development of the Excel brand and product portfolio and the ability to hold the majority of Excel products in stock for immediate despatch.

Excel Brand Values

- **Proven:** standards-compliant products, with third party independent verification from test houses such as Delta and 3P.
- **Accepted:** UK's number 3 by value with 11% market share in 2010.
- **Compatible:** an end-to-end system supported by one company with one warranty providing support and peace of mind from cabinets to copper, fibre & voice cabling systems.
- **Flexible:** from Category 3 through to Category 6_A copper cabling and optical systems from conventional multimode OM1 to OM4 and Singlemode OS2, to pre-terminated high density MTP and highly flexible blown fibre systems, Intelligent Infrastructure Management (IIM), Cabinets and Intelligent Power Distribution Units.
- **Reliable:** EMEA wide partner programme, 25 year warranty programme, pre and post sales technical support, 14-year plus product development programme, third party verification as standard on all key solutions.
- **Available:** EMEA wide stock availability via Excel Distribution Partners for immediate delivery.



The Excel Partner Programme

The Excel Partner Programme offers three levels of accreditation,



Excel Cabling Partner (ECP) – These organisations are experienced providers of design, installation and testing services for the entire range of Excel passive copper, conventional and pre-terminated standard and high density MTP optical fibre solutions.



Excel Solutions Partner (ESP) – These organisations offer turnkey integrated solutions, including conventional Excel copper and optical solutions, and pre-terminated high density MTP optical fibre solutions. Solution Partners also offer Intelligent Infrastructure Management and Blown fibre cabling solutions. These infrastructure systems can be integrated with IP solutions such as wired and wireless Ethernet, electronic security, and building management systems.



Excel Distribution Partner (EDP) – These organisations operate as local support and service centres for the Excel Partners in their territories, they offer sales, and technical assistance and hold stocks of key product lines to service demand in a fast and efficient manner.

A pre-requisite of partner status is training. For both ECP's and ESP's extensive training is undertaken, the understanding of which is verified through an exam process to demonstrate knowledge of the Excel system and how to design, install and test in accordance with Excel guidelines, best practice and above all standards compliance. All design, installation and test training courses are run by our independent training partner, CNet Training, ensuring unbiased, technically based, rather than a commercially influenced accreditation.

Partner status must be maintained through bi-annual attendance of training refresh programmes, and through consistent high levels of customer service, system design and installation.

Once partner status is awarded, both ECP's and ESP's are able to provide the comprehensive 25 year warranty for cabinet, copper, fibre and voice installations.

In the UK and UAE Excel is distributed exclusively by the Mayflex Group, elsewhere in EMEA Excel Distribution Partners are strategically located to service local ECP's and ESP's.

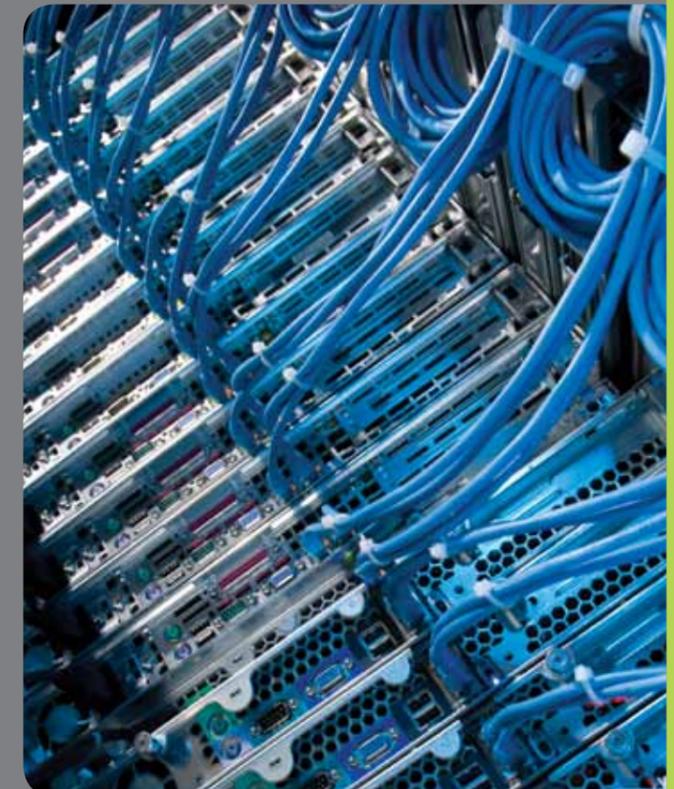


The Excel Solution

Excel structured cabling products constitute an end-to-end solution where performance and ease of installation are prerequisites. With an emphasis on compatibility and standards compliance 'from cable to cabinet', reliability and product availability, Excel is the complete trusted solution.

