

# FLAMEBLOCKER

## NKOXSekw 0,6/1kV

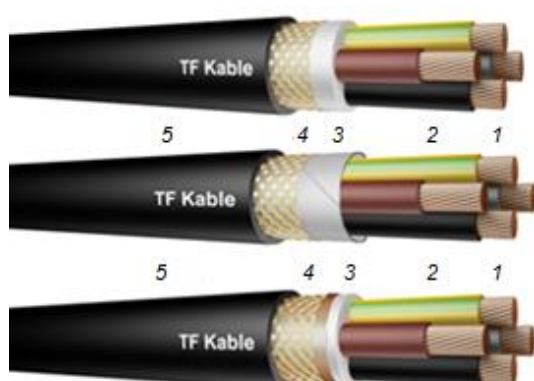
## NKOXSekw EMC 0,6/1kV

IEC 60092-353



Halogen-free shipboard power cables (KO)

with cross-linked polyethylene insulation (XS), halogen-free sheath (N) and screen (ekw) with electromagnetic compatibility protection (EMC)



### CONSTRUCTION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Conductors (1):</b>      | -circular stranded bare or tinned copper class 2 (RM) 1 to 6mm <sup>2</sup><br>- circular compacted stranded bare or tinned copper class 2 (RM) 10 to 300 mm <sup>2</sup><br>- circular stranded bare or tinned copper class 5 (RF)<br>- sector compacted stranded class 2 (SM) 35 to 300 mm <sup>2</sup><br>or sector stranded flex (SF) 70 to 150 mm <sup>2</sup><br>acc. to IEC 60092-350 and IEC 60228 |                                     |
| <b>Insulation (2):</b>      | ≤ 35 mm <sup>2</sup> : cross-linked polyethylene XLPE acc. to IEC 60092-360<br>> 35 mm <sup>2</sup> : cross-linked polyolefin compound HF 90 acc. to IEC 60092-360                                                                                                                                                                                                                                         |                                     |
| <b>Inner covering (3):</b>  | bedding tape or/and extruded layer special flame-retardant, halogen-free compound                                                                                                                                                                                                                                                                                                                          |                                     |
| <b>Screen (4):</b>          | <i>NKOXSekw:</i> copper wire braiding<br><i>NKOXSekw EMC:</i> copper/polyester tape (coverage 100%) & copper wire braid<br>acc. to IEC 60092-350                                                                                                                                                                                                                                                           |                                     |
| <b>Sheath (5):</b>          | halogen free thermoplastic compound type SHF 1 acc. to IEC 60092-360                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Colour of sheath:</b>    | black, grey or other agreed                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Core identification:</b> |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
|                             | <b>Without green-yellow</b>                                                                                                                                                                                                                                                                                                                                                                                | <b>With green-yellow</b>            |
| 1-core:                     | not specified                                                                                                                                                                                                                                                                                                                                                                                              | green-yellow                        |
| 2-core:                     | black, blue                                                                                                                                                                                                                                                                                                                                                                                                | -                                   |
| 3-core:                     | black, blue, brown                                                                                                                                                                                                                                                                                                                                                                                         | green-yellow, black, blue           |
| 4-core:                     | blue, brown, black, grey                                                                                                                                                                                                                                                                                                                                                                                   | green-yellow, black, blue, brown    |
| 5 and more:                 | numbering cores                                                                                                                                                                                                                                                                                                                                                                                            | green-yellow, other cores numbering |

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|                                         |                                 |                                         |
|-----------------------------------------|---------------------------------|-----------------------------------------|
| <b>or acc. to HD 308 S2:</b>            |                                 |                                         |
| 2-core:                                 | blue, brown                     | -                                       |
| 3-core:                                 | brown, black, grey              | green-yellow, blue, brown               |
| 4-core:                                 | blue, brown, black, grey        | green-yellow, brown, black, grey        |
| 5-core:                                 | blue, brown, black, grey, black | green-yellow, blue, brown, black, grey  |
| 6 and more:                             | numbering cores                 | green-yellow, other cores numbering     |
| Other suitable colour codes may be used |                                 | Other suitable colour codes may be used |

| CHARACTERISTIC                                            |                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated voltage <math>U_0/U/ U_m</math>:</b>             | AC 0,6/1 (1,2) kV<br>DC 0,6/1,5 kV                                                                                                                                                                                                                        |
| <b>Test voltage:</b>                                      | 3,5 kV                                                                                                                                                                                                                                                    |
| <b>Maximum conductor operating temperature:</b>           | +90°C                                                                                                                                                                                                                                                     |
| <b>Lowest ambient temperature for fixed installation:</b> | -40°C                                                                                                                                                                                                                                                     |
| <b>Lowest installation temperature:</b>                   | -15°C                                                                                                                                                                                                                                                     |
| <b>Maximum short-circuit conductor temperature:</b>       | +250°C                                                                                                                                                                                                                                                    |
| <b>Minimum bending radius for:</b>                        | <div> <div>NKOXSekw:</div> <div>6 x D for cables with circular copper conductors<br/>and 8 x D for cables with shaped copper conductors;</div> </div> <div> <div>NKOXSekw EMC:</div> <div>8 x D</div> </div> <div>D - overall diameter of the cable</div> |
| <b>Oil resistant:</b>                                     | IRM 902 oil, 4h at 70°C according to IEC 60811-2-1                                                                                                                                                                                                        |

