Excel Online Warranty System

Excel provides a comprehensive 25 year product and applications system warranty on a copper, fibre or voice installation when installed by an accredited Excel Partner.

Since the re-launch of the Excel Partner Programme back in October 2011 our technical and web team have been working closely together to improve the way that Excel Partners submit warranty applications to Excel.

As a result on 1st March we are launching a new system. This new system includes many features & benefits:

- Improved speed of warranty process
- Print off your warranty certificate from the website as soon as the application has been approved
- Send a link to a copy of a certificate directly to your end user customer
- A database of all your warranty records (from March 2012) that you can access via the website at any time to suit you
- View your pending warranties online
- View any warranties that are held and update the information accordingly to progress the application
- Print off duplicate copies of the certificate should you need them in the future

The Excel warranty certificate will contain comprehensive details of the installation including a breakdown of the Excel products that are covered by the warranty and will also include a copy of the full terms and conditions.

Important

Please make sure that your test results are submitted from an up-to-date calibrated tester – failure to do so could mean that your results will not be accepted and the 25 year warranty will not be provided. The calibration date used is the one stored in the results.

To apply for a warranty please visit the ‘Partner Area’ located at www.excel-networking.com

Follow us on twitter @ExcelNetworking
New Excel Products

Excel 24 Port 1U Keystone V Patch Panel

The Excel 24 Port 1U Keystone V Patch Panel allows standard keystone jacks to be presented in an angled patch panel configuration. The patch panel is designed to accept all of the Excel unscreened and screened standard keystone jacks from the Category 5e, 6 & 6A portfolios. This panel includes a rear cable manager to allow the cable to be dressed into the panel neatly and securely. The V shape of the panel presents the jacks at an angle to the front of the cabinet that reduces the strain on the jack that results from the patch lead. The patch lead is naturally routed to the cabinet/frame cable management reducing the requirement for rack mounted cable management bars. Earth bonding leads are supplied fitted to enable grounding if required.

Part Number Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excel 24 Port 1U Keystone V Patch Panel</td>
<td>100-040</td>
</tr>
</tbody>
</table>

Excel 24 Port 0.5U Keystone Patch Panel

The Excel 24 Port 0.5U Keystone Patch Panel delivers a high density offering with the benefit of a single row of keystone jacks. The single row of jacks means that the installation is straightforward and allows an individual jack to be removed if required. As the panel is only 0.5U in height it allows, by using two panels together, the ability to present 48 keystone jacks in 1U of rack space. Using two 0.5U panels ensures that the jacks are all aligned the correct way up. Most 48 Port 1U panels require the bottom row of jacks to be mounted upside down.

The Excel 24 Port 0.5U Patch Panel will accept:
- Excel Category 6, Low Profile Screened Keystone Jack – Toolless (100-181)
- Excel Category 6 Unscreened Keystone Jacks – LSA Punchdown (100-011 & 100-011-BK)
- Excel Category 5e Unscreened Keystone Jacks – LSA Punchdown (100-010 & 100-010-BK)

The patch panel is supplied complete with the earth bonding lead fitted.

Part Number Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excel 24 Port 0.5U Keystone Patch Panel</td>
<td>100-041</td>
</tr>
</tbody>
</table>

Reduced Diameter Category 6A Cable

In response to customer feedback Excel has reduced the diameter of the Category 6A cable with an enhanced design. This has been achieved by changing the screening of the individual pairs to screening two pairs with an ‘S’ foil configuration. The F/FTP cable has reduced to a diameter of 6.9mm which is a reduction of 19.7% of the cross sectional area (CSA). And the U/FTP is only 6.7mm down by 14.5%. The reduction in cable size and weight allows more cable to be installed in a given size of containment.

Do not confuse this cable design with those that use smaller conductors to offer reduced diameter, this cable is 3rd party verified ISO110801 2nd edition:2002 component compliant and is suitable for upto 90 metre installations.

Part Number Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excel Category 6A LSOH F/FTP “S” Foil Screened Cable – Ice Blue – 500m</td>
<td>100-196</td>
</tr>
<tr>
<td>Excel Category 6A LSOH U/FTP “S” Foil Screened Cable – Ice Blue – 500m</td>
<td>100-191</td>
</tr>
</tbody>
</table>

These cables will replace part numbers 100-150 and 100-192 respectively as and when the stocks are depleted.

Excel Launches a Blog Site

Excel has launched a new multi-language blog to provide you with an additional source of useful information on relevant topics and updates on the Excel solution.

The main contributors to the blog will be Paul Cave, Excel Technical Manager, and Simon Robinson, Excel Product Manager. Both have extensive experience in the industry, are BICSI RCDD accredited, amongst other industry qualifications, and sit on various Standards Committees and BSI Expert Panels.

