



## Cu/XLPE/STA/PVC 0.6/1 kV (N2XBY) Control Cable

### DESCRIPTION:

Control 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

Insulation: XLPE

Filler: PVC

#### Armour:

Galvanized steel tape helically applied

#### Out Sheath:

PVC or FR-PVC type ST2/ST8, black

### CODE DESIGNATION: N2XBY

### APPLICATION:

Control cable for installations as underground,  
outdoor, indoor, inducts and where mechanical  
protection is required or for higher tensile  
stresses during installation and operation

### STANDARDS:

#### 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°

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.





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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           | MΩ/km                                      | A                                    |           |
| 7×1.5 re                   | 0.7               | 1.8             | 17                  | 457             | 1121                                       | 11                                   | 16        |
| 7×1.5 rm                   | 0.7               | 1.8             | 17                  | 449             | 1020                                       | 11                                   | 16        |
| 8×1.5 re                   | 0.7               | 1.8             | 17                  | 448             | 1121                                       | 11                                   | 16        |
| 8×1.5 rm                   | 0.7               | 1.8             | 17                  | 440             | 1020                                       | 11                                   | 16        |
| 10×1.5 re                  | 0.7               | 1.8             | 17                  | 438             | 1121                                       | 10                                   | 14        |
| 10×1.5 rm                  | 0.7               | 1.8             | 17                  | 431             | 1020                                       | 10                                   | 14        |
| 12×1.5 re                  | 0.7               | 1.8             | 17                  | 462             | 1121                                       | 10                                   | 14        |
| 12×1.5 rm                  | 0.7               | 1.8             | 18                  | 477             | 1020                                       | 10                                   | 14        |
| 14×1.5 re                  | 0.7               | 1.8             | 18                  | 505             | 1121                                       | 9                                    | 11        |
| 14×1.5 rm                  | 0.7               | 1.8             | 18                  | 520             | 1020                                       | 9                                    | 11        |
| 16×1.5 re                  | 0.7               | 1.8             | 19                  | 557             | 1121                                       | 9                                    | 11        |
| 16×1.5 rm                  | 0.7               | 1.8             | 19                  | 573             | 1020                                       | 9                                    | 11        |
| 19×1.5 re                  | 0.7               | 1.8             | 20                  | 620             | 1121                                       | 8                                    | 10        |
| 19×1.5 rm                  | 0.7               | 1.8             | 20                  | 637             | 1020                                       | 8                                    | 10        |
| 21×1.5 re                  | 0.7               | 1.8             | 20                  | 673             | 1121                                       | 8                                    | 10        |
| 21×1.5 rm                  | 0.7               | 1.8             | 21                  | 691             | 1020                                       | 8                                    | 10        |
| 24×1.5 re                  | 0.7               | 1.8             | 22                  | 766             | 1121                                       | 7                                    | 9         |
| 24×1.5 rm                  | 0.7               | 1.8             | 23                  | 788             | 1020                                       | 7                                    | 9         |
| 30×1.5 re                  | 0.7               | 1.8             | 24                  | 893             | 1121                                       | 7                                    | 9         |
| 30×1.5 rm                  | 0.7               | 1.8             | 24                  | 916             | 1020                                       | 7                                    | 9         |
| 40×1.5 re                  | 0.7               | 1.8             | 26                  | 1116            | 1121                                       | 6                                    | 8         |
| 40×1.5 rm                  | 0.7               | 1.8             | 27                  | 1143            | 1020                                       | 6                                    | 8         |
| 52×1.5 re                  | 0.7               | 1.9             | 29                  | 1400            | 1121                                       | 6                                    | 8         |
| 52×1.5 rm                  | 0.7               | 1.9             | 31                  | 1440            | 1020                                       | 6                                    | 8         |
| 61×1.5 re                  | 0.7               | 1.9             | 31                  | 1601            | 1121                                       | 5                                    | 7         |
| 61×1.5 rm                  | 0.7               | 2.0             | 32                  | 1644            | 1020                                       | 5                                    | 7         |