Excel offers one of the market's most comprehensive ranges of passive cabling products designed to suit installations in data centre, enterprise, campus, and manufacturing environments, including:

- Category 5e U/UTP and F/UTP
- Category 6 U/UTP and F/UTP
- Category 6_A F/FTP, U/FTP and U/UTP
- Intelligent Infrastructure Management (IIM)
- Multi and Singlemode optical fibre systems
- MTP high density pre-terminated optical fibre systems
- Blown optical fibre systems
- Voice cabling and accessories
- Wall and floor standing cabling cabinets
- Floor standing server cabinets
- Intelligent & standard power distribution units



Copper Cabling Systems

Copper infrastructure cabling offers different Categories and Classes of performance. There are many different bodies who publish standards. The three commonly referenced standards for UK projects are published by ISO, BS EN and TIA. Although they are similar, the performance requirements are not identical. The various performance standards support different applications. By specifying and installing a specific standard you are assured that all current and future applications designed for that standard of infrastructure cabling will work.

Category	5e	6	6 _A	7	7A
Class	D	E	EA	F	FA
Supported Frequency	100 MHz	250 MHz	500 MHz	600 MHz	1000 MHz
Application					
10Base-T Ethernet	X	X	X	X	X
100BASE-TX Fast Ethernet	X	X	X	X	X
1000BASE-T Gigabit Ethernet	X	X	X	X	X
10GBASE-T 10 Gigabit Ethernet			X	X	X
40GBASE-T 40 Gigabit Ethernet*					X

* Currently in development

The above is a summary list of the current Ethernet applications that are supported.

Many more applications are supported by the various Classes or Channels.

Class D, E and EA all utilise the RJ-45 (8 Position 8 Connector) Plug and Jack. They also offer backwards compatibility i.e. a Category 6 Patch Lead will work in a Class D Link and maintain the Class D Link performance. The anomaly is Category 7/Class F which was devised around the time of Category 6 /Class E and was intended to support different applications concurrently. For example, Fast Ethernet requires 2 pairs and voice systems require either 1 or 2 pairs. With a Class F Channel these applications may be supported at the same time by separating the pairs with special connecting leads. 1, 2 and 4 Pair connecting leads are available. As a result, the very end connector at the Telecommunications Outlet is not an RJ-45.

Which Category/Class to Specify

Selecting the Category/Class of cabling to specify, needs careful consideration. What is the requirement of the network today? This will answer the absolute minimum requirement of the cabling system. However, cabling systems are often required to have a long life; this is because they are often procured as Capital Expenditure or form part of the fabric of the building, and can therefore prove disruptive to replace. For these practical reasons, and due to the rapid development in network speeds, and range of applications, future proofing installations should be a key consideration when making decisions. **Design for Tomorrow not Today!**

Screened and Unscreened

Category 5e, 6 and 6_A components are available in screened and unscreened versions. Category 7 is a screened only system with cable of S/FTP PIMF (Pairs In Metal Foil) construction. Selecting whether to install an unscreened or a screened system depends largely upon the environment for installation and the intended applications to be operated over the cabling.

Generally the performance of Category 5e, 6 and 6_A unscreened systems is suitable for installations in the majority of verticals such as office, hospitality, education, and retail environments.

Screened versions of Category 5e, 6 and 6_A are often used where external electromagnetic noise is high or perceived to be high.

The ratification in 2008 of the Class EA copper cabling standard led to cabling specifications operating at frequencies of 500Mhz – double that of Class E – as a result consideration when deciding upon system type should be given to the cancellation of Alien Cross Talk. This is a measure of signal transfer between pairs within one cable and adjacent cables, as the cross talk influence is from outside of the sheath it is referred to as alien.

Excel recommends screened solutions as the most appropriate for customers investing in Class EA systems, due to ease of design, install and testing, compared to unscreened solutions.

Please see section Category 6_A Screened or Unscreened Systems of the Excel Encyclopaedia for further details.



Third Party Verification

Third party verifications are an independent 'tick in the box', verifying either a product or a set of products' compliance with a particular standard.

Excel has invested in such test and verification programmes for over 10 years, working closely with laboratories such as Delta and 3P based in Denmark, and ETL in America. As well as testing the component and channel, the manufacturing facilities are visited for spot checks to ensure the consistent quality in the manufacturing process.

What's the difference between Component and Channel verification?

Excel Category 6 and Category 6_A systems are amongst a handful in the industry with both channel and component verification.

In both cases, products are provided to the laboratory for testing to ISO and EIA/TIA cabling standards. Within these standards documents are performance requirements for both a channel, as found in most cabling installations, and for the components, which make up these channels.

