



Soubor certifikátů

z nezávislých zkušebních laboratoří pro strukturované kabeláže KELine®



KELine® komponenty Cat.6A

Zásuvkový modul a patch panel, Category 6_A

Instalační kabel, Category 6_A

Patch kabely, Category 6_A

Delta laboratoř

No. 2010-111

Delta laboratoř

No. 2010-073

Delta laboratoř

No. 2010-112

KELine® systém Cat.6A

4 - konektorový kanál s 500MHz kabelem, Cat.6A a Class E_A

GHMT laboratoř


No. P1965b-08-E


4 - konektorový kanál s 900MHz kabelem, Cat.6A a Class E_A

GHMT laboratoř

No. P1966b-08-E

Postup při vyhodnocování certifikátů





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Compliance Statement

No. 2010-111

Screened Connecting Hardware, Category 6A

Company
KRUGEL EXIM spol. s r.o.
Rybnična 38/H
831 06 Bratislava
Slovak Republic

Zkontrolujte, zda nakupovaná kabeláž pochází od zdroje, pro který byl vydán certifikát a kde je k nahlédnutí kompletní "Test Report"

Product description
Screened Category 6A RJ45 jack and patch panel characterised up to 500 MHz, 100 Ω

Product identification

- KELine RJ45 Jack. Part number: KEJ-C6A-S-10G
- KELine Patch Panel. Part number: KEP-C6A-S-10G

Zkontrolujte, zda se shoduje P/N zakoupeného produktu s P/N uvedeným na certifikátu.

Generic cabling standards, cabling components standard

- ISO/IEC 11801 2nd edition:2002
- ISO/IEC 11801 amendment 2:2010, Category 6A
- EN 50173:2007
- ANSI/TIA-568-C.2, Category 6A
- IEC 60603-7-51

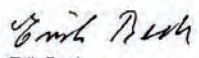
(including all connecting hardware alien crosstalk (PS ANEXT and PS AFEXT) parameters)

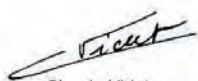
Zkontrolujte, zda byl produkt testován dle platných a odpovídajících norem.

Technical report DELTA-N312549-01, rev.1, DANAK-19J2034	Manufacturer code 2034D	Certificate valid until 21 May 2011
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This product has been tested by EC Cabling Group of DELTA and complies with the electrical requirements of the above specified standards and "Terms and conditions for use of the EC VERIFIED marking on generic cabling products", 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 DELTA EC Cabling 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, 21 May 2010


Erik Bech
Test Manager


Claude Videt
Project Manager

Zkontrolujte, zda je certifikát platný

Zkontrolujte, zda je kvalita produktu pravidelně ověřována nezávislou zkušebnou.

DELTA Venlighedsvej 4 2970 Hørsholm Denmark	Tel. +45 72 19 40 00 Fax +45 72 19 40 01 www.delta.dk/cable	  TEST Reg. no. 19
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Normy důležité pro výkonnostní kategorii Cat.6A:

ISO/IEC 11801 2nd edition:2002 - mezinárodní norma definující základní požadavky na strukturovanou kabeláž

ISO/IEC 11801 amendment 1 (2008-04) - 1. dodatek k mezinárodní normě definující požadavky na systémy Cat.6A, (kanál CLASS E_A)

ISO/IEC 11801 amendment 2: 2010 - 2. dodatek k mezinárodní normě definující požadavky na komponenty Cat.6A

ANSI/TIA-568-C.2, Category 6A a ANSI/TIA-568-B.2-10(2008-03) - americké normy definující požadavky na kabeláž Cat.6A

IEEE 802.3an TM-2006 - mezinárodní norma definující 10 Gigabit Ethernet protokol včetně požadavků na kabeláže



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Compliance Statement

No. 2010-111

Screened Connecting Hardware, Category 6A

Company

KRUGEL EXIM spol. s r.o.
Rybnicna 38/H
831 06 Bratislava
Slovak Republic

Product description

Screened Category 6A RJ45 jack and patch panel characterised up to 500 MHz, 100 Ω

