

Third Party Verification

www.excel-networking.com/third-party-verification

Section 6



Compliance Statement

No. 2020-587

Screened Channel, Class E_a

Company
Excel
Excel House
Junction Six Industrial Park
Electric Avenue
Birmingham, B6 7JJ
United Kingdom

Channel Identification (4 connector model)

Horizontal cable:
100-196 Excel Category 6A Screened F/FTP "S" Full Cottle LS04 (EC VERIFIED)

RJ45 connector for telecommunications outlet, consolidation point, and patch panel:
100-181 Excel Category 6A Low Profile Screened Keystone Jack - Toolless (EC VERIFIED)

Terminal cord:
100-154 Excel Category 6A Screened F/FTP LS04 Patch Lead, Booted, 5m, Grey (EC VERIFIED)

Patch cord:
100-148 Excel Category 6A Screened F/FTP LS04 Patch Lead, Booted, 1m, Grey (EC VERIFIED)

Consolidation point cord:
100-133 Excel Category 6A Solid Core (F/FTP) screened harness/switch link leads, 5m (Jack added)

Equipment cord:
100-132 Excel Category 6A Solid Core (F/FTP) screened harness/switch link leads, 4m (Jack added)

Generic cabling standards - Class E_a Channel requirements

- ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)
- EN 50173-1:2018 / EN 50173-2:2018
- TIA-568.1-D-2018

Technical report
T927708-01, DANAK-1920156

EC Cabling product ID
5347

CS valid until
1 August 2021

This product has been tested by FORCE Technology Ltd and complies with the electrical requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Channel Cabling", DQP231006. The product takes part in a maintenance or certification schedule, which implies that FORCE Technology performs a sample test of the product once a year.

Hamburg, 18 August 2020

Dennis Andersen
Head of Department

FORCE Technology
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2050 Hamburg
Germany
Tel. +49 43 33 74 80
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CS valid until
1 July 2020

Compliance with the requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Channel Cabling", DQP231006. The product takes part in a maintenance or certification schedule, which implies that FORCE Technology performs a sample test of the product once a year.

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What is 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 20 years, working closely with laboratories such as Force Technology and 3P based in Denmark, and ETL in America.

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, EN & 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.

Excel has decided to go a step further by enrolling in Force Technology's EC VERIFIED program, which includes Factory Inspections and production line sampling.

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 under EC VERIFIED, 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.

Who is Force Technology?



EC VERIFIED from Force Technology is the ultimate independent mark of global approval for cables and connecting hardware. It guarantees that the products approved by Force Technology 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 some of the best equipped modern laboratories, with an annual turnover in excess of €170m. It stands for undisputed world-wide quality assurance.

Who is ETL?



The ETL Verified Mark from Intertek helps manufacturers differentiate their products and brands in competitive markets. Product differentiation is an ongoing issue all manufacturers struggle with. Intertek's ETL Verified Mark is a symbol of performance integrity of the products that bear the mark.

Who is 3P?



3P Third Party Testing is an independent testing laboratory serving the international cabling and electronic industries. Their main product is certification testing of components for communication cabling, i.e. cables, connecting hardware, patch cords, and permanent links and channels. Other core activities are CPR fire and safety testing of cables, and quality evaluation and failure analysis of printed wiring boards and electromechanical components.

Excel Third Party Verification

Standards compliance and system performance are core to the Excel brand values. To support this, Excel works closely with third party test laboratories such as Force Technology, ETL and 3P.

Please note that the majority of certificates are issued annually; our website is continually updated on a regular basis to ensure the most recent certificates are available directly from Excel. The only organisation that is different is ETL, who issue one certificate and continued validity is based upon inclusion in their Cabling Product Directory.

Certificates are currently available for the following categories:

Category 7 _A	Category 6 _A	Category 6	Category 5e	Class E/EA
Cables	Cables	Cables	Cables	Channel
	Patch cords	Patch cords	Patch cords	Permanent link
	Connecting hardware	Connecting hardware	Connecting hardware	
		Channel connectors		

Click on the links above to view the latest certificates. Certificates are also shown against each product on the Excel Online Catalogue - click on the downloads tab to see the **latest certificates**.

[Click here to view our Third Party Certificates](#)

Ask us about our new bespoke laser engraved labels for patch panels and outlets.

Excel helps you add value.





Compliance Statement

No. 2020-298

Data communication cable, Category 6A

Company

Excel
Excel House
Junction Six Industrial Park
Electric Avenue
Birmingham, B6 7JJ
United Kingdom

Check - is the certificate issued in the name of the system you are purchasing?

