



## N2XBY Cu/XLPE/STA/PVC 0.6/1 kV

### DESCRIPTION:

Power cable 0.6/1 kV with Cu conductors,  
XLPE insulated, STA and PVC sheathed

### CABLE STRUCTURE:

**Conductor:** [re] Round solid conductor  
[rm] Circular stranded conductor  
[sm] Sector shape conductor

**Insulation:** XLPE

**Filler:** PVC

**Armour:** Galvanized steel tape  
helically applied.

**Out Sheath:** PVC or FR-PVC type ST2/ST8,  
black

### CODE DESIGNATION: N2XBY

### APPLICATION:

For installation indoors, in cable channels  
and in duct in ground in switchgear, power  
stations and industrial application, in harsh  
environments where a high level mechanical  
protection is required.

### European standards:

IEC 60502-1, VDE 0276-603, IS 1516.1,  
IEC/EN 60228 Flame retardant according  
to IEC/EN 60332-1

### Indonesia standards:

Conductor SNI IEC 60228, SPLN 41-1  
Insulation SNI IEC 60502 - 1; SPLN 41-9  
PVC Sheath Grade ST2 to IEC 60502-1,  
grade YM/2 to SPLN 41-2. Black colour.

### TECHNICAL DATA:

**Voltage Rating  $U_0/U$**

0.6/1kV

**Test Voltage :**

3.5kV

**Temperature Rating Maximum Operating:**

+90°C

**Maximum Short-Circuit:**

+250°C

**Minimum Bending Radius:**

12 × overall diameter

### CERTIFICATES:

We hold SAA, CE, TUV and CCC certifications for  
our product categories. Additionally, we possess  
other authoritative certifications recognized in  
various countries and regions. For further details  
on our certification portfolio, please do not  
hesitate to contact us.





## N2XBY Cu/XLPE/STA/PVC 0.6/1 kV

### Specifications

| Nom.Cross-<br>section Area | Nominal Thickness |                 | Overall<br>Diameter | Cable<br>Weight | DC Resistance<br>at 20°C<br>Insulation min | Current Carrying<br>Capacity at 30°C |           |
|----------------------------|-------------------|-----------------|---------------------|-----------------|--------------------------------------------|--------------------------------------|-----------|
|                            | Insulation        | Outer<br>Sheath |                     |                 |                                            | In Air                               | In Ground |
| mm <sup>2</sup>            | mm                | mm              | mm                  | km/kg           | Ω/km                                       | A                                    |           |
| 2×1.5 re                   | 0.7               | 1.8             | 17                  | 434             | 1121                                       | 31                                   | 24        |
| 2×1.5 rm                   | 0.7               | 1.8             | 17                  | 432             | 1020                                       | 31                                   | 24        |
| 2×2.5 re                   | 0.7               | 1.8             | 21                  | 675             | 940                                        | 41                                   | 32        |
| 2×2.5 rm                   | 0.7               | 1.8             | 21                  | 673             | 842                                        | 41                                   | 32        |
| 2×4 re                     | 0.7               | 1.8             | 21                  | 694             | 784                                        | 54                                   | 43        |
| 2×4 rm                     | 0.7               | 1.8             | 21                  | 690             | 704                                        | 54                                   | 43        |
| 2×6 re                     | 0.7               | 1.8             | 21                  | 719             | 667                                        | 68                                   | 54        |
| 2×6 rm                     | 0.7               | 1.8             | 21                  | 714             | 590                                        | 68                                   | 54        |
| 2×10 re                    | 0.7               | 1.8             | 18                  | 578             | 538                                        | 89                                   | 75        |
| 2×10 rm                    | 0.7               | 1.8             | 19                  | 627             | 473                                        | 89                                   | 75        |
| 2×16 rm                    | 0.7               | 1.8             | 21                  | 824             | 392                                        | 116                                  | 102       |
| 2×25 rm                    | 0.9               | 1.8             | 21                  | 1163            | 400                                        | 153                                  | 137       |
| 2×35 rm                    | 0.9               | 1.8             | 27                  | 1459            | 348                                        | 182                                  | 179       |
| 2×50 rm                    | 1.0               | 1.9             | 30                  | 1847            | 326                                        | 213                                  | 205       |
| 2×70 rm                    | 1.1               | 2.1             | 35                  | 2497            | 303                                        | 261                                  | 261       |
| 2×95 rm                    | 1.1               | 2.3             | 40                  | 3642            | 262                                        | 318                                  | 313       |
| 2×120 rm                   | 1.2               | 2.4             | 45                  | 4439            | 254                                        | 363                                  | 363       |
| 2×150 rm                   | 1.4               | 2.5             | 49                  | 5360            | 266                                        | 403                                  | 426       |
| 3×1.5 re                   | 0.7               | 1.8             | 17                  | 438             | 1121                                       | 27                                   | 21        |
| 3×1.5 rm                   | 0.7               | 1.8             | 17                  | 435             | 1020                                       | 27                                   | 21        |
| 3×2.5 re                   | 0.7               | 1.8             | 21                  | 683             | 940                                        | 29                                   | 37        |
| 3×2.5 rm                   | 0.7               | 1.8             | 21                  | 679             | 842                                        | 29                                   | 37        |
| 3×4 re                     | 0.7               | 1.8             | 21                  | 711             | 784                                        | 39                                   | 47        |
| 3×4 rm                     | 0.7               | 1.8             | 21                  | 706             | 704                                        | 39                                   | 47        |
| 3×6 re                     | 0.7               | 1.8             | 21                  | 751             | 667                                        | 50                                   | 60        |
| 3×6 rm                     | 0.7               | 1.8             | 17                  | 547             | 590                                        | 50                                   | 60        |
| 3×10 re                    | 0.7               | 1.8             | 18                  | 683             | 538                                        | 69                                   | 79        |
| 3×10 rm                    | 0.7               | 1.8             | 20                  | 735             | 473                                        | 69                                   | 79        |
| 3×16 rm                    | 0.7               | 1.8             | 22                  | 987             | 392                                        | 101                                  | 91        |



