### KELINE

# Certificate bundle

from independent testing laboratories for Keline<sup>®</sup> structured cabling









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# **Certificate verification step by step**

### On the website of the testing laboratories\*

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

	FORCE
<b>Compliance Statement</b>	No. 2021-135
Data communication cable, Category 6 <sub>A</sub> Company KRUGEL EXIM spol s r.o. Rybničná 38/H 831 06 Bratislava Slovakia Product description	check if your supplier is the official distributor and is able to provide support and warranties ensured by the manufacturer.
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 6 <sub>A</sub> cable r         • ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)         • IEC 61156-5:2020 (Ed. 3.0)         • EN 50288-10-1:2018 / EN 50173-2:2018	
<ul> <li>EN 30288-10-1.2012</li> <li>TIA-568.2-D:2018</li> <li>Standards for flammability, halogen acidity, and smoke performance</li> <li>IEC 60332-1-1:2015 (Ed. 1.1) / IEC 60332-1-2:2015 (Ed. 1.1)</li> <li>IEC 60754-2:2019 (Ed. 2.1)</li> <li>IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2)</li> <li>Technical report</li> <li>EC Cabling product ID</li> </ul>	CS valid until CS valid until
12122841-01, DANAK-19/21722 6217 This product has been tested by FORCE Technology and complies with the requirements of 1 "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabing", DC in a maintenance schedule, which implies that FORCE Technology performs a quality audit o and QA sites. The maintenance testing of the product is performed on a sample basis. Hørsholm, 8 February 2021	is valid he above specified standards and p231006. The product takes part the manufacturer's production Check if the quality of the mass
Lars Lindskov Pedersen Dennis	Andersen Department
	FORCE Technology Venlighedavej 4 2970 Hørsholm Denmark Tel. +45 43 25 14 00 certification-madebydela.com

https://typeapproval.ghmt.de/index.php/ta-pub

\*\* 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



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  $\Omega$ 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 $6_A$ 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

 $\ast$  Transmission parameters comply with extended Cat.  $6_{A}$  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

Lindska Pedana

Lars Lindskov Pedersen Test Manager

Somin ludeau

Dennis Andersen Head of Department



FORCE Technology Venlighedsvej 4 2970 Hørsholm Denmark Tel. +45 43 25 14 00 an.forcetechnology.com



IEC 61034-1:2019 (Ed. 3.2) / IEC 61034-2:2019 (Ed. 3.2)

12522918, DANAK-19/24845

\*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

Donnis llerdom

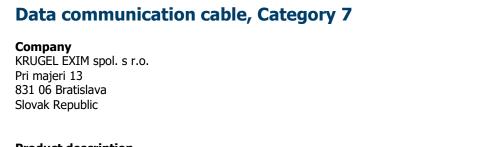
Dennis Andersen Head of Department



FORCE Technology Venlighedsvej 4 2970 Hørsholm Denmark Tel. +45 43 25 14 00 an.forcetechnology



No. 2025-119



#### **Product description**

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

**Compliance Statement** 

#### 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)

**Technical report** 

EC Cabling product ID 7463

CS valid until 1 March 2026

Lindska Pedana



Data communication cable, Category 7<sub>A</sub>

#### Company

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

#### **Product description**

Screened cable (S/FTP) characterised up to 1200 MHz\* Horizontal floor wiring cable, 100  $\Omega$ 4 pairs individually foil screened twisted pairs with overall braid screen Flame retardant, halogen free

#### Product identification

KELine 10Giga 1200MHz, S/FTP 4 Pairs Cat.7<sub>A</sub>, LSOH P/N: KE1200HS23

#### Generic cabling and cabling components standards - Category 7<sub>A</sub> 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 50288-9-1:2012

#### 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** 12130455, DANAK-19/22129 **EC Cabling product ID** 7145 CS valid until 1 September 2022

> FORCE Technology Venlighedsvej 4 2970 Hørsholm Denmark Tel. +45 43 25 14 00

\*Transmission parameters comply with IEC 61156-7 and with extended Cat. 7<sub>A</sub> limits up to 1200 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, 13 August 2021

Lindoka Pedena

Lars Lindskov Pedersen Test Manager

Domin ludvan

Dennis Andersen Head of Department



No. 2021-563





No. 2024-371

#### 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  $\Omega$ 

#### **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-D:2018
- IEC 60512-99-002:2022

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

#### Technical report

12427062, DANAK-19/24245

EC Cabling product ID 5113

**CS valid until** 1 June 2025

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, 8 May 2024

Lars Lindskov Pedersen Test Manager

Lindoka Pedma

Sommin anderen

Dennis Andersen Head of Department



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# Certificate

No. c9252a-25

#### **Customer:**

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

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**.

Keystone jack, HD, Category 6,



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RELIABILITY IN TOTAL REOUIRES ACCURACY IN DETAIL.



