

0.6/1 kV NYY-SWA

2 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH ARMOUR



Construction

- 1. Conductor : Solid or circular stranded annealed copper
- 2. Insulation : Polyvinyl chloride (PVC)
Colour code : Blue, Brown
- 3. Inner covering : Polyvinyl chloride (PVC), Black colour
- 4. Armour : Galvanized steel wires
- 5. Binding tape : Polyester tape
- 6. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 70°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

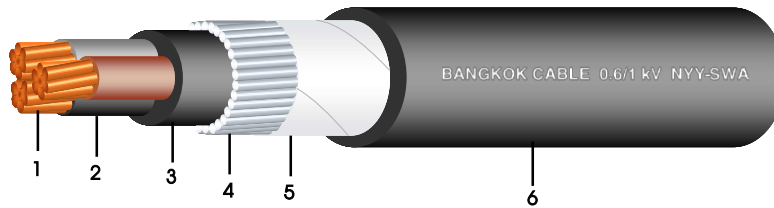
Application

For installation in underground or direct burial in ground.

| Conductor | | | Thickness of insulation mm (Nominal) | Thickness of inner covering mm (Approx.) | Diameter under armour mm (Approx.) | Diameter of wire armour mm (Nominal) | Thickness of outer sheath mm (Nominal) | Overall diameter mm (Approx.) | DC. conductor resistance at 20°C Ω/km (Max.) | Current rating in free air at 40°C ambient A | Cable weight kg/km (Approx.) | Standard length m/drum |
|---|------------------------|-----------------------------|--|--|--|--|--|-------------------------------------|--|---|------------------------------------|---------------------------|
| Cross-sectional area mm ² | No. of wires (Min.) | Diameter mm (Approx.) | | | | | | | | | | |
| 1.5 | 1 | 1.36 | 0.8 | 1.0 | 9.0 | 0.8 | 1.8 | 15.0 | 12.1 | 20 | 380 | 500 |
| 1.5 | 7 | 1.59 | 0.8 | 1.0 | 9.0 | 0.8 | 1.8 | 15.0 | 12.1 | 20 | 400 | 500 |
| 2.5 | 1 | 1.75 | 0.8 | 1.0 | 9.5 | 0.8 | 1.8 | 15.5 | 7.41 | 27 | 440 | 500 |
| 2.5 | 7 | 2.01 | 0.8 | 1.0 | 10.0 | 0.8 | 1.8 | 16.0 | 7.41 | 27 | 460 | 500 |
| 4 | 1 | 2.21 | 1.0 | 1.0 | 11.5 | 1.25 | 1.8 | 18.5 | 4.61 | 36 | 670 | 500 |
| 4 | 7 | 2.55 | 1.0 | 1.0 | 12.0 | 1.25 | 1.8 | 19.0 | 4.61 | 36 | 710 | 500 |
| 6 | 7 | 3.12 | 1.0 | 1.0 | 13.5 | 1.25 | 1.8 | 20.0 | 3.08 | 46 | 820 | 500 |
| 10 | 7 | 3.98 | 1.0 | 1.0 | 15.0 | 1.25 | 1.8 | 22.0 | 1.83 | 63 | 1,000 | 500 |
| 16 | 7 | 5.01 | 1.0 | 1.0 | 17.0 | 1.25 | 1.8 | 24.0 | 1.15 | 84 | 1,240 | 500 |
| 25 | 7 | 6.33 | 1.2 | 1.0 | 20.5 | 1.6 | 1.8 | 28.5 | 0.727 | 110 | 1,840 | 500 |
| 35 | 7 | 7.60 | 1.2 | 1.0 | 23.0 | 1.6 | 1.8 | 31.0 | 0.524 | 135 | 2,220 | 500 |
| 50 | 19 | 8.83 | 1.4 | 1.0 | 26.5 | 1.6 | 1.9 | 34.5 | 0.387 | 165 | 2,750 | 500 |
| 70 | 19 | 10.58 | 1.4 | 1.0 | 30.0 | 2.0 | 2.1 | 39.0 | 0.268 | 205 | 3,740 | 500 |
| 95 | 19 | 12.50 | 1.6 | 1.2 | 35.0 | 2.0 | 2.2 | 44.5 | 0.193 | 250 | 4,820 | 400 |
| 120 | 37 | 14.07 | 1.6 | 1.2 | 38.0 | 2.0 | 2.3 | 48.0 | 0.153 | 290 | 5,660 | 400 |
| 150 | 37 | 15.61 | 1.8 | 1.2 | 42.0 | 2.5 | 2.5 | 53.5 | 0.124 | 330 | 7,170 | 300 |
| 185 | 37 | 17.50 | 2.0 | 1.4 | 47.0 | 2.5 | 2.6 | 58.5 | 0.0991 | 375 | 8,640 | 250 |
| 240 | 37 | 20.07 | 2.2 | 1.4 | 53.5 | 2.5 | 2.8 | 65.0 | 0.0754 | 435 | 10,680 | 200 |
| 300 | 61 | 22.50 | 2.4 | 1.6 | 59.5 | 2.5 | 3.0 | 71.5 | 0.0601 | 495 | 12,890 | 100 |
| 400 | 61 | 25.38 | 2.6 | 1.6 | 66.0 | 2.5 | 3.2 | 79.0 | 0.0470 | 560 | 15,780 | 100 |

