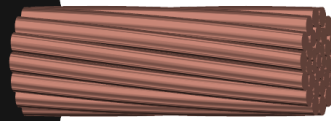




## LgY-K 1,5 kV

ROGUM KABLE SP. Z O.O.



### Polyvinyl chloride insulated power cables for rolling stock. Single-core cables for rated voltage of 750 V

|   |   |
|---|---|
| <b>Standard:</b>                        | PN-E-90116:1988   |
| <b>Related standards:</b>               | PN-E-90115:1988; PN-EN 60228:2007; PN-EN 50363-3:2010/A1:2011   |
| <b>CONSTRUCTION</b>                     |   |
| <b>Conductor</b>                        | Stranded tin plated copper wires, class 5   |
| <b>Insulation</b>                       | Insulating polyvinyl chloride in normal design  |
| <b>Color of insulation</b>              | Black   |
| <b>CHARACTERISTIC</b>                   |   |
| <b>Rated voltage</b>                    | 1,5k V  |
| <b>Test voltage</b>                     | 6 kV  |
| <b>Working temperature range</b>        | from - 30 °C to + 70 °C   |
| <b>Minimum installation temperature</b> | - 5 °C  |
| <b>The minimum bending radius</b>       | not less than: 3D   |
| <b>Example of cable marking</b>         | <b>ROGUM KABLE sp. z o.o. LgY-K 1,5 kV 1x2,5mm<sup>2</sup> ID: 2081725</b><br>Power cable with tin-plated copper conductors, class 5 (Lg), with polyvinyl chloride insulation (Y), for rolling stock (K). |

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| <b>APPLICATION</b>   |
| Wires for permanent installation in railroad rolling stock, including areas exposed to weather and lubricants. |

|                                  |
|----------------------------------|
| <b>CERTIFICATE AND APPROVALS</b> |
| -----                            |

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|---|
| <b>ADDITIONAL INFORMATION</b>   |
| At the client's request, it is possible to: <ul style="list-style-type: none"> <li>• change the color of the insulation,</li> <li>• execution of non-standard conductor with other cross sections</li> </ul> In matters relating to detailed technical data, please contact our Technical Advisor: doradztwotechniczne@rogum.com.pl |

|                    |    |                     |            |
|--------------------|----|---------------------|------------|
| <b>CARD NUMBER</b> | 35 | <b>RELEASE DATE</b> | 28-06-2023 |
|--------------------|----|---------------------|------------|

RAILWAY ROLLING STOCK



| <b>CONSTRUCTION</b>          |  |  |                           |  |
|------------------------------|--|--|---------------------------|--|
| <b>Cross-section of core</b> | <b>Max diameter of the wires in the core</b> | <b>Nominal thickness of the insulation</b> | <b>Max cable diameter</b> | <b>Approximate weight of the cable</b> |
| <b>mm<sup>2</sup></b>        | <b>mm</b>                                    | <b>mm</b>                                  | <b>mm</b>                 | <b>kg/km</b>                           |
| 0,75                         | 0,21   | 1,5  | 4,7                       | 26                                     |
| 1,0                          | 0,21   | 1,5  | 4,9                       | 29                                     |
| 1,5                          | 0,26   | 1,5  | 5,2                       | 33                                     |
| 2,5                          | 0,26   | 1,5  | 5,6                       | 45                                     |
| 4                            | 0,31   | 1,5  | 6,2                       | 62                                     |
| 6                            | 0,31   | 1,5  | 7,4                       | 83                                     |
| 10                           | 0,41   | 1,7  | 8,9                       | 139                                    |
| 16                           | 0,41   | 1,7  | 10,4                      | 194                                    |
| 25                           | 0,41   | 2,0  | 12,8                      | 293                                    |
| 35                           | 0,41   | 2,0  | 13,8                      | 396                                    |
| 50                           | 0,41   | 2,0  | 15,2                      | 548                                    |
| 70                           | 0,51   | 2,0  | 17,4                      | 727                                    |
| 95                           | 0,51   | 2,4  | 21,3                      | 986                                    |
| 120                          | 0,51   | 2,4  | 22,3                      | 1198                                   |

| <b>PARAMETERS</b>            |  |
|------------------------------|--|
| <b>Cross-section of core</b> | <b>The highest conductor resistance at 20 °C</b> |
| <b>mm<sup>2</sup></b>        | <b>Ω/km</b>                                      |
| 0,75                         | 26,7   |
| 1,0                          | 20,0   |
| 1,5                          | 13,7   |
| 2,5                          | 8,21   |
| 4                            | 5,09   |
| 6                            | 3,39   |
| 10                           | 1,95   |
| 16                           | 1,24   |
| 25                           | 0,795  |
| 35                           | 0,565  |
| 50                           | 0,393  |
| 70                           | 0,277  |
| 95                           | 0,210  |
| 120                          | 0,164  |