



# LKAM-FRHF

## Fire-resistant screened power and control cable 0,6/1kV

| DESIGN:  | STANDARDS:                                  |
|--|---|
| 1. Conductor - stranded copper conductor<br>- tinned stranded copper conductor on request  | IEC 60092-353, design<br>IEC 60228, class 2 |
| 2. Insulation - Mica tape<br>- XLPE plastic  | IEC 60092-360                               |
| 3. Cabling / bedding - cabling with optional fillers or dummy cores to obtain symmetrical and round construction   |   |
| 4. Screen - drain wire of tinned copper 1,0mm <sup>2</sup> (in all sizes)<br>- aluminium polyester tape, coverage 100%   | IEC 60092-350                               |
| 5. Rip cord - rip cord for conductors from 16mm <sup>2</sup>   |   |
| 6. Sheath - polyolefine plastic, SHF1, standard colour orange<br>- on request thermosetting polyolefine, SHF2, standard colour black<br>- other colours on request | IEC 60092-360                               |



● Flame-retardant ● Fire-resistant ● Halogen-free ● Low smoke emission ● Oil resistant (only SHF2)

**Application:** For fixed installation in most areas and on open deck in ships and off shore units, especially when lightweight cables are needed. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

### Main characteristics

|                            |   |
|----------------------------|---|
| Rated voltage              | <b>AC 0,6/1kV (1,2kV)</b><br><b>DC 0,9/1,5kV</b> (if voltage to earth does not exceed 0,9kV)  |
| Flame-retardant            | <b>IEC 60332-1-2</b> -test for single insulated wire and cable<br><b>IEC 60332-3-22</b> -test for bunched wires and cables, category A                    |
| Fire-resistant             | <b>IEC 60331-1 or IEC 60331-2</b>   |
| Halogen-free               | <b>IEC 60754</b> series   |
| Smoke emission             | <b>IEC 61034</b> series   |
| Oil resistance (only SHF2) | <b>IEC 60811-404</b> conditions according to 60092-360/SHF2   |
| <b>Temperature rating:</b> | Maximum conductor temperature <b>+ 90 °C</b><br>Fixed installation <b>- 40 °C to +80 °C</b><br>Minimum recommended installation temperature <b>- 15°C</b> |

For details see general information section

| LKAM-FRHF<br>0,6/1kV<br>Part number |        | Number of<br>conductors &<br>cross-section<br>n x mm <sup>2</sup> | Nominal<br>outer<br>diameter<br>mm | Approximate<br>weight<br>kg/km | Current<br>Rating A<br>at +45°C | Min. bending<br>radius fixed<br>installation<br>mm |
|-------------------------------------|--------|---|------------------------------------|--------------------------------|---------------------------------|--|
| Normal                              | G-type |   |                                    |                                |                                 |  |
| 28741                               | -      | 2x1,5   | 9,5                                | 110                            | 20                              | 60   |
| 28743                               | 28744  | 3x1,5   | 10,0                               | 135                            | 16                              | 60   |
| 28747                               | 28748  | 4x1,5   | 11,0                               | 165                            | 16                              | 65   |
| 28751                               | 28752  | 5x1,5   | 12,0                               | 200                            | 13                              | 70   |
| 28755                               | 28756  | 7x1,5   | 13,5                               | 250                            | 12                              | 80   |
| 28759                               | 28760  | 10x1,5  | 17,0                               | 350                            | 11                              | 100  |
| 28763                               | 28764  | 12x1,5  | 17,5                               | 400                            | 10                              | 105  |
| 28767                               | 28768  | 14x1,5  | 18,5                               | 450                            | 10                              | 110  |
| 28771                               | 28772  | 16x1,5  | 19,5                               | 515                            | 9                               | 115  |
| 28775                               | 28776  | 19x1,5  | 20,5                               | 580                            | 9                               | 125  |
| 28779                               | 28780  | 24x1,5  | 24,5                               | 745                            | 8                               | 145  |
| 28783                               | 28784  | 27x1,5  | 25,0                               | 815                            | 8                               | 150  |
| 28787                               | 28788  | 37x1,5  | 28,0                               | 1070                           | 7                               | 170  |
| 28742                               | -      | 2x2,5   | 10,5                               | 140                            | 26                              | 65   |
| 28745                               | 28746  | 3x2,5   | 11,0                               | 175                            | 21                              | 65   |
| 28749                               | 28750  | 4x2,5   | 12,0                               | 215                            | 21                              | 75   |
| 28753                               | 28754  | 5x2,5   | 13,5                               | 270                            | 17                              | 80   |
| 28757                               | 28758  | 7x2,5   | 14,5                               | 335                            | 16                              | 90   |
| 28761                               | 28762  | 10x2,5  | 19,0                               | 485                            | 14                              | 115  |
| 28765                               | 28766  | 12x2,5  | 19,5                               | 555                            | 13                              | 115  |
| 28769                               | 28770  | 14x2,5  | 20,5                               | 630                            | 13                              | 125  |
| 28773                               | 28774  | 16x2,5  | 21,5                               | 705                            | 12                              | 130  |
| 28777                               | 28778  | 19x2,5  | 23,0                               | 825                            | 11                              | 140  |
| 28781                               | 28782  | 24x2,5  | 27,0                               | 1045                           | 10                              | 165  |
| 28785                               | 28786  | 27x2,5  | 28,0                               | 1145                           | 10                              | 165  |
| 28789                               | 28790  | 37x2,5  | 31,5                               | 1515                           | 9                               | 190  |

Other sizes on request.

G-type is with yellow/green earth conductor  
and marking on sheath is, for example, 3G1,5

Part number for oil resistant SHF2 cable:  
4 + code from above table →4xxxxx