So, for example, a manufacturer can provide the lab with a number of individual components – cable, keystone, patch panel, patch cord – and request that these be tested in isolation against the requirements of the standard. This is component level certification.

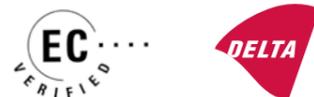
Alternatively the manufacturer may provide a set of these components terminated in their factory to a 4 connector channel model as typically found in the field. A review of the market will show that a reasonable number of cabling system manufacturers can provide channel compliance certificates. Channel compliance is an easier certificate to gain, as manufacturers can 'tweak' the performance of certain components to compensate for poorer performance elsewhere in the channel. For example, a cable could be designed to perform well above the standard to compensate for a keystone jack that does not meet, or marginally meets the required specification.

With component certification there is no hiding place. Each product is tested to meet the standard and this really is the ultimate performance test for a manufacturer looking to promote third party verification as a key feature of its systems' performance and quality standards.

Each of the key products used to build an Excel Category 6 and 6_A cabling solution have component level standards compliant performance verification from Delta.

Who is Delta?

EC VERIFIED from Delta is the ultimate independent mark of global approval for cables and connecting hardware. It guarantees that the products approved by Delta as an independent third party testing laboratory have been tested to all international relevant standards in the most exacting way, under rigorous control, and with regular inspection of the manufacturer's production quality. Some of Europe's most experienced engineers and technicians work on the products in the best equipped modern laboratories. It stands for undisputed world-wide quality assurance.



Excel Copper Systems

Excel copper cabling solutions, manufactured to Category 5e, 6 and 6_A standards are used by thousands of organisations in a wide range of vertical markets on a daily basis.

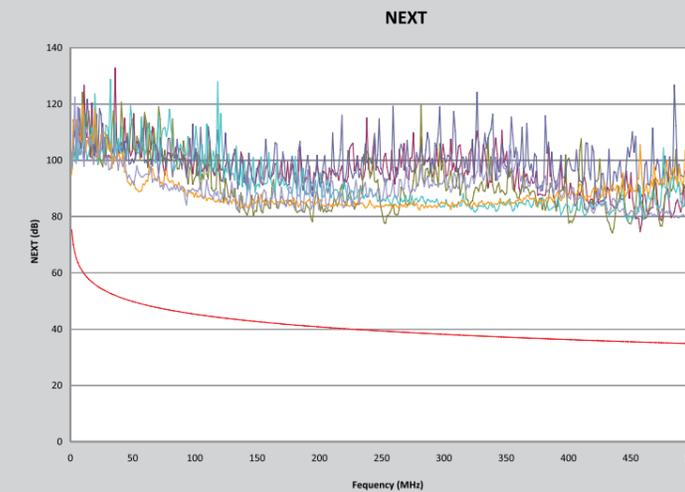
Our solutions are designed to outperform the standards, not just meet them, we design in headroom to allow for worry free product selection and future proofing, and real world installation challenges.

Each of the key components within our system offering are designed, manufactured, and rigorously tested to relevant ISO or TIA/EIA standards before being submitted to independent test houses to gain the all important third party verification discussed previously.

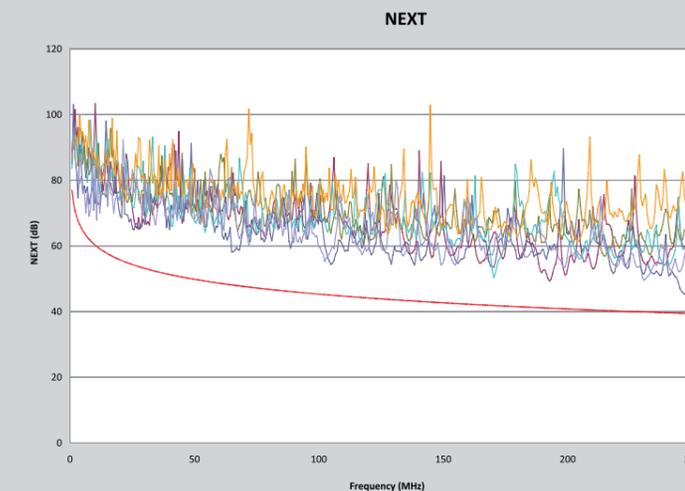
For further details please refer to the Excel Encyclopaedia, our web site, or contact us.