Commenting on the blog, Tracey Calcutt, Marketing Manager, said ‘The Excel blog provides Paul, Simon and I with an informal platform to share with customers, consultants and end users our thoughts and advice on product updates, standards and installation tips, plus anything else industry related that we feel strongly about. And as is usual with blogs, our readers will be able to engage in conversation and debate with us by posting their comments and opinions.’

Tracey continued, ‘This is a further extension to our social media activities and we are already providing regular updates and snippets of information to our followers on Twitter, LinkedIn and Facebook.’

To follow the Excel blog please visit blog.excel-networking.com and add the site to your favorites, or subscribe via RSS by using the link at the top right of the blog pages.
Excel Partner Briefings
– May 2012

The Excel Partner Programme was re-launched in October 2011 as part of the fresh new look and feel to the Excel brand. The key element to the new programme is ‘continual learning’. We want to make sure that our partners have the right expertise and knowledge to ensure that end user customers receive the very best experience possible when selecting Excel.

As well as undertaking the online technical training every two years all Excel Partners are required to attend one Partner briefing every 12 months. The first briefings took place in November and were a great success with over 200 delegates attending.

The next events will take place on:

Tuesday 22nd May – Glasgow
Thursday 24th May – Leeds
Tuesday 29th May – Birmingham
Thursday 31st May – City of London

Dates across EMEA to be confirmed for 2012

The events will start at 9.15 a.m. and finish at around 1.30 p.m. and will provide an update on Excel, new products to the range, an introduction to our new improved online warranty application system and much more – to see the full agenda please visit www.excel-networking.com

These events are aimed at customer facing staff, designers and middle to senior management.

If you didn’t attend a briefing in November please ensure that at least one representative attends one of the events above. You could jeopardise your partner status if you don’t attend.

For anyone who attended an event in November we would be delighted to see you again in May – it’s the perfect way to ensure that you are fully up to speed on all of the features and benefits of the Excel structured cabling system.

To book to attend visit www.excel-networking.com and follow the link from the homepage.

Recent UK Project Wins

Industrial & Commercial Bank of China
Category 6, F/FTP – 1565 points

University College London Hospitals
Category 6 U/UTP – 1500 points

Shard of Glass, London
15 Excel Cabinets
Category 3 – 300 points
Prysmian Blown Fibre
– 12,500 metres of tubing
17,000 metres of Singlemode Fibre

City of York Council, West Offices
Category 6, U/FTP – 2500 points

Ultra Electronics
Category 6, U/FTP – 3600 points

Liverpool John Moore University
Category 6 U/UTP - 5564 points

Recent European Project Wins

Inland Revenue – Hungary
Category 5e – U/UTP – 12,000 points

Val Thorens Ski Resort – France
Category 6, U/FTP - 3500 points

L’ECAM/Charles de Foucault – Strasbourg
Category 6, U/FTP – 2500 points

Cyprus Electricity Authority
Category 6, U/UTP – 2300 points

Government of Malta
Category 5e U/UTP – 800 points

College De L’isle D’abeau – Lyon
Category 6 F/FTP – 1000 points
The New Critical Factor
– Containment

Containment and trunking are key to any successful cabling installation and in this article we will examine some of the factors that need to be considered.

There are, in fact, five separate elements that affect the installation of containment. These elements include a combination of regulations and standards. The former are legal requirements as they involve Electricity, which, obviously, can be fatal. For this reason containment and trunking are normally involved as part of the electrical package, but how many structured cabling installers know the following element, or even want to?

BS 7671 Wiring Regulations

- Safety
  - Protection against
    > Electric shock
    > Thermal effects
    > Overcurrent
  - Inspection & testing
  - Requirements on special locations

Currently on 17th Edition since 1st July 2008 with amendment 1 issued in 2011.

The most important standard to cabling installers is BS/EN 50174, which is in three main sections:

- Part 1. Installation specification of IT cabling
- Part 2. Planning and practices INSIDE buildings
- Part 3. Planning and practices OUTSIDE buildings

Part 1 also covers all aspects relating to the quality of the containment and its installation, ensuring the pathway systems SHALL have smooth surfaces and be free from burrs, sharp edges and other projections that can damage cables. Furthermore, pathway systems SHOULD provide all components with physical protection, and IT pathways SHOULD NOT be supported in the other supply systems i.e. Heating and HVAC trunking etc.

NB. In Standards parlance SHALL = Mandatory and SHOULD = Recommended

There has been much written in the last 12-18 months about the move from Cat6 to Cat6A, with every article focusing on performance and the relative merits and advantages. The one major factor that is rarely discussed is the impact on containment. Currently, more time than ever before is being spent inspecting and assessing containment for suitability. With careful planning this could be minimised and the project could avoid some time-consuming and costly mistakes.