| FIRE PERFORMANCE                        |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Flame retardant:</b>                 | IEC 60332-1-2<br>IEC 60332-3-22 Category A                                                                    |
| <b>Smoke emission:</b>                  | IEC 61034-1<br>IEC 61034-2 min. 60%                                                                           |
| <b>Gases evolved during combustion:</b> | IEC 60754-1: < 0,5%-HCl and HBr<br>IEC 60754-2: pH $\geq$ 4,3; conductivity $\leq$ 10 $\mu$ Smm <sup>-1</sup> |

| APPLICATIONS                                                                                                            |                                                                              |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| For fixed marine installations. Available is also version with EMC ( <i>ElectroMagnetic Compatibility</i> ) protection. |                                                                              |
| <b>Standard length cable packing</b>                                                                                    | 1000m on drums. Other forms of packing and delivery are available on request |

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| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 1x1RF                                        | 6,2                          | 7            | 7,6                  | 66                               | 73           | 95                   |
| 1x1RM                                        | 6,3                          | 7,1          | 7,7                  | 68                               | 75           | 97                   |
| 1x1,5RF                                      | 6,5                          | 7,3          | 7,9                  | 73                               | 79           | 103                  |
| 1x1,5RM                                      | 6,6                          | 7,4          | 8                    | 75                               | 81           | 105                  |
| 1x2,5RF                                      | 7                            | 7,8          | 8,4                  | 91                               | 91           | 123                  |
| 1x2,5RM                                      | 7                            | 7,8          | 8,4                  | 93                               | 93           | 125                  |
| 1x4RF                                        | 7,5                          | 8,3          | 8,9                  | 107                              | 113          | 141                  |
| 1x4RM                                        | 7,5                          | 8,3          | 8,9                  | 110                              | 116          | 144                  |
| 1x6RF                                        | 8                            | 8,8          | 9,6                  | 128                              | 133          | 174                  |
| 1x6RM                                        | 8,1                          | 8,9          | 9,7                  | 133                              | 138          | 180                  |
| 1x10RF                                       | 9,2                          | 10           | 10,6                 | 181                              | 186          | 222                  |
| 1x10RM                                       | 9                            | 9,8          | 10,4                 | 184                              | 188          | 223                  |
| 1x16RF                                       | 10,3                         | 11,1         | 11,7                 | 246                              | 250          | 291                  |
| 1x16RM                                       | 10                           | 10,8         | 11,4                 | 250                              | 254          | 294                  |
| 1x25RF                                       | 12,9                         | 13,1         | 13,7                 | 377                              | 357          | 416                  |
| 1x25RM                                       | 12,7                         | 12,9         | 13,5                 | 390                              | 370          | 428                  |
| 1x35RF                                       | 13,9                         | 14,1         | 14,7                 | 481                              | 459          | 514                  |
| 1x35RM                                       | 13,8                         | 14           | 14,6                 | 496                              | 474          | 528                  |
| 1x50RF                                       | 16,6                         | 16,8         | 17,4                 | 716                              | 689          | 753                  |
| 1x50RM                                       | 16,1                         | 16,3         | 16,9                 | 688                              | 663          | 744                  |
| 1x70RF                                       | 18,8                         | 19           | 19,6                 | 931                              | 900          | 994                  |
| 1x70RM                                       | 17,8                         | 18           | 18,6                 | 926                              | 897          | 966                  |
| 1x95RF                                       | 20,9                         | 21,1         | 21,7                 | 1171                             | 1134         | 1219                 |
| 1x95RM                                       | 19,8                         | 20           | 20,6                 | 1208                             | 1174         | 1253                 |
| 1x120RF                                      | 22,4                         | 22,6         | 23,2                 | 1443                             | 1404         | 1495                 |
| 1x120RM                                      | 21,6                         | 21,8         | 22,4                 | 1467                             | 1429         | 1536                 |
| 1x150RF                                      | 24,8                         | 25           | 25,6                 | 1750                             | 1726         | 1827                 |
| 1x150RM                                      | 23,6                         | 23,8         | 24,4                 | 1784                             | 1742         | 1838                 |
| 1x185RF                                      | 27,5                         | 27,7         | 28,5                 | 2100                             | 2078         | 2207                 |
| 1x185RM                                      | 25,7                         | 25,9         | 26,7                 | 2175                             | 2129         | 2247                 |
| 1x240RF                                      | 29,4                         | 29,6         | 30,2                 | 2658                             | 2604         | 2727                 |
| 1x240RM                                      | 28,6                         | 28,8         | 29,4                 | 2766                             | 2714         | 2833                 |
| 1x300RF                                      | 33,4                         | 33,6         | 34,2                 | 3281                             | 3217         | 3359                 |
| 1x300RM                                      | 30,8                         | 31           | 31,6                 | 3369                             | 3312         | 3441                 |
| 2x1RF                                        | 9                            | 9,8          | 10,4                 | 128                              | 117          | 168                  |

