

# FLAMEBLOCKER

## NKOXS 0,6/1kV

IEC 60092-353



Halogen-free shipboard power cables (KO)  
with cross-linked polyethylene insulation (XS) and halogen-free sheath (N)



### 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>Sheath (4):</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:                  | white with black numbering                                                                                                                                                                                                                                                                                                                                                                                 | green-yellow, others cores white with black numbering |
| <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                   |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 0,6/1kV

IEC 60092-353



|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Other suitable colour codes may be used | Other suitable colour codes may be used |
|-----------------------------------------|-----------------------------------------|

| CHARACTERISTIC                                              |                                                    |
|-------------------------------------------------------------|----------------------------------------------------|
| Rated voltage $U_0/U/ U_m$ :                                | AC 0,6/1 (1,2) kV<br>DC 0,9/1,5 kV                 |
| Test voltage:                                               | 3,5 kV                                             |
| Maximum conductor operating temperature:                    | +90°C                                              |
| Lowest ambient temperature for fixed installation:          | -40°C                                              |
| Lowest installation temperature:                            | -15°C                                              |
| Maximum short-circuit conductor temperature:                | +250°C                                             |
| Minimum bending radius for cable with overall diameter (D): | D ≤ 25 mm 4D<br>D > 25 mm 6D                       |
| Oil resistant:                                              | IRM 902 oil, 4h at 70°C according to IEC 60811-2-1 |

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

| APPLICATIONS                    |                                                                              |
|---------------------------------|------------------------------------------------------------------------------|
| For fixed marine installations. |                                                                              |
| Standard length cable packing   | 1000m on drums. Other forms of packing and delivery are available on request |

| Number and cross-sectional area of conductor | Approximate overall diameter |              | Approximate net weight of cables |              |
|----------------------------------------------|------------------------------|--------------|----------------------------------|--------------|
|                                              | extruded bedding             | tape bedding | extruded bedding                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 1x1RF                                        | 4,6                          | 4,6          | 29                               | 29           |
| 1x1RM                                        | 4,7                          | 4,7          | 31                               | 31           |
| 1x1,5RF                                      | 4,9                          | 4,9          | 35                               | 35           |
| 1x1,5RM                                      | 5                            | 5            | 37                               | 37           |
| 1x2,5RF                                      | 5,4                          | 5,4          | 47                               | 47           |
| 1x2,5RM                                      | 5,4                          | 5,4          | 49                               | 49           |
| 1x4RF                                        | 5,9                          | 5,9          | 62                               | 62           |
| 1x4RM                                        | 5,9                          | 5,9          | 65                               | 65           |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 1x6RF                                        | 6,4                          | 6,4          | 82                               | 82           |
| 1x6RM                                        | 6,5                          | 6,5          | 87                               | 87           |
| 1x10RF                                       | 7,4                          | 7,4          | 123                              | 123          |
| 1x10RM                                       | 7,2                          | 7,2          | 126                              | 126          |
