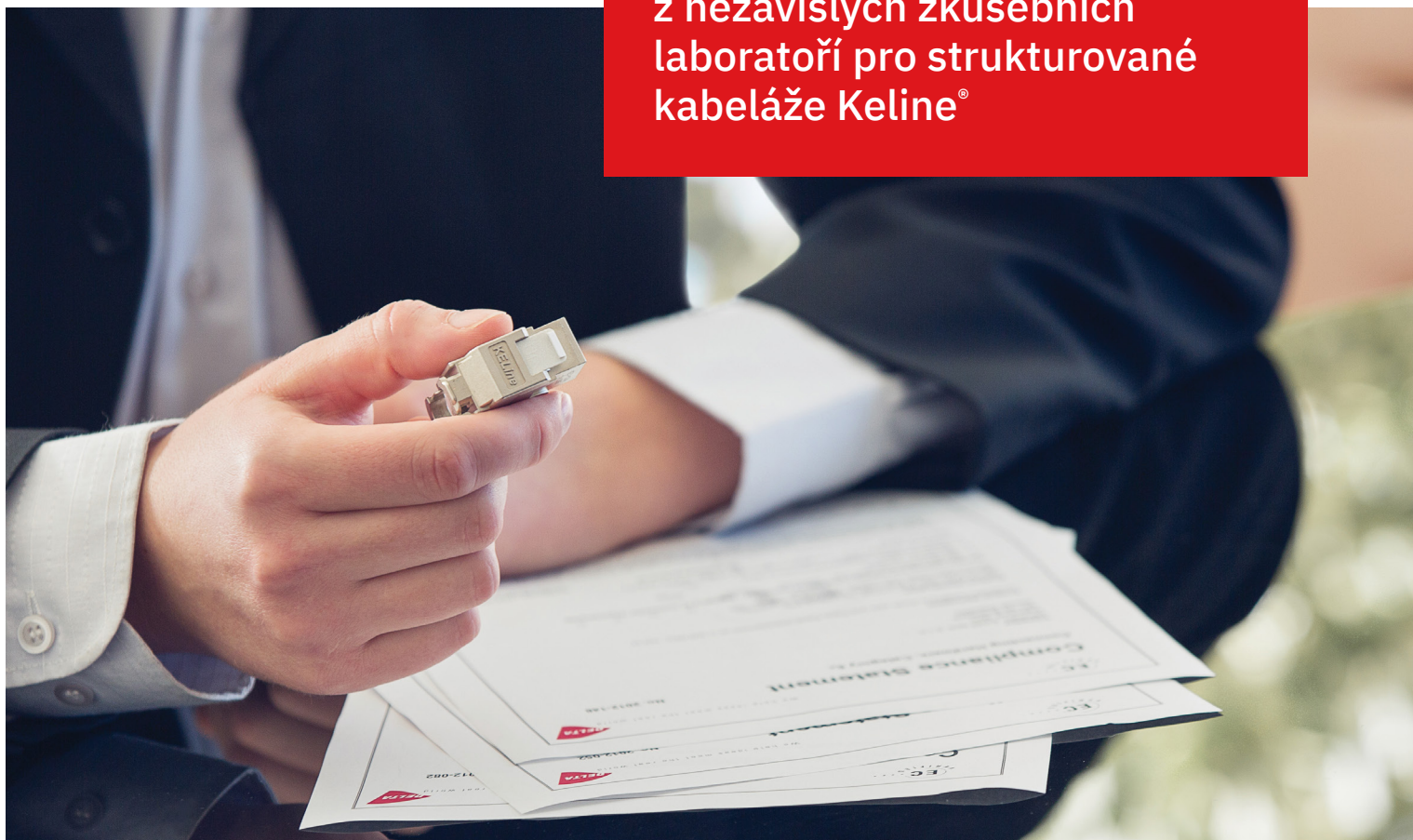


KELINE

Soubor certifikátů

z nezávislých zkušebních
laboratoří pro strukturované
kabeláže Keline®



Keline® komponenty Cat. 6_A, Cat. 7

- Instalační kabel, Category 6_A, 550 MHz, (B2_{ca}, D_{ca}, Outdoor)
- Instalační kabel, Category 7, 1000 MHz, (B2_{ca}, D_{ca})
- Keystone modul, patch panely, Category 6_A
- Keystone modul, HD, Category 6_A
- Patch kabel, Category 6_A

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Postup při vyhodnocování certifikátů

Zkontrolujte na webových stránkách zkušebny*, která certifikát vystavila **jestli nejde o certifikát vytvořený nebo upravený například ve photoshopu.**

Na certifikátu zkontrolujte:



Compliance Statement

No. 2022-124A

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 61156-5:2020 (Ed. 3.0)
- EN 50173-1:2018 / EN 50173-2:2018
- EN 50288-11-1:2012
- 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 60754-2:2019 (Ed. 2.1)
- IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2)

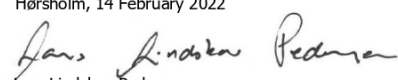
Technical report
12223093-01, DANAK-19/22523

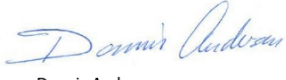
EC Cabling product ID
6217

CS valid until
1 March 2023

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. This compliance statement has been revised, original issue date 14 February 2022.