## N2XBY Cu/XLPE/STA/PVC 0.6/1 kV

### Specifications

| Nom.Cross-<br>section Area | Nominal Thickness |                 | Overall<br>Diameter | Cable<br>Weight | DC Resistance<br>at 20°C<br>Insulation min | Current Carrying<br>Capacity at 30°C |           |
|----------------------------|-------------------|-----------------|---------------------|-----------------|--------------------------------------------|--------------------------------------|-----------|
|                            | Insulation        | Outer<br>Sheath |                     |                 |                                            | In Air                               | In Ground |
| mm <sup>2</sup>            | mm                | mm              | mm                  | km/kg           | Ω/km                                       | A                                    |           |
| 3×25 rm                    | 0.9               | 1.8             | 26                  | 1415            | 400                                        | 132                                  | 119       |
| 3×35 rm                    | 0.9               | 1.9             | 28                  | 1807            | 348                                        | 156                                  | 148       |
| 3×50 rm                    | 1.0               | 2.0             | 32                  | 2309            | 326                                        | 187                                  | 182       |
| 3×70 rm                    | 1.1               | 2.2             | 38                  | 3524            | 303                                        | 233                                  | 228       |
| 3×70 sm                    | 1.1               | 2.0             | 32                  | 2648            | 303                                        | 233                                  | 228       |
| 3×95 rm                    | 1.1               | 2.3             | 43                  | 4579            | 262                                        | 278                                  | 278       |
| 3×95 sm                    | 1.1               | 2.1             | 35                  | 3490            | 262                                        | 278                                  | 278       |
| 3×120 rm                   | 1.2               | 2.5             | 48                  | 5610            | 254                                        | 324                                  | 324       |
| 3×120 sm                   | 1.2               | 2.3             | 41                  | 4735            | 254                                        | 324                                  | 324       |
| 3×150 rm                   | 1.4               | 2.6             | 52                  | 6791            | 266                                        | 358                                  | 367       |
| 3×150 sm                   | 1.4               | 2.4             | 44                  | 5686            | 266                                        | 358                                  | 367       |
| 3×185 rm                   | 1.6               | 2.8             | 58                  | 8364            | 271                                        | 403                                  | 421       |
| 3×185 sm                   | 1.5               | 2.5             | 49                  | 6969            | 271                                        | 403                                  | 421       |
| 3×240 rm                   | 1.7               | 3.1             | 66                  | 10706           | 252                                        | 471                                  | 494       |
| 3×240 sm                   | 1.7               | 2.7             | 54                  | 8877            | 252                                        | 471                                  | 494       |
| 3×300 rm                   | 1.8               | 3.3             | 72                  | 13115           | 240                                        | 529                                  | 568       |
| 3×300 sm                   | 1.8               | 2.9             | 59                  | 10908           | 240                                        | 529                                  | 568       |
| 4×1.5 re                   | 0.7               | 1.8             | 17                  | 441             | 1,121                                      | 27                                   | 21        |
| 4×1.5 rm                   | 0.7               | 1.8             | 17                  | 436             | 1,020                                      | 27                                   | 21        |
| 4×2.5 re                   | 0.7               | 1.8             | 17                  | 466             | 940                                        | 29                                   | 37        |
| 4×2.5 rm                   | 0.7               | 1.8             | 17                  | 461             | 842                                        | 29                                   | 37        |
| 4×4 re                     | 0.7               | 1.8             | 17                  | 502             | 784                                        | 39                                   | 47        |
| 4×4 rm                     | 0.7               | 1.8             | 17                  | 508             | 704                                        | 39                                   | 47        |
| 4×6 re                     | 0.7               | 1.8             | 18                  | 592             | 667                                        | 50                                   | 60        |
| 4×6 rm                     | 0.7               | 1.8             | 19                  | 628             | 590                                        | 50                                   | 60        |
| 4×10 re                    | 0.7               | 1.8             | 20                  | 804             | 538                                        | 69                                   | 79        |
| 4×10 rm                    | 0.7               | 1.8             | 21                  | 859             | 473                                        | 69                                   | 79        |
| 4×16 rm                    | 0.7               | 1.8             | 24                  | 1186            | 392                                        | 101                                  | 91        |
| 4×25 rm                    | 0.9               | 1.9             | 28                  | 1724            | 400                                        | 132                                  | 119       |
| 4×35 rm                    | 0.9               | 2.0             | 31                  | 2225            | 348                                        | 156                                  | 148       |
| 4×50 rm                    | 1.0               | 2.1             | 35                  | 2856            | 326                                        | 187                                  | 182       |