No. 2025-008

Data communication cords, Category 6<sub>A</sub>

#### Company

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

**Product description** Screened Category 6<sub>A</sub> 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

Andoren Pedman

Lars Lindskov Pedersen Test Manager

Somis anderen

Dennis Andersen Head of Department



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# **Attestation of Conformity**

### Unscreened Class E / Category 6 ISO/IEC, EN & ANSI/TIA Two Connector Permanent Link

### Krugel Exim spol. s.r.o. Pri majeri 13, 831 06 Bratislava, Slovak Republic

Attestation of Conformity No. 0473-3P-1231074

This type of Class E / Category 6 Unscreened Two Connector Permanent Link has been tested by 3P Third Party Testing. The testing has shown compliance with the Class E electrical performance requirements of edition 1.0 of ISO/IEC 11801-1:2017, edition 1.0 of ISO/IEC 11801-2:2017, CENELEC EN 50173-1:2018 and the Category 6 electrical performance requirements of ANSI/TIA-568.2-D:2018. The Attestation of Conformity is valid for the actually tested permanent link sample at the time of testing. The positive observations and test results that are the basis for this Attestation of Conformity, are relevant only to the tested sample and do not imply that the product is, or has ever been, under a 3P maintenance programme.

Cables:

Horizontal Cable (30 - 90 m), P/N KE400U23LSOH-XXX Qualification Status: Manufacturer verified

Conn. Hardware:

#### Modular Jack,

Qualification Status:

P/N KEJ-C6-U-TL PCB marking: 1021C6 119 2248 Manufacturer verified

Hoersholm, 26 September 2023

Peter Freiberg Kaas Test Responsible 3P Third Party Testing ApS Agern Alle 3 2970 Hørsholm Denmark Hoersholm, 26 September 2023

Jens Rytter Petersen General Manager Page 1 of 1

<u>https://www.3ptest.dk/</u> Independent Testing - For End User Confidence

Two connector permanent link, Class E / Category 6



### **Attestation of Conformity**

### ISO/IEC, EN & TIA Screen Continuity Class E<sub>A</sub> / Category 6A Two Connector Channel

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

#### Attestation of Conformity No. 1181042

This type of Class  $E_A$  / Category 6A screen continuity two connector channel has been tested by 3P Third Party Testing and complies with the 10 Gigabit Ethernet requirements of IEEE P802.3an, Class  $E_A$  requirements of edition 1.0 of ISO/IEC 11801-1:2017, edition 1.0 of ISO/IEC 11801-2:2017, CENELEC EN 50173-1:2011, and Category 6A requirements of ANSI/TIA-568-C.2:2009. The channel is only specified for screen continuity and screening performance has therefore not been verified. The Attestation of Conformity is only valid for the actually tested channel type in T568A configuration and consisting of the following Krugel Exim components:

Cables:

Horizontal Cable, Equipment Cord: Qualification Status:

Conn. Hardware:

Patch Panel, Wall Outlet, Qualification Status: P/N KE-550HS23/1E-xxx P/N KEL-C6A-P-050 Manufacturer verified

P/N KEJ-CEA-S-10G P/N KEJ-CEA-S-10G Manufacturer Verified

Hoersholm, 31st May 2018

Ok halt

Ole Lambertsen Test Responsible

Hoersholm, **3**1<sup>st</sup> May 2018

Jens Rytter Petersen General Manager

Independent Testing - For End User Confidence

## **Reaction to fire classification - Euroclass**

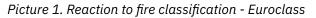
Since the 1st of July 2017, EN 50575: 2015 became a binding harmonized standard. This document introduced a clear classification of fire characteristics of cables and their unified identification within the European Union. All copper and optical cables for structured cabling are building materials which are subject to reaction to fire requirements in construction works.

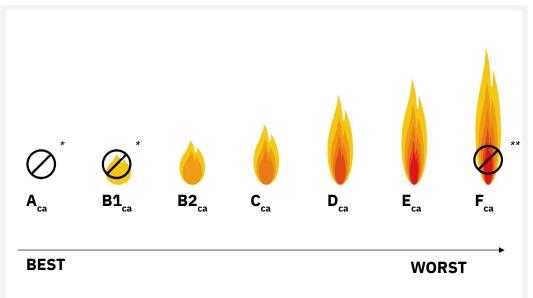
#### Reaction to fire (Euroclass)

For each cable supplied to the EU market, the reaction to fire class must be determined according to the testing carried out by laboratories accredited by the European Commission. For cables with Euroclasses  $B2_{ca}$  and  $C_{ca}$ , both type test and certificate of constant performance (AVCP) in the System 1+ are required. The Euroclasses  $A_{ca}$  and  $B1_{ca}$  are technically unattainable for cables used in structured cabling. Testing for cables with Euroclass Fca is not required. According to the EN 50174-1 standard, the use of cables with the Euroclass  $F_{ca}$  is forbidden for information technology cabling in buildings.

