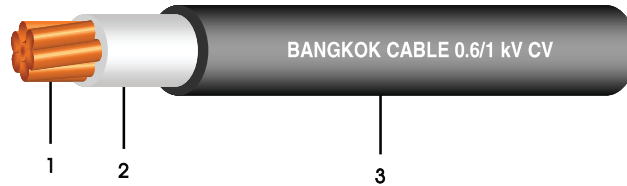


# 0.6/1 kV CV (FR-CV optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

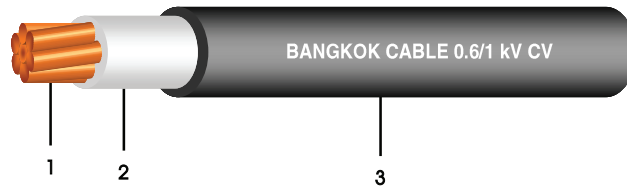
## Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

| Conductor            |              |              | Thickness of insulation | Thickness of sheath | Overall diameter | DC. conductor resistance at 20°C | Insulation resistance at 20°C | Current rating              |                                 | Cable weight    | Standard length |
|----------------------|--------------|--------------|-------------------------|---------------------|------------------|----------------------------------|-------------------------------|-----------------------------|---------------------------------|-----------------|-----------------|
| Cross-sectional area | No. of wires | Diameter     |                         |                     |                  |                                  |                               | in free air at 40°C ambient | direct burial in ground at 30°C |                 |                 |
| mm <sup>2</sup>      | (Min.)       | mm (Approx.) | mm (Nominal)            | mm (Nominal)        | mm (Approx.)     | Ω/km (Max.)                      | MΩ.km (Min.)                  | A                           | A                               | kg/km (Approx.) | m/drum          |
| 1.5                  | 7            | 1.59         | 0.7                     | 1.4                 | 6.5              | 12.1                             | 2,550                         | 27                          | 33                              | 50              | 500             |
| 2.5                  | 7            | 2.01         | 0.7                     | 1.4                 | 7.0              | 7.41                             | 2,100                         | 38                          | 43                              | 60              | 500             |
| 4                    | 7            | 2.55         | 0.7                     | 1.4                 | 7.5              | 4.61                             | 1,700                         | 51                          | 56                              | 80              | 500             |
| 6                    | 7            | 3.12         | 0.7                     | 1.4                 | 8.0              | 3.08                             | 1,450                         | 66                          | 71                              | 110             | 500             |
| 10                   | 6            | 3.72         | 0.7                     | 1.4                 | 9.0              | 1.83                             | 1,250                         | 92                          | 94                              | 150             | 500             |
| 16                   | 6            | 4.69         | 0.7                     | 1.4                 | 9.5              | 1.15                             | 1,000                         | 124                         | 120                             | 210             | 500             |
| 25                   | 6            | 5.90         | 0.9                     | 1.4                 | 11.5             | 0.727                            | 1,050                         | 166                         | 155                             | 310             | 500             |
| 35                   | 6            | 6.95         | 0.9                     | 1.4                 | 12.5             | 0.524                            | 900                           | 206                         | 185                             | 410             | 500             |
| 50                   | 6            | 8.33         | 1.0                     | 1.4                 | 14.0             | 0.387                            | 850                           | 259                         | 225                             | 550             | 500             |
| 70                   | 12           | 9.73         | 1.1                     | 1.4                 | 15.5             | 0.268                            | 800                           | 321                         | 275                             | 750             | 500             |
| 95                   | 15           | 11.43        | 1.1                     | 1.5                 | 17.5             | 0.193                            | 700                           | 391                         | 330                             | 1,020           | 500             |
| 120                  | 18           | 12.95        | 1.2                     | 1.5                 | 19.5             | 0.153                            | 650                           | 455                         | 375                             | 1,270           | 500             |
| 150                  | 18           | 14.27        | 1.4                     | 1.6                 | 21.5             | 0.124                            | 700                           | 525                         | 425                             | 1,560           | 500             |
| 185                  | 30           | 15.98        | 1.6                     | 1.6                 | 23.5             | 0.0991                           | 700                           | 602                         | 480                             | 1,940           | 500             |
| 240                  | 34           | 18.47        | 1.7                     | 1.7                 | 26.5             | 0.0754                           | 650                           | 711                         | 560                             | 2,520           | 500             |
| 300                  | 34           | 20.68        | 1.8                     | 1.8                 | 29.0             | 0.0601                           | 600                           | 821                         | 635                             | 3,130           | 500             |
| 400                  | 53           | 23.39        | 2.0                     | 1.9                 | 32.5             | 0.0470                           | 600                           | 988                         | 725                             | 3,980           | 500             |
| 500                  | 53           | 26.67        | 2.2                     | 2.0                 | 36.5             | 0.0366                           | 600                           | 1,140                       | 830                             | 5,080           | 500             |
| 630                  | 53           | 30.22        | 2.4                     | 2.2                 | 41.0             | 0.0283                           | 550                           | 1,323                       | 945                             | 6,540           | 400             |
| 800                  | 53           | 34.00        | 2.6                     | 2.3                 | 45.5             | 0.0221                           | 550                           | 1,543                       | 1,060                           | 8,310           | 400             |