Product identification

- KELine RJ45 Jack. Part number: KEJ-C6A-S-10G
- KELine Patch Panel. Part number: KEP-C6A-S-10G

Generic cabling standards, cabling components standard

- ISO/IEC 11801 2nd edition:2002
- ISO/IEC 11801 amendment 2:2010, Category 6A
- EN 50173:2007
- ANSI/TIA-568-C.2, Category 6A
- IEC 60603-7-51
(including all connecting hardware alien crosstalk (PS ANEXT and PS AFEXT) parameters)

Technical report

DELTA-N312549-01,rev.1, DANAK-19J2034

Manufacturer code

2034D

Certificate valid until

21 May 2011

This product has been tested by EC Cabling Group of DELTA and complies with the electrical requirements of the above specified standards and "Terms and conditions for use of the EC VERIFIED marking on generic cabling products", 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 DELTA EC Cabling 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, 21 May 2010

Erik Bech
Test Manager

Claude Videt
Project Manager

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TEST Reg. no. 19



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Compliance Statement

No. 2010-073

Data communication cable, Category 6A

Company

Krugel Exim spol. s r.o.
Rybnicna 38/H
831 06 Bratislava
Slovak Republic

Product description

Shielded cable (U/FTP) characterised up to 500 MHz
Horizontal floor wiring cable, 100 Ω
4 twisted pairs with individually foil shield pairs
Flame retardant, halogen free

Product identification

KELine 10Giga STP Cat.6A LS0H cable
Part number: KE500S23/1E

Generic cabling standards, cabling components standard

- ISO/IEC 11801 2nd edition:2002 and IEC 61156-5: Edition 2.0 2009-02
- ISO/IEC 11801 amendment 2:2010, Category 6A
- EN 50173:2007
- ANSI/TIA-568-C.2, Category 6A

Standard for flame retardancy

- IEC 60332-1-[1,2] (2004-07)

Technical report

DELTA-N312629-03, DANAK-19J2142

Manufacturer code

1744B

Certificate valid until

21 May 2011

This product has been tested by EC Cabling Group of DELTA and complies with the requirements of the above specified standards and "Terms and conditions for use of the EC VERIFIED marking on generic cabling products", DQP231006. The product takes part in a maintenance of certification schedule, which implies that EC Cabling performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis.

Hørsholm, 21 May 2010

Erik Bech
Test Manager

Claude Videt
Project Manager

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DANAK
TEST Reg. no. 19



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Compliance Statement

No. 2010-112

Data communication cords, Category 6A

Company

KRUGEL EXIM spol. s r.o.
Rybnicna 38/H
831 07 Bratislava
Slovak Republic

Product description

Screened Category 6A RJ45 cords (equipment, patch, and work area) characterised up to 500 MHz

Product identification

KELine 10Giga patch cables STP Cat.6A, LS0H
Part number: KEL-C6A-P-xxx (xxx: denotes length in cm)

Generic cabling standards, cabling components standard

- ISO/IEC 11801 2nd edition:2002
- ISO/IEC 11801 amendment 2:2010, Category 6A
- EN 50173:2007
- ANSI/TIA-568-C.2, Category 6A
- IEC 61935-2 (transmission requirements)

Technical report

DELTA-N312700, DANAK-19J2192

Manufacturer code

2192A

Certificate valid until

25 April 2011

This product has been tested by EC Cabling Group of DELTA and complies with the requirements of the above specified standards and "Terms and conditions for use of the EC VERIFIED marking on generic cabling products", DQP231006. The product takes part in a maintenance of certification schedule, which implies that EC Cabling performs a sample test of the product once a year. This certificate has been revised

Hørsholm, 20 May 2010

Erik Bech
Test Manager

Claude Videt
Project Manager

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TEST Reg. no. 19



Certificate

Customer: Krugel Exim spol. s.r.o.
Rybnicna 38/H
SK-831 06 Bratislava

Description:

PatchPanel:	KELine 10Giga KOMPAKT 24xRJ45/s, Cat.6 Part-No.: 50 60 58
Outlet:	KELine 10Giga KOMPAKT 2xRJ45/s, Cat.6 Part-No.: 50 12 07
Data Cable 90m	KELine 10Giga STP 4x2xAWG23 Cat.6 (500MHz) LSOH Part-No.: KE500S23/1
Patchcord: 2m + 3m	KELine 10Giga Patchcord FTP LSOH Part-No.: KEL-C6-P-xxx
CP-Cord: 2m + 3m	KELine 10Giga Patchcord FTP LSOH Side A: RJ45-Plug; Side B: 10Giga Keystone Jack

Applied standards: ISO/IEC 11801 Amendment 1 (2008-04)
Information technology – Generic cabling for customer premises

ISO/IEC TR-24750 Assessment and mitigation of installed balanced cabling channels in order to support 10GBASE-T

ANSI/TIA-568-B.2-10 (2008-03)
Transmission performance specifications for 4-pair 100 Ω Augmented category 6 cabling

ANSI/TIA-TSB-155 (2007-03)
Additional guidelines for 4-pair 100 Ω category 6 cabling for 10GBase-T

IEEE 802.3an TM-2006
Local and Metropolitan Area Networks (10 GBASE-T)

Results: Up to a bandwidth of **500MHz** the sample, a **4-Connector-Channel**, meet the **Class Ea (incl. PS ANEXT and PS AACR-F)** limits of the specified standards and regulations.

The test results which were determined in the course of the measurement refer to the submitted specimen. Any future technical modifications of the data cables or connectors are subject to the responsibility of the manufacturer.

This Certificate refers to the comprehensive test report, **no. P1965b-08-E, from October 24th 2008** and shall only be applicable in conjunction with the test report.

Bexbach, October 24th 2008

Dirk Wilhelm, engineer
(Chairman of the Managing Board)



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E-Mail: info@ghmt.de
<http://www.ghmt.de>



Certificate

Customer: **Krugel Exim spol. s.r.o.**
Rybnicna 38/H
SK-831 06 Bratislava

Description:

PatchPanel:	KELine 10Giga KOMPAKT 24xRJ45/s, Cat.6 Part-No.: 50 60 58
Outlet:	KELine 10Giga KOMPAKT 2xRJ45/s, Cat.6 Part-No.: 50 12 07
Data Cable 90m	KELine 10Giga S-STP 4x2xAWG23 Cat.7 (900MHz) LSOH Part-No.: KE900HS 23
Patchcord: 2m + 3m	KELine 10Giga Patchcord S-STP LSOH Part-No.: KEL-C6-S-xxx
CP-Cord: 2m + 3m	KELine 10Giga Patchcord S-STP LSOH Side A: RJ45-Plug; Side B: 10 Giga Keystone Jack

Applied standards: ISO/IEC 11801 Amendment 1 (2008-04)
Information technology – Generic cabling for customer premises

ISO/IEC TR-24750 Assessment and mitigation of installed balanced cabling channels in order to support 10GBASE-T

ANSI/TIA-568-B.2-10 (2008-03)
Transmission performance specifications for 4-pair 100 Ω Augmented category 6 cabling

ANSI/TIA-TSB-155 (2007-03)
Additional guidelines for 4-pair 100 Ω category 6 cabling for 10GBase-T

IEEE 802.3an TM-2006
Local and Metropolitan Area Networks (10 GBASE-T)

Results: Up to a bandwidth of **500MHz** the sample, a **4-Connector-Channel**, meet the **Class Ea** limits of the specified standards and regulations.

PS ANEXT and PS AACR-F met by design for Class EA, because the result of the Coupling Attenuation is better than 50 dB at 30 MHz < f < 100 MHz and 90 -20*log(f) dB at 100 MHz < f < 1.000 MHz. The test results which were determined in the course of the measurement refer to the submitted specimen. Any future technical modifications of the data cables or connectors are subject to the responsibility of the manufacturer.

This Certificate refers to the comprehensive test report, **no. P1966b-08-E, from October 24th 2008** and shall only be applicable in conjunction with the test report.

Bexbach, October 24th 2008

Dirk Wilhelm, engineer
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