# PVC INSULATED
# LOW VOLTAGE POWER CABLES

NYY
NYY CONTROL
NYRY
NYBY
NYFGY
NYCY

# PVC INSULATED LOW VOLTAGE POWER CABLES

NYY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC filler
4 PVC outer sheath


## SPECIFICATIONS

Code : NYY
Standards : VDE 0276 -603
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used in illumination and energy networks as installation cables internally, externally or underground where there is no mechanical stress.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery drum type for 1000 m. cable | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Earth | | Air | |
| $mm^2$ | mm | kg/km | cm | Ω / km (max.) | A ⊙ ⊙ ⊙ | A | A ⊙ ⊙ ⊙ | A |
| 1x4 re | 7 | 88 | 60 | 4.61 | 71 | 50 | 47 | 37 |
| 1x6 re | 8 | 110 | 60 | 3.08 | 90 | 62 | 59 | 47 |
| 1x10 rm | 9 | 160 | 60 | 1.83 | 124 | 83 | 81 | 64 |
| 1x16 rm | 10 | 225 | 70 | 1.15 | 160 | 107 | 107 | 84 |
| 1x25 rm | 11 | 330 | 70 | 0.727 | 208 | 138 | 144 | 114 |
| 1x35 rm | 12 | 420 | 80 | 0.524 | 250 | 164 | 176 | 139 |
| 1x50 rm | 14 | 560 | 90 | 0.387 | 296 | 195 | 214 | 169 |
| 1x70 rm | 16 | 760 | 90 | 0.268 | 365 | 238 | 270 | 213 |
| 1x95 rm | 18 | 1030 | 110 | 0.193 | 438 | 286 | 334 | 264 |
| 1x120 rm | 20 | 1270 | 120 | 0.153 | 501 | 325 | 389 | 307 |
| 1x150 rm | 21 | 1560 | 120 | 0.124 | 563 | 365 | 446 | 352 |
| 1x185 rm | 24 | 1940 | 130 | 0.0991 | 639 | 413 | 516 | 406 |
| 1x240 rm | 27 | 2500 | 140 | 0.0754 | 746 | 479 | 618 | 483 |
| 1x300 rm | 30 | 3180 | 150 | 0.0601 | 848 | 541 | 717 | 557 |
| 1x400 rm | 33 | 4050 | 160 | 0.0470 | 975 | 614 | 843 | 646 |
| 1x500 rm | 37 | 5100 | 180 | 0.0366 | 1125 | 693 | 994 | 747 |

## PHYSICAL AND ELECTRICAL PROPERTIES

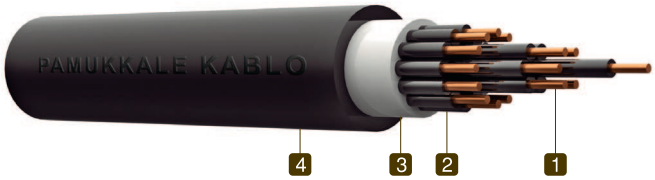
| Nominal cross-section | | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Earth | Air |
| $mm^2$ | | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 2x1.5 | re | 10 | 140 | 1000 | 70 | 12.1 | 27 | 19.5 |
| 2x2.5 | re | 11 | 180 | 1000 | 70 | 7.41 | 36 | 25 |
| 2x4 | re | 12 | 250 | 1000 | 80 | 4.61 | 47 | 34 |
| 2x4 | rm | 13 | 270 | 1000 | 80 | 4.61 | 47 | 34 |
| 2x6 | re | 14 | 320 | 1000 | 80 | 3.08 | 59 | 43 |
| 2x6 | rm | 15 | 350 | 1000 | 90 | 3.08 | 59 | 43 |
| 2x10 | rm | 16 | 480 | 1000 | 100 | 1.83 | 79 | 59 |
| 2x16 | rm | 18 | 650 | 1000 | 110 | 1.15 | 102 | 79 |
| 2x25 | rm | 21 | 930 | 1000 | 120 | 0.727 | 133 | 106 |
| 2x35 | rm | 23 | 1.180 | 1000 | 130 | 0.524 | 159 | 129 |
| 2x50 | rm | 27 | 1.600 | 1000 | 140 | 0.387 | 188 | 157 |
| 3x1.5 | re | 10 | 164 | 1000 | 70 | 12.1 | 27 | 19.5 |
| 3x2.5 | re | 11 | 210 | 1000 | 70 | 7.41 | 36 | 25 |
| 3x4 | re | 13 | 300 | 1000 | 80 | 4.61 | 47 | 34 |
| 3x6 | re | 14 | 385 | 1000 | 90 | 3.08 | 59 | 43 |
| 3x10 | rm | 18 | 580 | 1000 | 100 | 1.83 | 79 | 59 |
| 3x16 | rm | 20 | 810 | 1000 | 110 | 1.15 | 102 | 79 |
| 3x25 | rm | 23 | 1.160 | 1000 | 130 | 0.727 | 133 | 106 |
| 3x35 | rm | 25 | 1.525 | 1000 | 140 | 0.524 | 159 | 129 |
| 3x50 | rm | 29 | 2.050 | 1000 | 150 | 0.387 | 188 | 157 |
| 3x16/10 | rm | 21 | 990 | 1000 | 120 | 1.15 | 102 | 79 |
| 3x25/16 | rm | 24 | 1.430 | 1000 | 130 | 0.727 | 133 | 106 |
| 3x35/16 | rm | 26 | 1.760 | 1000 | 140 | 0.524 | 159 | 129 |
| 3x50/25 | rm | 30 | 2.430 | 1000 | 150 | 0.387 | 188 | 157 |
| 3x70/35 | rm | 34 | 3.280 | 1000 | 180 | 0.268 | 232 | 199 |
| 3x95/50 | rm | 39 | 4.450 | 1000 | 200 | 0.193 | 280 | 246 |
| 3x120/70 | rm | 43 | 5.640 | 500 | 160 | 0.153 | 318 | 285 |
| 3x150/70 | rm | 47 | 6.680 | 500 | 180 | 0.124 | 359 | 326 |
| 3x185/95 | rm | 52 | 8.400 | 500 | 210 | 0.0991 | 406 | 374 |
| 3x240/120 | rm | 60 | 10.800 | 500 | 220 | 0.0754 | 473 | 445 |
| 3x300/150 | rm | 66 | 13.650 | 500 | 240 | 0.0601 | 535 | 511 |
| 4x1.5 | re | 11 | 195 | 1000 | 70 | 12.1 | 27 | 19.5 |
| 4x2.5 | re | 12 | 250 | 1000 | 80 | 7.41 | 36 | 25 |
| 4x4 | re | 14 | 370 | 1000 | 90 | 4.61 | 47 | 34 |
| 4x4 | rm | 15 | 390 | 1000 | 90 | 4.61 | 47 | 34 |
| 4x6 | re | 16 | 470 | 1000 | 100 | 3.08 | 59 | 43 |
| 4x6 | rm | 17 | 500 | 1000 | 100 | 3.08 | 59 | 43 |
| 4x10 | rm | 19 | 720 | 1000 | 110 | 1.83 | 79 | 59 |
| 4x16 | rm | 22 | 1.010 | 1000 | 120 | 1.15 | 102 | 79 |
| 4x25 | rm | 25 | 1.480 | 1000 | 140 | 0.727 | 133 | 106 |
| 4x35 | rm | 28 | 1.940 | 1000 | 150 | 0.524 | 159 | 129 |
| 4x50 | rm | 32 | 2.620 | 1000 | 160 | 0.387 | 188 | 157 |
| 4x70 | rm | 36 | 3.600 | 1000 | 180 | 0.268 | 232 | 199 |
| 4x95 | rm | 42 | 4.900 | 1000 | 200 | 0.193 | 280 | 246 |
| 4x120 | rm | 46 | 6.050 | 500 | 180 | 0.153 | 318 | 285 |
| 4x150 | rm | 51 | 7.400 | 500 | 200 | 0.124 | 359 | 326 |
| 4x185 | rm | 56 | 9.150 | 500 | 220 | 0.0991 | 406 | 374 |
| 4x240 | rm | 64 | 11.900 | 500 | 240 | 0.0754 | 473 | 445 |
| 4x300 | rm | 72 | 15.000 | 500 | 260 | 0.0601 | 535 | 511 |
| 5x1.5 | re | 12 | 230 | 1000 | 80 | 12.1 | 27 | 19.5 |
| 5x2.5 | re | 13 | 300 | 1000 | 80 | 7.41 | 36 | 25 |
| 5x4 | re | 16 | 450 | 1000 | 100 | 4.61 | 47 | 34 |
| 5x6 | re | 17 | 575 | 1000 | 100 | 3.08 | 59 | 43 |
| 5x10 | rm | 21 | 880 | 1000 | 120 | 1.83 | 79 | 59 |
| 5x16 | rm | 24 | 1.230 | 1000 | 130 | 1.15 | 102 | 79 |
| 5x25 | rm | 28 | 1.800 | 1000 | 150 | 0.727 | 133 | 106 |

# PVC INSULATED LOW VOLTAGE POWER CABLES



## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC filler
4 PVC outer sheath