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| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 2x1RM                                        | 9,1                          | 9,9          | 10,5                 | 131                              | 119          | 172                  |
| 2x1,5RF                                      | 9,6                          | 10,4         | 11                   | 151                              | 130          | 194                  |
| 2x1,5RM                                      | 9,7                          | 10,5         | 11,1                 | 156                              | 133          | 198                  |
| 2x2,5RF                                      | 10,6                         | 11,4         | 12                   | 184                              | 160          | 236                  |
| 2x2,5RM                                      | 10,6                         | 11,4         | 12                   | 188                              | 163          | 240                  |
| 2x4RF                                        | 11,7                         | 12,5         | 13,1                 | 236                              | 203          | 286                  |
| 2x4RM                                        | 11,8                         | 12,6         | 13,2                 | 244                              | 210          | 303                  |
| 2x6RF                                        | 12,9                         | 13,7         | 14,3                 | 297                              | 254          | 355                  |
| 2x6RM                                        | 12,9                         | 13,7         | 14,3                 | 307                              | 264          | 365                  |
| 2x10RF                                       | 15,3                         | 16,1         | 16,7                 | 461                              | 387          | 537                  |
| 2x10RM                                       | 15                           | 15,8         | 16,4                 | 462                              | 392          | 537                  |
| 2x16RF                                       | 17,8                         | 18,6         | 19,2                 | 643                              | 535          | 730                  |
| 2x16RM                                       | 17,2                         | 18           | 18,6                 | 641                              | 543          | 706                  |
| 2x25RF                                       | 22,1                         | 22,1         | 22,9                 | 975                              | 842          | 1026                 |
| 2x25RM                                       | 21,8                         | 21,8         | 22,6                 | 974                              | 846          | 1044                 |
| 2x35RF                                       | 24,4                         | 24,4         | 25,2                 | 1224                             | 1062         | 1300                 |
| 2x35RM                                       | 24,1                         | 24,1         | 24,9                 | 1246                             | 1089         | 1322                 |
| 2x50RF                                       | 28,6                         | 28,6         | 29,4                 | 1719                             | 1498         | 1786                 |
| 2x50RM                                       | 27,5                         | 27,5         | 28,3                 | 1643                             | 1439         | 1737                 |
| 3x1RF                                        | 9,4                          | 10,2         | 10,8                 | 140                              | 132          | 187                  |
| 3x1RM                                        | 9,6                          | 10,4         | 11                   | 150                              | 135          | 193                  |
| 3x1,5RF                                      | 10                           | 10,8         | 11,4                 | 167                              | 155          | 211                  |
| 3x1,5RM                                      | 10,2                         | 11           | 11,6                 | 173                              | 160          | 218                  |
| 3x2,5RF                                      | 11,1                         | 11,9         | 12,7                 | 213                              | 195          | 268                  |
| 3x2,5RM                                      | 11,1                         | 11,9         | 12,7                 | 219                              | 200          | 273                  |
| 3x4RF                                        | 12,3                         | 13,1         | 13,7                 | 277                              | 246          | 333                  |
| 3x4RM                                        | 12,4                         | 13,2         | 13,8                 | 289                              | 265          | 345                  |
| 3x6RF                                        | 13,5                         | 14,3         | 15,5                 | 357                              | 315          | 455                  |
| 3x6RM                                        | 13,6                         | 14,4         | 15,6                 | 372                              | 329          | 471                  |
| 3x10RF                                       | 16,1                         | 16,9         | 17,5                 | 545                              | 505          | 625                  |
| 3x10RM                                       | 15,8                         | 16,6         | 17,2                 | 552                              | 514          | 630                  |
| 3x16RF                                       | 18,8                         | 19,6         | 20,2                 | 776                              | 707          | 866                  |
| 3x16RM                                       | 18,2                         | 19           | 19,6                 | 781                              | 720          | 869                  |
| 3x25RF                                       | 23,4                         | 23,4         | 24,4                 | 1179                             | 1062         | 1245                 |
| 3x25RM                                       | 23                           | 23           | 24                   | 1212                             | 1099         | 1277                 |
| 3x35RF                                       | 25,8                         | 25,8         | 26,8                 | 1526                             | 1385         | 1599                 |