The following graphs show full frequency sweep cable tests carried out on a Network Analyser with cable adapters. The limits required for cable defined in IEC 61156 are indicated by red lines (____). IEC 61156 is the cable standard referenced in ISO/IEC 11801:2002. The test is of a 100m length of cable without connecting hardware (jacks, modules or patch panels) and the broader the gap between the red "limit line" and the standard "under test line" the better the performance of the product under test. This 'gap' is often referred to as headroom and indicates performance above that required by the standard.

Excel Category 6_A Typical Performance Chart (100-150 Excel Category 6_A F/FTP LSOH Cable)



Excel Category 6 Typical Performance Chart (100-071 Excel Category 6 U/UTP LSOH Cable)



Excel Intelligent Infrastructure Management Systems



Excel announced a strategic partnership with RiT, the market leader in network infrastructure management solutions, in April 2010, to offer RiT's EPV™ system in conjunction with the Excel product set.

EPV™ and Excel bring together a simplified solution for Intelligent Infrastructure Management (IIM) requirements at a fraction of the cost expected by most. With free firmware updates included within the solution, there are no ongoing costs.

EPV™ is a risk-free solution that gives an accurate, real-time picture of an organisation's cabling infrastructure, at any time and any location.

“ With free firmware updates included within the solution, there are no ongoing costs. ”

EPV™ is a 'plug and play' cable management system that enables network managers and administrators constant access to information on the status of patch panel connections throughout the network. Designed for ease and simplicity, the EPV™ is straightforward to deploy and even easier to use, and does not require any additional software or server installation. Information regarding the connections throughout the panels and communication racks is constantly and automatically collected by the system, and delivered via a user-friendly, permission-based Graphical User Interface (GUI) on Internet web-browsers, making it accessible wherever there is Internet connectivity. All connectivity changes are detected immediately, enabling the system to send notifications and real-time alerts the moment a change occurs, both to the system GUI and via email.

For further details please refer to the Excel Encyclopaedia, our web site, or contact us.



Optical Fibre Solutions

Traditionally considered as a backbone of campus media, recent developments in both the cost effectiveness and ease of installation of fibre optic systems have led many users to consider the real possibility of fibre-to-the-desk as the ultimate ‘bandwidth provider.’

There is no doubt that, whatever its application, the grade and type of fibre you install will have significant implications.

Fibre optic cable and connecting hardware is available in many different types and specifications. The ISO and CENELEC standards bodies have created categories that define these components. Categories include OM1, OM2, OS1, etc. Categories of components following specific conditions and parameters are connected to form classes of channels. Classes include OF-300, OF-500, OF-2000 etc. The class, as it specifies the physical and optical parameters, has a selection of application protocols associated with it. As new applications are developed they are designed to fit within the existing categories and classes. The benefit to the end user client is that a system designed and installed to a specified category/class will support all current and future applications designed for it.

Attenuation limits for optical fibre cabling channels

Class	Type of optical fibres	Maximum channel attenuation dB			
		Multimode		Singlemode	
		850 nm	1300 nm	1310 nm	1550 nm
OF-300	OM1, OM2, OM3, OM4, OS1, OS2	2.55	1.95	1.80	1.80
OF-500	OM1, OM2, OM3, OM4, OS1, OS2	3.25	2.25	2.00	2.00
OF-2000	OM1, OM2, OM3, OM4, OS1, OS2	8.5	4.5	3.50	3.50
OF-5000	OS1, OS2			4.00	4.00
OF-10000	OS1, OS2			6.00	6.00

There are currently three basic material combinations used in the manufacture of fibre cables. These are all-silica optical fibre, plastic optical fibre and plastic clad silica optical fibre. The majority of infrastructure cabling used in LAN and data centre applications carried out uses the first, all-silica optical fibre.

All-silica optical fibre

All-silica optical fibre is available in two versions which are multimode (OM) and singlemode (OS). Multimode and singlemode are further divided into Categories.

Multimode (MM)

Multimode cabled optical fibre is currently constructed using two glass sizes. These are 62.5/125µm and 50/125µm. For a given category they have minimum bandwidths.

Category	Size	Bandwidth		
		Overfilled launch		Effective laser launch
		850 nm	1300 nm	850 nm
OM1	62.5/125µm	200 MHz.km	500 MHz.km	
OM2	62.5/125µm and 50/125µm	500 MHz.km	500 MHz.km	
OM3	50/125µm	1500 MHz.km	500 MHz.km	2000 MHz.km
OM4	50/125µm	3500 MHz.km	500 MHz.km	4700 MHz.km

Singlemode (SM)

Singlemode cabled optic fibre is currently available in two categories: OS1 and OS2. OS1 is available in a loose tube or tight buffer construction. OS2 singlemode is manufactured from G.652.D (low water peak) and it has to be loose tube construction.