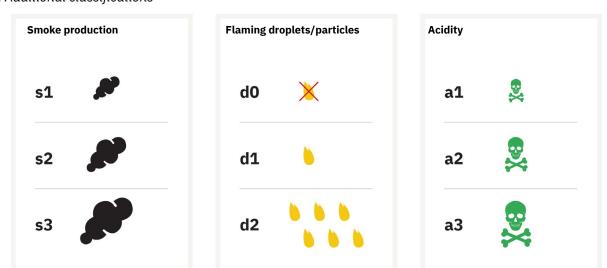
#### **Cable identification**

The standard has established mandatory cable identification on packaging (reel / box), more precisely the marking on a cable. The packaging label must contain CE marking, reaction to fire class, and other prescribed information. Existing PVC, LSOH, LSFROH or similar markings cannot be used for classification of fire class characteristics of cables. They are considered as an additional information only.





\* A<sub>ca</sub> and B1<sub>ca</sub> euroclasses are not achieavable by copper and fibre optical cables used in structured cabling.
 \*\* Indoor installation of F<sub>ca</sub> euroclass is forbidden in structured cabling by EN 50174-1/A2:2015.
 Picture 2. Additional classifications



The above requirements do not apply to flexible cords (e.g., patch cables) or cables disgned for outdoor use

#### DECLARATION OF PERFORMANCE (DoP)

The Declaration of Performance is an official document confirming the reaction to fire class. It is used by a builder during the final inspection of a construction to prove that the requirements for fire safety in a construction are met.

Picture 3. Declaration of Performance - example

R	KRUGEL EXIM	KELIN KELIN
	Declaration of No. 00	BY ANTA SXVLY ABY ADDAY
Â	Annex III Construction Product	Regulation (EU) No 305/2011.
1	Unique identification code of the product type:	799053-Eca
2	Type, batch or serial number or any other element allowing identification:	Keline* UTP (U/UTP) 4x2xAWG24, Category 5E, 300 MHz, Euroclass $E_{\rm ca}$
3115	Intended use or uses of the construction product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):	KRUGEL EXIM spol s r.o. Pri majeri 13 1831 06 Bratislava Slovak Republic
5	Contact address of authorized representative According to Article 12(2):	As per Item 4
611	System of assessment and verification of constancy of performance of the construction product as set out in CPR EU No.305/2011 Annex V:	System 3
	Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on a angling carried out by the manufacture), type calculation and tabulated values or descriptive documentation.	
8	Declared performance:	
	Essential characteristics Performance Reaction to fire E <sub>co</sub> Release of dangerous substances None	Harmonized technical standard EN 50575:2014/A1:2016
	The performance of the product identified in points 1 and 2 is This declaration of performance is issued under the sole resp	
	Signed for and on behalf of the manufacturer by:	
	Michal Sobolië, technical director	
	Bratislava, 29. July 2022	Contraction of the second

Declaration of	
Annex III Construction Product	
Unique identification code of the product type:	KE1200HS23-Dca
Type, batch or serial number or any other element allowing identification:	Keline S/FTP 4x2xAWG23, Category $7_A$ , 1200MHz, LSOH, Euroclass $D_{ca}$ - s2, d2, a1
Intended use or uses of the construction product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
Contact address of the manufacturer According to Article 11(5):	KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
Contact address of authorized representative According to Article 12(2):	As per Item 4
System of assessment and verification of constancy of performance of the construction product as set out in CPR EU No.305/2011 Annex V:	System 3
Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.	0199
Declared performance:	
Essential characteristics Performance	Harmonized technical standard
Reaction to fire     D <sub>ca</sub> - \$2, d2, a1       Release of dangerous substances     None	EN 50575:2014/A1:2016
The performance of the product identified in points 1 and 2 is This declaration of performance is issued under the sole respo	
Signed for and on behalf of the manufacturer by:	
Michal Sobolič, technical director	
name and function	
Bratislava, 21 <sup>th</sup> December 2021	Mu. Soletij

		No. 00	0017
	Annex III Construct	ion Product	Regulation (EU) No 305/2011.
	Unique identification code of the product typ	e:	KE1000HS23-B2ca
	Type, batch or serial number or any other ele identification:	ment allowing	Keline S/FTP 4x2xAWG23, Category 7, 1000MHz, LSOH, Euroclass B2 <sub>ca</sub> - s1, d1, a1
	Intended use or uses of the construction pro	duct:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
4	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
5	Contact address of authorized representative According to Article 12(2):		As per Item 4
5	System of assessment and verification of cor performance of the construction product as s CPR EU No.305/2011 Annex V:	// \\$\\$\\$\<	System 1+
	Notified product certification body: Notified testing laboratory performed the determination type on the basis of type testing (based on sampling carr manufacturer), type calculation and tabulated values or documentation.	ied out by the	0200
3	Declared performance:		
	Essential characteristics P	erformance	Harmonized technical standard
		2 <sub>ca</sub> - s1a, d1, a1 Ione	EN 50575:2014/A1:2016
		·// \ >`// \>>	in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufacture	er by:	
	Michal Sobolič, technical director		
X	name and function		B B A A A A B A B
	Bratislava, 21 <sup>th</sup> December 2021		Mi Soleti
		Z 11 N X X 11	