# 0.6/1 kV CV (FR-CV optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

|                               |           |
|-------------------------------|-----------|
| Maximum conductor temperature | : 90°C    |
| Maximum circuit voltage       | : 1,000 V |
| AC test voltage               | : 3,500 V |

## Application

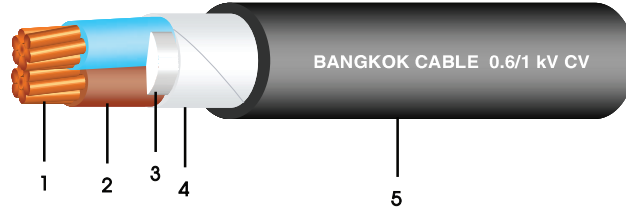
For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

| Conductor cross-sectional area<br>mm <sup>2</sup> | AC Resistance of conductor at 90°C<br>Ω/km (Approx.) | Inductance*<br>mH/km (Approx.) | Reactance*<br>Ω/km (Approx.) | Impedance*<br>Ω/km (Approx.) |
|---------------------------------------------------|------------------------------------------------------|--------------------------------|------------------------------|------------------------------|
| 1.5                                               | 15.43                                                | 0.663                          | 0.208                        | 15.43                        |
| 2.5                                               | 9.45                                                 | 0.626                          | 0.197                        | 9.45                         |
| 4                                                 | 5.88                                                 | 0.594                          | 0.187                        | 5.88                         |
| 6                                                 | 3.93                                                 | 0.564                          | 0.177                        | 3.93                         |
| 10                                                | 2.33                                                 | 0.550                          | 0.173                        | 2.34                         |
| 16                                                | 1.47                                                 | 0.515                          | 0.162                        | 1.48                         |
| 25                                                | 0.927                                                | 0.507                          | 0.159                        | 0.941                        |
| 35                                                | 0.668                                                | 0.491                          | 0.154                        | 0.686                        |
| 50                                                | 0.494                                                | 0.477                          | 0.150                        | 0.516                        |
| 70                                                | 0.342                                                | 0.467                          | 0.147                        | 0.372                        |
| 95                                                | 0.247                                                | 0.459                          | 0.144                        | 0.286                        |
| 120                                               | 0.196                                                | 0.455                          | 0.143                        | 0.243                        |
| 150                                               | 0.160                                                | 0.455                          | 0.143                        | 0.214                        |
| 185                                               | 0.128                                                | 0.451                          | 0.142                        | 0.191                        |
| 240                                               | 0.0988                                               | 0.446                          | 0.140                        | 0.171                        |
| 300                                               | 0.0800                                               | 0.441                          | 0.139                        | 0.160                        |
| 400                                               | 0.0642                                               | 0.439                          | 0.138                        | 0.152                        |
| 500                                               | 0.0520                                               | 0.436                          | 0.137                        | 0.147                        |
| 630                                               | 0.0427                                               | 0.434                          | 0.136                        | 0.143                        |
| 800                                               | 0.0360                                               | 0.432                          | 0.136                        | 0.140                        |

\* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter

# 0.6/1 kV CV (FR-CV optional)\*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Blue, Brown
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

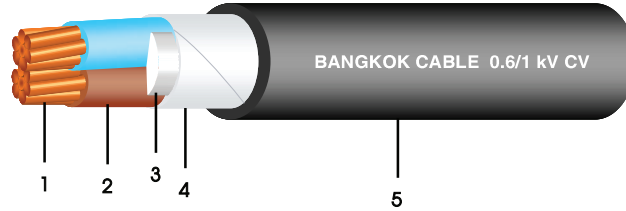
## Application

For general purpose power distribution in dry or wet location,  
installation exposed in conduit or duct or direct burial in ground.

