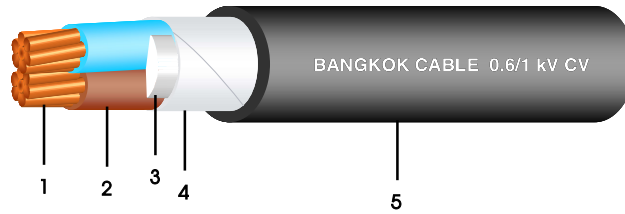


# 0.6/1 kV CV (FR-CV optional)\*

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

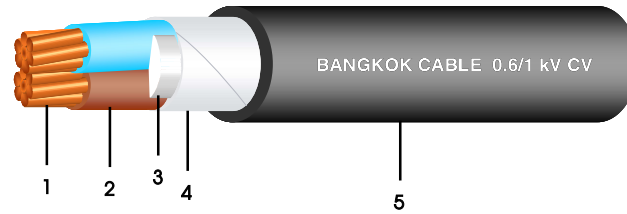
## Application

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

| Conductor            |              |              | Thickness 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                     | 1.8                 | 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<br>(Approx.) | Inductance<br>mH/km<br>(Approx.) | Reactance<br>Ω/km<br>(Approx.) | Impedance<br>Ω/km<br>(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                         |