| 1x16RF                                       | 8,7                          | 8,7          | 184                              | 184          |
| 1x16RM                                       | 8,4                          | 8,4          | 188                              | 188          |
| 1x25RF                                       | 10,5                         | 10,5         | 276                              | 276          |
| 1x25RM                                       | 10,3                         | 10,3         | 289                              | 289          |
| 1x35RF                                       | 11,7                         | 11,7         | 373                              | 373          |
| 1x35RM                                       | 11,6                         | 11,6         | 389                              | 389          |
| 1x50RF                                       | 13,6                         | 13,6         | 533                              | 533          |
| 1x50RM                                       | 13,1                         | 13,1         | 527                              | 527          |
| 1x70RF                                       | 15,8                         | 15,8         | 739                              | 739          |
| 1x70RM                                       | 14,8                         | 14,8         | 738                              | 738          |
| 1x95RF                                       | 18,1                         | 18,1         | 959                              | 959          |
| 1x95RM                                       | 17                           | 17           | 1000                             | 1000         |
| 1x120RF                                      | 19,4                         | 19,4         | 1197                             | 1197         |
| 1x120RM                                      | 18,6                         | 18,6         | 1243                             | 1243         |
| 1x150RF                                      | 21,8                         | 21,8         | 1494                             | 1494         |
| 1x150RM                                      | 20,6                         | 20,6         | 1532                             | 1532         |
| 1x185RF                                      | 24,7                         | 24,7         | 1825                             | 1825         |
| 1x185RM                                      | 22,9                         | 22,9         | 1907                             | 1907         |
| 1x240RF                                      | 26,6                         | 26,6         | 2347                             | 2347         |
| 1x240RM                                      | 25,8                         | 25,8         | 2458                             | 2458         |
| 1x300RF                                      | 30,6                         | 30,6         | 2926                             | 2926         |
| 1x300RM                                      | 28                           | 28           | 3053                             | 3053         |
| 1x630RM                                      | 39,7                         | 39,7         | 6346                             | 6346         |
| 1x630RF                                      | 43,5                         | 43,5         | 6360                             | 6360         |
| 2x1RF                                        | 8                            | 8,8          | 93                               | 67           |
| 2x1RM                                        | 8,1                          | 8,9          | 96                               | 70           |
| 2x1,5RF                                      | 8,8                          | 9,6          | 115                              | 85           |
| 2x1,5RM                                      | 8,9                          | 9,7          | 120                              | 88           |
| 2x2,5RF                                      | 9,8                          | 10,6         | 151                              | 109          |
| 2x2,5RM                                      | 9,8                          | 10,6         | 154                              | 113          |
| 2x4RF                                        | 10,7                         | 11,5         | 194                              | 140          |
| 2x4RM                                        | 10,8                         | 11,6         | 202                              | 147          |
| 2x6RF                                        | 12,1                         | 12,9         | 258                              | 189          |
| 2x6RM                                        | 12,1                         | 12,9         | 269                              | 198          |
| 2x10RF                                       | 13,9                         | 14,7         | 374                              | 273          |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