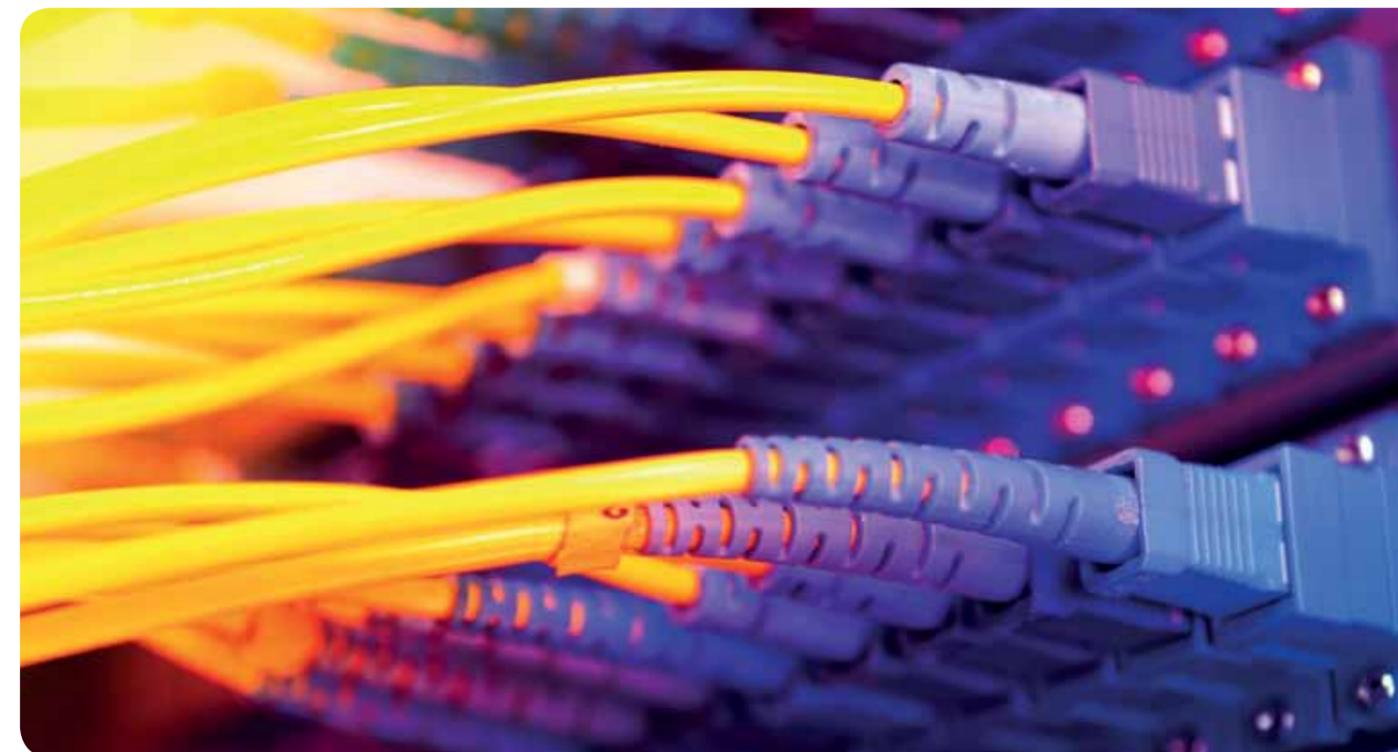
Wavelength	Maximum attenuation	
	OS1	OS2
1310 nm	1.0 dB/km	0.4 dB/km
1383 nm		0.4 dB/km
1550 nm	1.0 dB/km	0.4 dB/km

Supported applications

The following are Ethernet applications supported by different classes and categories of fibre optics and their maximum channel lengths. Other applications are supported, refer to the latest edition of BS EN 50173-1.

Ethernet Application	Multimode			
	OM1	OM2	OM3	OM4
1000BASE-SX (Gigabit)	275 m	550 m	550 m	550 m
10GBASE-SR/SW (10 Gigabit)	32 m	82 m	300 m	300 m
40GBASE-SR4 (40 Gigabit)			100 m	150 m
100GBASE-SR10 (100 Gigabit)			100 m	150 m

Ethernet Application	Singlemode	
	OS1	OS2
1000BASE-LX (Gigabit)	2,000 m	5,000 m
10GBASE-LX4 & LR/LW (10 Gigabit)	2,000 m	10,000 m
10GBASE-ER/EW (10 Gigabit)	2,000 m	22,250 m
100GBASE-LR4 (100 Gigabit)	10,000 m	10,000 m
100GBASE-ER4 (100 Gigabit)	40,000 m	40,000 m



Excel Optical Fibre Systems – Conventional

The Excel fibre optic range ensures all options are available to you, our most popular offering is based around a 'conventional' range of cables and field terminated connectivity options.

