



## YMvKmb Al

Power cable 0,6/1 kV with Al conductors, XLPE insulated and PVC sheathed

### APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc.

### TECHNICAL CHARACTERISTICS

CPR class: Dca – s3,d1,a3  
 Test voltage: 4 Kv  
 Rated voltage: 0,6/1 kV  
 Bending radius (min): single-core – 15D;  
 multicore- 12D  
 Min. laying temperature: 0°C  
 Max. working temperature: 90°C  
 Max. short-circuit temperature: 250°C

### CONSTRUCTION

Conductors: Al, class 2 according to EN 60228  
 Insulation: : XLPE compound  
 Bedding: Extruded elastomere or plastomere compound or plastic tape  
 Sheat: PVC compound

### STANDARD

HD 604 S1, IEC 60502-1

### CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

- 3-core (a): ● Green/Yellow ● Brown ● Blue  
 3-core (b): ● Black ● Brown ● Grey  
 4-core (a): ● Green/Yellow ● Brown ● Black ● Grey  
 4-core (b): ● Blue ● Brown ● Black ● Grey  
 5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

- Grey

*Other colours available on request*

### CERTIFICATION



## FOUR - CORE CABLES:

| NOMINAL CROSS-SECTION | CONDUCTOR CONSTRUCTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|------------------------|-------------------------|-------------------------|---------------------------|-----------------------|--------------|------------------------|
| mm <sup>2</sup>       |                        | Ω/km                    | A                       | A                         | mm                    | kg/km        | kg/km                  |
| 4x16                  | RM                     | 1,910                   | -                       | -                         | 18,7                  | 185,6        | 550                    |
| 4x25                  | RM                     | 1,200                   | 102                     | 112                       | 22,3                  | 290,0        | 782                    |
| 4x35                  | RM                     | 0,868                   | 126                     | 135                       | 25,0                  | 406,0        | 990                    |
| 4x50                  | RM                     | 0,641                   | 149                     | 158                       | 28,0                  | 580,0        | 1348                   |
| 4x70                  | RM                     | 0,443                   | 191                     | 196                       | 32,7                  | 812,0        | 1778                   |
| 4x95                  | RM                     | 0,320                   | 234                     | 234                       | 36,1                  | 1102,0       | 2259                   |
| 4x120                 | RM                     | 0,253                   | 273                     | 268                       | 40,4                  | 1392,0       | 2844                   |
| 4x150                 | RM                     | 0,206                   | 311                     | 300                       | 45,0                  | 1740,0       | 3491                   |
| 4x185                 | RM                     | 0,164                   | 360                     | 342                       | 50,0                  | 2146,0       | 4322                   |
| 4x240                 | RM                     | 0,125                   | 427                     | 398                       | 56,2                  | 2784,0       | 5433                   |
| 4x300                 | RM                     | 0,100                   | 507                     | 457                       | 61,9                  | 3480,0       | 6609                   |

## FIVE - CORE CABLES:

| NOMINAL CROSS-SECTION | CONDUCTOR CONSTRUCTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|------------------------|-------------------------|-------------------------|---------------------------|-----------------------|--------------|------------------------|
| mm <sup>2</sup>       |                        | Ω/km                    | A                       | A                         | mm                    | kg/km        | kg/km                  |
| 5x16                  | RM                     | 1,910                   | -                       | -                         | 20,3                  | 232,0        | 635                    |
| 5x25                  | RM                     | 1,200                   | 102                     | 112                       | 24,4                  | 362,5        | 907                    |
| 5x35                  | RM                     | 0,868                   | 126                     | 135                       | 27,4                  | 507,5        | 1154                   |
| 5x50                  | RM                     | 0,641                   | 149                     | 158                       | 31,8                  | 725,0        | 1598                   |
| 5x70                  | RM                     | 0,443                   | 191                     | 196                       | 36,3                  | 1015,0       | 2101                   |
| 5x95                  | RM                     | 0,320                   | 234                     | 234                       | 41,0                  | 1377,5       | 2702                   |
| 5x120                 | RM                     | 0,253                   | 273                     | 268                       | 45,6                  | 1740,0       | 3373                   |
| 5x150                 | RM                     | 0,206                   | 311                     | 300                       | 51,2                  | 2175,0       | 4172                   |

### THREE - CORE CABLES, SHAPED CONDUCTORS:

| NOMINAL CROSS-SECTION | CONDUCTOR CONSTRUCTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|------------------------|-------------------------|-------------------------|---------------------------|-----------------------|--------------|------------------------|
| mm <sup>2</sup>       |                        | Ω/km                    | A                       | A                         | mm                    | kg/km        | kg/km                  |
| 3x35                  | SM                     | 0,868                   | 126                     | 135                       | 20,5                  | 304,5        | 489                    |
| 3x50                  | SM                     | 0,641                   | 149                     | 158                       | 22,9                  | 435,0        | 646                    |
| 3x70                  | SM                     | 0,443                   | 191                     | 196                       | 26,5                  | 609,0        | 871                    |
| 3x95                  | SM                     | 0,320                   | 234                     | 234                       | 29,5                  | 826,5        | 1134                   |
| 3x120                 | SM                     | 0,253                   | 273                     | 268                       | 32,5                  | 1044,0       | 1404                   |
| 3x150                 | SM                     | 0,206                   | 311                     | 300                       | 37,0                  | 1305,0       | 1759                   |
| 3x185                 | SM                     | 0,164                   | 360                     | 342                       | 40,9                  | 1609,5       | 2144                   |
| 3x240                 | SM                     | 0,125                   | 427                     | 398                       | 45,7                  | 2088,0       | 2738                   |

### FOUR - CORE CABLES, SHAPED CONDUCTORS

| NOMINAL CROSS-SECTION | CONDUCTOR CONSTRUCTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|------------------------|-------------------------|-------------------------|---------------------------|-----------------------|--------------|------------------------|
| mm <sup>2</sup>       |                        | Ω/km                    | A                       | A                         | mm                    | kg/km        | kg/km                  |
| 4x35                  | SM                     | 0,868                   | 126                     | 135                       | 23,0                  | 406,0        | 612                    |
| 4x50                  | SM                     | 0,641                   | 149                     | 158                       | 26,0                  | 580,0        | 829                    |
| 4x70                  | SM                     | 0,443                   | 191                     | 196                       | 30,0                  | 812,0        | 1118                   |
| 4x95                  | SM                     | 0,320                   | 234                     | 234                       | 33,6                  | 1102,0       | 1464                   |
| 4x120                 | SM                     | 0,253                   | 273                     | 268                       | 37,6                  | 1392,0       | 1836                   |
| 4x150                 | SM                     | 0,206                   | 311                     | 300                       | 42,0                  | 1740,0       | 2266                   |
| 4x185                 | SM                     | 0,164                   | 360                     | 342                       | 46,6                  | 2146,0       | 2784                   |
| 4x240                 | SM                     | 0,125                   | 427                     | 398                       | 52,1                  | 2784,0       | 3557                   |