## SPECIFICATIONS

Code : NYY
Standards : VDE 0276 -627
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used as control cables in energy panels of power centres and industrial buildings etc. internally, externally or underground where there is no mechanical stress.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery drum type for 1000 m. cable | Conductor DC resistance at 20°C | Current carrying capacity (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | In earth | In air |
| $mm^2$ | mm | kg/km | cm | Ω / km (max.) | A | A |
| 7x1.5 re | 13 | 280 | 80 | 12.1 | 27 | 19.5 |
| 10x1.5 re | 16 | 420 | 100 | 12.1 | 27 | 19.5 |
| 12x1.5 re | 17 | 470 | 100 | 12.1 | 27 | 19.5 |
| 14x1.5 re | 18 | 510 | 110 | 12.1 | 27 | 19.5 |
| 19x1.5 re | 19 | 630 | 110 | 12.1 | 27 | 19.5 |
| 21x1.5 re | 20 | 710 | 120 | 12.1 | 27 | 19.5 |
| 24x1.5 re | 22 | 850 | 120 | 12.1 | 27 | 19.5 |
| 30x1.5 re | 24 | 990 | 130 | 12.1 | 27 | 19.5 |
| 40x1.5 re | 26 | 1250 | 140 | 12.1 | 27 | 19.5 |
| 7x2.5 re | 15 | 370 | 90 | 7.41 | 36 | 25 |
| 10x2.5 re | 18 | 560 | 110 | 7.41 | 36 | 25 |
| 12x2.5 re | 19 | 630 | 110 | 7.41 | 36 | 25 |
| 14x2.5 re | 20 | 690 | 120 | 7.41 | 36 | 25 |
| 19x2.5 re | 21 | 860 | 120 | 7.41 | 36 | 25 |
| 21x2.5 re | 23 | 970 | 130 | 7.41 | 36 | 25 |
| 24x2.5 re | 25 | 1150 | 140 | 7.41 | 36 | 25 |
| 30x2.5 re | 26 | 1350 | 140 | 7.41 | 36 | 25 |
| 40x2.5 re | 30 | 1800 | 150 | 7.41 | 36 | 25 |

# PVC INSULATED LOW VOLTAGE POWER CABLES

NYRY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC Bedding
4 Galvanized round steel wire
5 PVC outer sheath


## SPECIFICATIONS

Code : NYRY
Standards : VDE 0271
Rated Voltage : Uo/U=0.6/1 kV

Application :
Due to armour in the structure, these cables are resistant to mechanical compulsions and can be used under hard working condition places such as industrial plants, power centres etc. internally, externally, underground or in cable ducts.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Mechanical Resistance

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

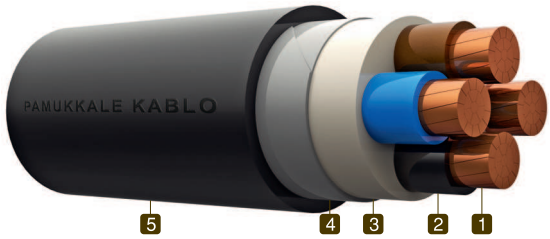
| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | In earth | In air |
| $mm^2$ | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5 re | 14 | 360 | 1000 | 90 | 12.1 | 27 | 19.5 |
| 3x2.5 re | 15 | 430 | 1000 | 90 | 7.41 | 36 | 25 |
| 3x4 re | 17 | 550 | 1000 | 100 | 4.61 | 47 | 34 |
| 3x6 re | 19 | 760 | 1000 | 110 | 3.08 | 59 | 43 |
| 3x10 rm | 22 | 1020 | 1000 | 120 | 1.83 | 79 | 59 |
| 3x16 rm | 24 | 1420 | 1000 | 130 | 1.15 | 102 | 79 |
| 4x1.5 re | 15 | 410 | 1000 | 90 | 12.1 | 27 | 19.5 |
| 4x2.5 re | 16 | 480 | 1000 | 100 | 7.41 | 36 | 25 |
| 4x4 re | 19 | 750 | 1000 | 110 | 4.61 | 47 | 34 |
| 4x6 re | 20 | 875 | 1000 | 120 | 3.08 | 59 | 43 |
| 4x10 rm | 24 | 1330 | 1000 | 130 | 1.83 | 79 | 59 |
| 4x16 rm | 27 | 1700 | 1000 | 140 | 1.15 | 102 | 79 |
| 4x25 rm | 30 | 2260 | 1000 | 150 | 0.727 | 133 | 106 |
| 4x35 rm | 33 | 2800 | 1000 | 160 | 0.524 | 159 | 129 |
| 4x50 rm | 38 | 3950 | 1000 | 200 | 0.387 | 188 | 157 |
| 4x70 rm | 43 | 5050 | 1000 | 220 | 0.268 | 232 | 199 |
| 4x95 rm | 49 | 6950 | 1000 | 240 | 0.193 | 280 | 246 |
| 4x120 rm | 53 | 8320 | 500 | 210 | 0.153 | 318 | 285 |
| 4x150 rm | 58 | 9900 | 500 | 220 | 0.124 | 359 | 326 |
| 4x185 rm | 63 | 12000 | 500 | 220 | 0.0991 | 406 | 374 |
| 4x240 rm | 70 | 15000 | 500 | 240 | 0.0754 | 473 | 445 |
| 4x300 rm | 80 | 19450 | 500 | 260 | 0.0601 | 535 | 511 |

# PVC INSULATED LOW VOLTAGE POWER CABLES

NYBY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC Bedding
4 Galvanized double steel tape
5 PVC outer sheath




## SPECIFICATIONS

Code : NYBY
Standards : VDE 0271
Rated Voltage : Uo/U=0.6/1 kV

Application :
Due to armour in the structure, these cables are resistant to mechanical compulsions and can be used under hard working condition places such as industrial plants, power centres etc. internally, externally, underground or in cable ducts.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Mechanical Resistance

Min. Bending Radius

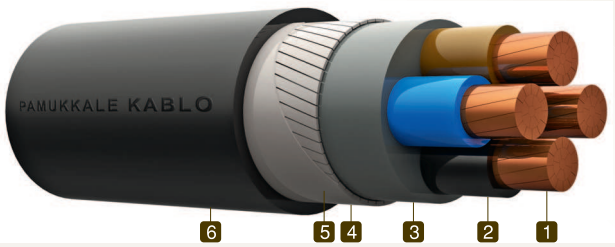
RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | In earth | In air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5 re | 14 | 280 | 1000 | 90 | 12.1 | 27 | 19.5 |
| 3x2.5 re | 15 | 330 | 1000 | 90 | 7.41 | 36 | 25 |
| 3x4 re | 17 | 440 | 1000 | 100 | 4.61 | 47 | 34 |
| 3x6 re | 18 | 540 | 1000 | 110 | 3.08 | 59 | 43 |
| 3x10 rm | 20 | 750 | 1000 | 120 | 1.83 | 79 | 59 |
| 3x16 rm | 23 | 980 | 1000 | 130 | 1.15 | 102 | 79 |
| 4x1.5 re | 15 | 315 | 1000 | 90 | 12.1 | 27 | 19.5 |
| 4x2.5 re | 16 | 390 | 1000 | 100 | 7.41 | 36 | 25 |
| 4x4 re | 18 | 520 | 1000 | 110 | 4.61 | 47 | 34 |
| 4x6 re | 19 | 630 | 1000 | 110 | 3.08 | 59 | 43 |
| 4x10 rm | 22 | 900 | 1000 | 120 | 1.83 | 79 | 59 |
| 4x16 rm | 24 | 1200 | 1000 | 130 | 1.15 | 102 | 79 |
| 4x25 rm | 27 | 1700 | 1000 | 140 | 0.727 | 133 | 106 |
| 4x35 rm | 30 | 2150 | 1000 | 150 | 0.524 | 159 | 129 |
| 4x50 rm | 35 | 2870 | 1000 | 180 | 0.387 | 188 | 157 |
| 4x70 rm | 40 | 4200 | 1000 | 200 | 0.268 | 232 | 199 |
| 4x95 rm | 45 | 5550 | 1000 | 220 | 0.193 | 280 | 246 |
| 4x120 rm | 50 | 6800 | 500 | 200 | 0.153 | 318 | 285 |
| 4x150 rm | 54 | 8250 | 500 | 210 | 0.124 | 359 | 326 |
| 4x185 rm | 59 | 10100 | 500 | 220 | 0.0991 | 406 | 374 |
| 4x240 rm | 67 | 12900 | 500 | 240 | 0.0754 | 473 | 445 |
| 4x300 rm | 74 | 16100 | 500 | 260 | 0.0601 | 535 | 511 |

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC Bedding
4 Galvanized flat steel wire
5 Galvanized steel tape
6 PVC outer sheath




## SPECIFICATIONS

Code : NYFGY
Standards : VDE 0271
Rated Voltage : Uo/U=0.6/1 kV

Application :
Due to armour in the structure, these cables are resistant to mechanical compulsions and can be used under hard working condition places such as industrial plants, power centres etc. internally, externally, underground or in cable ducts.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Mechanical Resistance