Choose from loose tube or tight buffered cable in multimode and singlemode designs offering performance compliance with ISO11801 criteria from OM1 through to OM4 in multimode, our singlemode solutions offer OS2 compliant performance as standard. We only use class A glass in our optical cables, ensuring the most reliable and repeatable performance and/or external use and with low smoke zero halogen outer sheaths as standard.

Cable designs are available (either from stock or directly from our manufacturing partners) from 4 to 200-plus fibres, with a variety of jacketing and armouring options, our standard, from stock designs are suitable for internal and external applications and have IEC332-1 low smoke and halogen jacketing as standard.

System design flexibility is enhanced by our approach to supporting both direct termination, splicing and a range of connectivity solutions, even those from outside the Excel offering (for example through our concessions policy we will cover connectors such as hotmelt or lightcrimp within our system warranty).

The Excel cabling system supports field or pre-terminated ST, SC, LC, and FC connector types, our Fibre distribution units are available in either sliding drawer 19" rack mount designs, and wall or surface mount versions. To complete the picture patch cords and pigtailed are available in a range of lengths and with various cable and connector types.

Excel Optical Fibre Systems – Blown

Excel has partnered with Prysmian to offer their Sirocco® Blown Fibre Solution

The Sirocco® Blown Fibre System provides a simple solution to manage evolving network demands without the need for high initial capital expenditure or extensive network planning. Sirocco® enables optical networks to adapt to changing business requirements. Sirocco® allows optical fibres to be deployed on demand from one point of a network to another (internal or external) using compressed air to blow optical fibre into pre-installed tubes.

The flexibility offered by blown fibre solutions can substantially minimise today's network build costs. With the many uncertainties in the market, such as future trends in technology, demand from customers, people movement and financial confidence, Sirocco® can provide a flexible, low total life cost and 'peace of mind' solution.

Key benefits include:

- Service provision on a just-in-time basis (Network on Demand)
- Existing fibre links can be easily re-routed to new users
- Latest and emerging fibre technologies (MM OM3 SM) can be deployed
- Capital expenditure costs can be deferred
- Deployment of fibres is related to actual requirement



About Prysmian

- Prysmian is a leading player in the industry of high-technology cables and systems for energy and telecommunications
- Prysmian Group sales exceeded 3.7 billion Euros in 2009
- Prysmian boasts a global presence with subsidiaries in 39 countries and 56 plants in 24 countries
- Prysmian has 7 Research & Development Centres in Europe, USA and South America, and 12,000 employees

25 Year Warranty

When the Sirocco blown fibre system is installed by an accredited Excel Partner, who has also attended the Prysmian Sirocco training course, the installation is covered by the standard Excel 25 year product and application warranty.



For further details please refer to the Excel Encyclopaedia, our web site, or contact us.

Excel Optical Fibre Systems

– Pre-Terminated High Density MTP

This Excel system uses the MTP® connector, manufactured by US Conec, a superior version of the Multi-fibre Push On (MPO) connector, ensuring higher performance than standard MPO connectors, therefore providing an ideal migration path to high speed 40G and 100G Ethernet applications.

The MTP® connector houses a number of optical fibres. The Excel range currently utilises the 12 core MTP® connector. These 12 fibres are mounted in a single row between the indexing pins/holes. Connection of the MTP® is a simple matter of pushing the connector home into the coupler, until it clicks.