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| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 3x35RM                                       | 25,5                         | 25,5         | 26,5                 | 1566                             | 1428         | 1638                 |
| 3x50RF                                       | 30,5                         | 30,5         | 31,3                 | 2150                             | 1957         | 2221                 |
| 3x50RM                                       | 29,3                         | 29,3         | 30,1                 | 2105                             | 1926         | 2173                 |
| 3x70RF                                       | 35,2                         | 35           | 36,2                 | 2918                             | 2644         | 3047                 |
| 3x70RM                                       | 33                           | 32,8         | 34                   | 2856                             | 2619         | 2949                 |
| 3x70SF                                       | 31                           | 30,8         | 32                   | 2913                             | 2466         | 3001                 |
| 3x70SM                                       | 29,5                         | 29,3         | 30,5                 | 2829                             | 2448         | 2912                 |
| 3x95RF                                       | 39,9                         | 39,7         | 41,1                 | 3733                             | 3380         | 3895                 |
| 3x95RM                                       | 37,4                         | 37,2         | 38,6                 | 3781                             | 3475         | 3905                 |
| 3x95SF                                       | 33,8                         | 33,6         | 35                   | 3682                             | 3143         | 3794                 |
| 3x95SM                                       | 32,6                         | 32,4         | 33,8                 | 3738                             | 3248         | 3846                 |
| 3x120RF                                      | 43,5                         | 43,3         | 44,5                 | 4734                             | 4335         | 4857                 |
| 3x120RM                                      | 41,7                         | 41,5         | 42,7                 | 4760                             | 4394         | 4930                 |
| 3x120SF                                      | 38,3                         | 38,1         | 39,3                 | 4773                             | 4067         | 4880                 |
| 3x120SM                                      | 36,3                         | 36,1         | 37,3                 | 4702                             | 4095         | 4856                 |
| 3x150RF                                      | 49,2                         | 48,6         | 50,2                 | 5916                             | 5365         | 6055                 |
| 3x150RM                                      | 46,5                         | 45,7         | 47,5                 | 5875                             | 5367         | 6059                 |
| 3x150SF                                      | 42,9                         | 42,1         | 43,9                 | 6000                             | 5053         | 6121                 |
| 3x150SM                                      | 40,8                         | 40           | 41,8                 | 5859                             | 5024         | 5973                 |
| 3x185RF                                      | 55                           | 54,4         | 56,2                 | 7184                             | 6501         | 7368                 |
| 3x185RM                                      | 51,2                         | 50,6         | 52,4                 | 7218                             | 6630         | 7388                 |
| 3x240RF                                      | 59,2                         | 58,4         | 60,6                 | 8968                             | 8153         | 9206                 |
| 3x240RM                                      | 57,6                         | 56,8         | 59                   | 9220                             | 8460         | 9443                 |
| 4x1RF                                        | 10,1                         | 10,9         | 11,5                 | 162                              | 154          | 207                  |
| 4x1RM                                        | 10,2                         | 11           | 11,6                 | 167                              | 158          | 212                  |
| 4x1,5RF                                      | 10,8                         | 11,6         | 12,4                 | 195                              | 176          | 248                  |
| 4x1,5RM                                      | 10,9                         | 11,7         | 12,5                 | 202                              | 183          | 255                  |
| 4x2,5RF                                      | 12,2                         | 13           | 13,6                 | 257                              | 232          | 312                  |
| 4x2,5RM                                      | 12,2                         | 13           | 13,6                 | 264                              | 239          | 320                  |
| 4x4RF                                        | 13,3                         | 14,1         | 15,3                 | 332                              | 300          | 429                  |
| 4x4RM                                        | 13,4                         | 14,2         | 15,4                 | 346                              | 313          | 444                  |
| 4x6RF                                        | 15,3                         | 16,1         | 16,7                 | 468                              | 426          | 544                  |
| 4x6RM                                        | 15,4                         | 16,2         | 16,8                 | 487                              | 464          | 564                  |
| 4x10RF                                       | 17,7                         | 18,5         | 19,1                 | 676                              | 616          | 762                  |
| 4x10RM                                       | 17,3                         | 18,1         | 18,7                 | 685                              | 629          | 750                  |
| 4x16RF                                       | 20,7                         | 21,5         | 22,1                 | 962                              | 874          | 1060                 |

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| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 4x16RM                                       | 20                           | 20,8         | 21,4                 | 973                              | 893          | 1048                 |
| 4x25RF                                       | 25,7                         | 25,7         | 26,5                 | 1465                             | 1343         | 1525                 |
| 4x25RM                                       | 25,3                         | 25,3         | 26,1                 | 1512                             | 1393         | 1571                 |
| 4x35RF                                       | 28,4                         | 28,4         | 29,2                 | 1916                             | 1769         | 1983                 |
| 4x35RM                                       | 28                           | 28           | 28,8                 | 1971                             | 1830         | 2037                 |
| 4x50RF                                       | 33,6                         | 33,6         | 34,4                 | 2705                             | 2506         | 2784                 |
| 4x50RM                                       | 32,2                         | 32,2         | 33                   | 2653                             | 2471         | 2728                 |
| 4x70RF                                       | 38,8                         | 38,6         | 39,8                 | 3679                             | 3398         | 3790                 |
| 4x70RM                                       | 36,4                         | 36,2         | 37,4                 | 3615                             | 3368         | 3718                 |
| 4x70SF                                       | 35,2                         | 35           | 36,2                 | 3670                             | 3210         | 3799                 |
| 4x70SM                                       | 33,2                         | 33           | 34,2                 | 3581                             | 3186         | 3675                 |
| 4x95RF                                       | 44,7                         | 44,5         | 45,7                 | 4864                             | 4507         | 4991                 |
| 4x95RM                                       | 41,9                         | 41,7         | 42,9                 | 4949                             | 4581         | 5067                 |
| 4x95SF                                       | 38,9                         | 38,7         | 39,9                 | 4794                             | 4226         | 4903                 |
| 4x95SM                                       | 37,4                         | 37,2         | 38,4                 | 4885                             | 4365         | 4989                 |
| 4x120RF                                      | 48,3                         | 47,7         | 49,5                 | 6027                             | 5572         | 6188                 |
| 4x120RM                                      | 46,3                         | 45,7         | 47,5                 | 6095                             | 5678         | 6301                 |
| 4x120SF                                      | 43,6                         | 43           | 44,8                 | 6041                             | 5289         | 6185                 |
| 4x120SM                                      | 41,7                         | 41,1         | 42,9                 | 6035                             | 5360         | 6225                 |
| 4x150RF                                      | 54,2                         | 53,6         | 55,4                 | 7468                             | 6904         | 7649                 |
| 4x150RM                                      | 51,2                         | 50,6         | 52,4                 | 7461                             | 6957         | 7632                 |
| 4x150SF                                      | 48,2                         | 47,6         | 49,4                 | 7547                             | 6548         | 7707                 |
| 4x150SM                                      | 46                           | 45,4         | 47,2                 | 7418                             | 6584         | 7570                 |
| 4x185RF                                      | 60,9                         | 60,3         | 61,9                 | 9071                             | 8366         | 9255                 |
| 4x185RM                                      | 56,7                         | 56,1         | 57,7                 | 9207                             | 8603         | 9368                 |
| 4x240RF                                      | 65,8                         | 65           | 67                   | 11452                            | 10618        | 11683                |
| 4x240RM                                      | 64                           | 63,2         | 65,2                 | 11800                            | 11010        | 12025                |
| 5x1RF                                        | 10,8                         | 11,6         | 12,4                 | 190                              | 174          | 243                  |
| 5x1RM                                        | 11                           | 11,8         | 12,6                 | 197                              | 186          | 250                  |
| 5x1,5RF                                      | 11,8                         | 12,6         | 13,2                 | 228                              | 215          | 288                  |
| 5x1,5RM                                      | 12                           | 12,8         | 13,4                 | 243                              | 223          | 298                  |
| 5x2,5RF                                      | 13,1                         | 13,9         | 14,5                 | 297                              | 280          | 356                  |
| 5x2,5RM                                      | 13,2                         | 14           | 14,6                 | 316                              | 289          | 366                  |
| 5x4RF                                        | 15                           | 15,8         | 16,4                 | 435                              | 402          | 511                  |
| 5x4RM                                        | 15,2                         | 16           | 16,6                 | 454                              | 419          | 530                  |
| 5x6RF                                        | 16,6                         | 17,4         | 18,2                 | 566                              | 522          | 637                  |