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | In earth | In air |
| $mm^2$ | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x25/16 rm | 28 | 1900 | 1000 | 150 | 0.727 | 133 | 106 |
| 3x35/16 rm | 30 | 2300 | 1000 | 150 | 0.524 | 159 | 129 |
| 3x50/25 rm | 34 | 3000 | 1000 | 180 | 0.387 | 188 | 157 |
| 3x70/35 rm | 38 | 3950 | 1000 | 200 | 0.268 | 232 | 199 |
| 3x95/50 rm | 43 | 5150 | 1000 | 220 | 0.193 | 280 | 246 |
| 3x120/70 rm | 48 | 6400 | 500 | 180 | 0.153 | 318 | 285 |
| 3x150/70 rm | 52 | 7500 | 500 | 210 | 0.124 | 359 | 326 |
| 3x185/95 rm | 57 | 9200 | 500 | 220 | 0.0991 | 406 | 374 |
| 3x240/120 rm | 64 | 11700 | 500 | 240 | 0.0754 | 473 | 445 |
| 3x300/150 rm | 70 | 14500 | 500 | 240 | 0.0601 | 535 | 511 |
| 4x16 rm | 26 | 1570 | 1000 | 140 | 1.15 | 102 | 79 |
| 4x25 rm | 29 | 2100 | 1000 | 150 | 0.727 | 133 | 106 |
| 4x35 rm | 31 | 2650 | 1000 | 160 | 0.524 | 159 | 129 |
| 4x50 rm | 36 | 3500 | 1000 | 180 | 0.387 | 188 | 157 |
| 4x70 rm | 40 | 4620 | 1000 | 200 | 0.268 | 232 | 199 |
| 4x95 rm | 45 | 6080 | 1000 | 220 | 0.193 | 280 | 246 |
| 4x120 rm | 50 | 7400 | 500 | 200 | 0.153 | 318 | 285 |
| 4x150 rm | 54 | 8900 | 500 | 210 | 0.124 | 359 | 326 |
| 4x185 rm | 60 | 10950 | 500 | 220 | 0.0991 | 406 | 374 |
| 4x240 rm | 67 | 13930 | 500 | 240 | 0.0754 | 473 | 445 |
| 4x300 rm | 75 | 17400 | 500 | 260 | 0.0601 | 535 | 511 |

# PVC INSULATED LOW VOLTAGE POWER CABLES

NYCY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 PVC insulation
3 PVC filler
4 Concentric conductor
5 Copper tape as binder
6 PVC outer sheath


## SPECIFICATIONS

Code : NYCY
Standards : VDE 0276 -603
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used in indoor installation, in outdoor and underground cable ducts for power-stations, industrial plants and switching stations as well as local supply systems where increased protection is necessary.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

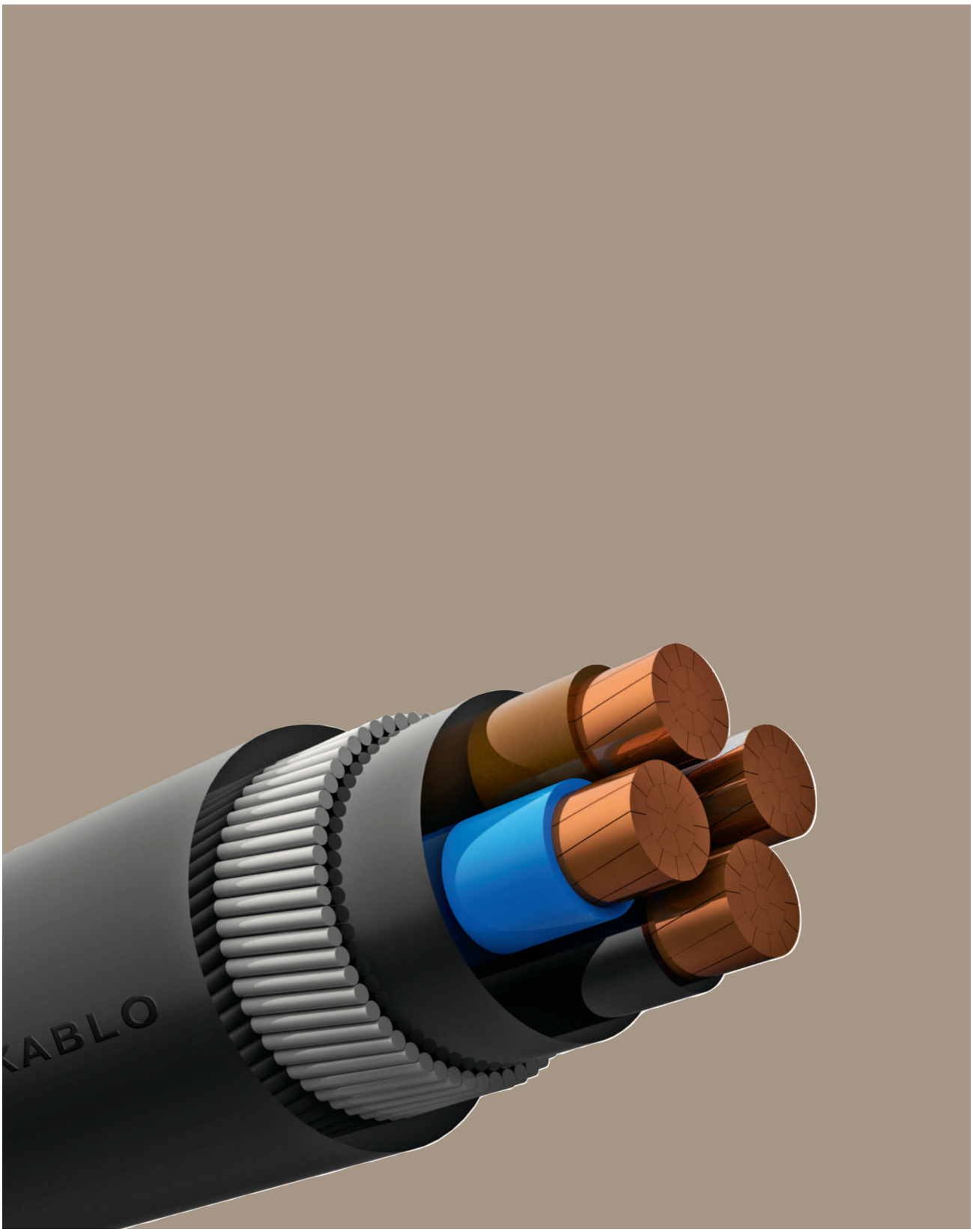
Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | In earth | In air |
| $mm^2$ | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5/1.5 re | 13 | 260 | 1000 | 80 | 12.1 | 27 | 19.5 |
| 3x2.5/2.5 re | 14 | 320 | 1000 | 90 | 7.41 | 36 | 26 |
| 3x4/4 re | 16 | 420 | 1000 | 100 | 4.61 | 47 | 34 |
| 3x6/6 re | 17 | 510 | 1000 | 100 | 3.08 | 59 | 44 |
| 3x10/10 rm | 21 | 750 | 1000 | 120 | 1.83 | 79 | 60 |
| 3x16/16 rm | 23 | 1040 | 1000 | 130 | 1.15 | 102 | 80 |
| 3x25/16 rm | 26 | 1380 | 1000 | 140 | 0.727 | 133 | 108 |
| 3x35/16 rm | 28 | 1740 | 1000 | 150 | 0.524 | 160 | 132 |
| 3x50/25 rm | 32 | 2370 | 1000 | 160 | 0.387 | 190 | 160 |
| 3x70/35 rm | 36 | 3240 | 1000 | 180 | 0.268 | 234 | 202 |
| 3x95/50 rm | 41 | 4360 | 1000 | 200 | 0.193 | 280 | 249 |
| 3x120/70 rm | 45 | 5450 | 500 | 160 | 0.153 | 319 | 289 |
| 3x150/70 rm | 50 | 6550 | 500 | 200 | 0.124 | 357 | 329 |
| 3x185/95 rm | 55 | 8200 | 500 | 210 | 0.0991 | 402 | 377 |
| 3x240/120 rm | 62 | 10500 | 500 | 220 | 0.0754 | 463 | 443 |
| 3x300/150 rm | 68 | 12950 | 500 | 240 | 0.0601 | 518 | 504 |


NEXTROM
BCR 12


KABLO

# XLPE INSULATED
# LOW VOLTAGE POWER CABLES

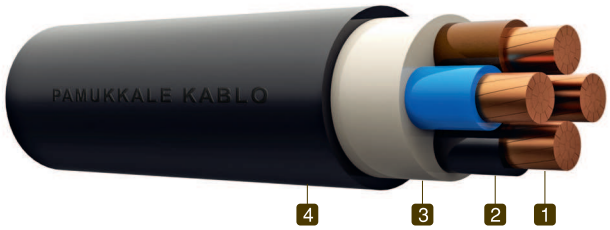
N2XY
N2XY CONTROL
N2XRY
N2XBY
N2XFGY
N2XCY

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XY

## CONSTRUCTION

1 Copper conductor (class1-2)
2 XLPE insulation
3 PVC filler
4 PVC outer sheath




## SPECIFICATIONS

Code : N2XY
Standards : VDE 0276 - 603
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used at illumination and energy networks as installation cables internally, externally or underground where there is no mechanical stress.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery drum type for 1000 m. cable | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Earth | | Air | |
| mm² | mm | kg/km | cm | Ω / km (max.) | A ⊙ ⊙ ⊙ | A | A ⊙ ⊙ ⊙ | A |
| 1x4 re | 7 | 73 | 60 | 4.61 | 82 | 54 | 57 | 44 |
| 1x6 re | 8 | 95 | 60 | 3.08 | 102 | 67 | 72 | 56 |
| 1x10 rm | 9 | 145 | 60 | 1.83 | 136 | 89 | 99 | 77 |
| 1x16 rm | 10 | 205 | 70 | 1.15 | 176 | 115 | 131 | 102 |
| 1x25 rm | 11 | 300 | 70 | 0.727 | 229 | 148 | 177 | 138 |
| 1x35 rm | 12 | 390 | 80 | 0.524 | 275 | 177 | 217 | 170 |
| 1x50 rm | 13 | 515 | 80 | 0.387 | 326 | 209 | 265 | 207 |
| 1x70 rm | 15 | 710 | 90 | 0.268 | 400 | 256 | 336 | 263 |
| 1x95 rm | 17 | 960 | 100 | 0.193 | 480 | 307 | 415 | 325 |
| 1x120 rm | 19 | 1200 | 110 | 0.153 | 548 | 349 | 485 | 380 |
| 1x150 rm | 21 | 1500 | 120 | 0.124 | 616 | 393 | 557 | 437 |
| 1x185 rm | 23 | 1850 | 130 | 0.0991 | 698 | 445 | 646 | 507 |
| 1x240 rm | 26 | 2380 | 140 | 0.0754 | 815 | 517 | 774 | 604 |
| 1x300 rm | 28 | 3000 | 150 | 0.0601 | 927 | 663 | 901 | 697 |
| 1x400 rm | 32 | 3800 | 160 | 0.0470 | 1064 | 749 | 1060 | 811 |
| 1x500 rm | 36 | 4880 | 180 | 0.0366 | 1227 | 843 | 1252 | 940 |

