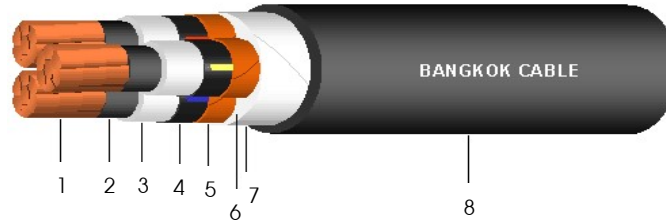


18/30(36) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Metallic screen : Copper tape
6. Filler : Polypropylene (Non-hygroscopic material)
7. Binding tape : Polyester tape
8. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 36 kV
 AC test voltage : 63 kV

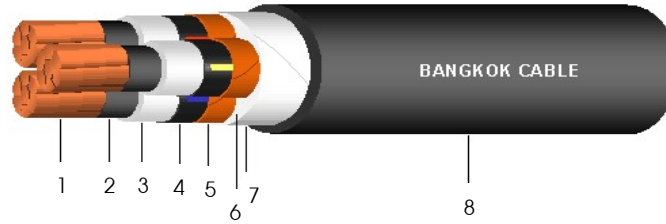
Application

For general purpose power distribution in dry or wet location.
 Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

| Conductor | | | Thickness of insulation mm (Nominal) | Diameter over insulation mm (Approx.) | Thickness of sheath mm (Nominal) | Overall diameter mm (Approx.) | DC. Conductor resistance at 20°C Ω/km (Max.) | Insulation resistance at 20°C MΩ.km (Min.) | Current rating | | Cable weight kg/km (Approx.) | Standard length m/drum |
|---|------------------------|-----------------------------|--|---|--|-------------------------------------|--|--|----------------------------------|--------------------------------------|------------------------------------|---------------------------|
| Cross-sectional area mm ² | No. of wires (Min.) | Diameter mm (Approx.) | | | | | | | in free air at 40°C ambient A | direct burial in ground at 30°C A | | |
| 50 | 6 | 8.33 | 8.0 | 25.9 | 3.1 | 67 | 0.387 | 4,030 | 220 | 205 | 4,720 | 300 |
| 70 | 12 | 9.73 | 8.0 | 27.3 | 3.2 | 70 | 0.268 | 3,690 | 270 | 250 | 5,560 | 300 |
| 95 | 15 | 11.43 | 8.0 | 29.0 | 3.3 | 74 | 0.193 | 3,350 | 330 | 300 | 6,630 | 300 |
| 120 | 18 | 12.95 | 8.0 | 30.6 | 3.4 | 78 | 0.153 | 3,100 | 380 | 340 | 7,630 | 300 |
| 150 | 18 | 14.27 | 8.0 | 31.9 | 3.5 | 81 | 0.124 | 2,910 | 430 | 380 | 8,670 | 250 |
| 185 | 30 | 15.98 | 8.0 | 33.6 | 3.6 | 85 | 0.0991 | 2,700 | 490 | 435 | 10,050 | 200 |
| 240 | 34 | 18.47 | 8.0 | 36.1 | 3.8 | 91 | 0.0754 | 2,440 | 580 | 505 | 12,220 | 150 |
| 300 | 34 | 20.68 | 8.0 | 38.3 | 4.0 | 96 | 0.0601 | 2,250 | 660 | 570 | 14,430 | 150 |
| 400 | 53 | 23.39 | 8.0 | 41.0 | 4.2 | 102 | 0.0470 | 2,060 | 765 | 650 | 17,410 | 100 |

18/30(36) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Conductor screen : Semi-conductive cross-linked polyethylene compound
- 3. Insulation : Cross-linked polyethylene (XLPE) compound
- 4. Insulation screen : Semi-conductive cross-linked polyethylene compound
- 5. Metallic screen : Copper tape
- 6. Filler : Polypropylene (Non-hygroscopic material)
- 7. Binding tape : Polyester tape
- 8. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 36 kV
- AC test voltage : 63 kV

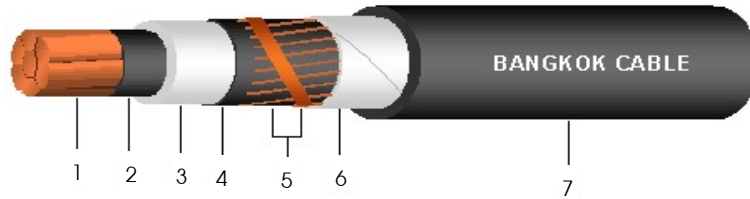
Application

For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

| Conductor cross-sectional area mm ² | AC Resistance of conductor at 90 °C Ω/km (Approx.) | Inductance mH/km (Approx.) | Reactance Ω/km (Approx.) | Impedance Ω/km (Approx.) |
|---|--|----------------------------------|--------------------------------|--------------------------------|
| 50 | 0.494 | 0.429 | 0.135 | 0.512 |
| 70 | 0.342 | 0.408 | 0.128 | 0.365 |
| 95 | 0.247 | 0.387 | 0.122 | 0.275 |
| 120 | 0.196 | 0.372 | 0.117 | 0.228 |
| 150 | 0.159 | 0.360 | 0.113 | 0.195 |
| 185 | 0.128 | 0.348 | 0.109 | 0.168 |
| 240 | 0.0979 | 0.332 | 0.104 | 0.143 |
| 300 | 0.0789 | 0.321 | 0.101 | 0.128 |
| 400 | 0.0629 | 0.309 | 0.0972 | 0.116 |