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3 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH ARMOUR



Construction

- 1. Conductor : Solid or circular stranded annealed copper
- 2. Insulation : Polyvinyl chloride (PVC)
Colour code : Brown, Black, Grey
- 3. Inner covering : Polyvinyl chloride (PVC), Black colour
- 4. Armour : Galvanized steel wires
- 5. Binding tape : Polyester tape
- 6. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 70°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

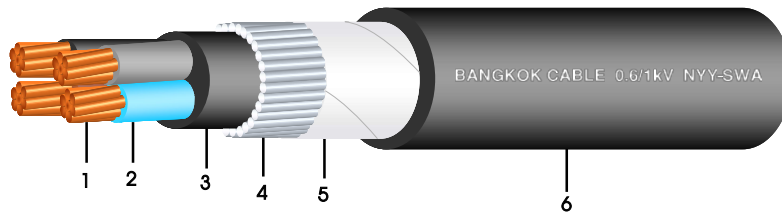
Application

For installation in underground or direct burial in ground.

| Conductor | | | Thickness of insulation mm (Nominal) | Thickness of inner covering mm (Approx.) | Diameter under armour mm (Approx.) | Diameter of wire armour mm (Nominal) | Thickness of outer sheath mm (Nominal) | Overall diameter mm (Approx.) | DC. conductor resistance at 20°C Ω/km (Max.) | Current rating in free air at 40°C ambient A | Cable weight kg/km (Approx.) | Standard length m/drum |
|---|------------------------|-----------------------------|--|--|--|--|--|-------------------------------------|--|---|------------------------------------|---------------------------|
| Cross-sectional area mm ² | No. of wires (Min.) | Diameter mm (Approx.) | | | | | | | | | | |
| 1.5 | 1 | 1.36 | 0.8 | 1.0 | 9.5 | 0.8 | 1.8 | 15.5 | 12.1 | 17 | 420 | 500 |
| 1.5 | 7 | 1.59 | 0.8 | 1.0 | 10.0 | 0.8 | 1.8 | 15.5 | 12.1 | 17 | 430 | 500 |
| 2.5 | 1 | 1.75 | 0.8 | 1.0 | 10.5 | 0.8 | 1.8 | 16.0 | 7.41 | 23 | 480 | 500 |
| 2.5 | 7 | 2.01 | 0.8 | 1.0 | 11.0 | 0.8 | 1.8 | 16.5 | 7.41 | 23 | 510 | 500 |
| 4 | 1 | 2.21 | 1.0 | 1.0 | 12.0 | 1.25 | 1.8 | 19.0 | 4.61 | 31 | 740 | 500 |
| 4 | 7 | 2.55 | 1.0 | 1.0 | 13.0 | 1.25 | 1.8 | 19.5 | 4.61 | 31 | 780 | 500 |
| 6 | 7 | 3.12 | 1.0 | 1.0 | 14.0 | 1.25 | 1.8 | 21.0 | 3.08 | 39 | 920 | 500 |
| 10 | 7 | 3.98 | 1.0 | 1.0 | 16.0 | 1.25 | 1.8 | 23.0 | 1.83 | 54 | 1,150 | 500 |
| 16 | 7 | 5.01 | 1.0 | 1.0 | 18.5 | 1.6 | 1.8 | 26.0 | 1.15 | 72 | 1,600 | 500 |
| 25 | 7 | 6.33 | 1.2 | 1.0 | 22.0 | 1.6 | 1.8 | 30.0 | 0.727 | 95 | 2,160 | 500 |
| 35 | 7 | 7.60 | 1.2 | 1.0 | 25.0 | 1.6 | 1.9 | 32.5 | 0.524 | 115 | 2,660 | 500 |
| 50 | 19 | 8.83 | 1.4 | 1.0 | 28.5 | 2.0 | 2.0 | 37.5 | 0.387 | 140 | 3,580 | 500 |
| 70 | 19 | 10.58 | 1.4 | 1.2 | 32.5 | 2.0 | 2.1 | 42.0 | 0.268 | 175 | 4,610 | 400 |
| 95 | 19 | 12.50 | 1.6 | 1.2 | 37.5 | 2.0 | 2.3 | 47.5 | 0.193 | 215 | 5,910 | 400 |
| 120 | 37 | 14.07 | 1.6 | 1.2 | 41.0 | 2.5 | 2.4 | 52.0 | 0.153 | 250 | 7,440 | 300 |
| 150 | 37 | 15.61 | 1.8 | 1.4 | 46.0 | 2.5 | 2.6 | 57.0 | 0.124 | 285 | 8,920 | 250 |
| 185 | 37 | 17.50 | 2.0 | 1.4 | 50.5 | 2.5 | 2.7 | 62.5 | 0.0991 | 325 | 10,660 | 200 |
| 240 | 37 | 20.07 | 2.2 | 1.6 | 58.0 | 2.5 | 2.9 | 70.0 | 0.0754 | 380 | 13,410 | 150 |
| 300 | 61 | 22.50 | 2.4 | 1.6 | 64.0 | 2.5 | 3.1 | 76.5 | 0.0601 | 430 | 16,140 | 100 |
| 400 | 61 | 25.38 | 2.6 | 1.8 | 71.5 | 3.15 | 3.4 | 86.0 | 0.0470 | 485 | 21,000 | 100 |