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | | Overall diameter (approx.) | Net weight (approx.) | Standart delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Earth | Air |
| mm² | | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 2x1.5 | re | 10 | 125 | 1000 | 70 | 12.1 | 31 | 24 |
| 2x2.5 | re | 11 | 160 | 1000 | 70 | 7.41 | 40 | 32 |
| 2x4 | re | 12 | 210 | 1000 | 80 | 4.61 | 52 | 42 |
| 2x4 | rm | 12 | 230 | 1000 | 80 | 4.61 | 52 | 42 |
| 2x6 | re | 13 | 270 | 1000 | 80 | 3.08 | 64 | 53 |
| 2x6 | rm | 14 | 300 | 1000 | 90 | 3.08 | 64 | 53 |
| 2x10 | rm | 15 | 410 | 1000 | 90 | 1.83 | 86 | 74 |
| 2x16 | rm | 17 | 575 | 1000 | 100 | 1.15 | 112 | 98 |
| 2x25 | rm | 20 | 840 | 1000 | 120 | 0.727 | 145 | 133 |
| 2x35 | rm | 22 | 1100 | 1000 | 120 | 0.524 | 174 | 162 |
| 2x50 | rm | 25 | 1450 | 1000 | 140 | 0.387 | 206 | 197 |
| 3x1.5 | re | 10 | 150 | 1000 | 70 | 12.1 | 31 | 24 |
| 3x2.5 | re | 11 | 185 | 1000 | 70 | 7.41 | 40 | 32 |
| 3x4 | re | 12 | 250 | 1000 | 80 | 4.61 | 52 | 42 |
| 3x6 | re | 13 | 330 | 1000 | 80 | 3.08 | 64 | 53 |
| 3x10 | rm | 16 | 500 | 1000 | 100 | 1.83 | 86 | 74 |
| 3x16 | rm | 18 | 710 | 1000 | 110 | 1.15 | 112 | 98 |
| 3x25 | rm | 21 | 1050 | 1000 | 120 | 0.727 | 145 | 133 |
| 3x35 | rm | 24 | 1400 | 1000 | 130 | 0.524 | 174 | 162 |
| 3x50 | rm | 27 | 1850 | 1000 | 140 | 0.387 | 206 | 197 |
| 3x16/10 | rm | 20 | 830 | 1000 | 120 | 1.15 | 112 | 98 |
| 3x25/16 | rm | 23 | 1230 | 1000 | 130 | 0.727 | 145 | 133 |
| 3x35/16 | rm | 25 | 1550 | 1000 | 140 | 0.524 | 174 | 162 |
| 3x50/25 | rm | 28 | 2100 | 1000 | 150 | 0.387 | 206 | 197 |
| 3x70/35 | rm | 33 | 2930 | 1000 | 160 | 0.268 | 254 | 250 |
| 3x95/50 | rm | 37 | 3920 | 1000 | 180 | 0.193 | 305 | 308 |
| 3x120/70 | rm | 42 | 5020 | 500 | 160 | 0.153 | 348 | 359 |
| 3x150/70 | rm | 45 | 6020 | 500 | 160 | 0.124 | 392 | 412 |
| 3x185/95 | rm | 50 | 7550 | 500 | 200 | 0.0991 | 444 | 475 |
| 3x240/120 | rm | 57 | 9750 | 500 | 220 | 0.0754 | 517 | 564 |
| 3x300/150 | rm | 63 | 12300 | 500 | 220 | 0.0601 | 585 | 649 |
| 4x1.5 | re | 11 | 175 | 1000 | 70 | 12.1 | 31 | 24 |
| 4x2.5 | re | 12 | 225 | 1000 | 80 | 7.41 | 40 | 32 |
| 4x4 | re | 13 | 300 | 1000 | 80 | 4.61 | 52 | 42 |
| 4x4 | rm | 14 | 320 | 1000 | 90 | 4.61 | 52 | 42 |
| 4x6 | re | 14 | 400 | 1000 | 90 | 3.08 | 64 | 53 |
| 4x6 | rm | 15 | 430 | 1000 | 90 | 3.08 | 64 | 53 |
| 4x10 | rm | 18 | 620 | 1000 | 110 | 1.83 | 86 | 74 |
| 4x16 | rm | 20 | 905 | 1000 | 120 | 1.15 | 112 | 98 |
| 4x25 | rm | 23 | 1325 | 1000 | 130 | 0.727 | 145 | 133 |
| 4x35 | rm | 26 | 1760 | 1000 | 140 | 0.524 | 174 | 162 |
| 4x50 | rm | 30 | 2350 | 1000 | 150 | 0.387 | 206 | 197 |
| 4x70 | rm | 35 | 3320 | 1000 | 180 | 0.268 | 254 | 250 |
| 4x95 | rm | 39 | 4450 | 500 | 200 | 0.193 | 305 | 308 |
| 4x120 | rm | 43 | 5580 | 500 | 160 | 0.153 | 348 | 359 |
| 4x150 | rm | 48 | 6920 | 500 | 180 | 0.124 | 392 | 412 |
| 4x185 | rm | 53 | 8600 | 500 | 210 | 0.0991 | 444 | 475 |
| 4x240 | rm | 60 | 11150 | 500 | 220 | 0.0754 | 517 | 564 |
| 4x300 | rm | 67 | 14100 | 1000 | 240 | 0.0601 | 585 | 649 |
| 5x1.5 | re | 12 | 205 | 1000 | 80 | 12.1 | 31 | 24 |
| 5x2.5 | re | 13 | 275 | 1000 | 80 | 7.41 | 40 | 32 |
| 5x4 | re | 14 | 360 | 1000 | 90 | 4.61 | 52 | 42 |
| 5x4 | rm | 15 | 390 | 1000 | 90 | 4.61 | 52 | 42 |
| 5x6 | re | 16 | 480 | 1000 | 100 | 3.08 | 64 | 53 |
| 5x6 | rm | 17 | 515 | 1000 | 100 | 3.08 | 64 | 53 |
| 5x10 | rm | 19 | 760 | 1000 | 110 | 1.83 | 86 | 74 |
| 5x16 | rm | 22 | 1100 | 1000 | 120 | 1.15 | 112 | 98 |
| 5x25 | rm | 25 | 1630 | 1000 | 140 | 0.727 | 145 | 133 |

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XY CONTROL

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 XLPE insulation
3 PVC filler
4 PVC outer sheath


## SPECIFICATIONS

Code : N2XY
Standards : VDE 0276 - 603
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used as control cables in energy panels of power centres and industrial buildings etc. internally, externally or underground where there is no mechanical stress.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

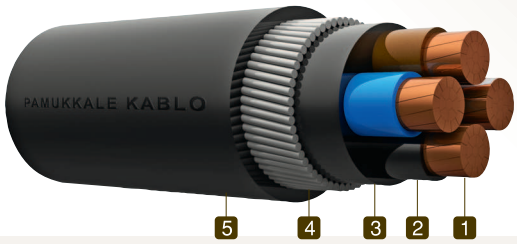
| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery drum type for 1000 m. cable | Conductor DC resistance at 20°C | Current carrring capacity in (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | Earth | Air |
| mm² | mm | kg/km | cm | Ω / km (max.) | A | A |
| 7x1.5 re | 13 | 260 | 80 | 12.1 | 31 | 24 |
| 10x1.5 re | 15 | 385 | 90 | 12.1 | 31 | 24 |
| 12x1.5 re | 16 | 435 | 100 | 12.1 | 31 | 24 |
| 14x1.5 re | 17 | 470 | 100 | 12.1 | 31 | 24 |
| 19x1.5 re | 18 | 590 | 110 | 12.1 | 31 | 24 |
| 21x1.5 re | 19 | 660 | 110 | 12.1 | 31 | 24 |
| 24x1.5 re | 21 | 785 | 120 | 12.1 | 31 | 24 |
| 30x1.5 re | 22 | 920 | 120 | 12.1 | 31 | 24 |
| 40x1.5 re | 25 | 1180 | 140 | 12.1 | 31 | 24 |
| 7x2.5 re | 14 | 350 | 90 | 7.41 | 40 | 32 |
| 10x2.5 re | 17 | 525 | 100 | 7.41 | 40 | 32 |
| 12x2.5 re | 18 | 590 | 110 | 7.41 | 40 | 32 |
| 14x2.5 re | 20 | 650 | 120 | 7.41 | 40 | 32 |
| 19x2.5 re | 21 | 820 | 120 | 7.41 | 40 | 32 |
| 21x2.5 re | 22 | 910 | 120 | 7.41 | 40 | 32 |
| 24x2.5 re | 24 | 1100 | 130 | 7.41 | 40 | 32 |
| 30x2.5 re | 25 | 1280 | 140 | 7.41 | 40 | 32 |
| 40x2.5 re | 28 | 1650 | 150 | 7.41 | 40 | 32 |