However, before that stage is reached a great deal of education is required, at all levels, from Installers to Building Services Consultants and M&E engineers, right the way through to some of the manufacturers of containment. The fundamentals have changed with Cat6A and are further complicated by capacity claims made by certain Containment Manufacturers.

On top of all this, the waters are muddied even further by the more increasingly critical factor of the separation of power and data; the higher the bandwidth the more susceptible it is to interference, hence the more common use of screened cabling systems in current times.

Whether they are screened or unscreened Cat6, solutions, they both bring their separate, but not vastly different problems, both borne by their physical construction. The common factor is the physical dimensions. The outside diameter (OD) has increased by a huge percentage, in fact a staggering 25-30% from approximately 6mm for Cat6 up to about 8mm for Cat6A. For example, where it used to be common to run 4 Cat6 cables in a length of 25mm Kopex to a GOP box it would now be difficult to get 3 Cat6A cables in.

And it doesn’t end here; the impact is all the way down the line. Dado Trunking is one of the most sensitive areas. Many of these products’ designs were based upon the electrical requirements and that of Cat6, but without due care this can cause problems around not only the capacity but, more importantly, the bend radii. Already one manufacturers’ capacity claim has reduced from 14 to just 3 Cat6 cables due the design of their bends, which where compromised by the corner pieces having to be screwed into place and the screw positions being on the inside of the outer compartments.

The next major factor is the depth of the trunking. Not only does this contribute to the overall capacity when trunking it with Cat6, but great care needs to be taken with the bend radii. This increase in the OD of the cable has a natural knock-on effect. What was a bend radii of 24mm for Cat6 suddenly becomes a minimum bend radius (MBR) of 40mm with Cat6A. This is usually well-catered for in the bends of the trunking, but is severely hampered when it comes to the back box depth. Add on outlet and an angled shuttered module, which in themselves can add a further 20mm, and the problem becomes apparent. If the trunking has a depth of 60mm or more, with the exception of MK Prestige 3D whose depth is only 57mm, its overall dimension has been designed to satisfy the data market, and it can accommodate even the thickest Cat6A cables, as long as good installation practices are maintained.
It may seem strange, but when dressing cables into back boxes, sometimes more is less. By creating a loop within the box (i.e. entering at the bottom), looping up to the top to terminate on a jack that is angled down usually makes it easier to then put the faceplate back on. Trying to bend a short length of a thick cable cannot only be difficult, but it could result in the cable being crushed back into place with a compromised bend radii. Part 1 of BS/EN 50174 states the design of the termination points SHALL:

- Allow safe access
- Ensure link performance (Keep MBR)
- Have adequate clearance to install components in accordance with cable manufacturer’s instructions.

The following image gives an example of how to do it WRONG!

![Wrong practice](image)

Whilst dado trunking poses the largest area of concern, there are still issues with the perforated tray and basket tray, which is not just down to the greater OD, it is also a factor of the weight. With both screened and unscreened cables, the thickness of the conductors has increased to 23AWG from 24AWG, which doesn’t seem a large amount, but soon builds up. In the American Wire Gauge Standard, the lower the number, the thicker the cable, and this also relates to how many times the cable has gone through the drawing process.

Whilst the latter factor is more about the how the basket is fixed or mounted rather than the possibility of the bulk of the cable bundles crushing those on the lower levels, it is something to be aware of.

The major impact of the larger OD is that of capacity. A 300mm section of Basket Tray may comfortably hold 320 Cat6 cables with 20% spare capacity left. Given the same criteria it would be difficult to get 200 Cat6, cables in. This is a major consideration when planning main horizontal runs as approximately 35% more basket tray is required for the same amount of cable.

Both BS/EN50174 and BS7671 Wiring Regulations give different calculations to determine capacity. For consistency cabling installers should stick with BS/EN 50174.

Finally, there are two elements to consider; they are Part M of the BS7671 and BS/EN 50085 the European Trunking Standards; the latter being referenced in BS/EN 50174-2 as follows: Clause 4.5

- Trunking should comply with ENS0085-2-1

The above is the Standard for safety and performance of trunking and covers:

- Fire Hazard
- Access to Live Parts
- Mechanical Strength
- Resistance to Heat

Part M is probably the most under used building regulation and covers, amongst other things, visibility requirements (BS 8300 – 2009). It effectively states that power sockets be identified by way of visual contrast. This visual contrast is achieved by 30 points difference in Light reflectance values (LRV). LRV is the proportion of light reflected by a colour. In essence, Pure White = 100 and Jet Black = 0

**Conclusion**

Containment used to be something that was ‘installed by others’. That may remain the same, however the cabling installer needs to have an input, and early on, to ensure what is being put in is up to the job.