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IEC 60092-353



| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 5x6RM                                        | 16,7                         | 17,5         | 18,3                 | 591                              | 546          | 662                  |
| 5x10RF                                       | 19,2                         | 20           | 20,8                 | 819                              | 756          | 901                  |
| 5x10RM                                       | 18,8                         | 19,6         | 20,4                 | 812                              | 772          | 912                  |
| 5x16RF                                       | 22,6                         | 23,4         | 24                   | 1171                             | 1079         | 1256                 |
| 5x16RM                                       | 21,7                         | 22,5         | 23,1                 | 1163                             | 1099         | 1265                 |
| 5x25RF                                       | 28,2                         | 28,2         | 29                   | 1793                             | 1610         | 1860                 |
| 5x25RM                                       | 27,7                         | 27,7         | 28,5                 | 1852                             | 1675         | 1917                 |
| 5x35RF                                       | 31,2                         | 31,2         | 32                   | 2317                             | 2092         | 2420                 |
| 5x35RM                                       | 30,8                         | 30,8         | 31,6                 | 2386                             | 2167         | 2459                 |
| 5x50RF                                       | 37,1                         | 36,9         | 38,1                 | 3329                             | 3000         | 3434                 |
| 5x50RM                                       | 35,6                         | 35,4         | 36,6                 | 3236                             | 2935         | 3366                 |
| 5x70RF                                       | 43,3                         | 43,1         | 44,3                 | 4660                             | 4222         | 4782                 |
| 5x70RM                                       | 40,6                         | 40,4         | 41,6                 | 4530                             | 4149         | 4644                 |
| 6x1,5RF                                      | 12,7                         | 13,5         | 14,1                 | 264                              | 252          | 321                  |
| 6x1,5RM                                      | 12,9                         | 13,7         | 14,3                 | 275                              | 262          | 333                  |
| 6x2,5RF                                      | 14,7                         | 15,5         | 16,1                 | 394                              | 366          | 449                  |
| 6x2,5RM                                      | 14,8                         | 15,6         | 16,2                 | 406                              | 378          | 481                  |
| 7x1RF                                        | 11,8                         | 12,6         | 13,2                 | 222                              | 212          | 282                  |
| 7x1RM                                        | 12                           | 12,8         | 13,4                 | 237                              | 219          | 291                  |
| 7x1,5RF                                      | 12,7                         | 13,5         | 14,1                 | 270                              | 258          | 328                  |
| 7x1,5RM                                      | 12,9                         | 13,7         | 14,3                 | 282                              | 269          | 340                  |
| 7x2,5RF                                      | 14,7                         | 15,5         | 16,1                 | 406                              | 378          | 461                  |
| 7x2,5RM                                      | 14,8                         | 15,6         | 16,2                 | 420                              | 392          | 494                  |
| 8x1,5RF                                      | 14                           | 14,8         | 15,4                 | 348                              | 326          | 400                  |
| 8x1,5RM                                      | 14,2                         | 15           | 15,6                 | 362                              | 339          | 415                  |
| 9x1,5RF                                      | 14,9                         | 15,7         | 16,3                 | 383                              | 350          | 459                  |
| 9x1,5RM                                      | 15,1                         | 15,9         | 16,5                 | 399                              | 364          | 475                  |
| 10x1RF                                       | 15                           | 15,8         | 16,4                 | 350                              | 322          | 426                  |
| 10x1RM                                       | 15,3                         | 16,1         | 16,7                 | 363                              | 333          | 439                  |
| 10x1,5RF                                     | 16,2                         | 17           | 17,8                 | 431                              | 396          | 500                  |
| 10x1,5RM                                     | 16,4                         | 17,2         | 18                   | 448                              | 411          | 518                  |
| 10x2,5RF                                     | 18,3                         | 19,1         | 19,7                 | 556                              | 529          | 645                  |
| 10x2,5RM                                     | 18,4                         | 19,2         | 19,8                 | 576                              | 548          | 664                  |
| 12x1RF                                       | 15,4                         | 16,2         | 16,8                 | 375                              | 369          | 452                  |