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XRY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 XLPE insulation
3 PVC Bedding
4 Galvanized round steel wire
5 PVC outer sheath




## SPECIFICATIONS

Code : N2XRY
Standards : VDE 0276
Rated Voltage : Uo/U=0.6/1 kV

Application :
Due to armour in the structure, these cables are resistant for mechanical compulsions and can be used under hard working condition places such as industrial plants, power centres etc. internally, externally, underground or in cable ducts.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant IEC 60332 -1-2


Mechanical Resistance

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Standart delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Earth | Air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5 re | 14 | 330 | 1000 | 90 | 12.1 | 31 | 24 |
| 3x2.5 re | 15 | 390 | 1000 | 90 | 7.41 | 40 | 32 |
| 3x4 re | 16 | 470 | 1000 | 100 | 4.61 | 52 | 42 |
| 3x6 re | 17 | 570 | 1000 | 100 | 3.08 | 64 | 53 |
| 3x10 rm | 20 | 920 | 1000 | 120 | 1.83 | 86 | 74 |
| 4x1.5 re | 14 | 375 | 1000 | 90 | 12.1 | 31 | 24 |
| 4x2.5 re | 15 | 440 | 1000 | 90 | 7.41 | 40 | 32 |
| 4x4 re | 16 | 530 | 1000 | 100 | 4.61 | 52 | 42 |
| 4x6 re | 18 | 770 | 1000 | 110 | 3.08 | 64 | 53 |
| 4x10 rm | 22 | 1070 | 1000 | 120 | 1.83 | 86 | 74 |
| 4x16 rm | 25 | 1520 | 1000 | 140 | 1.15 | 112 | 98 |
| 4x25 rm | 28 | 2050 | 1000 | 150 | 0.727 | 145 | 133 |
| 4x35 rm | 31 | 2575 | 1000 | 160 | 0.524 | 174 | 162 |
| 4x50 rm | 35 | 3520 | 1000 | 180 | 0.387 | 206 | 197 |
| 4x70 rm | 41 | 4700 | 1000 | 200 | 0.268 | 254 | 250 |
| 4x95 rm | 45 | 6030 | 1000 | 220 | 0.193 | 305 | 308 |
| 4x120 rm | 51 | 7710 | 500 | 200 | 0.153 | 348 | 359 |
| 4x150 rm | 55 | 9200 | 500 | 210 | 0.124 | 392 | 412 |
| 4x185 rm | 61 | 11150 | 500 | 220 | 0.0991 | 444 | 475 |
| 4x240 rm | 68 | 13950 | 500 | 240 | 0.0754 | 517 | 564 |
| 4x300 rm | 76 | 18100 | 500 | 260 | 0.0601 | 585 | 649 |

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XBY

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 XLPE insulation
3 Bedding
4 Galvanized double steel tape
5 PVC outer sheath


## SPECIFICATIONS

Code : N2XBY
Standards : VDE 0271
Rated Voltage : Uo/U=0.6/1 kV

Application :
Through steel tapes in the structure, cable is resistant to mechanical stress. Cable can be ideally used in hard working condition places such as industrial plants, power centres, etc. internally, externally or underground.


## PHYSICAL AND ELECTRICAL PROPERTIES

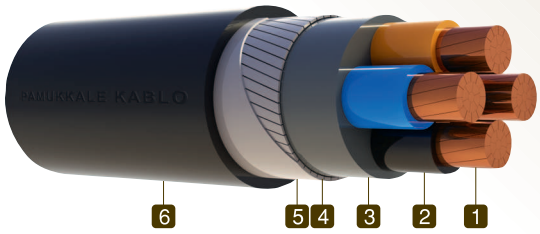
| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Standart delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Earth | Air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5 re | 13 | 255 | 1000 | 80 | 12.1 | 31 | 24 |
| 3x2.5 re | 14 | 305 | 1000 | 90 | 7.41 | 40 | 32 |
| 3x4 re | 15 | 375 | 1000 | 90 | 4.61 | 52 | 42 |
| 3x6 re | 16 | 460 | 1000 | 100 | 3.08 | 64 | 53 |
| 3x10 rm | 19 | 670 | 1000 | 110 | 1.83 | 86 | 74 |
| 3x16 rm | 21 | 890 | 1000 | 120 | 1.15 | 112 | 98 |
| 4x1.5 re | 14 | 290 | 1000 | 90 | 12.1 | 31 | 24 |
| 4x2.5 re | 15 | 350 | 1000 | 90 | 7.41 | 40 | 32 |
| 4x4 re | 16 | 440 | 1000 | 100 | 4.61 | 52 | 42 |
| 4x6 re | 17 | 550 | 1000 | 100 | 3.08 | 64 | 53 |
| 4x10 rm | 20 | 800 | 1000 | 120 | 1.83 | 86 | 74 |
| 4x16 rm | 23 | 1080 | 1000 | 130 | 1.15 | 112 | 98 |
| 4x25 rm | 26 | 1540 | 1000 | 140 | 0.720 | 145 | 133 |
| 4x35 rm | 28 | 2020 | 1000 | 150 | 0.524 | 174 | 162 |
| 4x50 rm | 32 | 2580 | 1000 | 160 | 0.387 | 206 | 197 |
| 4x70 rm | 39 | 4020 | 1000 | 200 | 0.268 | 254 | 250 |
| 4x95 rm | 43 | 5140 | 1000 | 220 | 0.193 | 305 | 308 |
| 4x120 rm | 48 | 6380 | 500 | 180 | 0.153 | 348 | 359 |
| 4x150 rm | 52 | 7720 | 500 | 210 | 0.124 | 392 | 412 |
| 4x185 rm | 58 | 9520 | 500 | 220 | 0.0991 | 444 | 475 |
| 4x240 rm | 64 | 12150 | 500 | 240 | 0.0754 | 517 | 564 |
| 4x300 rm | 71 | 15100 | 500 | 260 | 0.0601 | 585 | 649 |

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XFGY

## CONSTRUCTION

1 Copper conductor (class 2)
2 XLPE insulation
3 PVC Bedding
4 Galvanized flat steel wire
5 Galvanized steel tape
6 PVC outer sheath




## SPECIFICATIONS

Code : N2XFGY
Standards : VDE 0271
Rated Voltage : Uo/U=0.6/1 kV

Application :
Through steel wires and tapes in the structure, cable is resistant to mechanical stress. Cable can be ideally used in hard working condition places such as industrial plants, power centres, etc. internally, externally, underground or in cable ducts.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Standart delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Earth | Air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x16/10 rm | 23 | 1320 | 1000 | 130 | 1.15 | 112 | 98 |
| 3x25/16 rm | 26 | 1760 | 1000 | 140 | 0.727 | 145 | 133 |
| 3x35/16 rm | 28 | 2150 | 1000 | 150 | 0.524 | 174 | 162 |
| 3x50/25 rm | 32 | 2775 | 1000 | 160 | 0.387 | 206 | 197 |
| 3x70/35 rm | 37 | 3750 | 1000 | 180 | 0.268 | 254 | 250 |
| 3x95/50 rm | 41 | 4800 | 1000 | 200 | 0.193 | 305 | 308 |
| 3x120/70 rm | 46 | 6020 | 500 | 180 | 0.153 | 348 | 359 |
| 3x150/70 rm | 49 | 7100 | 500 | 200 | 0.124 | 392 | 412 |
| 3x185/95 rm | 54 | 8700 | 500 | 210 | 0.0991 | 444 | 475 |
| 3x240/120 rm | 61 | 11050 | 500 | 220 | 0.0754 | 517 | 264 |
| 3x300/150 rm | 67 | 13750 | 500 | 240 | 0.0601 | 585 | 649 |
| 4x16 rm | 24 | 1380 | 1000 | 130 | 1.15 | 112 | 98 |
| 4x25 rm | 27 | 1910 | 1000 | 140 | 0.727 | 145 | 133 |
| 4x35 rm | 30 | 2400 | 1000 | 150 | 0.524 | 174 | 162 |
| 4x50 rm | 34 | 3100 | 1000 | 180 | 0.387 | 206 | 197 |
| 4x70 rm | 39 | 4200 | 1000 | 200 | 0.268 | 254 | 250 |
| 4x95 rm | 43 | 5400 | 1000 | 220 | 0.193 | 305 | 308 |
| 4x120 rm | 48 | 6650 | 500 | 180 | 0.153 | 348 | 359 |
| 4x150 rm | 52 | 8050 | 500 | 210 | 0.124 | 392 | 412 |
| 4x185 rm | 58 | 9900 | 500 | 220 | 0.0991 | 444 | 475 |
| 4x240 rm | 63 | 12300 | 500 | 220 | 0.0754 | 517 | 564 |
| 4x300 rm | 70 | 15350 | 500 | 240 | 0.0601 | 585 | 649 |

# XLPE INSULATED LOW VOLTAGE POWER CABLES

N2XCY

## CONSTRUCTION

1 Copper conductor (class1-2)
2 XLPE insulation
3 PVC filler
4 Concentric conductor
5 Copper tape as binder
6 PVC outer sheath


## SPECIFICATIONS

Code : N2XCY
Standards : VDE 0276 -603
Rated Voltage : Uo/U=0.6/1 kV

Application :
In indoor installation, in outdoor and underground cable ducts for power-stations, industrial plants and switching stations as well as local supply systems where increased protection is necessary.