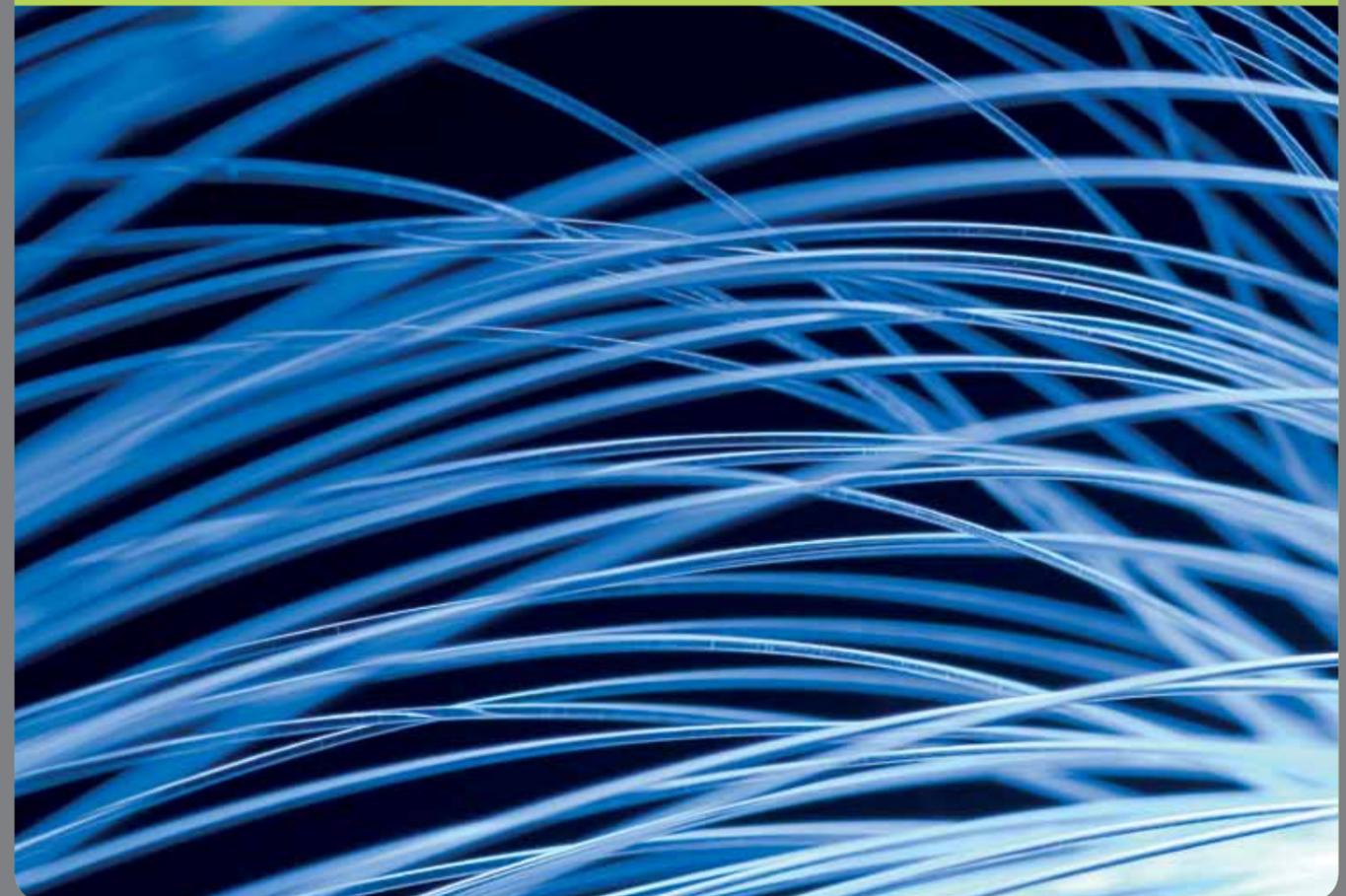
Currently the MTP® (and generic MPO) connectors are not used in active equipment.

The cables with MTP® connectors attached at each end are known as Trunk Cables. Trunk Cables are available in OM3, OM4 & OS2 versions containing 12, 24, 36, 48, 72 or 96 cores using a number of MTP® connectors.

Cassettes housing the conversion from the MTP® to LC Connectors in a Duplex configuration are available to permit commonly used active equipment connection. Three of the cassettes are able to be contained within a 1U Patch Panel. Ten cassettes are accommodated by the 3U high cassette panel.

The cassettes are available, housing 12 or 24 fibre cores (6 Duplex LC and 12 Duplex LC Ports respectively). The 12 Core/6 Duplex LC Port Cassette has one off MTP® coupler on the rear and the 24 Core/12 Duplex LC Port Cassette has two.

For further details please refer to the Excel Encyclopaedia, our web site, or contact us.



The Excel Warranty Programme

Over the years the proliferation of cabling system vendors and distributors has seen the provision of a warranty become, in some cases, little more than a marketing tool, offered without much thought given to those who might request it. **This is not – and never has been – the approach taken by Excel.**

The Excel 25-year product and applications warranty can only be issued by an Excel Partner who will have attended and passed a series of training programmes on a regular basis prior to being accredited. Each warranty application follows the same strict procedure, regardless of installation size, product or integrator involved. A detailed site registration form is completed by the integrator and provided to the Excel technical support team together with test data for each installed copper and, where applicable, optical link. Our engineers audit this information carefully, not only looking at the electrical performance characteristics but also checking for correct tester settings, cable lengths and other potential anomalies.

Only when we are completely satisfied with the information provided will a warranty certificate be issued. Where necessary, and at our discretion, we may visit the installation to verify a particular fact, or audit the physical installation practices. If the site in question has chosen to adopt a pre-terminated solution, we require a minimum of 50% of each installed quantity of links to be tested on site.