Hørsholm, 14 February 2022


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



FORCE Technology
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2970 Hørsholm
Denmark
Tel. +45 43 25 14 00
lan.forcetechnology.com

jestli je Váš dodavatel oficiálním distribučním kanálem, který zabezpečí podporu a záruky poskytované výrobcem

jestli se zakoupený produkt shoduje s produktem uvedeným v certifikátu (výrobní značení na produktu nebo jeho obalu a výrobní kód v certifikátu)

jestli byl produkt testovaný dle současných platných norem **

jestli je certifikát stále platný

jestli je kvalita sériově vyráběných produktů pod stálým dohledem zkušebny nebo jde o jednorázový test dodaného vzorku

* <https://lan.forcetechnology.com/en/customers/krugel-exim-spol-s-r-o/>
<https://typeapproval.ghmt.de/index.php/ta-pub>

** **ISO/IEC 11801:2017 (Ed.1.0)** - Mezinárodní norma definující základní požadavky na strukturovanou kabeláž
TIA-568.2-D:2018 - Americká národní norma definující požadavky na strukturovanou kabeláž

Compliance Statement

No. 2025-047

Data communication cable, Category 6A

Company

KRUGEL EXIM spol. s r.o.
Pri majeri 13
831 06 Bratislava
Slovak Republic

Product description

Screened cable (U/FTP) characterised up to 650 MHz*
Horizontal floor wiring cable, 100 Ω
4 individually foil screened twisted pairs
Flame retardant, halogen free

Product identification

Keline 10Giga 550MHz, STP 4x2xAWG23 Cat.6A, LSOH
Part no. KE550HS23

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 61156-5:2020 (Ed. 3.0)
- 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 60754-2:2019 (Ed. 2.1)
- IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2)

Technical report

12521741, DANAK-19/24764

EC Cabling product ID

7307

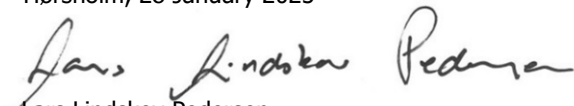
CS valid until

1 February 2026

* Transmission parameters comply with extended Cat. 6A limits up to 650 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, 28 January 2025


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



Compliance Statement

No. 2025-119

Data communication cable, Category 7

Company

KRUGEL EXIM spol. s r.o.
Pri majeri 13
831 06 Bratislava
Slovak Republic

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 61156-5:2020 (Ed. 3.0)
- 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 60754-2:2019 (Ed. 2.1)
- IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2)

Technical report

12522918, DANAK-19/24845

EC Cabling product ID

7463

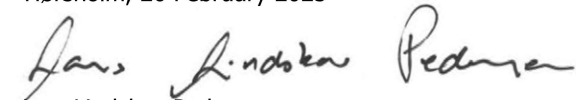
CS valid until

1 March 2026

*Transmission parameters comply 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, 26 February 2025


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



Compliance Statement

No. 2025-226A

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.

Pri majeri 13

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 (Ed.1.0)
- EN 50173-1:2018 / EN 50173-2:2018
- TIA-568.2-E:2024
- IEC 60512-99-002:2022

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

Technical report

12524107, DANAK-19/24935

EC Cabling product ID

5113

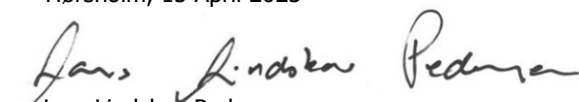
CS valid until

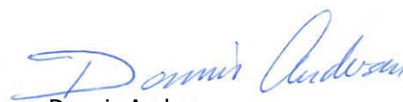
1 June 2026

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.

This compliance statement has been revised, original issue date 14 April 2025.

Hørsholm, 15 April 2025


Lars Lindskov Pedersen
Test Manager


Dennis Andersen
Head of Department



Certificate

No. c9252a-25

Customer:

Krugel Exim spol. s r.o.
Pri majeri 13
831 06 Bratislava 35, Slovakia

Category 6A

Test sample(s):

Connecting hardware:
Keline® RJ-45 Keystone Cat.6A
Part no.: KEJ-C6A-S-HD

Applied standard(s):

ISO/IEC 11801-1 Ed.1.0 (2017-11)
DIN EN 50173-1 (2018-10)
ANSI/TIA-568.2-D (2018-09)
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.

Connecting hardware, 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. R9252a-25** and shall only be applicable in conjunction with the test report. This certificate is valid 24 months after date of testing.

Bexbach, 19. February 2025



Dirk Wilhelm, engineer
(Chairman of the Managing Board)



Test laboratory accredited by DAkkS in accordance with DIN EN ISO/IEC 17025:2018.
The accreditation is valid for the test methods listed in certificate **D-PL-17559-01-00**.

GHMT AG

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66442 Bexbach / Germany

T: +49 6826 92 28-0
F: +49 6826 92 28-290

info@ghmt.de
www.ghmt.de

**RELIABILITY IN TOTAL
REQUIRES ACCURACY IN DETAIL.**

Compliance Statement

No. 2025-008

Data communication cords, Category 6A

Company

KRUGEL EXIM spol. s r.o.
Pri majeri 13
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 61935-2:2022 (Ed. 4.0) (transmission requirements)

Technical report

12433234-01, DANAK-19/24729

EC Cabling product ID

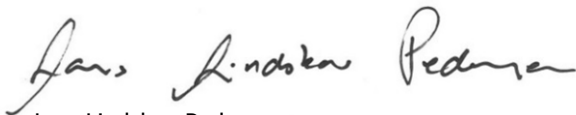
5008

CS valid until

1 March 2026

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 2025



Lars Lindskov Pedersen
Test Manager



Dennis Andersen
Head of Department