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# FLAMEBLOCKER

## NKOXSekw 0,6/1kV

## NKOXSekw EMC 0,6/1kV

IEC 60092-353



| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 12x1RM                                       | 15,7                         | 16,5         | 17,1                 | 389                              | 381          | 468                  |
| 12x1,5RF                                     | 16,8                         | 17,6         | 18,2                 | 473                              | 440          | 535                  |
| 12x1,5RM                                     | 17,1                         | 17,9         | 18,5                 | 493                              | 459          | 557                  |
| 12x2,5RF                                     | 18,8                         | 19,6         | 20,2                 | 608                              | 584          | 699                  |
| 12x2,5RM                                     | 18,9                         | 19,7         | 20,3                 | 631                              | 607          | 722                  |
| 14x1,5RF                                     | 17,6                         | 18,4         | 19                   | 513                              | 480          | 599                  |
| 14x1,5RM                                     | 17,9                         | 18,7         | 19,3                 | 536                              | 502          | 623                  |
| 16x1RF                                       | 17                           | 17,8         | 18,4                 | 467                              | 440          | 531                  |
| 16x1RM                                       | 17,3                         | 18,1         | 18,7                 | 486                              | 457          | 550                  |
| 16x1,5RF                                     | 18,4                         | 19,2         | 19,8                 | 559                              | 544          | 647                  |
| 16x1,5RM                                     | 18,7                         | 19,5         | 20,1                 | 585                              | 569          | 675                  |
| 16x2,5RF                                     | 20,9                         | 21,7         | 22,3                 | 765                              | 720          | 864                  |
| 16x2,5RM                                     | 20,9                         | 21,7         | 22,3                 | 794                              | 749          | 893                  |
| 19x1RF                                       | 17,8                         | 18,6         | 19,2                 | 508                              | 479          | 594                  |
| 19x1RM                                       | 18,2                         | 19           | 19,6                 | 529                              | 518          | 617                  |
| 19x1,5RF                                     | 19,5                         | 20,3         | 20,9                 | 642                              | 607          | 715                  |
| 19x1,5RM                                     | 19,8                         | 20,6         | 21,2                 | 672                              | 635          | 747                  |
| 19x2,5RF                                     | 21,9                         | 22,7         | 23,5                 | 866                              | 818          | 960                  |
| 19x2,5RM                                     | 22                           | 22,8         | 23,6                 | 902                              | 854          | 996                  |
| 20x1RF                                       | 18,5                         | 19,3         | 19,9                 | 532                              | 516          | 621                  |
| 20x1RM                                       | 19                           | 19,8         | 20,4                 | 575                              | 538          | 647                  |
| 20x1,5RF                                     | 20,4                         | 21,2         | 21,8                 | 674                              | 631          | 771                  |
| 20x1,5RM                                     | 20,7                         | 21,5         | 22,1                 | 706                              | 661          | 804                  |
| 20x2,5RF                                     | 23,1                         | 23,9         | 24,5                 | 922                              | 864          | 1029                 |
| 20x2,5RM                                     | 23,2                         | 24           | 24,6                 | 959                              | 901          | 1067                 |
| 24x1RF                                       | 20,5                         | 21,3         | 21,9                 | 629                              | 590          | 726                  |
| 24x1RM                                       | 21                           | 21,8         | 22,4                 | 657                              | 634          | 756                  |
| 24x1,5RF                                     | 22,6                         | 23,4         | 24                   | 794                              | 745          | 880                  |
| 24x1,5RM                                     | 23                           | 23,8         | 24,4                 | 833                              | 782          | 920                  |
| 24x2,5RF                                     | 25,7                         | 26,5         | 27,1                 | 1086                             | 1021         | 1184                 |
| 24x2,5RM                                     | 25,7                         | 26,5         | 27,1                 | 1130                             | 1065         | 1228                 |
| 27x1RF                                       | 20,9                         | 21,7         | 22,3                 | 668                              | 630          | 766                  |
| 27x1RM                                       | 21,4                         | 22,2         | 22,8                 | 697                              | 677          | 798                  |
| 27x1,5RF                                     | 23                           | 23,8         | 24,4                 | 846                              | 799          | 933                  |