	Decla	ration of No. 00	Performance
>	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the proc	duct type:	KE1000HS23-Dca
	Type, batch or serial number or any o identification:	ther element allowing	Keline® S/FTP 4x2xAWG23, Category 7, 1000MHz, LSOH, Euroclass D <sub>ca</sub> - s2, d2, a1
	Intended use or uses of the construct	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	entative	As per Item 4
1 N N N N N	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3
TU LANVS	Notified product certification body: Notified testing laboratory performed the deter type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	0199
2	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire Release of dangerous substances	D <sub>ca</sub> - s2, d2, a1 None	EN 50575:2014/A1:2016
			s in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manu	ifacturer by:	
	Michal Sobolič, technical director		

	Declarat	No. 00		
	Annex III Construction	on Product	Regulation (EU)	No 305/2011.
	Unique identification code of the product type		KE550HS23-B2ca	
	Type, batch or serial number or any other elen identification:	nent allowing	Keline® STP 4x2xAV Euroclass B2 <sub>ca</sub> - s1,	NG23, Category 6 <sub>A</sub> , 550MHz, LSOH, d1, a1
	Intended use or uses of the construction prod	uct:	engineering works	cations in buildings and other civil with the objective of limiting the ead of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol Pri majeri 13 831 06 Bratislava Slovak Republic	S r.o:
	Contact address of authorized representative According to Article 12(2):		As per Item 4	
5	System of assessment and verification of cons performance of the construction product as se CPR EU No.305/2011 Annex V:		System 1+	
	Notified product certification body: Notified testing laboratory performed the determination o type on the basis of type testing (based on sampling carrie manufacturer), type calculation and tabulated values or do documentation.	ed out by the	0200	
	Declared performance:			
	Essential characteristics Pe	rformance		Harmonized technical standard
		<sub>ca</sub> - s1a, d1, a1 ne		EN 50575:2014/A1:2016
	The performance of the product identified in p This declaration of performance is issued und			
	Signed for and on behalf of the manufacturer	by:		
	Michal Sobolič, technical director			
	name and function			
	Bratislava, 21 <sup>th</sup> December 2021			U. Soleti

	KRUGEL EXIM	
	Declaration of	of Performance
	No.	00046
	Annex III Construction Produ	uct Regulation (EU) No 305/2011.
	Unique identification code of the product type:	KE550HS23/1E-Dca
	Type, batch or serial number or any other element allowir identification:	ng Keline® STP 4x2xAWG23, Category 6 <sub>A</sub> , 550MHz, LSOH, Euroclass D <sub>ca</sub> - s2, d2, a1
	Intended use or uses of the construction product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):	KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
1	Contact address of authorized representative According to Article 12(2):	As per Item 4
F N VSU	System of assessment and verification of constancy of performance of the construction product as set out in CPR EU No.305/2011 Annex V:	System 3
	Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.	0199
4 1	Declared performance:	
	Essential characteristics Performance	Harmonized technical standard
	Reaction to fire     D <sub>ca</sub> - s2, d2, a1       Release of dangerous substances     None	EN 50575:2014/A1:2016
	The performance of the product identified in points 1 and This declaration of performance is issued under the sole r	2 is in conformity with the declared performance in point 8. responsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufacturer by:	
	Michal Sobolič, technical director	
	name and function	
	Bratislava, 27 <sup>th</sup> January 2022	the Soleting

		No. 00	Performance
	Annex III Constr	uction Product	Regulation (EU) No 305/2011.
	Unique identification code of the produc	t type:	KE400U23LSOH-B2ca
	Type, batch or serial number or any othe identification:	er element allowing	Keline® UTP (U/UTP) 4x2x0,53, Category 6, 400 MHz, LSOF Euroclass B2 <sub>ca</sub> - s1a, d1, a1
	Intended use or uses of the construction	n product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized representative According to Article 12(2):		As per Item 4
	System of assessment and verification of performance of the construction product CPR EU No.305/2011 Annex V:		System 1+
A	Notified product certification body:		0200
	Notified testing laboratory performed the determin type on the basis of type testing (based on samplin manufacturer), type calculation and tabulated valu documentation.	g carried out by the	
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
V	Reaction to fire	B2 <sub>ca</sub> - s1a, d1, a1	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufa	cturer by:	
	Michal Sobolič, technical director		
	name and function		

	Decla	No. 00	Performance
S		NU. U	
<u></u>	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the proc	luct type:	KE400U23LSOH-Dca
	Type, batch or serial number or any o identification:	ther element allowing	Keline® UTP (U/UTP) 4x2x0,54, Category 6, 400MHz, LSOH Euroclass D <sub>ca</sub> - s2, d2, a1
	Intended use or uses of the construct	ion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized representative According to Article 12(2):		As per Item 4
	System of assessment and verificatio performance of the construction prod CPR EU No.305/2011 Annex V:		Systém 3
	Notified product certification body: Notified testing laboratory performed the deter type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	1783
3	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	D <sub>ca</sub> - s2, d2, a1	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manu	facturer by:	
	Michal Sobolič, technical director		
	name and function		