Temperature Range

Max. Operating Temperature

Short Circuit Temperature


Flame Retardant
IEC 60332 -1-2

Min. Bending Radius

RoHS

## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Standart delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Conduit | Air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x1.5/1.5 re | 12 | 230 | 1000 | 80 | 12.1 | 31 | 25 |
| 3x2.5/2.5 re | 13 | 290 | 1000 | 80 | 7.41 | 40 | 33 |
| 3x4/4 re | 15 | 380 | 1000 | 90 | 4.61 | 52 | 43 |
| 3x6/6 re | 16 | 455 | 1000 | 100 | 3.08 | 65 | 54 |
| 3x10/10 rm | 19 | 690 | 1000 | 110 | 1.83 | 87 | 75 |
| 3x16/16 rm | 22 | 970 | 1000 | 120 | 1.15 | 113 | 100 |
| 3x25/16 rm | 24 | 1320 | 1000 | 130 | 0.727 | 146 | 136 |
| 3x35/16 rm | 27 | 1660 | 1000 | 140 | 0.524 | 176 | 165 |
| 3x50/25 rm | 30 | 2220 | 1000 | 150 | 0.387 | 208 | 201 |
| 3x70/35 rm | 35 | 3100 | 1000 | 180 | 0.268 | 256 | 255 |
| 3x95/50 rm | 39 | 4120 | 1000 | 200 | 0.193 | 307 | 314 |
| 3x120/70 rm | 43 | 5200 | 500 | 160 | 0.153 | 349 | 364 |
| 3x150/70 rm | 47 | 6300 | 500 | 180 | 0.124 | 391 | 416 |
| 3x185/95 rm | 52 | 7820 | 500 | 210 | 0.0991 | 442 | 480 |
| 3x240/120 rm | 60 | 10150 | 500 | 220 | 0.0754 | 509 | 565 |
| 3x300/150 rm | 66 | 12450 | 500 | 240 | 0.0601 | 569 | 643 |


NEXTROM
BCR 12


KKALE KABLO

# HALOGEN - FREE
# FLAME RETARDANT CABLES

H07Z-U I H07Z-R
H07Z1-U I H07Z1-R
H07Z-K
H07Z1-K
H05Z1Z1-F
NHXMH
N2XH
N2XH FE180

# HALOGEN FREE FLAME RETARDANT CABLES



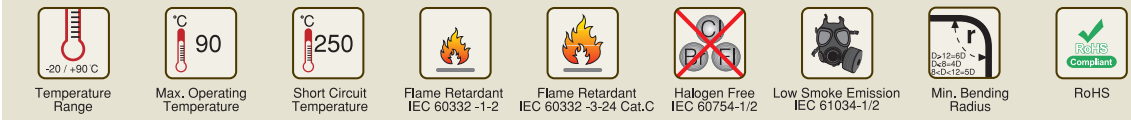
## CONSTRUCTION

1 Copper conductor (class 1-2)
2 XL-LSZH insulation


## SPECIFICATIONS

Code : H07Z-U I H07Z-R
Standards : HD 22.9 BS7211
Rated Voltage : Uo/U=450/750 V

Application :
These cables are used in densely populated places such as hospitals, schools, shopping centers and public buildings to secure human lives. In case of fire risk, heavy smoke and corrosive harmful gases "which are suffocative and dangerous" are not released from insulation of the cable. Can be used in steady installations over and under plaster and in conduit.




## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | Conduit | Wall |
| mm² | mm | kg/km | m | Ω / km (max.) | A | A |
| 1,5 re | 2.8 | 20 | 100 | 12,1 | 19 | 23 |
| 2,5 re | 3.4 | 31 | 100 | 7,41 | 26 | 31 |
| 4 re | 3.8 | 46 | 100 | 4,61 | 35 | 42 |
| 6 re | 4.3 | 65 | 100 | 3,08 | 45 | 54 |
| 1,5 rm | 3.0 | 21 | 100 | 12,1 | 19 | 23 |
| 2,5 rm | 3.6 | 33 | 100 | 7,41 | 26 | 31 |
| 4 rm | 4.1 | 48 | 100 | 4,61 | 35 | 42 |
| 6 rm | 4.7 | 69 | 100 | 3,08 | 45 | 54 |
| 10 rm | 6.0 | 114 | 1000 | 1,83 | 61 | 75 |
| 16 rm | 7.0 | 170 | 1000 | 1,15 | 81 | 100 |
| 25 rm | 8.4 | 260 | 1000 | 0,727 | 106 | 133 |
| 35 rm | 9.4 | 355 | 1000 | 0,524 | 131 | 164 |
| 50 rm | 11.0 | 482 | 1000 | 0,387 | 158 | 198 |
| 70 rm | 12.6 | 675 | 1000 | 0,268 | 200 | 253 |
| 95 rm | 14.6 | 925 | 1000 | 0,193 | 241 | 306 |
| 120 rm | 16.1 | 1160 | 1000 | 0,153 | 278 | 354 |
| 150 rm | 18.0 | 1450 | 1000 | 0,124 | 318 | - |
| 185 rm | 20.0 | 1780 | 1000 | 0,0991 | 362 | - |
| 240 rm | 22.8 | 2330 | 1000 | 0,0754 | 424 | - |

# HALOGEN FREE FLAME RETARDANT CABLES



## CONSTRUCTION

1 Copper conductor (class 1-2)
2 LSZH insulation


## SPECIFICATIONS

Code : H07Z1-U I H07Z1-R
Standards : HD 21.15
Rated Voltage : Uo/U=450/750 V

Application :
These cables are used in densely populated places such as hospitals, schools, shopping centers and public buildings to secure human lives. In case of fire risk, heavy smoke and corrosive harmful gases "which are suffocative and dangerous" are not released from insulation of the cable. Can be used in steady installations over and under plaster and in conduit.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | Conduit | Wall |
| $mm^2$ | mm | kg/km | m | Ω / km (max.) | A | A |
| 1,5 re | 2.8 | 20 | 100 | 12,1 | 15 | 18 |
| 2,5 re | 3.4 | 31 | 100 | 7,41 | 20 | 24 |
| 4 re | 3.8 | 46 | 100 | 4,61 | 26 | 32 |
| 6 re | 4.3 | 65 | 100 | 3,08 | 34 | 41 |
| 1,5 rm | 3.0 | 21 | 100 | 12,1 | 15 | 18 |
| 2,5 rm | 3.6 | 33 | 100 | 7,41 | 20 | 24 |
| 4 rm | 4.1 | 48 | 100 | 4,61 | 26 | 32 |
| 6 rm | 4.7 | 69 | 100 | 3,08 | 34 | 41 |
| 10 rm | 6.0 | 114 | 1000 | 1,83 | 46 | 57 |
| 16 rm | 7.0 | 170 | 1000 | 1,15 | 61 | 76 |
| 25 rm | 8.4 | 260 | 1000 | 0,727 | 80 | 101 |
| 35 rm | 9.4 | 355 | 1000 | 0,524 | 99 | 125 |
| 50 rm | 11.0 | 482 | 1000 | 0,387 | 119 | 151 |
| 70 rm | 12.6 | 675 | 1000 | 0,268 | 151 | 192 |
| 95 rm | 14.6 | 925 | 1000 | 0,193 | 182 | 232 |
| 120 rm | 16.1 | 1160 | 1000 | 0,153 | 210 | 269 |
| 150 rm | 18.0 | 1450 | 1000 | 0,124 | 240 | - |
| 185 rm | 20.0 | 1780 | 1000 | 0,0991 | 273 | - |
| 240 rm | 22.8 | 2330 | 1000 | 0,0754 | 320 | - |

# HALOGEN FREE FLAME RETARDANT CABLES



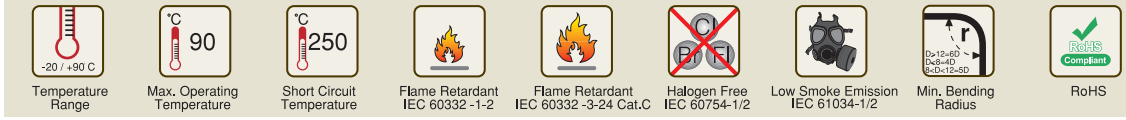
## CONSTRUCTION

1 Copper conductor (class 5)
2 XL-LSZH insulation


## SPECIFICATIONS

Code : H05Z-K I H07Z-K
Standards : HD 22.9 BS7211
Rated Voltage : Uo/U=450/750 V

Application :
These cables are used in densely populated places such as hospitals, schools, shopping centers and public buildings to secure human lives. In case of fire risk, heavy smoke and corrosive harmful gases "which are suffocative and dangerous" are not released from insulation of the cable. Can be used in steady installations over and under plaster and in conduit.




## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | Conduit | In the wall |
| mm² | mm | kg/km | m | Ω / km (max.) | A | A |
| 0,75 | 2.4 | 11 | 100 | 26 | 11 | 14 |
| 1 | 2.5 | 14 | 100 | 19,5 | 14 | 17 |
| 1,5 | 2.9 | 20 | 100 | 13,3 | 19 | 23 |
| 2,5 | 3.6 | 31 | 100 | 7,98 | 26 | 31 |
| 4 | 4.2 | 45 | 100 | 4,95 | 35 | 42 |
| 6 | 4.8 | 66 | 100 | 3,3 | 45 | 54 |
| 10 | 6.2 | 109 | 100 | 1,91 | 61 | 75 |
| 16 | 7.4 | 164 | 100 | 1,21 | 81 | 100 |
| 25 | 9.2 | 251 | 100 | 0,78 | 106 | 133 |
| 35 | 10.4 | 350 | 1000 | 0,554 | 131 | 164 |
| 50 | 12.4 | 500 | 1000 | 0,386 | 158 | 198 |
| 70 | 14.6 | 680 | 1000 | 0,272 | 200 | 253 |
| 95 | 16.6 | 900 | 1000 | 0,206 | 241 | 306 |
| 120 | 18.8 | 1150 | 1000 | 0,161 | 278 | 354 |
| 150 | 21.0 | 1420 | 1000 | 0,129 | 318 | - |
| 185 | 23.0 | 1720 | 1000 | 0,106 | 362 | - |
| 240 | 26.0 | 2350 | 1000 | 0,0801 | 424 | - |

# HALOGEN FREE FLAME RETARDANT CABLES



## CONSTRUCTION

1 Copper conductor (class 5)
2 LSZH insulation


## SPECIFICATIONS

Code : H05Z1-K I H07Z1-K
Standards : HD 21.15
Rated Voltage : Uo/U=450/750 V

Application :
These cables are used in densely populated places such as hospitals, schools, shopping centers and public buildings to secure human lives. In case of fire risk, heavy smoke and corrosive harmful gases "which are suffocative and dangerous" are not released from insulation of the cable. Can be used in steady installations over and under plaster and in conduit.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|
| | | | | | Conduit | In the wall |
| mm² | mm | kg/km | m | Ω / km (max.) | A | A |
| 0,75 | 2.4 | 11 | 100 | 26 | 9 | 11 |
| 1 | 2.5 | 14 | 100 | 19,5 | 11 | 14 |
| 1,5 | 2.9 | 20 | 100 | 13,3 | 15 | 18 |
| 2,5 | 3.6 | 31 | 100 | 7,98 | 20 | 24 |
| 4 | 4.2 | 45 | 100 | 4,95 | 26 | 32 |
| 6 | 4.8 | 66 | 100 | 3,3 | 34 | 41 |
| 10 | 6.2 | 109 | 100 | 1,91 | 46 | 57 |
| 16 | 7.4 | 164 | 100 | 1,21 | 61 | 76 |
| 25 | 9.2 | 251 | 100 | 0,78 | 80 | 101 |
| 35 | 10.4 | 350 | 1000 | 0,554 | 99 | 125 |
| 50 | 12.4 | 500 | 1000 | 0,386 | 119 | 151 |
| 70 | 14.6 | 680 | 1000 | 0,272 | 151 | 192 |
| 95 | 16.6 | 900 | 1000 | 0,206 | 182 | 232 |
| 120 | 18.8 | 1150 | 1000 | 0,161 | 210 | 269 |
| 150 | 21.0 | 1420 | 1000 | 0,129 | 240 | - |
| 185 | 23.0 | 1720 | 1000 | 0,106 | 273 | - |
| 240 | 26.0 | 2350 | 1000 | 0,0801 | 320 | - |

# HALOGEN FREE FLAME RETARDANT CABLES

H05Z1Z1-F

## CONSTRUCTION

1 Copper conductor (class 5)
2 LSZH insulation
3 LSZH outer sheath


## SPECIFICATIONS

Code : H05Z1Z1-F
Standards : HD 21.14
Rated Voltage : Uo/U=300/500 V

Application :
Used in places which are subject to fire danger such as hotels, hospitals, shopping centers, power plants, information technology centers and in places where human groups are carried by railway systems and also where valuable equipments are kept. These cables do not conduct flame during fire, do not create high smoke density, do not create corrosive ambients and therefore provides increased protection.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) |
|---|---|---|---|---|---|
| mm² | mm | kg/km | m | Ω / km (max.) | A |
| 2x0.75 | 6,3 | 56 | 100 | 26.0 | 6 |
| 2x1 | 6,6 | 64 | 100 | 19.5 | 10 |
| 2x1.5 | 7,5 | 85 | 100 | 13.3 | 16 |
| 2x2.5 | 9,3 | 133 | 100 | 7.98 | 25 |
| 2x4 | 10,5 | 180 | 100 | 4.95 | 32 |
| 2x6 | 11,6 | 240 | 100 | 3.3 | 61 |
| 3x0.75 | 6,7 | 67 | 100 | 26.0 | 6 |
| 3x1 | 7 | 76 | 100 | 19.5 | 10 |
| 3x1.5 | 8,2 | 108 | 100 | 13.3 | 16 |
| 3x2.5 | 10 | 168 | 100 | 7.98 | 25 |
| 3x4 | 11,4 | 230 | 100 | 4.95 | 32 |
| 3x6 | 12,5 | 306 | 100 | 3.3 | 61 |
| 4x0.75 | 7,5 | 87 | 100 | 26.0 | 6 |
| 4x1 | 8 | 101 | 100 | 19.5 | 10 |
| 4x1.5 | 9 | 136 | 100 | 13.3 | 16 |
| 4x2.5 | 11 | 205 | 100 | 7.98 | 25 |
| 4x4 | 12,5 | 282 | 1000 | 4.95 | 32 |
| 4x6 | 14 | 400 | 1000 | 3.3 | 61 |
| 5x1.5 | 10 | 168 | 100 | 13.3 | 16 |
| 5x2.5 | 12,2 | 255 | 100 | 7.98 | 25 |

# HALOGEN FREE FLAME RETARDANT CABLES

NHXMH

## CONSTRUCTION

1 Copper conductor (class 1-2)
2 XLPE insulation
3 LSZH filler
4 LSZH outer sheath


## SPECIFICATIONS

Code : NHXMH
Standards : VDE 0250-214
Rated Voltage : Uo/U=300/500 V

Application :
Used in places which are subject to fire danger such as hotels, hospitals, shopping centers, power plants, information technology centers and in places where human groups are carried by railway systems and also where valuable equipments are kept. These cables do not conduct flame during fire, do not create high smoke density, do not create corrosive ambients and therefore provides increased protection.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) |
|---|---|---|---|---|---|
| mm² | mm | kg/km | m | Ω / km (max.) | A |
| 2x1,5 re | 8,3 | 97 | 100 | 12,1 | 31 |
| 2x2,5 re | 9,1 | 127 | 100 | 7,41 | 40 |
| 2x4 re | 10 | 170 | 100 | 4,61 | 52 |
| 2x6 re | 11 | 225 | 100 | 3,08 | 64 |
| 2x10 rm | 14,5 | 375 | 1000 | 1,83 | 86 |
| 3x1,5 re | 8,8 | 120 | 100 | 12,1 | 31 |
| 3x2,5 re | 9,6 | 155 | 100 | 7,41 | 40 |
| 3x4 re | 10,8 | 210 | 100 | 4,61 | 52 |
| 3x6 re | 12,5 | 300 | 100 | 3,08 | 64 |
| 3x10 rm | 15 | 460 | 1000 | 1,83 | 86 |
| 4x1,5 re | 9,5 | 140 | 100 | 12,1 | 31 |
| 4x2,5 re | 10,5 | 190 | 100 | 7,41 | 40 |
| 4x4 re | 12 | 270 | 100 | 4,61 | 52 |
| 4x6 re | 13,4 | 365 | 100 | 3,08 | 64 |
| 4x10 rm | 16,5 | 580 | 1000 | 1,83 | 86 |
| 4x16 rm | 19 | 830 | 1000 | 1,15 | 112 |
| 4x25 rm | 23 | 1260 | 1000 | 0,727 | 145 |
| 5x1,5 re | 10,4 | 168 | 100 | 12,1 | 31 |
| 5x2,5 re | 11,4 | 227 | 100 | 7,41 | 40 |
| 5x4 re | 13,1 | 326 | 100 | 4.61 | 52 |
| 5x6 re | 14,5 | 444 | 100 | 3.08 | 64 |

# HALOGEN FREE FLAME RETARDANT CABLES

N2XH

## CONSTRUCTION

1 Copper conductor (Class 1- 2)
2 XLPE insulation
3 LSZH filler
4 LSZH outer sheath


## SPECIFICATIONS

Code : N2XH
Standards : VDE 0276 -604
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used in places which are subject to fire danger such as hotels, hospitals, shopping centers, power plants, information technology centers and in places where human groups are carried by railway systems and also where valuable equipments are kept. These cables do not conduct flame during fire, do not create high smoke density, do not create corrosive ambients and therefore provides increased protection. Can be used internally, externally or in underground where no mechanical stress.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery drum type for 1000 m. cable | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Earth | | Air | |
| mm² | mm | kg/km | cm | Ω / km (max.) | A ⊙ ⊙ ⊙ | A | A ⊙ ⊙ ⊙ | A |
| 1x4 re | 7 | 73 | 60 | 4,61 | 82 | 54 | 57 | 44 |
| 1x6 re | 8 | 95 | 60 | 3,08 | 102 | 67 | 72 | 56 |
| 1x10 rm | 9 | 145 | 60 | 1,83 | 136 | 89 | 99 | 77 |
| 1x16 rm | 10 | 205 | 70 | 1,15 | 176 | 115 | 131 | 102 |
| 1x25 rm | 11 | 300 | 70 | 0,727 | 229 | 148 | 177 | 138 |
| 1x35 rm | 12 | 390 | 80 | 0,524 | 275 | 177 | 217 | 170 |
| 1x50 rm | 13 | 515 | 80 | 0,387 | 326 | 209 | 265 | 207 |
| 1x70 rm | 15 | 710 | 90 | 0,268 | 400 | 256 | 336 | 263 |
| 1x95 rm | 17 | 960 | 100 | 0,193 | 480 | 307 | 415 | 325 |
| 1x120 rm | 19 | 1200 | 110 | 0,153 | 548 | 349 | 485 | 380 |
| 1x150 rm | 21 | 1500 | 120 | 0,124 | 616 | 393 | 557 | 437 |
| 1x185 rm | 23 | 1850 | 130 | 0,0991 | 698 | 445 | 646 | 507 |
| 1x240 rm | 26 | 2380 | 140 | 0,0754 | 815 | 517 | 774 | 604 |
| 1x300 rm | 28 | 3000 | 150 | 0,0601 | 927 | 663 | 901 | 697 |
| 1x400 rm | 32 | 3800 | 160 | 0,0470 | 1064 | 749 | 1060 | 811 |
| 1x500 rm | 36 | 4880 | 180 | 0,0366 | 1227 | 843 | 1252 | 940 |