Product description

Screened cable (F/FTP) characterised up to 500 MHz
Horizontal floor wiring cable, 100 Ω
4 and 2x4 individually foil screen twisted pairs with overall foil screen
Flame retardant, halogen free

Check - is the Part Code showing the product you are purchasing?

Product identification

100-196 Excel Category 6A F/FTP "S" Foil Cable LS0H
100-197 Excel Dual Category 6A F/FTP "S" Foil Cable LS0H

Generic cabling and cabling components standards - Category 6A cable requirements

- ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)
- IEC 61156-5:2012 (Ed. 2.1)
- EN 50173-1:2018 / EN 50173-2:2018
- EN 50288-10-1:2012
- TIA-568.2-D:2018

Check - has the product been tested to the current & relevant standards?

Standards for flammability, halogen acidity, and smoke performance

- IEC 60332-1-1:2015 (Ed. 1.1) / IEC 60332-1-2:2015 (Ed. 1.1)
- IEC 60754-2:2011 (Ed. 2.0)
- IEC 61034-1:2013 (Ed. 3.1) / IEC 61034-2:2013 (Ed. 3.1)

Check - is certificate valid?

Technical report

120-25574-03, DANAK-19/21075

EC Cabling product ID

5509, 5532

CS valid until

1 May 2021

This product has been tested by FORCE Technology and complies with the requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The product takes part in a maintenance schedule, which implies that FORCE Technology performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis.

Check - Regular maintenance schedules ensure ongoing Third Party Check Ups

Hørsholm, 6 April 2020

Lars Lindskov Pedersen
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Test Manager

Dennis Andersen
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certification.madebydelta.com



Compliance Statement

No. 2020-374

Connecting Hardware, Category 6A

Including 4 Pair Power over Ethernet (4PPoE)
(Un-mating connectors under electrical load of up to 2 A per conductor)

Check - does the product
cover 4PPoE?

Company

Excel
Excel House
Junction Six Industrial Park
Electric Avenue
Birmingham B6 7JJ
United Kingdom

Product description

Screened Category 6A RJ45 Jack characterised up to 500 MHz, 100 Ω

Product identification

100-181

Generic cabling and cabling components standards - Category 6A connector requirements

- ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)
- IEC 60603-7-51:2010
- EN 50173-1:2018 / EN 50173-2:2018
- TIA-568.2-D:2018
- IEC 60512-99-002:2019

including all connector alien crosstalk parameters (PS ANEXT and PS AFEXT)

Technical report

12027021-03, DANAK-19/21164

EC Cabling product ID

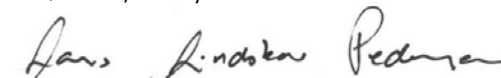
5648

CS valid until

1 June 2021

This product has been tested by FORCE Technology and complies with the electrical requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The testing included measurement of NEXT with a compliant test plug and calculation of all the 14 test cases in both measurement directions. The product takes part in a maintenance of certification schedule, which implies that FORCE Technology performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis once a year.

Hørsholm, 14 May 2020


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Compliance Statement

No. 2020-587

Screened Channel, Class Ea

Company

Excel
Excel House
Junction Six Industrial Park
Electric Avenue
Birmingham, B6 7JJ
United Kingdom

Check - what is it for?

Check - what does the certification include?

Channel Identification (4 connector model)

Horizontal cable:

100-196 Excel Category 6A Screened F/FTP "S" Foil Cable LS0H (EC VERIFIED)

RJ45 connector for telecommunications outlet, consolidation point, and patch panel:

100-181 Excel Category 6A Low Profile Screened Keystone Jack - Toolless (EC VERIFIED)

Terminal cord:

100-154 Excel Category 6A Screened F/FTP LS0H Patch Lead, Booted, 5m, Grey (EC VERIFIED)

Patch cord:

100-148 Excel Category 6A Screened F/FTP LS0H Patch Lead, Booted, 1m, Grey (EC VERIFIED)

Consolidation point cord:

100-133 Excel Category 6A Solid Core (F/FTP) screened harness/switch link leads, 5m (jack added)

Equipment cord:

100-133 Excel Category 6A Solid Core (F/FTP) screened harness/switch link leads, 4 m (jack added)

Generic cabling standards - Class Ea Channel requirements

- ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)
- EN 50173-1:2018 / EN 50173-2:2018
- TIA-568.2-D:2018

Technical report

T927708-01, DANAK-19/20356

EC Cabling product ID

5347

CS valid until

1 August 2021

This product has been tested by FORCE Technology up and complies with the electrical requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The product takes part in a maintenance of certification schedule, which implies that FORCE Technology performs a sample test of the product once a year.

Hørsholm, 18 August 2020

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