



**INSTYTUT KOLEJNICTWA
OŚRODEK JAKOŚCI I CERTYFIKACJI**

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CERTIFICATE OF CONFORMITY CZ IK - 16/2016

Name and address of certificate holder: **Rogum Kable Sp. z o.o.
ul. Grunwaldzka 66, 83-000 Pruszcz Gdański, Poland**

Name and address of the manufacturer: **Rogum Kable Sp. z o.o.
ul. Grunwaldzka 66, 83-000 Pruszcz Gdański, Poland**

Name of the product: **Halogen-free cables and wires**

Type/variety: **LgN-K 0,6/1kV,
NLgN-K 1,8/3kV, NLgNek-K 1,8/3 kV, NLgNek-K inf. 1,8/3 kV,
NLgN-K 3,6/6kV, NLgNek-K 3,6/6 kV, NLgNek-K inf. 3,6/6 kV,
LIHH 0,6/1 kV, LIHCH 0,6/1 kV, LIHCH inf. 120 Ω 300/500 V,
LIHCH U/FTP inf. 100 Ω 300/500 V**

The product meets the requirements of:

PN-EN 45545-2 Railway applications – Fire protection on railway vehicles – Part 2: Requirements for fire behaviour of materials and components in the field of fire properties according to R15 and R16 at the Hazard Levels HL1, HL2 and HL3 in the areas of fire safety materials for vehicles classified under the following Design Categories: N (standard vehicles), A (vehicles forming part of an automatic train having no emergency trained staff on board), D (double decked vehicles), S (sleeping and couchette vehicles) which are additionally classified according to the following Operation Categories: 1 - vehicles for operation on infrastructure where railway vehicles may be stopped with minimum delay, and where a safe area can always be reached immediately; 2 – vehicles for operation on underground sections, tunnels and/or elevated structures, with side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a short running time; 3 – vehicles for operation on underground sections, tunnels and/or elevated structures, with side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a long running time; 4 – vehicles for operation on underground sections, tunnels and/or elevated structures, without side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a short running time.

In accordance with the reports of tests conducted by:

1. Materials and Structural Elements Laboratory – Railway Institute Warsaw, Poland
2. Laboratorio Prevenzione Incendi S.p.A, Italy

Test reports:

- | | | | |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. IK.LKA15.A36/16,
IK.LKA15.A57/16,
IK.LKA15.A61/16,
IK.LKA15.A65/16,
IK.LKA15.A69/16,
IK.LKA15.A73/16, | IK.LKA15.A37/16,
IK.LKA15.A58/16,
IK.LKA15.A62/16,
IK.LKA15.A66/16,
IK.LKA15.A70/16,
IK.LKA15.A74/16 | IK.LKA15.A38/16,
IK.LKA15.A59/16,
IK.LKA15.A63/16,
IK.LKA15.A67/16,
IK.LKA15.A71/16,
- of May 2016
- of May 2016 | IK.LKA15.A39/16,
IK.LKA15.A60/16,
IK.LKA15.A64/16,
IK.LKA15.A68/16,
IK.LKA15.A72/16, |
| 2. 752.1CI0110/16, | 753.1CI0110/16 | | |

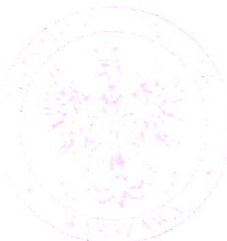
Scope of utility:

Halogen-free cables and wires for use in rolling stock.

The right to use the Certificate of Conformity from 26.07.2016 to 25.07.2019 is valid exclusively for the copies of products of the same parameters as specimen (specimens) subjected to scrutiny and complying with the mentioned standard.

Certification according to Certification Program CW-08

The Head of Quality and
Certification Centre



DYREKTOR

Director of
Railway Institute

Warsaw, 26th July 2016