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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           | MΩ/km                                      | A                                    |           |
| 7×2.5 re                   | 0.7               | 1.8             | 17                  | 516             | 940                                        | 18                                   | 22        |
| 7×2.5 rm                   | 0.7               | 1.8             | 18                  | 544             | 842                                        | 18                                   | 22        |
| 8×2.5 re                   | 0.7               | 1.8             | 19                  | 573             | 940                                        | 18                                   | 22        |
| 8×2.5 rm                   | 0.7               | 1.8             | 19                  | 604             | 842                                        | 18                                   | 22        |
| 10×2.5 re                  | 0.7               | 1.8             | 21                  | 661             | 940                                        | 15                                   | 18        |
| 10×2.5 rm                  | 0.7               | 1.8             | 22                  | 698             | 842                                        | 15                                   | 18        |
| 12×2.5 re                  | 0.7               | 1.8             | 21                  | 729             | 940                                        | 15                                   | 18        |
| 12×2.5 rm                  | 0.7               | 1.8             | 22                  | 769             | 842                                        | 15                                   | 18        |
| 14×2.5 re                  | 0.7               | 1.8             | 22                  | 804             | 940                                        | 14                                   | 16        |
| 14×2.5 rm                  | 0.7               | 1.8             | 22                  | 848             | 842                                        | 14                                   | 16        |
| 16×2.5 re                  | 0.7               | 1.8             | 23                  | 881             | 940                                        | 14                                   | 16        |
| 16×2.5 rm                  | 0.7               | 1.8             | 24                  | 930             | 842                                        | 14                                   | 16        |
| 19×2.5 re                  | 0.7               | 1.8             | 24                  | 987             | 940                                        | 12                                   | 14        |
| 19×2.5 rm                  | 0.7               | 1.8             | 25                  | 1042            | 842                                        | 12                                   | 14        |
| 21×2.5 re                  | 0.7               | 1.8             | 25                  | 1566            | 940                                        | 12                                   | 14        |
| 21×2.5 rm                  | 0.7               | 1.8             | 27                  | 1125            | 842                                        | 12                                   | 14        |
| 24×2.5 re                  | 0.7               | 1.8             | 28                  | 1206            | 940                                        | 11                                   | 13        |
| 24×2.5 rm                  | 0.7               | 1.9             | 29                  | 1411            | 842                                        | 11                                   | 13        |
| 30×2.5 re                  | 0.7               | 1.9             | 29                  | 1498            | 940                                        | 11                                   | 13        |
| 30×2.5 rm                  | 0.7               | 1.9             | 31                  | 1498            | 842                                        | 11                                   | 13        |
| 40×2.5 re                  | 0.7               | 2.0             | 33                  | 1774            | 940                                        | 9                                    | 10        |
| 40×2.5 rm                  | 0.7               | 2.1             | 34                  | 1881            | 842                                        | 9                                    | 10        |
| 52×2.5 re                  | 0.7               | 2.2             | 38                  | 2580            | 940                                        | 9                                    | 10        |
| 52×2.5 rm                  | 0.7               | 2.2             | 40                  | 2737            | 842                                        | 9                                    | 10        |
| 61×2.5 re                  | 0.7               | 2.2             | 40                  | 2911            | 940                                        | 8                                    | 9         |
| 61×2.5 rm                  | 0.7               | 2.3             | 42                  | 3101            | 842                                        | 8                                    | 9         |



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**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           | MΩ/km                                      | A                                    |           |
| 7×4 re                     | 0.7               | 1.8             | 19                  | 657             | 784                                        | 25                                   | 27        |
| 7×4 rm                     | 0.7               | 1.8             | 20                  | 696             | 704                                        | 25                                   | 27        |
| 8×4 re                     | 0.7               | 1.8             | 20                  | 704             | 784                                        | 25                                   | 27        |
| 8×4 rm                     | 0.7               | 1.8             | 21                  | 747             | 704                                        | 25                                   | 27        |
| 10×4 re                    | 0.7               | 1.8             | 22                  | 849             | 784                                        | 21                                   | 23        |
| 10×4 rm                    | 0.7               | 1.8             | 24                  | 901             | 704                                        | 21                                   | 23        |
| 12×4 re                    | 0.7               | 1.8             | 23                  | 947             | 784                                        | 21                                   | 23        |
| 12×4 rm                    | 0.7               | 1.8             | 25                  | 1005            | 704                                        | 21                                   | 23        |
| 14×4 re                    | 0.7               | 1.8             | 24                  | 1053            | 784                                        | 19                                   | 21        |
| 14×4 rm                    | 0.7               | 1.8             | 26                  | 1118            | 704                                        | 19                                   | 21        |
| 16×4 re                    | 0.7               | 1.8             | 25                  | 1163            | 784                                        | 19                                   | 21        |
| 16×4 rm                    | 0.7               | 1.8             | 27                  | 2235            | 704                                        | 19                                   | 21        |
| 19×4 re                    | 0.7               | 1.8             | 27                  | 1315            | 784                                        | 17                                   | 18        |
| 19×4 rm                    | 0.7               | 1.8             | 28                  | 1452            | 704                                        | 17                                   | 18        |
| 21×4 re                    | 0.7               | 1.8             | 28                  | 1431            | 784                                        | 17                                   | 18        |
| 21×4 rm                    | 0.7               | 1.9             | 30                  | 1527            | 704                                        | 17                                   | 18        |
| 24×4 re                    | 0.7               | 1.9             | 31                  | 1632            | 784                                        | 15                                   | 16        |
| 24×4 rm                    | 0.7               | 2.0             | 33                  | 1742            | 704                                        | 15                                   | 16        |
| 30×4 re                    | 0.7               | 2.0             | 32                  | 1931            | 784                                        | 15                                   | 16        |
| 30×4 rm                    | 0.7               | 2.1             | 35                  | 2058            | 704                                        | 15                                   | 16        |
| 40×4 re                    | 0.7               | 2.2             | 37                  | 2814            | 784                                        | 13                                   | 14        |
| 40×4 rm                    | 0.7               | 2.2             | 40                  | 3003            | 704                                        | 13                                   | 14        |
| 52×4 re                    | 0.7               | 2.3             | 42                  | 3508            | 784                                        | 13                                   | 14        |
| 52×4 rm                    | 0.7               | 2.4             | 45                  | 3758            | 704                                        | 13                                   | 14        |
| 61×4 re                    | 0.7               | 2.4             | 45                  | 3995            | 784                                        | 11                                   | 11        |
| 61×4 rm                    | 0.7               | 2.5             | 48                  | 4285            | 704                                        | 11                                   | 11        |