	Decla		Performance
		No. 00	
	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the pro-	duct type:	KE400S23LSOH-Eca
20	Type, batch or serial number or any o identification:	ther element allowing	Keline® FTP (F/UTP) 4x2x0,53, Category 6, 250 MHz, LSOH Euroclass E <sub>ca</sub>
3	Intended use or uses of the construc	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	entative	As per Item 4
575	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3
1	Notified product certification body:		1722
	Notified testing laboratory performed the dete type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	
3	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	E <sub>ca</sub>	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the man	Ifacturer by:	
	Michal Sobolič, technical director		
	name and function		
	161 754 54/2 3/2		A Solatin Solatin Solating

	Declar	ation of	Performance
		No. 00	006
30	Annex III Const	ruction Product	Regulation (EU) No 305/2011.
	Unique identification code of the produ	ict type;	KE400U23-Eca
	Type, batch or serial number or any oth identification:	ner element allowing	KELine® UTP (U/UTP) 4x2x0,54, Category 6, 400MHz, Euroclass E <sub>ca</sub>
	Intended use or uses of the construction	on product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Rybničná 38/H 831 06 Bratislava Slovak Republic
	Contact address of authorized representative According to Article 12(2):		As per Item 4
NJ J J J	System of assessment and verification performance of the construction produ CPR EU No.305/2011 Annex V:		System 3
T	Notified product certification body:		1014
	Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.		
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	E <sub>ca</sub>	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manuf	acturer by:	
	Michal Sobolič, technical director		BREAK STREAM
	name and function	15 / CS / CS L	B S S S S S S S S S S S S S S S S S S S

K KRUGEL EXIM



### **Declaration of Performance**

No. 00051

	Annex III Consti	ruction Product	Regulation (EU) No 305/2011.	
	Unique identification code of the produc	ct type:	KE300S24LSOH-B2ca	
	Type, batch or serial number or any other element allowing identification:		Keline® FTP (F/UTP) 4x2xAWG24, Category 5E, 300 MHz, LSOH, Euroclass B2 <sub>ca</sub> - s1, d1, a1	
3	Intended use or uses of the construction product:		Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.	
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic	
5	Contact address of authorized represen According to Article 12(2):	itative	As per Item 4	
515	System of assessment and verification of constancy of performance of the construction product as set out in CPR EU No.305/2011 Annex V:		System 1+	
7	Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.		0200	
3	Declared performance:			
	Essential characteristics	Performance	Harmonized technical standard	
	Reaction to fire	B2 <sub>ca</sub> - s1a, d1, a1		
	Release of dangerous substances	None	EN 50575:2014/A1:2016	
9	The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.			
	Signed for and on behalf of the manufa	cturer by:		
	Michal Sobolič, technical director			
	name and function		lu Soleti	
	Bratislava, 8 <sup>th</sup> February 2023		V V V V V V V V V V V V V V V V V V V	

Declaration of Performance No. 00025				
> 1[				
>	Annex III Cons	struction Product	Regulation (EU) No 305/2011.	
	Unique identification code of the prod	duct type:	KE300S24LSOH-Dca	
	Type, batch or serial number or any o identification:	ther element allowing	KELine® FTP (F/UTP) 4x2xAWG24, Category 5E, 300 MHz LSOH, Euroclass D <sub>ca</sub> - s2, d1, a1	
	Intended use or uses of the construct	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.	
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic	
	Contact address of authorized representative According to Article 12(2):		As per Item 4	
NVVV(	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3	
	Notified product certification body:		0199	
	Notified testing laboratory performed the deter type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the		
	Declared performance:			
	Essential characteristics	Performance	Harmonized technical standard	
	Reaction to fire	D <sub>ca</sub> -s2, d1, a1		
	Release of dangerous substances	None	EN 50575:2014/A1:2016	
	The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.			
	Signed for and on behalf of the manufacturer by:			
	Michal Sobolič, technical director			
	name and function			
	Bratislava, 30 <sup>th</sup> May 2022		Me Soleti,	

	Decla		Performance
	Annex III Cons	No. 00 struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the prod	lict type:	KE300S24-Eca
	Type, batch or serial number or any o identification:		KES00324-ECa Keline® FTP (F/UTP) 4x2xAWG24, Category 5E, 300MHz Euroclass E <sub>ca</sub>
	Intended use or uses of the construct	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	entative	As per Item 4
1 N N N N N N N N N N N N N N N N N N N	System of assessment and verificatio performance of the construction proc CPR EU No.305/2011 Annex V:		System 3
TU KYNVU	Notified product certification body: Notified testing laboratory performed the deter type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	1014
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire Release of dangerous substances	E <sub>ca</sub> None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufacturer by:		
	Michal Sobolič, technical director		
	name and function		

	Decla	ration of No. 00	Performance
	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the prod	duct type:	KE300U24LSOH-Dca-RLX
	Type, batch or serial number or any o identification:	ther element allowing	Keline® FTP (F/UTP) 4x2xAWG24, Category 5E, 300 MHz LSOH, Euroclass D <sub>ca</sub> - s1, d1, a1
	Intended use or uses of the construct	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	entative	As per Item 4
NV5(2)	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3
	Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.		0261
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	D <sub>ca</sub> - s1a, d1, a1	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufacturer by:		
	Michal Sobolič, technical director		
	Michal Sobolic, technical director		

