

3P Product Approvals

Independent Testing -
for End User Confidence



EXTENDED
WORLDWIDE
SUPPORTING GLOBAL UTILITIES IN THE DEVELOPMENT
PLATFORM TO ENHANCE
PRODUCT OFFERING
ENERGY



AGENDA

- Draka UC-Connect Third Party Approvals
- 3P Certification Programmes for Copper Cabling Components
 - Types/Levels of Certification
 - Cables
 - Connectors
 - Patch cords
 - Permanent links and channels
- Certificate Explanation

UC Connect Third Party Approvals

- **Draka's UC CONNECT – 3P VERIFIED**

One of the broadest portfolios in Datacom industry with 3rd party approval

- **3P Verification Program including full factory surveillance in place**

An industry leader's capabilities – trust and more

- **Approval in accordance up to ISO/IEC 11801 Class EA**

State of the art 10G performance future-proofing your network

Types of 3P Certification Programmes

Full production qualifications

Continued survey of production quality

ALL **UC-CONNECT PRODUCTS HAVE FULL PRODUCTION LINE QUALIFICATIONS & GO THROUGH A MAINTENANCE TESTING AT REGULAR INTERVALS*

Capability approvals

One time testing of samples delivered to 3P

Two 3P Certification Programmes

Full Production Qualification vs. Capability Approvals

FULL PRODUCTION QUALIFICATIONS	CAPABILITY APPROVALS
Full Functional testing	Full functional testing
Factory inspection	No factory inspection
Follow-up inspection visits with sampling for 3P re-testing	No follow-up activities
Certificate: Compliance Statement	Certificate: Attestation of Conformity
Permanent End User Support	End user support for one year

Full production qualifications ensure that the complete production is continuously 3P verified. Capability approvals only offer a one time view of performance of possibly "golden" samples

Covered Standards

All international standards are covered by 3P certification testing.

3P verifies according to worst-case requirements of

- ISO/IEC
- TIA
- IEC
- CENELEC

All specified parameters are verified

Factory Inspections

- Always carried out by leading 3P engineers
- Every 6 or 12 months depending on component type
- Programme includes inspection of:
 - Production / assembly line
 - Quality assurance
 - Internal testing
 - Verification of results from previous period

Cable Certification Programme

- Only Full Production Qualifications
- New maintenance activity every 6 months
- Sampling from each individual cable family at the 6 months follow-up inspection visits
- Update of certificates after successful conclusion of testing **and** inspection visit

Connector Certification Programme

3P has both Full Production Qualifications and Capability approvals

For Full Production qualifications:

- New maintenance activity every 12 months
- Sampling from each connector design
- Update of certificates after successful conclusion of testing **and** inspection visit

Patch Cord Certification Programme

Only Full Production Qualifications:

- New maintenance activity every 6 months
- Sampling of shortest and longest cords from each individual type at the follow-up inspection visits
- Update of certificates after successful conclusion of testing **and** inspection visit

Patch Cord Certification Programme

Patch cord performance may vary a lot depending on assembly staff training and quality assurance.

3P experience:

A patch cord qualification may only be trusted if a detailed assembly line inspection including statistical analysis is carried out

Permanent Link and Channel Certification Programme

3P has both Continued Qualifications and Capability Approvals

For Continued qualifications:

- Re-testing every year
- Samples sent to 3P
- No inspection visit
- Update of certificates after successful conclusion of testing

3P's End User Service

- 3P's main target is to ensure that end users can safely install 3P qualified components
- End users are always invited to inform 3P about suspected performance problems for 3P qualified components. 3P will evaluate the problem and offer a solution

Certificate Explanation

3P
THIRD PARTY TESTING

Compliance Statement

**ISO/IEC, EN & TIA Screened
Class E_A / Category 6A**

UC^{CONNECT} Four Connector Channel

**Draka - a brand of the Prysmian Group
Draka Comteq UK, Ltd.
Crowther Rd., Washington, Tyne and Wear, NE8 0AQ, England**

Compliance Statement No. 112689A

This type of Class E_A / Category 6A screened four connector channel has been tested by 3P Third Party Testing and complies with the 10 Gigabit Ethernet requirements of IEEE P802.3an, Class E, requirements of Edition 2.2 of ISO/IEC 11801 and CENELEC EN 50173-1:2011, and Category 6A requirements of ANSI/TIA-568-C.2. Covered connector PCB design may be confirmed by 3P from verification of received connector sample. The Compliance Statement is valid for the channel type in TS68B designation and may be suspended or withdrawn if it fails to pass a Maintenance Testing performed at 12 month intervals. The channel consists of the following UC^{CONNECT} components:

<p>Cables: Horizontal Cable, Flexible Cables.</p> <p>Qualification Status:</p> <p>Conn. Hardware: Modular Jack.</p> <p>Qualification Status:</p> <p>Cords: CP Cord with Flexible Cable, Patch Cords.</p> <p>Qualification Status:</p>	<p>UC500 S23 Cat6A U/FTP 4P LSHF, P/N 1003514 UC FUTURE COMPACT ZD 26 Cat 7 S/FTP 4P, P/N 1016781 and UC900 SS27 Cat 7 S/FTP 4P LSHF, P/N 10011xx 3P Verified Horizontal Cable and Manufacturer Verified Flexible Cables UC C500 MJ TF S, P/N 1021271 3P Verified UC FUTURE COMPACT ZD 26 Cat 7 S/FTP 4P, P/N 1016781 UC C500 PC SF xx L xxxxx 3P Verified patch cords and Manufacturer Verified CP cord</p>
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Hoersholm, 17th February 2012

Ole Lambertsen
Ole Lambertsen
Test Responsible

Hoersholm, 17th February 2012

Poul Villien
Poul Villien
Coordinating Manager

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Relevant Standards, the Class and Category of the system certified

Number of Connectors that are tested as part of the Link/Channel

Details on the Standards and the exact version the test was done to

Assures the end-user that it is a continuously maintained certification with testing at regular intervals

Full list of products that are tested as part of the Link/Channel

Approval Start date. Certification expiry date is a year later, unless renewed

Thank you.

Contact id for any further information: t.krishna@prysmiangroup.com

Prysmian
Group