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| 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           | MΩ/km                                      |                                      |           |
| 7×6 re                     | 0.7               | 1.8             | 20                  | 842             | 667                                        | 32                                   | 35        |
| 7×6 rm                     | 0.7               | 1.8             | 21                  | 896             | 590                                        | 32                                   | 35        |
| 8×6 re                     | 0.7               | 1.8             | 22                  | 896             | 667                                        | 32                                   | 35        |
| 8×6 rm                     | 0.7               | 1.8             | 23                  | 948             | 590                                        | 32                                   | 35        |
| 10×6 re                    | 0.7               | 1.8             | 25                  | 1088            | 667                                        | 27                                   | 30        |
| 10×6 rm                    | 0.7               | 1.8             | 26                  | 1151            | 590                                        | 27                                   | 30        |
| 12×6 re                    | 0.7               | 1.8             | 26                  | 1225            | 667                                        | 27                                   | 30        |
| 12×6 rm                    | 0.7               | 1.8             | 27                  | 1298            | 590                                        | 27                                   | 30        |
| 14×6 re                    | 0.7               | 1.8             | 27                  | 1374            | 667                                        | 25                                   | 26        |
| 14×6 rm                    | 0.7               | 1.8             | 29                  | 1459            | 590                                        | 25                                   | 26        |
| 16×6 re                    | 0.7               | 1.8             | 28                  | 1530            | 667                                        | 25                                   | 26        |
| 16×6 rm                    | 0.7               | 1.9             | 30                  | 1626            | 590                                        | 25                                   | 26        |
| 19×6 re                    | 0.7               | 1.9             | 30                  | 1750            | 667                                        | 22                                   | 23        |
| 19×6 rm                    | 0.7               | 2.0             | 32                  | 1858            | 590                                        | 22                                   | 23        |
| 21×6 re                    | 0.7               | 1.9             | 31                  | 1912            | 667                                        | 22                                   | 23        |
| 21×6 rm                    | 0.7               | 2.0             | 33                  | 2028            | 590                                        | 22                                   | 23        |
| 24×6 re                    | 0.7               | 2.0             | 34                  | 2181            | 667                                        | 19                                   | 21        |
| 24×6 rm                    | 0.7               | 2.2             | 38                  | 2684            | 590                                        | 19                                   | 21        |
| 30×6 re                    | 0.7               | 2.2             | 37                  | 2964            | 667                                        | 19                                   | 21        |
| 30×6 rm                    | 0.7               | 2.2             | 40                  | 3149            | 590                                        | 19                                   | 21        |
| 40×6 re                    | 0.7               | 2.3             | 42                  | 3745            | 667                                        | 17                                   | 17        |
| 40×6 rm                    | 0.7               | 2.4             | 45                  | 3994            | 590                                        | 17                                   | 17        |
| 52×6 re                    | 0.7               | 2.5             | 47                  | 4719            | 667                                        | 17                                   | 17        |
| 52×6 rm                    | 0.7               | 2.6             | 51                  | 5035            | 590                                        | 17                                   | 17        |
| 61×6 re                    | 0.7               | 2.6             | 50                  | 5404            | 667                                        | 15                                   | 15        |
| 61×6 rm                    | 0.7               | 2.7             | 54                  | 5760            | 590                                        | 15                                   | 15        |