| Conductor                   |                 |                 | Thickness<br>of<br>insulation | Thickness<br>of<br>sheath | Overall<br>diameter | DC.<br>conductor<br>resistance<br>at 20°C | Insulation<br>resistance<br>at 20°C | Current rating                    |                                       | Cable<br>weight    | Standard<br>length |
|-----------------------------|-----------------|-----------------|-------------------------------|---------------------------|---------------------|-------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|--------------------|--------------------|
| Cross-<br>sectional<br>area | No. of<br>wires | Diameter        |                               |                           |                     |                                           |                                     | in free air<br>at 40°C<br>ambient | direct burial<br>in ground<br>at 30°C |                    |                    |
| mm <sup>2</sup>             | (Min.)          | mm<br>(Approx.) | mm<br>(Nominal)               | mm<br>(Nominal)           | mm<br>(Approx.)     | Ω/km<br>(Max.)                            | MΩ.km<br>(Min.)                     | A                                 | A                                     | kg/km<br>(Approx.) | m/drum             |
| 1.5                         | 7               | 1.59            | 0.7                           | 1.8                       | 11.0                | 12.1                                      | 2,550                               | 24                                | 33                                    | 120                | 500                |
| 2.5                         | 7               | 2.01            | 0.7                           | 1.8                       | 11.5                | 7.41                                      | 2,100                               | 33                                | 44                                    | 160                | 500                |
| 4                           | 7               | 2.55            | 0.7                           | 1.8                       | 12.5                | 4.61                                      | 1,700                               | 44                                | 58                                    | 200                | 500                |
| 6                           | 7               | 3.12            | 0.7                           | 1.8                       | 14.0                | 3.08                                      | 1,450                               | 57                                | 73                                    | 260                | 500                |
| 10                          | 6               | 3.72            | 0.7                           | 1.8                       | 15.0                | 1.83                                      | 1,250                               | 78                                | 97                                    | 360                | 500                |
| 16                          | 6               | 4.69            | 0.7                           | 1.8                       | 17.0                | 1.15                                      | 1,000                               | 105                               | 125                                   | 510                | 500                |
| 25                          | 6               | 5.90            | 0.9                           | 1.8                       | 20.5                | 0.727                                     | 1,050                               | 135                               | 165                                   | 760                | 500                |
| 35                          | 6               | 6.95            | 0.9                           | 1.8                       | 22.5                | 0.524                                     | 900                                 | 168                               | 195                                   | 1,000              | 500                |
| 50                          | 6               | 8.33            | 1.0                           | 1.8                       | 26.0                | 0.387                                     | 850                                 | 212                               | 235                                   | 1,330              | 500                |
| 70                          | 12              | 9.73            | 1.1                           | 1.8                       | 29.5                | 0.268                                     | 800                                 | 263                               | 290                                   | 1,820              | 500                |
| 95                          | 15              | 11.43           | 1.1                           | 1.9                       | 33.0                | 0.193                                     | 700                                 | 321                               | 350                                   | 2,440              | 500                |
| 120                         | 18              | 12.95           | 1.2                           | 2.0                       | 36.5                | 0.153                                     | 650                                 | 373                               | 400                                   | 3,060              | 500                |
| 150                         | 18              | 14.27           | 1.4                           | 2.2                       | 40.5                | 0.124                                     | 700                                 | 431                               | 450                                   | 3,750              | 500                |
| 185                         | 30              | 15.98           | 1.6                           | 2.3                       | 45.0                | 0.0991                                    | 700                                 | 493                               | 505                                   | 4,700              | 400                |
| 240                         | 34              | 18.47           | 1.7                           | 2.5                       | 51.0                | 0.0754                                    | 650                                 | 584                               | 585                                   | 6,110              | 300                |
| 300                         | 34              | 20.68           | 1.8                           | 2.6                       | 56.0                | 0.0601                                    | 600                                 | 674                               | 665                                   | 7,550              | 250                |
| 400                         | 53              | 23.39           | 2.0                           | 2.9                       | 63.5                | 0.0470                                    | 600                                 | 812                               | 750                                   | 9,630              | 200                |