	Decla	ration of	Performance
		No. 00	009
31	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the pro	duct type:	799053-Eca
	Type, batch or serial number or any c identification:	other element allowing	Keline® UTP (U/UTP) 4x2xAWG24, Category 5E, 300 MHz Euroclass E <sub>ca</sub>
	Intended use or uses of the construc	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	sentative	As per Item 4
N25/2/	System of assessment and verification performance of the construction pro- CPR EU No.305/2011 Annex V:		System 3
	Notified product certification body: Notified testing laboratory performed the dete type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	1014
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire Release of dangerous substances	E <sub>ca</sub> None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the man	ufacturer by:	
K	Michal Sobolič, technical director		

		No. 00	0055	
Į.	Annex III Cons	struction Product	Regulation (EU) No 305/2011.	
	Unique identification code of the pro	duct type:	KECCTVS25LSOH-Dca	
	Type, batch or serial number or any o identification:	ther element allowing	Keline® CCTV FTP (F/UTP) 4x2xAWG25, Category 5E, 100MHz, LSOH, Euroclass D <sub>ca</sub> - s2, d1, a1	
	Intended use or uses of the construc	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.	
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic	
	Contact address of authorized representative According to Article 12(2):		As per Item 4	
	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3	
	Notified product certification body: Notified testing laboratory performed the dete type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	2661	
	Declared performance:			
	Essential characteristics	Performance	Harmonized technical standard	
	Reaction to fire Release of dangerous substances	D <sub>ca</sub> - s2, d1, a1 None	EN 50575:2014/A1:2016	
		'X 11') \ 5 X1L \ (~.~. < V 4	in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.	
	Signed for and on behalf of the man	Ifacturer by:		
	Michal Sobolič, technical director			

		No. 00	Performance
> 1ĺ			
5	Annex III Cons	struction Product	Regulation (EU) No 305/2011.
	Unique identification code of the pro-	duct type:	KECCTVS25-Eca
	Type, batch or serial number or any c identification:	other element allowing	Keline® CCTV FTP (F/UTP) 4x2xAWG25, Category 5E, 100MHz, Euroclass E <sub>ca</sub>
	Intended use or uses of the construc	tion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized repres According to Article 12(2):	sentative	As per Item 4
M V V V V	System of assessment and verification performance of the construction proc CPR EU No.305/2011 Annex V:		System 3
	Notified product certification body: Notified testing laboratory performed the dete type on the basis of type testing (based on sam manufacturer), type calculation and tabulated documentation.	pling carried out by the	2661
	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire Release of dangerous substances	E <sub>ca</sub> None	EN 50575:2014/A1:2016
			in conformity with the declared performance in point 8. onsibility of the manufacturer identified in point 4.
	Signed for and on behalf of the manufacturer by:		
			onsibility of the manufacturer identified in point 4.

Decla	r <b>ation of</b> No. OC	Performance
Annex III Cons	truction Product	Regulation (EU) No 305/2011.
Unique identification code of the prod	luct type:	CLTDxxyyy-B2ca x: number of fibers y: fiber type
Type, batch or serial number or any of identification:	ther element allowing	Keline® Universal CLT cable, Euroclass B2 <sub>ca</sub> - s1, d1, a1
Intended use or uses of the construct	ion product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
Contact address of authorized represe According to Article 12(2):	entative	As per Itêm 4.
System of assessment and verification performance of the construction prod CPR EU No.305/2011 Annex V:		System 1+
Notified product certification body:		2652
Notified testing laboratory performed the deter type on the basis of type testing (based on samp manufacturer), type calculation and tabulated v documentation.	oling carried out by the	
Declared performance:		
Essential characteristics	Performance	Harmonized technical standard
Reaction to fire	B2 <sub>ca</sub> - s1a, d1, a1	
Release of dangerous substances	None	EN 50575:2014/A1:2016
Signed for and on behalf of the manu	facturer by:	
Michal Sobolič, technical director		
name and function		M. Soleti
Bratislava, 27th June 2024		M. Joleu

	Declai		Performance
3	Annex III Const	No. 00 truction Product	Regulation (EU) No 305/2011.
	Unique identification code of the prod	uct type:	CLTDxxyyy-Dca x: number of fibers y: type of fiber
2	Type, batch or serial number or any ot identification:	her element allowing	Keline® universal cable CLT, Euroclass D <sub>ca</sub> - s2, d1, a1
3	Intended use or uses of the constructi	on product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
4	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
5	Contact address of authorized represe According to Article 12(2):	ntative	As per Item 4
6	System of assessment and verification performance of the construction produ CPR EU No.305/2011 Annex V:		System 3
	Notified product certification body:		1014
	Notified testing laboratory performed the detern type on the basis of type testing (based on samp manufacturer), type calculation and tabulated va documentation.	ling carried out by the	
8	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	D <sub>ca</sub> - s2, d1, a1	
	Release of dangerous substances	None	EN 50575:2014/A1:2016
	Signed for and on behalf of the manufacturer by:		
	Michal Sobolič, technical director		
	name and function		
	Proticiana 200 May 2022		the Soleting
	Bratislava, 2 <sup>nd</sup> May 2023 place and date of issue	VSZVSSZ	signature