[www.tfkable.com](http://www.tfkable.com)

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 2x10RM                                       | 13,6                         | 14,4         | 374                              | 279          |
| 2x16RF                                       | 16,4                         | 17,2         | 546                              | 443          |
| 2x16RM                                       | 15,8                         | 16,6         | 541                              | 447          |
| 2x25RF                                       | 20,7                         | 20,7         | 834                              | 667          |
| 2x25RM                                       | 20,4                         | 20,4         | 852                              | 690          |
| 2x35RF                                       | 23                           | 23           | 1088                             | 885          |
| 2x35RM                                       | 22,7                         | 22,7         | 1110                             | 912          |
| 2x50RF                                       | 27                           | 27           | 1545                             | 1268         |
| 2x50RM                                       | 25,9                         | 25,9         | 1494                             | 1239         |
| 2x95RM                                       | 33,7                         | 33,5         | 2739                             | 2312         |
| 3x1RF                                        | 8,4                          | 9,2          | 103                              | 82           |
| 3x1RM                                        | 8,6                          | 9,4          | 108                              | 86           |
| 3x1,5RF                                      | 9,2                          | 10           | 130                              | 104          |
| 3x1,5RM                                      | 9,4                          | 10,2         | 136                              | 109          |
| 3x2,5RF                                      | 10,3                         | 11,1         | 173                              | 138          |
| 3x2,5RM                                      | 10,3                         | 11,1         | 179                              | 143          |
| 3x4RF                                        | 11,5                         | 12,3         | 233                              | 188          |
| 3x4RM                                        | 11,6                         | 12,4         | 245                              | 199          |
| 3x6RF                                        | 12,7                         | 13,5         | 307                              | 249          |
| 3x6RM                                        | 12,8                         | 13,6         | 322                              | 263          |
| 3x10RF                                       | 14,9                         | 15,7         | 462                              | 379          |
| 3x10RM                                       | 14,6                         | 15,4         | 467                              | 389          |
| 3x16RF                                       | 17,4                         | 18,2         | 672                              | 583          |
| 3x16RM                                       | 16,8                         | 17,6         | 676                              | 595          |
| 3x25RF                                       | 22,2                         | 22,2         | 1046                             | 896          |
| 3x25RM                                       | 21,8                         | 21,8         | 1079                             | 933          |
| 3x35RF                                       | 24,6                         | 24,6         | 1380                             | 1199         |
| 3x35RM                                       | 24,3                         | 24,3         | 1419                             | 1242         |
| 3x50RF                                       | 28,9                         | 28,9         | 1970                             | 1725         |
| 3x50RM                                       | 27,7                         | 27,7         | 1922                             | 1695         |
| 3x70RF                                       | 33,6                         | 33,4         | 2725                             | 2380         |
| 3x70RM                                       | 31,4                         | 31,2         | 2655                             | 2356         |
| 3x70SF                                       | 27,8                         | 29,2         | 2654                             | 2233         |
| 3x70SM                                       | 26,3                         | 27,7         | 2563                             | 2217         |
| 3x95RF                                       | 38,5                         | 38,3         | 3544                             | 3103         |
| 3x95RM                                       | 36                           | 35,8         | 3581                             | 3198         |
| 3x95SF                                       | 30,8                         | 32,2         | 3414                             | 2895         |
| 3x95SM                                       | 29,6                         | 31           | 3465                             | 3000         |
| 3x120RF                                      | 41,5                         | 41,3         | 4378                             | 3879         |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 3x120RM                                      | 39,7                         | 39,5         | 4449                             | 3991         |
| 3x120SF                                      | 34,7                         | 36,1         | 4371                             | 3665         |
| 3x120SM                                      | 32,7                         | 34,1         | 4340                             | 3747         |
| 3x150RF                                      | 47,2                         | 46,6         | 5537                             | 4853         |
| 3x150RM                                      | 44,5                         | 43,9         | 5534                             | 4931         |
| 3x150SF                                      | 38,9                         | 40,3         | 5524                             | 4616         |
| 3x150SM                                      | 36,8                         | 38,2         | 5424                             | 4639         |
| 3x185RF                                      | 53,2                         | 52,4         | 6807                             | 5935         |
| 3x185RM                                      | 49,4                         | 48,6         | 6870                             | 6117         |