## 0.6/1 kV CV (FR-CV optional)\*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



### Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Blue, Brown
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

### Reference Standard :

IEC 60502-1

### Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

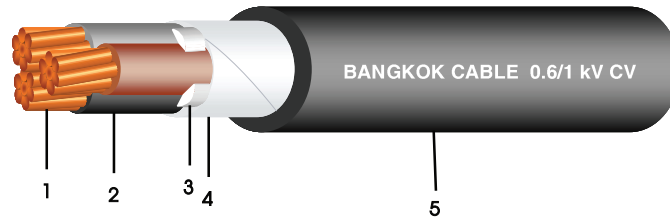
### Application

For general purpose power distribution in dry or wet location,  
installation exposed in conduit or duct or direct burial in ground.

| Conductor cross-sectional area<br>mm <sup>2</sup> | AC Resistance of conductor at 90°C<br>Ω/km (Approx.) | Inductance<br>mH/km (Approx.) | Reactance<br>Ω/km (Approx.) | Impedance<br>Ω/km (Approx.) |
|---------------------------------------------------|------------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 1.5                                               | 15.43                                                | 0.332                         | 0.104                       | 15.43                       |
| 2.5                                               | 9.45                                                 | 0.308                         | 0.0966                      | 9.45                        |
| 4                                                 | 5.88                                                 | 0.288                         | 0.0906                      | 5.88                        |
| 6                                                 | 3.93                                                 | 0.273                         | 0.0856                      | 3.93                        |
| 10                                                | 2.33                                                 | 0.261                         | 0.0819                      | 2.33                        |
| 16                                                | 1.47                                                 | 0.248                         | 0.0778                      | 1.47                        |
| 25                                                | 0.927                                                | 0.249                         | 0.0782                      | 0.931                       |
| 35                                                | 0.669                                                | 0.241                         | 0.0756                      | 0.673                       |
| 50                                                | 0.494                                                | 0.237                         | 0.0746                      | 0.500                       |
| 70                                                | 0.343                                                | 0.235                         | 0.0738                      | 0.351                       |
| 95                                                | 0.247                                                | 0.229                         | 0.0718                      | 0.258                       |
| 120                                               | 0.197                                                | 0.227                         | 0.0714                      | 0.209                       |
| 150                                               | 0.160                                                | 0.229                         | 0.0720                      | 0.176                       |
| 185                                               | 0.129                                                | 0.230                         | 0.0723                      | 0.148                       |
| 240                                               | 0.0996                                               | 0.227                         | 0.0713                      | 0.122                       |
| 300                                               | 0.0809                                               | 0.225                         | 0.0707                      | 0.107                       |
| 400                                               | 0.0653                                               | 0.225                         | 0.0705                      | 0.0961                      |

## 0.6/1 kV CV (FR-CV optional)\*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



### Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

### Reference Standard :

IEC 60502-1

### Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

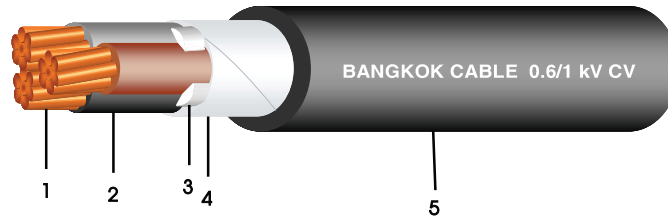
### Application

For general purpose power distribution in dry or wet location,  
installation exposed in conduit or duct or direct burial in ground.