	Declaration of	Performance
	No. 00	
	Annex III Construction Product	Regulation (EU) No 305/2011.
V	Unique identification code of the product type:	CLTDxxyyy-Eca
	Type, batch or serial number or any other element allowing identification:	Keline® Optical Fibre Cable CLT, LSOH, Euroclass E <sub>ca</sub>
	Intended use or uses of the construction product:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
	Contact address of the manufacturer According to Article 11(5):	KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
	Contact address of authorized representative According to Article 12(2):	As per Item 4
	System of assessment and verification of constancy of performance of the construction product as set out in CPR EU No.305/2011 Annex V:	System 3
	Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation.	2652
	Declared performance:	
	Essential characteristics Performance Reaction to fire Eca	Harmonized technical standard
	Release of dangerous substances None	EN 50575:2014/A1:2016
	The performance of the product identified in points 1 and 2 is This declaration of performance is issued under the sole respo	
	Signed for and on behalf of the manufacturer by:	
ž	Michal Sobolič, technical director	
	name and function	he Soleti

		of Performance	
4	Annex III Construction F	duct Regulation (EU) No 305/20	11.
	1548.76.76.74.57.64		
	Unique identification code of the product type:	CLTDxxyyy-PANC-Dca	
	Type, batch or serial number or any other element a identification:	ving Keline® Optical Fibre Cable CLT, LSF Euroclass D <sub>ca</sub> - s2, d2, a1	ROH,
	Intended use or uses of the construction product:	Supply of communications in buildi engineering works with the objectiv generation and spread of fire and sp	ve of limiting the
	Contact address of the manufacturer According to Article 11(5):	KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic	
	Contact address of authorized representative According to Article 12(2):	As per Item 4	
	System of assessment and verification of constancy performance of the construction product as set out CPR EU No.305/2011 Annex V:	System 3	
A	Notified product certification body:	1014	
	Notified testing laboratory performed the determination of the putype on the basis of type testing (based on sampling carried out to manufacturer), type calculation and tabulated values or descript documentation.		
	Declared performance:		
	Essential characteristics Performa	Harmonized te	chnical standard
	Reaction to fire D <sub>ca</sub> + \$2, 0		014/A1:2016
	Release of dangerous substances None	EN 303/5:2	014/A1.2010
	The performance of the product identified in points This declaration of performance is issued under the		A    2   2 7    h     - 15
	Signed for and on behalf of the manufacturer by:		
K	Michal Sobolič, technical director		KS KSKE
	name and function	he Soler	B
	THINK & STANDARD STAND	VINSALA IS Solo	KANSSKUSUA

		No. 00	Performance
20	Annex III Construc	tion Product	Regulation (EU) No 305/2011.
	Unique identification code of the product ty	pe:	CLTFRxxyyy
			x: number of fibers y: type of fiber
	Type, batch or serial number or any other el identification:	lement allowing	Keline® fire-resistant universal central loose tube cable, 180min. at 750 °C, Euroclass D <sub>ca</sub> - s2, d1, a1
3	Intended use or uses of the construction pro	oduct:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
4	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic
5	Contact address of authorized representativ According to Article 12(2):	ve	As per Item 4
	System of assessment and verification of co performance of the construction product as CPR EU No.305/2011 Annex V:		System 3
	Notified product certification body:		1014
	Notified testing laboratory performed the determinatio type on the basis of type testing (based on sampling car manufacturer), type calculation and tabulated values o documentation.	rried out by the	
8	Declared performance:		
	Essential characteristics	Performance	Harmonized technical standard
	Reaction to fire	D <sub>ca</sub> - s2, d1, a1	EN 50575:2014/A1:2016
	Release of dangerous substances	None	
	Signed for and on behalf of the manufactur	rer by:	
	Michal Sobolič, technical director		
	name and function		
	Bratislava, 17 <sup>th</sup> March 2021	BLAGIS	Mr. Soleti
	place and date of issue	XXXXXX	signature

#### KELINE K KRUGEL EXIM **Declaration of Performance** No. 00029 Annex III Construction Product Regulation (EU) No 305/2011. Unique identification code of the product type: CLTFRxxyyy-PANC-B2ca 1 x: number of fibres y: fiber type 2 Type, batch or serial number or any other element allowing Keline® armoured fire-resistant universal central loose tube identification: cable, 180min. at 750 °C, Euroclass B2<sub>ca</sub>- s1, d1, a1 (ID number, WW/YYYY) + length marking in m Intended use or uses of the construction product: 3 Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. 4 Contact address of the manufacturer KRUGEL EXIM spol. s r.o. According to Article 11(5): Pri majeri 13 831 06 Bratislava **Slovak Republic** 5 Contact address of authorized representative As per Item 4 According to Article 12(2): System of assessment and verification of constancy of System 1+ 6 performance of the construction product as set out in CPR EU No.305/2011 Annex V: 7 1014 Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation. Declared performance: 8 **Essential characteristics** Performance Harmonized technical standard Reaction to fire B2ca - s1a, d0, a1 EN 50575:2014/A1:2016 **Release of dangerous substances** None Signed for and on behalf of the manufacturer by: Michal Sobolič, technical director u cleti signature name and function Bratislava, 19th June 2023 place and date of issue