## N2XBY Cu/XLPE/STA/PVC 0.6/1 kV

### Specifications

| Nom. Cross-<br>section Area | Nominal Thickness |                 | Overall<br>Diameter | Cable<br>Weight | DC Resistance<br>at 20°C<br>Insulation min | Current Carrying<br>Capacity at 30°C |           |
|-----------------------------|-------------------|-----------------|---------------------|-----------------|--------------------------------------------|--------------------------------------|-----------|
|                             | Insulation        | Outer<br>Sheath |                     |                 |                                            | In Air                               | In Ground |
| mm <sup>2</sup>             | mm                | mm              | mm                  | km/kg           | Ω/km                                       | A                                    |           |
| 4 × 70 rm                   | 1.1               | 2.3             | 42                  | 4347            | 303                                        | 233                                  | 228       |
| 4 × 70 sm                   | 1.1               | 2.1             | 36                  | 3463            | 303                                        | 233                                  | 228       |
| 4 × 95 rm                   | 1.1               | 2.5             | 48                  | 5690            | 262                                        | 278                                  | 278       |
| 4 × 95 sm                   | 1.1               | 2.3             | 41                  | 4984            | 262                                        | 278                                  | 278       |
| 4 × 120 rm                  | 1.2               | 2.7             | 43                  | 6996            | 254                                        | 324                                  | 324       |
| 4 × 120 sm                  | 1.2               | 2.4             | 45                  | 6113            | 254                                        | 324                                  | 324       |
| 4 × 150 rm                  | 1.4               | 2.8             | 58                  | 8489            | 266                                        | 358                                  | 367       |
| 4 × 150 sm                  | 1.4               | 2.6             | 50                  | 7449            | 266                                        | 358                                  | 367       |
| 4 × 185 rm                  | 1.6               | 3.0             | 65                  | 10472           | 271                                        | 403                                  | 421       |
| 4 × 185 sm                  | 1.6               | 2.7             | 55                  | 9150            | 271                                        | 403                                  | 421       |
| 4 × 240 rm                  | 1.7               | 3.3             | 73                  | 13439           | 252                                        | 471                                  | 494       |
| 4 × 240 sm                  | 1.7               | 2.9             | 61                  | 11697           | 252                                        | 471                                  | 494       |
| 4 × 300 rm                  | 1.8               | 3.6             | 81                  | 16511           | 240                                        | 529                                  | 568       |
| 4 × 300 sm                  | 1.8               | 3.1             | 67                  | 14385           | 240                                        | 529                                  | 568       |
| 5 × 1.5 re                  | 0.7               | 1.8             | 17                  | 450             | 1,121                                      | 27                                   | 21        |
| 5 × 1.5 rm                  | 0.7               | 1.8             | 17                  | 444             | 1,020                                      | 27                                   | 21        |
| 5 × 2.5 re                  | 0.7               | 1.8             | 17                  | 480             | 940                                        | 29                                   | 37        |
| 5 × 2.5 rm                  | 0.7               | 1.8             | 17                  | 473             | 842                                        | 29                                   | 37        |
| 5 × 4 re                    | 0.7               | 1.8             | 18                  | 554             | 784                                        | 39                                   | 47        |
| 5 × 4 rm                    | 0.7               | 1.8             | 18                  | 587             | 704                                        | 39                                   | 47        |
| 5 × 6 re                    | 0.7               | 1.8             | 19                  | 697             | 667                                        | 50                                   | 60        |
| 5 × 6 rm                    | 0.7               | 1.8             | 20                  | 738             | 590                                        | 50                                   | 60        |
| 5 × 10 re                   | 0.7               | 1.8             | 21                  | 992             | 538                                        | 69                                   | 79        |
| 5 × 10 rm                   | 0.7               | 1.8             | 23                  | 1,010           | 473                                        | 69                                   | 79        |
| 5 × 16 rm                   | 0.7               | 1.8             | 26                  | 1,388           | 392                                        | 101                                  | 91        |
| 5 × 25 rm                   | 0.9               | 1.9             | 31                  | 2,044           | 400                                        | 132                                  | 119       |
| 5 × 35 rm                   | 0.9               | 2.1             | 34                  | 2,649           | 348                                        | 156                                  | 148       |
| 5 × 50 rm                   | 1.0               | 2.2             | 40                  | 3,805           | 326                                        | 187                                  | 182       |