| Conductor                   |                 |                 | Thickness<br>of<br>insulation | Thickness<br>of<br>sheath | Overall<br>diameter | DC.<br>conductor<br>resistance<br>at 20°C | Insulation<br>resistance<br>at 20°C | Current rating                    |                                       | Cable<br>weight    | Standard<br>length |
|-----------------------------|-----------------|-----------------|-------------------------------|---------------------------|---------------------|-------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|--------------------|--------------------|
| Cross-<br>sectional<br>area | No. of<br>wires | Diameter        |                               |                           |                     |                                           |                                     | in free air<br>at 40°C<br>ambient | direct burial<br>in ground<br>at 30°C |                    |                    |
| mm <sup>2</sup>             | (Min.)          | mm<br>(Approx.) | mm<br>(Nominal)               | mm<br>(Nominal)           | mm<br>(Approx.)     | Ω/km<br>(Max.)                            | MΩ.km<br>(Min.)                     | A                                 | A                                     | kg/km<br>(Approx.) | m/drum             |
| 1.5                         | 7               | 1.53            | 0.7                           | 1.8                       | 11.5                | 12.1                                      | 2,550                               | 21                                | 28                                    | 140                | 500                |
| 2.5                         | 7               | 1.98            | 0.7                           | 1.8                       | 12.0                | 7.41                                      | 2,100                               | 29                                | 37                                    | 190                | 500                |
| 4                           | 7               | 2.49            | 0.7                           | 1.8                       | 13.5                | 4.61                                      | 1,700                               | 38                                | 49                                    | 250                | 500                |
| 6                           | 7               | 3.09            | 0.7                           | 1.8                       | 14.5                | 3.08                                      | 1,450                               | 49                                | 61                                    | 330                | 500                |
| 10                          | 6               | 3.72            | 0.7                           | 1.8                       | 16.0                | 1.83                                      | 1,250                               | 68                                | 82                                    | 470                | 500                |
| 16                          | 6               | 4.69            | 0.7                           | 1.8                       | 18.0                | 1.15                                      | 1,000                               | 91                                | 105                                   | 670                | 500                |
| 25                          | 6               | 5.90            | 0.9                           | 1.8                       | 21.5                | 0.727                                     | 1,050                               | 116                               | 135                                   | 1,020              | 500                |
| 35                          | 6               | 6.95            | 0.9                           | 1.8                       | 24.0                | 0.524                                     | 900                                 | 144                               | 165                                   | 1,350              | 500                |
| 50                          | 6               | 8.33            | 1.0                           | 1.8                       | 27.5                | 0.387                                     | 850                                 | 180                               | 200                                   | 1,800              | 500                |
| 70                          | 12              | 9.73            | 1.1                           | 1.9                       | 31.5                | 0.268                                     | 800                                 | 224                               | 245                                   | 2,500              | 500                |
| 95                          | 15              | 11.43           | 1.1                           | 2.0                       | 35.5                | 0.193                                     | 700                                 | 271                               | 295                                   | 3,370              | 500                |
| 120                         | 18              | 12.95           | 1.2                           | 2.1                       | 39.5                | 0.153                                     | 650                                 | 315                               | 335                                   | 4,220              | 500                |
| 150                         | 18              | 14.27           | 1.4                           | 2.3                       | 43.5                | 0.124                                     | 700                                 | 363                               | 380                                   | 5,190              | 400                |
| 185                         | 30              | 15.98           | 1.6                           | 2.4                       | 48.5                | 0.0991                                    | 700                                 | 415                               | 425                                   | 6,490              | 400                |
| 240                         | 34              | 18.47           | 1.7                           | 2.6                       | 55.0                | 0.0754                                    | 650                                 | 490                               | 495                                   | 8,440              | 300                |
| 300                         | 34              | 20.68           | 1.8                           | 2.7                       | 60.5                | 0.0601                                    | 600                                 | 565                               | 560                                   | 10,470             | 250                |
| 400                         | 53              | 23.39           | 2.0                           | 3.0                       | 68.0                | 0.0470                                    | 600                                 | 678                               | 630                                   | 13,350             | 200                |

# 0.6/1 kV CV (FR-CV optional)\*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

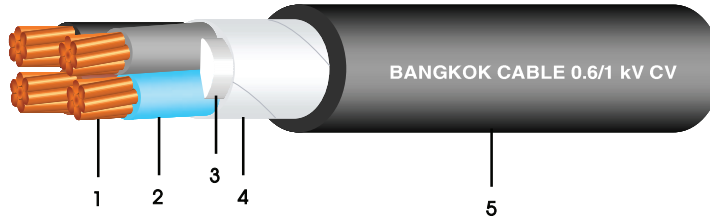
## Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