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## NKOXSekw 0,6/1kV

## NKOXSekw EMC 0,6/1kV

IEC 60092-353



| Number and cross-sectional area of conductor | Approximate overall diameter |              |                      | Approximate net weight of cables |              |                      |
|----------------------------------------------|------------------------------|--------------|----------------------|----------------------------------|--------------|----------------------|
|                                              | extruded bedding             | tape bedding | extruded bedding EMC | extruded bedding                 | tape bedding | extruded bedding EMC |
| <i>n x mm<sup>2</sup></i>                    | <i>mm</i>                    |              |                      | <i>kg/km</i>                     |              |                      |
| 27x1,5RM                                     | 23,4                         | 24,2         | 24,8                 | 889                              | 840          | 997                  |
| 27x2,5RF                                     | 26,2                         | 27           | 27,6                 | 1165                             | 1103         | 1294                 |
| 27x2,5RM                                     | 26,3                         | 27,1         | 27,7                 | 1216                             | 1153         | 1345                 |
| 30x1RF                                       | 21,6                         | 22,4         | 23,2                 | 711                              | 692          | 823                  |
| 30x1RM                                       | 22,1                         | 22,9         | 23,7                 | 763                              | 722          | 857                  |
| 30x1,5RF                                     | 23,8                         | 24,6         | 25,2                 | 904                              | 876          | 1014                 |
| 30x1,5RM                                     | 24,2                         | 25           | 25,6                 | 951                              | 921          | 1062                 |
| 30x2,5RF                                     | 27,1                         | 27,9         | 28,5                 | 1252                             | 1219         | 1384                 |
| 30x2,5RM                                     | 27,1                         | 27,9         | 28,5                 | 1307                             | 1273         | 1439                 |
| 37x1RF                                       | 23,3                         | 24,1         | 24,7                 | 842                              | 801          | 950                  |
| 37x1RM                                       | 23,9                         | 24,7         | 25,3                 | 882                              | 858          | 992                  |
| 37x1,5RF                                     | 25,7                         | 26,5         | 27,1                 | 1071                             | 1021         | 1169                 |
| 37x1,5RM                                     | 26,1                         | 26,9         | 27,5                 | 1128                             | 1076         | 1256                 |
| 37x2,5RF                                     | 29,3                         | 30,1         | 30,7                 | 1499                             | 1432         | 1610                 |
| 37x2,5RM                                     | 29,3                         | 30,1         | 30,7                 | 1566                             | 1500         | 1678                 |

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## NKOXSekw 0,6/1kV

## NKOXSekw EMC 0,6/1kV



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### Electrical data

| Conductor class 2          |                           |                            |                            |                            | Conductor class 5         |                            |                          |                            |
|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|--------------------------|----------------------------|
| Bare copper                |                           |                            | Tinned copper              |                            | Bare copper               |                            | Tinned copper            |                            |
| Cross-section of conductor | Maximum resistance at 20° | Maximum resistance at 90°C | Maximum resistance at 20°C | Maximum resistance at 90°C | Maximum resistance at 20° | Maximum resistance at 90°C | Maximum resistance at 20 | Maximum resistance at 90°C |
| $mm^2$                     | $R_{20}$                  | $R_{90}$                   | $R_{20}$                   | $R_{90}$                   | $R_{20}$                  | $R_{90}$                   | $R_{20}$                 | $R_{90}$                   |
|                            | $\Omega/km$               | $\Omega/km$                | $\Omega/km$                | $\Omega/km$                | $\Omega/km$               | $\Omega/km$                | $\Omega/km$              | $\Omega/km$                |
| 1                          | 18,1                      | 23,1                       | 18,2                       | 23,2                       | 19,5                      | 24,9                       | 20,0                     | 25,5                       |
| 1,5                        | 12,1                      | 15,4                       | 12,2                       | 15,6                       | 13,3                      | 17,0                       | 13,7                     | 17,5                       |
| 2,5                        | 7,41                      | 9,45                       | 7,56                       | 9,64                       | 7,98                      | 10,2                       | 8,21                     | 10,47                      |
| 4                          | 4,61                      | 5,88                       | 4,70                       | 5,99                       | 4,95                      | 6,3                        | 5,09                     | 6,49                       |
| 6                          | 3,08                      | 3,93                       | 3,11                       | 3,97                       | 3,30                      | 4,2                        | 3,39                     | 4,32                       |
| 10                         | 1,83                      | 2,33                       | 1,84                       | 2,35                       | 1,91                      | 2,4                        | 1,95                     | 2,49                       |
| 16                         | 1,15                      | 1,47                       | 1,16                       | 1,48                       | 1,21                      | 1,5                        | 1,24                     | 1,58                       |
| 25                         | 0,727                     | 0,927                      | 0,734                      | 0,936                      | 0,78                      | 0,995                      | 0,795                    | 1,014                      |
| 35                         | 0,524                     | 0,668                      | 0,529                      | 0,675                      | 0,554                     | 0,706                      | 0,565                    | 0,720                      |
| 50                         | 0,387                     | 0,493                      | 0,391                      | 0,499                      | 0,386                     | 0,492                      | 0,393                    | 0,501                      |
| 70                         | 0,268                     | 0,342                      | 0,270                      | 0,344                      | 0,272                     | 0,347                      | 0,277                    | 0,353                      |
| 95                         | 0,193                     | 0,249                      | 0,195                      | 0,249                      | 0,206                     | 0,263                      | 0,210                    | 0,268                      |
| 120                        | 0,153                     | 0,195                      | 0,154                      | 0,196                      | 0,161                     | 0,205                      | 0,164                    | 0,209                      |
| 150                        | 0,124                     | 0,158                      | 0,126                      | 0,161                      | 0,129                     | 0,164                      | 0,132                    | 0,168                      |
| 185                        | 0,0991                    | 0,1264                     | 0,100                      | 0,128                      | 0,106                     | 0,135                      | 0,108                    | 0,138                      |
| 240                        | 0,0754                    | 0,0961                     | 0,0762                     | 0,0972                     | 0,0801                    | 0,1021                     | 0,0817                   | 0,1042                     |
| 300                        | 0,0601                    | 0,0766                     | 0,0607                     | 0,0774                     | 0,0641                    | 0,0817                     | 0,0654                   | 0,0834                     |

