



KELine®

Certificate bundle

from independent testing laboratories
for KELine® Structured Cabling



KELine® components Cat.6_A, Cat.7

- Installation cable, Category 6_A, 550 MHz, (B2_{ca}, D_{ca}, E_{ca}, Outdoor)
- Installation cable, Category 7, 1000 MHz, (B2_{ca}, D_{ca})
- Keystone jack, patch panels, Category 6_A
- Keystone jack, HD, Category 6_A
- Patch cable, Category 6_A


FORCE Technology
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GHMT
FORCE Technology

Certificate verification step by step

On the website of the testing laboratories*

check if the certificate is not fake, created or edited in software

Check certificate:



Compliance Statement

No. 2020-222

Data communication cable, Category 6A

Company
KRUGEL EXIM spol s r.o.
Rybničná 38/H
831 06 Bratislava
Slovakia

Product description
Screened cable (U/FTP) characterised up to 500 MHz
Horizontal floor wiring cable, 100 Ω
4 individually screened twisted pairs
Flame retardant, halogen free

Product identification
KELine 10Giga 550MHz, STP 4x2xAWG23 Cat.6A, LSOH
Part number: KE550HS23/1E

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

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)

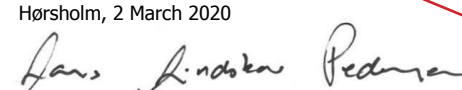
Technical report
12024007-01, DANAK-19/20996


EC Cabling product ID
6217


CS valid until
1 March 2021

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

Hørsholm, 2 March 2020


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



FORCE Technology
Verlighedsvej 4
2970 Hørsholm
Denmark
Tel. +45 43 25 14 00
certification.madebydelta.com

check if your supplier is the official distributor and is able to provide support and warranties ensured by the manufacturer

check if the purchased product is compliant with the product listed in the certificate (label on the product packaging and P/N on the certificate)

check if the product has been tested according to the current and relevant standards **

check if the certificate is valid

check if the quality of the mass production is under constant supervision of testing laboratories

* http://www.madebydelta.com/delta/Business_units/LAN/EC_VERIFIED-components.page?

** ISO/IEC 11801:2017 (ed.1.0)- International standard defining the requirements for structured cabling.
TIA-568.2-D:2018 - American national standard defining the requirements for structured cabling.

Compliance Statement

No. 2020-222

Data communication cable, Category 6A

Company

KRUGEL EXIM spol s r.o.
Rybničná 38/H
831 06 Bratislava
Slovakia

Product description

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

Product identification

KELine 10Giga 550MHz, STP 4x2xAWG23 Cat.6A, LSOH
Part number: KE550HS23/1E

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

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)

Technical report

12024007-01, DANAK-19/20996

EC Cabling product ID


6217

CS valid until

1 March 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.

Hørsholm, 2 March 2020


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department

Compliance Statement

No. 2020-223

Data communication cable, Category 7

Company

KRUGEL EXIM spol s r.o.
Rybničná 38/H
831 06 Bratislava
Slovakia

Product description

Screened cable (S/FTP) characterised up to 1000 MHz*
Horizontal floor wiring cable, 100 Ω
4 individually foil screened twisted pairs with overall braid screen
Flame retardant, halogen free

Product identification

KELine 10Giga 1000MHz, S/FTP 4x2xAWG23 Cat.7, LSOH
Part number: KE1000HS23

Generic cabling and cabling components standards - Category 7 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 50288-4-1:2013

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)

Technical report

12024007-02, DANAK-19/20997

EC Cabling product ID

6218


CS valid until

1 March 2021

*Transmission parameters comply with IEC 61156-7 and with extended Cat. 7 limits up to 1000 MHz.

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.

Hørsholm, 2 March 2020


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department

Compliance Statement

No. 2020-308

Connecting Hardware, Category 6A

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

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
KELine Patch Panel. Part number: KEP-C6A-S-10G-NP

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

12025813, DANAK-19/21090

EC Cabling product ID

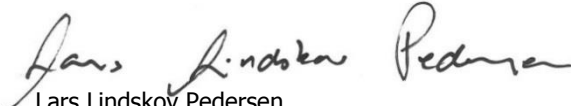
5113

CS valid until

10 May 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, 16 April 2020


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



Certificate

No. z5319b-18-E

Customer:

Krugel Exim spol. s.r.o.
Rybnicna 38/H
831 06 Bratislava 35, Slovakia

Category 6A

Test sample(s):

Connector:
KELine® RJ-45 Keystone Cat.6A
Part no.: KEJ-C6A-S-HD

Applied standard(s):

ISO/IEC 11801-1 Ed.1.0 (2017-11)
IEC 60603-7-51 Ed. 1.0 (2010-03)

Result(s):

The sample meets the limits of the specified standards and regulations with respect to the parameters indicated above.


Connector, Copper, Category 6A

GHMT Type Approval

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

This Certificate refers to the comprehensive test report no. P5319b-18-E and shall only be applicable in conjunction with the test report. This certificate is valid 24 months after date of issue.

Bexbach, 10. January 2019



Dirk Wilhelm, engineer
(Chairman of the Managing Board)



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Compliance Statement

No. 2020-037

Data communication cords, Category 6A

Company

KRUGEL EXIM spol. s r.o.
Rybnicna 38/H
831 06 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 dm)

Generic cabling and cabling components standard - Category 6A balanced cord 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
- IEC 61935-2:2010 (Ed. 3.0) (transmission requirements)

Technical report

T936646-01, DANAK-19/20829

EC Cabling product ID

5008

CS valid until

1 March 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 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, 14 January 2020



Lars Lindskov Pedersen
Test Manager



Dennis Andersen
Head of Department