Declaration of Performance No. 00030				
21 5	Annex III Construct	ion Product	Regulation (EU) No 305/2011.	
V	Unique identification code of the product typ	le:	CLTIxxyyy-B2ca	
			x: number of fibers y: type of fiber	
	Type, batch or serial number or any other ele identification:	ement allowing	Keline® indoor cable CLT, Euroclass B2 <sub>ca</sub> - s1, d1, a1	
3	Intended use or uses of the construction pro	duct:	Supply of communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.	
4	Contact address of the manufacturer According to Article 11(5):		KRUGEL EXIM spol. s r.o. Pri majeri 13 831 06 Bratislava Slovak Republic	
	Contact address of authorized representative According to Article 12(2):	e	As per Itém 4.	
	System of assessment and verification of cor performance of the construction product as CPR EU No.305/2011 Annex V:		System 1+	
5	Notified product certification body:	ABLAK	1014	
	Notified testing laboratory performed the determination type on the basis of type testing (based on sampling carr manufacturer), type calculation and tabulated values or documentation.	ied out by the		
	Declared performance:			
	Essential characteristics F	Performance	Harmonized technical standard	
	Reaction to fire	32 <sub>ca</sub> - s1, d0, a1		
	Release of dangerous substances	lone	EN 50575:2014/A1:2016	
1/1/1	Signed for and on behalf of the manufacture	er by:		
	Michal Sobolič, technical director			
	name and function			
			the Soleting	
	Bratislava, 2 <sup>nd</sup> May 2023	SVZ SSXLG		

#### KELINE K KRUGEL EXIM **Declaration of Performance** No. 00058 Annex III Construction Product Regulation (EU) No 305/2011. Unique identification code of the product type: MLTxxxyyy-PANC-DJ-Eca 1 x: number of fibres y: fibre type 2 Type, batch or serial number or any other element allowing MLTxxxyyy-PANC-DJ-Eca KELINE SYSTEM - Optical fibre identification: cable X x Y - LSFROH - Euroclass Eca - Rodent Protected OP3 (ID number, WW/YYY) + length marking in m Intended use or uses of the construction product: 3 Supply of communications in buildings and other civil. engineering works with the objective of limiting the generation and spread of fire and smoke. 4 Contact address of the manufacturer KRUGEL EXIM spol. s r.o. According to Article 11(5): Pri majeri 13 831 06 Bratislava **Slovak Republic** 5 Contact address of authorized representative As per Item 4 According to Article 12(2): System of assessment and verification of constancy of 6 System 3 performance of the construction product as set out in CPR EU No.305/2011 Annex V: 7 1014 Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation. Declared performance: 8 **Essential characteristics** Performance Harmonized technical standard Reaction to fire Eca EN 50575:2014/A1:2016 **Release of dangerous substances** None Signed for and on behalf of the manufacturer by: Michal Sobolič, technical director u cleti signature name and function Bratislava, 22<sup>nd</sup> August 2024 place and date of issue

#### KELINE K KRUGEL EXIM **Declaration of Performance** No. 00059 Annex III Construction Product Regulation (EU) No 305/2011. Unique identification code of the product type: MLTxxxyyy-PANC-Eca 1 x: number of fibres y: fibre type 2 Type, batch or serial number or any other element allowing MLTxxxyyy-PANC-Eca KELINE SYSTEM - Optical fibre cable X identification: x Y - LSFROH - Euroclass Eca - Rodent Protected OP3 (ID number, WW/YYY) + length marking in m Intended use or uses of the construction product: 3 Supply of communications in buildings and other civil. engineering works with the objective of limiting the generation and spread of fire and smoke. 4 Contact address of the manufacturer KRUGEL EXIM spol. s r.o. According to Article 11(5): Pri majeri 13 831 06 Bratislava **Slovak Republic** 5 Contact address of authorized representative As per Item 4 According to Article 12(2): System of assessment and verification of constancy of 6 System 3 performance of the construction product as set out in CPR EU No.305/2011 Annex V: 7 1014 Notified product certification body: Notified testing laboratory performed the determination of the product type on the basis of type testing (based on sampling carried out by the manufacturer), type calculation and tabulated values or descriptive documentation. Declared performance: 8 **Essential characteristics** Performance Harmonized technical standard Reaction to fire Eca EN 50575:2014/A1:2016 **Release of dangerous substances** None Signed for and on behalf of the manufacturer by: Michal Sobolič, technical director u cleti signature name and function Bratislava, 22<sup>nd</sup> August 2024 place and date of issue