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# FLAMEBLOCKER

## NKOSekw 0,6/1kV

## NKOSekw EMC 0,6/1kV



IEC 60092-353

### Current ratings

Current ratings acc. to IEC 60092-352 based on ambient air temperature of 45°C

| Nominal cross-sectional area<br>mm <sup>2</sup> | Insulation class temperature 90°C |         |                   |
|-------------------------------------------------|-----------------------------------|---------|-------------------|
|                                                 | 1-core                            | 2-cores | 3-cores & 4-cores |
|                                                 | A                                 | A       | A                 |
| 1                                               | 18                                | 15      | 13                |
| 1,5                                             | 23                                | 20      | 16                |
| 2,5                                             | 40                                | 26      | 21                |
| 4                                               | 51                                | 34      | 28                |
| 6                                               | 52                                | 44      | 36                |
| 10                                              | 72                                | 61      | 50                |
| 16                                              | 96                                | 82      | 67                |
| 25                                              | 127                               | 108     | 89                |
| 35                                              | 157                               | 133     | 110               |
| 50                                              | 196                               | 167     | 137               |
| 70                                              | 242                               | 206     | 169               |
| 95                                              | 293                               | 249     | 205               |
| 120                                             | 339                               | 288     | 237               |
| 150                                             | 389                               | 331     | 272               |
| 185                                             | 444                               | 377     | 311               |
| 240                                             | 522                               | 444     | 365               |
| 300                                             | 601                               | 511     | 421               |

Current ratings for more than 4-core cables:

| Number of cores | Nominal cross-sectional area of conductor |                    |                    |
|-----------------|-------------------------------------------|--------------------|--------------------|
|                 | 1mm <sup>2</sup>                          | 1,5mm <sup>2</sup> | 2,5mm <sup>2</sup> |
|                 | A                                         | A                  | A                  |
| 5               | 10,5                                      | 12                 | 16                 |
| 7               | 9                                         | 10                 | 15                 |
| 10              | 8                                         | 9                  | 13                 |
| 12              | 8                                         | 9                  | 12                 |
| 16              | 7                                         | 8                  | 11                 |
| 19              | 7                                         | 7                  | 10                 |
| 20              | 7                                         | 7                  | 10                 |
| 24              | 6                                         | 6,5                | 9,5                |
| 27              | 6                                         | 6,5                | 9                  |
| 30              | 6                                         | 6                  | 9                  |
| 37              | 5                                         | 6                  | 8                  |

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## NKOXSekw 0,6/1kV

## NKOXSekw EMC 0,6/1kV



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### Correction factors for different ambient air temperatures

The ambient temperature of 45°C, on which the current ratings are based, is considered as a standard value for the ambient air temperature, generally applicable for any kind of ship and for navigation in any climate.

Correction factors for various ambient air temperatures

| Maximum conductor temperature | 90°C |      |      |      |      |      |      |      |      |      |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|
| Ambient temperature °C        | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| Correction factors            | 1,10 | 1,05 | 1,00 | 0,94 | 0,88 | 0,82 | 0,74 | 0,67 | 0,58 | 0,47 |

### Correction factors for cable grouping

Where more than six bunched cables on cable trays, in cable conduits, pipes or trunking are expected to operate simultaneously full rated capacity, a correction factor of 0,85 should be applied.

### Short circuit ratings

| Cross-section, mm <sup>2</sup>                     | 1    | 1,5  | 2,5  | 4    | 6    | 10   | 16   | 25   | 35   | 50   | 70    | 95    | 120   | 150   | 185   | 240   | 300   |
|----------------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Maximum short circuit current rating for 1s, in kA | 0,14 | 0,21 | 0,36 | 0,57 | 0,86 | 1,43 | 2,29 | 3,58 | 5,01 | 7,15 | 10,01 | 13,59 | 17,16 | 21,45 | 26,46 | 34,32 | 42,9  |
| Maximum short circuit current rating for 3s, in kA | 0,08 | 0,12 | 0,21 | 0,33 | 0,5  | 0,83 | 1,32 | 2,06 | 2,89 | 4,13 | 5,78  | 7,84  | 9,91  | 12,38 | 15,27 | 19,81 | 24,77 |
| Maximum short circuit current rating for 5s, in kA | 0,06 | 0,1  | 0,16 | 0,26 | 0,38 | 0,64 | 1,02 | 1,6  | 2,24 | 3,2  | 4,48  | 6,08  | 7,67  | 9,59  | 11,83 | 15,35 | 19,19 |

For 0,6/1 kV cable and maximum normal operating temperature +90 °C, short circuit temperature up to 250 °C.

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