| 3x240RF                                      | 57,4                         | 56,6         | 8610                             | 7612         |
| 3x240RM                                      | 55,8                         | 55           | 8858                             | 7919         |
| 4x1RF                                        | 9,3                          | 10,1         | 125                              | 103          |
| 4x1RM                                        | 9,4                          | 10,2         | 130                              | 107          |
| 4x1,5RF                                      | 10                           | 10,8         | 152                              | 125          |
| 4x1,5RM                                      | 10,1                         | 10,9         | 160                              | 132          |
| 4x2,5RF                                      | 11,2                         | 12           | 205                              | 169          |
| 4x2,5RM                                      | 11,2                         | 12           | 213                              | 176          |
| 4x4RF                                        | 12,5                         | 13,3         | 279                              | 234          |
| 4x4RM                                        | 12,6                         | 13,4         | 294                              | 247          |
| 4x6RF                                        | 13,9                         | 14,7         | 372                              | 313          |
| 4x6RM                                        | 14                           | 14,8         | 392                              | 332          |
| 4x10RF                                       | 16,3                         | 17,1         | 565                              | 481          |
| 4x10RM                                       | 15,9                         | 16,7         | 573                              | 494          |
| 4x16RF                                       | 19,3                         | 20,1         | 838                              | 747          |
| 4x16RM                                       | 18,6                         | 19,4         | 846                              | 761          |
| 4x25RF                                       | 24,5                         | 24,3         | 1304                             | 1132         |
| 4x25RM                                       | 24,1                         | 23,9         | 1351                             | 1183         |
| 4x35RF                                       | 27,2                         | 27,2         | 1729                             | 1536         |
| 4x35RM                                       | 26,8                         | 26,8         | 1782                             | 1597         |
| 4x50RF                                       | 32                           | 32           | 2474                             | 2218         |
| 4x50RM                                       | 30,6                         | 30,6         | 2421                             | 2185         |
| 4x70RF                                       | 37,4                         | 37,2         | 3444                             | 3087         |
| 4x70RM                                       | 35                           | 34,8         | 3376                             | 3062         |
| 4x70SF                                       | 32,2                         | 33,6         | 3390                             | 2973         |
| 4x70SM                                       | 30,2                         | 31,6         | 3296                             | 2949         |
| 4x95RF                                       | 42,7                         | 42,5         | 4455                             | 4004         |
| 4x95RM                                       | 39,9                         | 39,7         | 4538                             | 4139         |
| 4x95SF                                       | 35,3                         | 36,7         | 4370                             | 3834         |
| 4x95SM                                       | 33,8                         | 35,2         | 4457                             | 3974         |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 4x120RF                                      | 46,5                         | 45,9         | 5599                             | 5029         |
| 4x120RM                                      | 44,5                         | 43,9         | 5715                             | 5192         |
| 4x120SF                                      | 39,8                         | 41,2         | 5558                             | 4867         |
| 4x120SM                                      | 37,9                         | 39,3         | 5597                             | 4989         |
| 4x150RF                                      | 52,4                         | 51,8         | 6997                             | 6293         |
| 4x150RM                                      | 49,4                         | 48,8         | 7037                             | 6407         |
| 4x150SF                                      | 44,4                         | 45,6         | 7029                             | 6104         |
| 4x150SM                                      | 42,2                         | 43,4         | 6940                             | 6141         |
| 4x185RF                                      | 58,9                         | 58,3         | 8557                             | 7687         |
| 4x185RM                                      | 54,7                         | 54,1         | 8710                             | 7957         |
| 4x240RF                                      | 63,8                         | 63           | 10904                            | 9879         |
| 4x240RM                                      | 62                           | 61,2         | 11266                            | 10297        |
| 5x1RF                                        | 10                           | 10,8         | 147                              | 123          |
| 5x1RM                                        | 10,2                         | 11           | 154                              | 129          |
| 5x1,5RF                                      | 10,8                         | 11,6         | 181                              | 152          |
| 5x1,5RM                                      | 11                           | 11,8         | 190                              | 161          |
| 5x2,5RF                                      | 12,3                         | 13,1         | 251                              | 214          |
| 5x2,5RM                                      | 12,4                         | 13,2         | 262                              | 224          |
| 5x4RF                                        | 13,6                         | 14,4         | 337                              | 289          |