| Conductor cross-sectional area<br>mm <sup>2</sup> | AC Resistance of conductor at 90°C<br>Ω/km (Approx.) | Inductance<br>mH/km (Approx.) | Reactance<br>Ω/km (Approx.) | Impedance<br>Ω/km (Approx.) |
|---------------------------------------------------|------------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 1.5                                               | 15.43                                                | 0.332                         | 0.104                       | 15.43                       |
| 2.5                                               | 9.45                                                 | 0.308                         | 0.0966                      | 9.45                        |
| 4                                                 | 5.88                                                 | 0.288                         | 0.0906                      | 5.88                        |
| 6                                                 | 3.93                                                 | 0.273                         | 0.0856                      | 3.93                        |
| 10                                                | 2.33                                                 | 0.261                         | 0.0819                      | 2.33                        |
| 16                                                | 1.47                                                 | 0.248                         | 0.0778                      | 1.47                        |
| 25                                                | 0.927                                                | 0.249                         | 0.0782                      | 0.931                       |
| 35                                                | 0.669                                                | 0.241                         | 0.0756                      | 0.673                       |
| 50                                                | 0.494                                                | 0.237                         | 0.0746                      | 0.500                       |
| 70                                                | 0.343                                                | 0.235                         | 0.0738                      | 0.351                       |
| 95                                                | 0.247                                                | 0.229                         | 0.0718                      | 0.258                       |
| 120                                               | 0.197                                                | 0.227                         | 0.0714                      | 0.209                       |
| 150                                               | 0.160                                                | 0.229                         | 0.0720                      | 0.176                       |
| 185                                               | 0.129                                                | 0.230                         | 0.0723                      | 0.148                       |
| 240                                               | 0.0996                                               | 0.227                         | 0.0713                      | 0.122                       |
| 300                                               | 0.0809                                               | 0.225                         | 0.0707                      | 0.107                       |
| 400                                               | 0.0653                                               | 0.225                         | 0.0705                      | 0.0961                      |

# 0.6/1 kV CV (FR-CV optional)\*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Blue, Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

## Reference Standard :

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

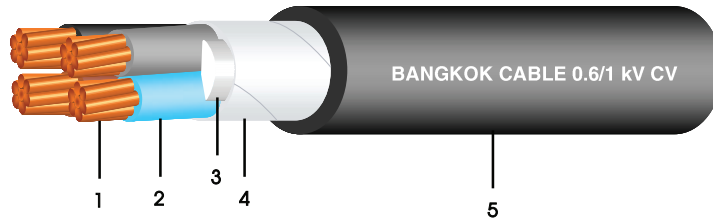
## Application

For general purpose power distribution in dry or wet location,  
installation exposed in conduit or duct or direct burial in ground.

| Conductor                   |                 |                 | Thickness<br>of<br>insulation | Thickness<br>of<br>sheath | Overall<br>diameter | DC.<br>conductor<br>resistance<br>at 20°C | Insulation<br>resistance<br>at 20°C | Current rating                    |                                       | Cable<br>weight    | Standard<br>length |
|-----------------------------|-----------------|-----------------|-------------------------------|---------------------------|---------------------|-------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|--------------------|--------------------|
| Cross-<br>sectional<br>area | No. of<br>wires | Diameter        |                               |                           |                     |                                           |                                     | in free air<br>at 40°C<br>ambient | direct burial<br>in ground<br>at 30°C |                    |                    |
| mm <sup>2</sup>             | (Min.)          | mm<br>(Approx.) | mm<br>(Nominal)               | mm<br>(Nominal)           | mm<br>(Approx.)     | Ω/km<br>(Max.)                            | MΩ.km<br>(Min.)                     | A                                 | A                                     | kg/km<br>(Approx.) | m/drum             |
| 1.5                         | 7               | 1.59            | 0.7                           | 1.8                       | 12.0                | 12.1                                      | 2,550                               | 21                                | 28                                    | 170                | 500                |
| 2.5                         | 7               | 2.01            | 0.7                           | 1.8                       | 13.0                | 7.41                                      | 2,100                               | 29                                | 37                                    | 230                | 500                |
| 4                           | 7               | 2.55            | 0.7                           | 1.8                       | 14.5                | 4.61                                      | 1,700                               | 38                                | 49                                    | 300                | 500                |
| 6                           | 7               | 3.12            | 0.7                           | 1.8                       | 16.0                | 3.08                                      | 1,450                               | 49                                | 61                                    | 410                | 500                |
| 10                          | 6               | 3.72            | 0.7                           | 1.8                       | 17.5                | 1.83                                      | 1,250                               | 68                                | 82                                    | 590                | 500                |
| 16                          | 6               | 4.69            | 0.7                           | 1.8                       | 19.5                | 1.15                                      | 1,000                               | 91                                | 105                                   | 860                | 500                |
| 25                          | 6               | 5.90            | 0.9                           | 1.8                       | 24.0                | 0.727                                     | 1,050                               | 116                               | 135                                   | 1,300              | 500                |
| 35                          | 6               | 6.95            | 0.9                           | 1.8                       | 26.5                | 0.524                                     | 900                                 | 144                               | 165                                   | 1,740              | 500                |
| 50                          | 6               | 8.33            | 1.0                           | 1.8                       | 30.5                | 0.387                                     | 850                                 | 180                               | 200                                   | 2,320              | 500                |
| 70                          | 12              | 9.73            | 1.1                           | 2.0                       | 35.0                | 0.268                                     | 800                                 | 224                               | 245                                   | 3,250              | 500                |
| 95                          | 15              | 11.43           | 1.1                           | 2.1                       | 39.0                | 0.193                                     | 700                                 | 271                               | 295                                   | 4,390              | 500                |
| 120                         | 18              | 12.95           | 1.2                           | 2.3                       | 44.0                | 0.153                                     | 650                                 | 315                               | 335                                   | 5,520              | 400                |
| 150                         | 18              | 14.27           | 1.4                           | 2.4                       | 48.5                | 0.124                                     | 700                                 | 363                               | 380                                   | 6,780              | 400                |
| 185                         | 30              | 15.98           | 1.6                           | 2.6                       | 54.0                | 0.0991                                    | 700                                 | 415                               | 425                                   | 8,480              | 300                |
| 240                         | 34              | 18.47           | 1.7                           | 2.8                       | 61.0                | 0.0754                                    | 650                                 | 490                               | 495                                   | 11,040             | 200                |
| 300                         | 34              | 20.68           | 1.8                           | 3.0                       | 67.5                | 0.0601                                    | 600                                 | 565                               | 560                                   | 13,720             | 150                |
| 400                         | 53              | 23.39           | 2.0                           | 3.3                       | 76.0                | 0.0470                                    | 600                                 | 678                               | 630                                   | 17,490             | 150                |