## PHYSICAL AND ELECTRICAL PROPERTIES

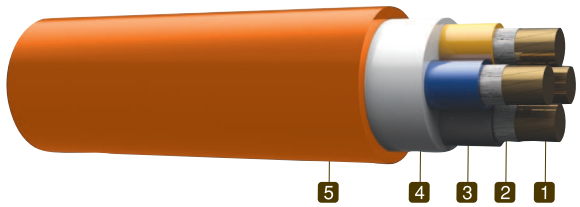
| Nominal cross-section | | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Earth | Air |
| $mm^2$ | | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 2x1,5 | re | 9 | 122 | 1000 | 60 | 12,1 | 31 | 24 |
| 2x2,5 | re | 10 | 154 | 1000 | 70 | 7,41 | 40 | 32 |
| 2x4 | re | 11 | 200 | 1000 | 70 | 4,61 | 52 | 42 |
| 2x6 | re | 12 | 260 | 1000 | 80 | 3,08 | 64 | 53 |
| 2x10 | rm | 15 | 395 | 1000 | 90 | 1,83 | 86 | 74 |
| 3x1,5 | re | 10 | 145 | 1000 | 70 | 12,1 | 31 | 24 |
| 3x2,5 | re | 11 | 185 | 1000 | 80 | 7,41 | 40 | 32 |
| 3x4 | re | 12 | 242 | 1000 | 80 | 4,61 | 52 | 42 |
| 3x6 | re | 13 | 316 | 1000 | 80 | 3,08 | 64 | 53 |
| 3x10 | rm | 16 | 500 | 1000 | 100 | 1,83 | 86 | 74 |
| 3x16/10 | rm | 19 | 840 | 1000 | 110 | 1,15 | 112 | 98 |
| 3x25/16 | rm | 23 | 1250 | 1000 | 130 | 0,727 | 145 | 133 |
| 3x35/16 | rm | 25 | 1550 | 1000 | 140 | 0,524 | 174 | 162 |
| 3x50/25 | rm | 28 | 2120 | 1000 | 150 | 0,387 | 206 | 197 |
| 3x70/35 | rm | 33 | 2950 | 1000 | 160 | 0,268 | 254 | 250 |
| 3x95/50 | rm | 37 | 3950 | 1000 | 180 | 0,193 | 305 | 308 |
| 3x120/70 | rm | 42 | 5080 | 1000 | 200 | 0,153 | 348 | 359 |
| 3x150/70 | rm | 45 | 6030 | 500 | 160 | 0,124 | 392 | 412 |
| 3x185/95 | rm | 51 | 7580 | 500 | 200 | 0,0991 | 444 | 475 |
| 3x240/120 | rm | 57 | 9750 | 500 | 220 | 0,0754 | 517 | 564 |
| 3x300/150 | rm | 64 | 12300 | 500 | 240 | 0,0601 | 585 | 649 |
| 4x1,5 | re | 11 | 170 | 1000 | 70 | 12,1 | 31 | 24 |
| 4x2,5 | re | 12 | 220 | 1000 | 80 | 7,41 | 40 | 32 |
| 4x4 | re | 13 | 295 | 1000 | 80 | 4,61 | 52 | 42 |
| 4x6 | re | 14 | 390 | 1000 | 90 | 3,08 | 64 | 53 |
| 4x10 | rm | 17 | 605 | 1000 | 100 | 1,83 | 86 | 74 |
| 4x16 | rm | 20 | 875 | 1000 | 120 | 1,15 | 112 | 98 |
| 4x25 | rm | 24 | 1300 | 1000 | 130 | 0,727 | 145 | 133 |
| 4x35 | rm | 26 | 1720 | 1000 | 140 | 0,524 | 174 | 162 |
| 4x50 | rm | 30 | 2300 | 1000 | 150 | 0,387 | 206 | 197 |
| 4x70 | rm | 35 | 3230 | 1000 | 180 | 0,268 | 254 | 250 |
| 4x95 | rm | 39 | 4340 | 1000 | 200 | 0,193 | 305 | 308 |
| 4x120 | rm | 44 | 5420 | 500 | 160 | 0,153 | 348 | 359 |
| 4x150 | rm | 48 | 6720 | 500 | 180 | 0,124 | 392 | 412 |
| 4x185 | rm | 54 | 8350 | 500 | 210 | 0,0991 | 444 | 475 |
| 4x240 | rm | 61 | 10810 | 500 | 220 | 0,0754 | 517 | 564 |
| 4x300 | rm | 68 | 13720 | 500 | 240 | 0,0601 | 585 | 649 |
| 5x1,5 | re | 12 | 200 | 1000 | 80 | 12,1 | 31 | 24 |
| 5x2,5 | re | 13 | 260 | 1000 | 80 | 7,41 | 40 | 32 |
| 5x4 | re | 14 | 350 | 1000 | 90 | 4,61 | 52 | 42 |
| 5x6 | re | 15 | 470 | 1000 | 100 | 3,08 | 64 | 53 |
| 5x10 | rm | 19 | 740 | 1000 | 110 | 1,83 | 86 | 74 |
| 5x16 | rm | 22 | 1070 | 1000 | 120 | 1,15 | 112 | 98 |
| 5x25 | rm | 26 | 1600 | 1000 | 140 | 0,727 | 145 | 133 |
| 5x35 | rm | 29 | 2130 | 1000 | 150 | 0,524 | 174 | 162 |

# HALOGEN FREE FLAME RETARDANT CABLES

N2XH FE180

## CONSTRUCTION

1 Copper conductor (Class 1- 2)
2 Mica tape
3 XLPE insulation
4 LSZH filler
5 LSZH outer sheath




## SPECIFICATIONS

Code : N2XH FE180
Standards : VDE 0276 -604
Rated Voltage : Uo/U=0.6/1 kV

Application :
Used in places which are subject to fire danger such as hotels, hospitals, shopping centers, power plants, information technology centers and in places where human groups are carried by railway systems and also where valuable equipments are kept. These cables do not conduct flame during fire, do not create high smoke density, do not create corrosive ambients and therefore provides increased protection. Can be used internally, externally or in underground where no mechanical stress.


## PHYSICAL AND ELECTRICAL PROPERTIES

| Nominal cross-section | Overall diameter (approx.) | Net weight (approx.) | Delivery length | Delivery drum type | Conductor DC resistance at 20°C | Current carrying capacity in (30°C) | |
|---|---|---|---|---|---|---|---|
| | | | | | | Earth | Air |
| mm² | mm | kg/km | m | cm | Ω / km (max.) | A | A |
| 3x16/10 rm | 19 | 840 | 1000 | 110 | 1,15 | 112 | 98 |
| 3x25/16 rm | 23 | 1250 | 1000 | 130 | 0,727 | 145 | 133 |
| 3x35/16 rm | 25 | 1550 | 1000 | 140 | 0,524 | 174 | 162 |
| 3x50/25 rm | 28 | 2120 | 1000 | 150 | 0,387 | 206 | 197 |
| 3x70/35 rm | 33 | 2950 | 1000 | 160 | 0,268 | 254 | 250 |
| 3x95/50 rm | 37 | 3950 | 1000 | 180 | 0,193 | 305 | 308 |
| 3x120/70 rm | 42 | 5080 | 1000 | 200 | 0,153 | 348 | 359 |
| 3x150/70 rm | 45 | 6030 | 500 | 160 | 0,124 | 392 | 412 |
| 3x185/95 rm | 51 | 7580 | 500 | 200 | 0,0991 | 444 | 475 |
| 3x240/120 rm | 57 | 9750 | 500 | 220 | 0,0754 | 517 | 564 |
| 3x300/150 rm | 64 | 12300 | 500 | 240 | 0,0601 | 585 | 649 |
| 4x10 rm | 17 | 605 | 1000 | 100 | 1,83 | 86 | 74 |
| 4x16 rm | 20 | 875 | 1000 | 120 | 1,15 | 112 | 98 |
| 4x25 rm | 24 | 1300 | 1000 | 130 | 0,727 | 145 | 133 |
| 4x35 rm | 26 | 1720 | 1000 | 140 | 0,524 | 174 | 162 |
| 4x50 rm | 30 | 2300 | 1000 | 150 | 0,387 | 206 | 197 |
| 4x70 rm | 35 | 3230 | 1000 | 180 | 0,268 | 254 | 250 |
| 4x95 rm | 39 | 4340 | 1000 | 200 | 0,193 | 305 | 308 |
| 4x120 rm | 44 | 5420 | 500 | 160 | 0,153 | 348 | 359 |
| 4x150 rm | 48 | 6720 | 500 | 180 | 0,124 | 392 | 412 |
| 4x185 rm | 54 | 8350 | 500 | 210 | 0,0991 | 444 | 475 |
| 4x240 rm | 61 | 10810 | 500 | 220 | 0,0754 | 517 | 564 |
| 4x300 rm | 68 | 13720 | 500 | 240 | 0,0601 | 585 | 649 |