| 5x4RM                                        | 13,8                         | 14,6         | 356                              | 306          |
| 5x6RF                                        | 15,4                         | 16,2         | 459                              | 397          |
| 5x6RM                                        | 15,5                         | 16,3         | 483                              | 420          |
| 5x10RF                                       | 18                           | 18,8         | 698                              | 610          |
| 5x10RM                                       | 17,6                         | 18,4         | 709                              | 626          |
| 5x16RF                                       | 21,4                         | 22,2         | 1039                             | 913          |
| 5x16RM                                       | 20,5                         | 21,3         | 1047                             | 933          |
| 5x25RF                                       | 26,8                         | 26,8         | 1609                             | 1380         |
| 5x25RM                                       | 26,3                         | 26,3         | 1667                             | 1446         |
| 5x35RF                                       | 30                           | 30           | 2154                             | 1875         |
| 5x35RM                                       | 29,6                         | 29,6         | 2222                             | 1950         |
| 5x50RF                                       | 35,5                         | 35,3         | 3111                             | 2705         |
| 5x50RM                                       | 34                           | 33,8         | 3042                             | 2669         |
| 5x70RF                                       | 41,3                         | 41,1         | 4305                             | 3764         |
| 5x70RM                                       | 38,6                         | 38,4         | 4216                             | 3744         |
| 6x1,5RF                                      | 11,9                         | 12,7         | 217                              | 186          |
| 6x1,5RM                                      | 12,1                         | 12,9         | 228                              | 196          |
| 6x2,5RF                                      | 13,3                         | 14,1         | 294                              | 253          |
| 6x2,5RM                                      | 13,4                         | 14,2         | 306                              | 265          |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 7x1RF                                        | 10,8                         | 11,6         | 174                              | 149          |
| 7x1RM                                        | 11                           | 11,8         | 183                              | 156          |
| 7x1,5RF                                      | 11,9                         | 12,7         | 223                              | 192          |
| 7x1,5RM                                      | 12,1                         | 12,9         | 235                              | 203          |
| 7x2,5RF                                      | 13,3                         | 14,1         | 306                              | 265          |
| 7x2,5RM                                      | 13,4                         | 14,2         | 320                              | 279          |
| 8x1,5RF                                      | 12,6                         | 13,4         | 247                              | 214          |
| 8x1,5RM                                      | 12,8                         | 13,6         | 261                              | 226          |
| 9x1,5RF                                      | 13,7                         | 14,5         | 292                              | 244          |
| 9x1,5RM                                      | 13,9                         | 14,7         | 307                              | 258          |
| 10x1RF                                       | 13,6                         | 14,4         | 250                              | 209          |
| 10x1RM                                       | 13,9                         | 14,7         | 263                              | 219          |
| 10x1,5RF                                     | 15                           | 15,8         | 320                              | 270          |
| 10x1,5RM                                     | 15,2                         | 16           | 337                              | 285          |
| 10x2,5RF                                     | 16,9                         | 17,7         | 441                              | 374          |
| 10x2,5RM                                     | 17                           | 17,8         | 460                              | 393          |
| 12x1RF                                       | 14                           | 14,8         | 275                              | 236          |
| 12x1RM                                       | 14,3                         | 15,1         | 289                              | 248          |
| 12x1,5RF                                     | 15,4                         | 16,2         | 353                              | 306          |
| 12x1,5RM                                     | 15,7                         | 16,5         | 374                              | 325          |
| 12x2,5RF                                     | 17,6                         | 18,4         | 500                              | 438          |
| 12x2,5RM                                     | 17,7                         | 18,5         | 523                              | 461          |
| 14x1,5RF                                     | 16,2                         | 17           | 394                              | 346          |
| 14x1,5RM                                     | 16,5                         | 17,3         | 417                              | 367          |
| 16x1RF                                       | 15,6                         | 16,4         | 347                              | 306          |
| 16x1RM                                       | 15,9                         | 16,7         | 365                              | 322          |
| 16x1,5RF                                     | 17,2                         | 18           | 448                              | 398          |
| 16x1,5RM                                     | 17,5                         | 18,3         | 475                              | 423          |
| 16x2,5RF                                     | 19,5                         | 20,3         | 629                              | 563          |