## 0.6/1 kV CV (FR-CV optional)\*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



### Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)  
Colour code : Blue, Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour,  
(Optional : FR-PVC)\*

### Reference Standard :

IEC 60502-1

### Classification

- Maximum conductor temperature : 90°C  
Maximum circuit voltage : 1,000 V  
AC test voltage : 3,500 V

### Application

For general purpose power distribution in dry or wet location,  
installation exposed in conduit or duct or direct burial in ground.

| Conductor cross-sectional area<br>mm <sup>2</sup> | AC Resistance of conductor at 90°C<br>Ω/km (Approx.) | Inductance<br>mH/km (Approx.) | Reactance<br>Ω/km (Approx.) | Impedance<br>Ω/km (Approx.) |
|---------------------------------------------------|------------------------------------------------------|-------------------------------|-----------------------------|-----------------------------|
| 1.5                                               | 15.43                                                | 0.356                         | 0.112                       | 15.43                       |
| 2.5                                               | 9.45                                                 | 0.331                         | 0.1039                      | 9.45                        |
| 4                                                 | 5.88                                                 | 0.311                         | 0.0979                      | 5.88                        |
| 6                                                 | 3.93                                                 | 0.296                         | 0.0929                      | 3.93                        |
| 10                                                | 2.33                                                 | 0.284                         | 0.0891                      | 2.34                        |
| 16                                                | 1.47                                                 | 0.271                         | 0.0851                      | 1.47                        |
| 25                                                | 0.927                                                | 0.272                         | 0.0854                      | 0.931                       |
| 35                                                | 0.669                                                | 0.264                         | 0.0829                      | 0.674                       |
| 50                                                | 0.494                                                | 0.260                         | 0.0818                      | 0.501                       |
| 70                                                | 0.343                                                | 0.258                         | 0.0810                      | 0.352                       |
| 95                                                | 0.247                                                | 0.252                         | 0.0791                      | 0.260                       |
| 120                                               | 0.197                                                | 0.250                         | 0.0787                      | 0.212                       |
| 150                                               | 0.160                                                | 0.252                         | 0.0793                      | 0.179                       |
| 185                                               | 0.129                                                | 0.253                         | 0.0795                      | 0.151                       |
| 240                                               | 0.0996                                               | 0.250                         | 0.0786                      | 0.127                       |
| 300                                               | 0.0809                                               | 0.248                         | 0.0780                      | 0.112                       |
| 400                                               | 0.0653                                               | 0.248                         | 0.0778                      | 0.1016                      |