

# Fire-resistant cables for mounting of auxiliary circuits and earthing circuits

## KZKng-FRHF type



| Design                     |   |
|----------------------------|---|
| Current-carrying conductor | Copper multi-wired (2 <sup>nd</sup> class., 5 <sup>th</sup> class)<br>Tinned conductors on customer's request |
| Fire-resistant barrier     | Mica tape   |
| Insulation                 | Cross-linked oil-resistant halogen-free composition of SHF2 type  |

| Standards IEC 60092-350, IEC 60092-353            |  |
|---|--|
| Materials   | IEC 60228<br>IEC 60092-359                     |
| Flame retardence                                  | IEC 60332-3-22 (A category)<br>and IEC 60332-1 |
| Fire-resistance (working efficiency in the flame) | IEC 60331-21<br>IEC 60331-31                   |
| Absence of halogens                               | IEC 60754-2                                    |
| Small smoke emission                              | IEC 61034-2                                    |
| Current-carrying conductor's heating temperature  | +90 °C   |
| Service life is                                   | 35 years                                       |

Nominal outer diameter and weight of cables of KZKng-FRLS type equal to nominal outer diameter and weight of cables of KZKng-FRHF type.

## Engineering parameters and reference data of the samples (selective cross-section):

| Number and nominal cross-section of the conductors, mm <sup>2</sup> | Cable of KZKng-FRHF type with 2 <sup>nd</sup> class conductors |                          | Cable of KZKng-FRHF type with 5 <sup>th</sup> class of the conductors |                          |
|---|--|--------------------------|---|--------------------------|
|   | Nominal outer diameter, mm                                     | Weight of 1 km cable, kg | Nominal outer diameter, mm  | Weight of 1 km cable, kg |
| 0,5   | 2,7  | 13                       | 2,7   | 13                       |
| 0,75  | 2,9  | 16                       | 3,0   | 16                       |
| 1,0   | 3,3  | 21                       | 3,3   | 21                       |
| 1,5   | 3,6  | 26                       | 3,6   | 27                       |
| 2,5   | 4,0  | 39                       | 4,0   | 37                       |
| 4   | 5,3  | 62                       | 5,4   | 62                       |
| 6   | 5,8  | 82                       | 6,0   | 85                       |
| 10  | 6,8  | 128                      | 7,6   | 131                      |
| 16  | 7,8  | 185                      | 9,0   | 196                      |
| 25  | 9,5  | 285                      | 11,1  | 292                      |
| 35  | 10,6   | 382                      | 12,4  | 386                      |
| 50  | 12,3   | 526                      | 14,2  | 539                      |
| 70  | 14,1   | 716                      | 17,1  | 755                      |
| 95  | 16,0   | 971                      | 17,9  | 958                      |
| 120   | 17,7   | 1201                     | 20,5  | 1225                     |