| 16x2,5RM                                     | 19,5                         | 20,3         | 658                              | 593          |
| 19x1RF                                       | 16,4                         | 17,2         | 387                              | 344          |
| 19x1RM                                       | 16,8                         | 17,6         | 409                              | 364          |
| 19x1,5RF                                     | 18,1                         | 18,9         | 503                              | 451          |
| 19x1,5RM                                     | 18,4                         | 19,2         | 533                              | 479          |
| 19x2,5RF                                     | 20,7                         | 21,5         | 720                              | 652          |
| 19x2,5RM                                     | 20,8                         | 21,6         | 756                              | 688          |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 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                 | tape bedding |
| $n \times mm^2$                              | mm                           |              | kg/km                            |              |
| 20x1RF                                       | 17,3                         | 18,1         | 435                              | 384          |
| 20x1RM                                       | 17,8                         | 18,6         | 460                              | 406          |
| 20x1,5RF                                     | 19                           | 19,8         | 554                              | 492          |
| 20x1,5RM                                     | 19,3                         | 20,1         | 587                              | 522          |
| 20x2,5RF                                     | 21,7                         | 22,5         | 791                              | 709          |
| 20x2,5RM                                     | 21,8                         | 22,6         | 829                              | 747          |
| 24x1RF                                       | 19,1                         | 19,9         | 491                              | 433          |
| 24x1RM                                       | 19,6                         | 20,4         | 519                              | 458          |
| 24x1,5RF                                     | 21,2                         | 22           | 638                              | 568          |
| 24x1,5RM                                     | 21,6                         | 22,4         | 677                              | 604          |
| 24x2,5RF                                     | 24,3                         | 25,1         | 914                              | 822          |
| 24x2,5RM                                     | 24,3                         | 25,1         | 958                              | 866          |
| 27x1RF                                       | 19,5                         | 20,3         | 529                              | 473          |
| 27x1RM                                       | 20                           | 20,8         | 559                              | 500          |
| 27x1,5RF                                     | 21,6                         | 22,4         | 689                              | 622          |
| 27x1,5RM                                     | 22                           | 22,8         | 732                              | 662          |
| 27x2,5RF                                     | 24,8                         | 25,6         | 992                              | 904          |
| 27x2,5RM                                     | 24,9                         | 25,7         | 1043                             | 954          |
| 30x1RF                                       | 20,4                         | 21,2         | 582                              | 525          |
| 30x1RM                                       | 20,9                         | 21,7         | 615                              | 555          |
| 30x1,5RF                                     | 22,4                         | 23,2         | 747                              | 678          |
| 30x1,5RM                                     | 22,8                         | 23,6         | 794                              | 723          |
| 30x2,5RF                                     | 25,9                         | 26,7         | 1091                             | 1002         |
| 30x2,5RM                                     | 25,9                         | 26,7         | 1146                             | 1057         |
| 37x1RF                                       | 21,9                         | 22,7         | 683                              | 623          |
| 37x1RM                                       | 22,5                         | 23,3         | 724                              | 660          |
| 37x1,5RF                                     | 24,3                         | 25,1         | 895                              | 822          |
| 37x1,5RM                                     | 24,7                         | 25,5         | 952                              | 876          |
| 37x2,5RF                                     | 27,9                         | 28,7         | 1296                             | 1201         |
| 37x2,5RM                                     | 27,9                         | 28,7         | 1364                             | 1269         |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

[www.tfkable.com](http://www.tfkable.com)

# FLAMEBLOCKER

## NKOXS 0,6/1kV

IEC 60092-353



### 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 |
|                            | R <sub>20</sub>           | R <sub>90</sub>            | R <sub>20</sub>            | R <sub>90</sub>            | R <sub>20</sub>           | R <sub>90</sub>            | R <sub>20</sub>           | R <sub>90</sub>            |
| mm <sup>2</sup>            | Ω/km                      | Ω/km                       | Ω/km                       | Ω/km                       | Ω/km                      | Ω/km                       | Ω/km                      | Ω/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                     |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER NKOXS 0,6/1kV

IEC 60092-353



## Current ratings

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

| Nominal<br>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                  |

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com

# FLAMEBLOCKER

## NKOXS 0,6/1kV

IEC 60092-353



### 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.

All the information contained in this document - including tables and diagrams - is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time.

NKOXS 0,6/1kV MK-23-05-2019

Replace NKOXS 0,6/1kV NKOXS 0,6/1kV MK-14-03-2018

TELE-FONIKA Kable S.A.

www.tfkable.com