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Author: Paul Cave
Technical Manager

Paul Cave is Technical Manager at Excel Networking and has over 25 years’ experience in the IT industry, 20 of which has been in the Structured Cabling and Networking Markets.

He holds a number of professional qualifications including Certified Data Centre Design Professional (CDCDP), BICSI Technician, RCCD and Registered Telecomms Project Manager.

Paul is a member of The Expert Panel for TCT/7/-/2 and TCT/7/-/3 and the BISCI European Standards and Education Committee.

He is also heavily involved in acting as Excel’s Technical Representative on onsite, quality audits and inspections.
Excel has a long history in providing an extensive range of Power Distribution Units (PDUs) and over the years has sold tens of thousands of units. The range now includes three distinct areas:

- **Standard**
- **Modular**
- **Intelligent**

To assist you with choosing the right product for your requirement we have produced the following quick reference charts for the Standard and Modular units – so at a glance you can see all of the key features that you need to know when choosing the right PDU.

The majority of PDUs are available from stock and if you order online you can place orders up until 8.00p.m. for next day free delivery to the UK Mainland.

For full details on the many features and benefits of the Intelligent range then please visit [www.excel-networking.com](http://www.excel-networking.com)

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### Excel Modular PDU Range

The Excel range of modular PDUs introduce flexibility and design options to suit your power requirements. A range of socket modules are available which snap into the housing quickly, easily and securely without the need for tooling.

First choose the empty housing hardware:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>No. of Modules Housed</th>
<th>Input Connectivity</th>
<th>Output Connectivity</th>
<th>Voltage</th>
<th>Current Rating (Amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>555-050</td>
<td>6</td>
<td>Optional</td>
<td>Optional</td>
<td>250V</td>
<td>32A</td>
</tr>
<tr>
<td>555-051</td>
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<td>Optional</td>
<td>Optional</td>
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<td>16A</td>
</tr>
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<td>555-052</td>
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<td>Optional</td>
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<td>13A</td>
</tr>
<tr>
<td>555-053</td>
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<td>Optional</td>
<td>Optional</td>
<td>250V</td>
<td>32A</td>
</tr>
<tr>
<td>555-054</td>
<td>5</td>
<td>Optional</td>
<td>Optional</td>
<td>250V</td>
<td>16A</td>
</tr>
<tr>
<td>555-055</td>
<td>5</td>
<td>Optional</td>
<td>Optional</td>
<td>250V</td>
<td>13A</td>
</tr>
</tbody>
</table>

Then pick your choice of power modules to go into your chosen housing.

You can mix and match socket styles to suit your requirements and be safe in the knowledge that you can change them at a future date with the ‘snap in’ connectivity.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>No. of Sockets</th>
<th>Feature</th>
<th>Output Connectivity</th>
<th>Voltage</th>
<th>Current Rating (Amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>555-060</td>
<td>3</td>
<td>Fused</td>
<td>3</td>
<td>250V</td>
<td>16A</td>
</tr>
<tr>
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<td>Fused</td>
<td>Commando</td>
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<td>10A</td>
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<td>555-062</td>
<td>4</td>
<td>Fused</td>
<td>C13 - IEC60320</td>
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<td>16A</td>
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<td>Fused</td>
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<tr>
<td>555-064</td>
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<td>Fused</td>
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</tr>
<tr>
<td>555-065</td>
<td>4</td>
<td>Fused</td>
<td>French</td>
<td>250V</td>
<td>16A</td>
</tr>
</tbody>
</table>
Excel Standard PDUs

Note: Vertical PDUs can also be referred to as ZeroU.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>No. of Sockets</th>
<th>Switched</th>
<th>Filtered</th>
<th>Mounting Orientation</th>
<th>Input Connectivity</th>
<th>Output Connectivity</th>
<th>Voltage</th>
<th>Current Rating (Amps)</th>
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</thead>
<tbody>
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<td>250V</td>
<td>13A</td>
</tr>
<tr>
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Excel Patch Leads

- Singles

Back in October 2011 we announced that all of our Category 6 and 5e patch leads would be supplied with an LSOH cable sheath and Blade style ‘slimline’ moulded strain relief boot with clip protector as standard, we also moved the fast moving products in the range to packs of 10, to reduce the amount of packaging used.

We’ve listened to your feedback since this change and we are pleased to announce that once again all of the Excel Patch Leads, with the added features, will be available as singles as standard.

The part numbers will simply drop the ‘-10’ from the end and as and when we reprint the catalogue these codes will be updated.

Don’t forget that every Excel patch lead is independently verified by Delta so the quality is assured.

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