The warranty is issued directly by Excel to the end user on approval of all of the relevant test documentation. From the date of issue of this documentation your installation and the products it comprises of are covered by a 25-year workmanship and applications warranty.

In effect the warranty received by Excel clients provides a bandwidth guarantee, regardless of the specific applications running over the network. Provided an application is designed to work within the bandwidth range of the installed grade of cable, it is covered.

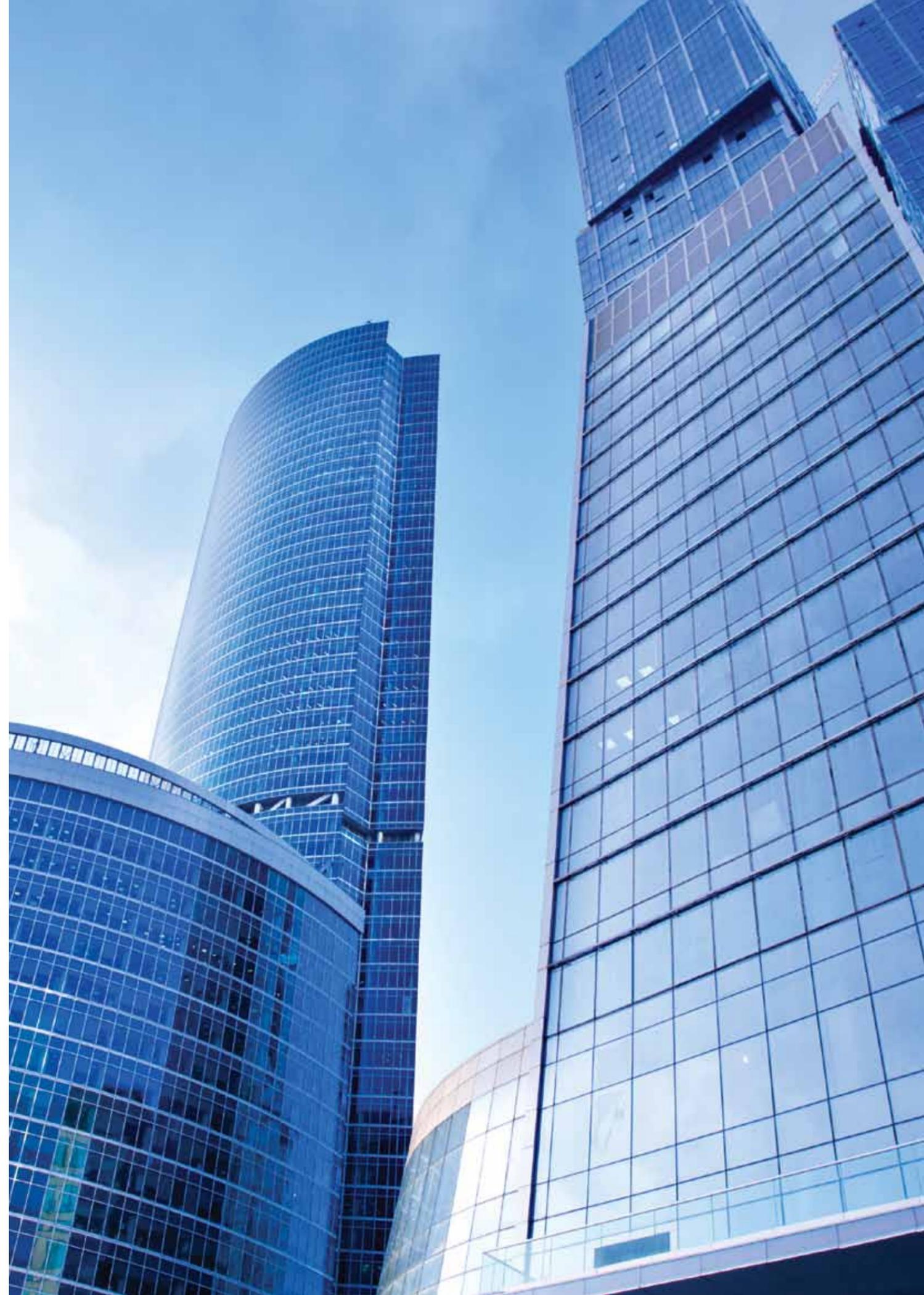
This means that you can rely on the support of Excel and your chosen integrator to resolve any issues or concerns relating to the installation at any time during the warranty period.

For further details please refer to the Excel Encyclopaedia, our web site, or contact us.



The Excel Warranty covers

-  CAT5e
-  CAT6
-  CAT6A
-  FIBRE
-  VOICE



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