18/30(36) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Conductor screen : Semi-conductive cross-linked polyethylene compound
- 3. Insulation : Cross-linked polyethylene (XLPE) compound
- 4. Insulation screen : Semi-conductive cross-linked polyethylene compound
- 5. Metallic screen : Copper wires with copper contact tape
- 6. Binding tape : Polyester tape
- 7. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 36 kV
- AC test voltage : 63 kV

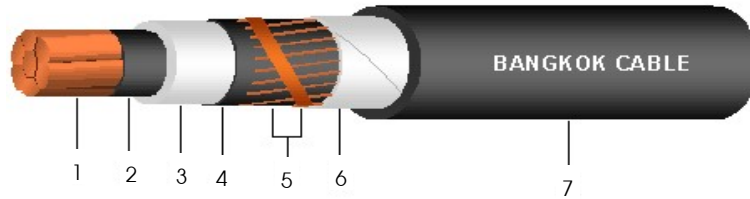
Application

For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

| Conductor | | | Thickness of insulation | Diameter over insulation | Area of metallic screen | 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 | direct burial in ground | | |
| mm ² | (Min.) | (Approx.) | mm (Nominal) | mm (Approx.) | mm ² | mm (Nominal) | mm (Approx.) | Ω/km (Max.) | MΩ.km (Min.) | A | A | kg/km (Approx.) | m/drum |
| 50 | 6 | 8.33 | 8.0 | 25.9 | 10 | 2.0 | 34 | 0.387 | 4,030 | 260 | 220 | 1,370 | 500 |
| 70 | 12 | 9.73 | 8.0 | 27.3 | 10 | 2.0 | 35 | 0.268 | 3,690 | 320 | 260 | 1,610 | 500 |
| 95 | 15 | 11.43 | 8.0 | 29.0 | 10 | 2.1 | 37 | 0.193 | 3,350 | 390 | 320 | 1,930 | 500 |
| 120 | 18 | 12.95 | 8.0 | 30.6 | 10 | 2.1 | 39 | 0.153 | 3,100 | 450 | 360 | 2,210 | 500 |
| 150 | 18 | 14.27 | 8.0 | 31.9 | 16 | 2.2 | 40 | 0.124 | 2,910 | 510 | 400 | 2,590 | 500 |
| 185 | 30 | 15.98 | 8.0 | 33.6 | 16 | 2.2 | 42 | 0.0991 | 2,700 | 580 | 460 | 2,990 | 500 |
| 240 | 34 | 18.47 | 8.0 | 36.1 | 25 | 2.3 | 45 | 0.0754 | 2,440 | 690 | 530 | 3,710 | 500 |
| 300 | 34 | 20.68 | 8.0 | 38.3 | 25 | 2.4 | 47 | 0.0601 | 2,250 | 790 | 600 | 4,370 | 500 |
| 400 | 53 | 23.39 | 8.0 | 41.0 | 25 | 2.5 | 50 | 0.0470 | 2,060 | 920 | 690 | 5,260 | 300 |
| 500 | 53 | 26.67 | 8.0 | 44.8 | 25 | 2.6 | 54 | 0.0366 | 1,840 | 1,070 | 780 | 6,440 | 300 |
| 630 | 53 | 30.22 | 8.0 | 48.4 | 25 | 2.7 | 58 | 0.0283 | 1,670 | 1,250 | 890 | 7,930 | 300 |
| 800 | 53 | 34.00 | 8.0 | 52.2 | 25 | 2.8 | 62 | 0.0221 | 1,520 | 1,430 | 1,000 | 9,730 | 250 |

18/30(36) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Conductor screen : Semi-conductive cross-linked polyethylene compound
- 3. Insulation : Cross-linked polyethylene (XLPE) compound
- 4. Insulation screen : Semi-conductive cross-linked polyethylene compound
- 5. Metallic screen : Copper wires with copper contact tape
- 6. Binding tape : Polyester tape
- 7. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 36 kV
- AC test voltage : 63 kV

Application

For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

| Conductor cross-sectional area mm ² | AC Resistance of conductor at 90 °C Ω/km (Approx.) | Inductance mH/km (Approx.) | Reactance Ω/km (Approx.) | Impedance Ω/km (Approx.) |
|---|---|-------------------------------|-----------------------------|-----------------------------|
| 50 | 0.494 | 0.655 | 0.206 | 0.535 |
| 70 | 0.342 | 0.629 | 0.198 | 0.395 |
| 95 | 0.246 | 0.608 | 0.191 | 0.312 |
| 120 | 0.196 | 0.594 | 0.187 | 0.270 |
| 150 | 0.159 | 0.580 | 0.182 | 0.242 |
| 185 | 0.127 | 0.567 | 0.178 | 0.219 |
| 240 | 0.0971 | 0.552 | 0.173 | 0.199 |
| 300 | 0.0779 | 0.538 | 0.169 | 0.186 |
| 400 | 0.0616 | 0.525 | 0.165 | 0.176 |
| 500 | 0.0488 | 0.515 | 0.162 | 0.169 |
| 630 | 0.0388 | 0.504 | 0.158 | 0.163 |
| 800 | 0.0315 | 0.494 | 0.155 | 0.158 |