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- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

Application

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| Conductor | | | Thickness of insulation mm (Nominal) | Thickness of inner covering mm (Approx.) | Diameter under armour mm (Approx.) | Diameter of wire armour mm (Nominal) | Thickness of outer sheath mm (Nominal) | Overall diameter mm (Approx.) | DC. conductor resistance at 20°C Ω/km (Max.) | Current rating in free air at 40°C ambient A | Cable weight kg/km (Approx.) | Standard length m/drum |
|---|------------------------|-----------------------------|--|--|--|--|--|-------------------------------------|--|---|------------------------------------|---------------------------|
| Cross-sectional area mm ² | No. of wires (Min.) | Diameter mm (Approx.) | | | | | | | | | | |
| 1.5 | 1 | 1.36 | 0.8 | 1.0 | 10.0 | 0.8 | 1.8 | 16.0 | 12.1 | 17 | 470 | 500 |
| 1.5 | 7 | 1.59 | 0.8 | 1.0 | 10.5 | 0.8 | 1.8 | 16.5 | 12.1 | 17 | 490 | 500 |
| 2.5 | 1 | 1.75 | 0.8 | 1.0 | 11.0 | 1.25 | 1.8 | 18.0 | 7.41 | 23 | 660 | 500 |
| 2.5 | 7 | 2.01 | 0.8 | 1.0 | 11.5 | 1.25 | 1.8 | 18.5 | 7.41 | 23 | 700 | 500 |
| 4 | 1 | 2.21 | 1.0 | 1.0 | 13.5 | 1.25 | 1.8 | 20.0 | 4.61 | 31 | 850 | 500 |
| 4 | 7 | 2.55 | 1.0 | 1.0 | 14.0 | 1.25 | 1.8 | 21.0 | 4.61 | 31 | 900 | 500 |
| 6 | 7 | 3.12 | 1.0 | 1.0 | 15.5 | 1.25 | 1.8 | 22.5 | 3.08 | 39 | 1,060 | 500 |
| 10 | 7 | 3.98 | 1.0 | 1.0 | 17.5 | 1.6 | 1.8 | 25.5 | 1.83 | 54 | 1,490 | 500 |
| 16 | 7 | 5.01 | 1.0 | 1.0 | 20.0 | 1.6 | 1.8 | 28.0 | 1.15 | 72 | 1,890 | 500 |
| 25 | 7 | 6.33 | 1.2 | 1.0 | 24.5 | 1.6 | 1.9 | 32.5 | 0.727 | 95 | 2,590 | 500 |
| 35 | 7 | 7.60 | 1.2 | 1.0 | 27.5 | 1.6 | 2.0 | 35.5 | 0.524 | 115 | 3,220 | 500 |
| 50 | 19 | 8.83 | 1.4 | 1.2 | 32.0 | 2.0 | 2.1 | 41.0 | 0.387 | 140 | 4,400 | 400 |
| 70 | 19 | 10.58 | 1.4 | 1.2 | 36.0 | 2.0 | 2.3 | 46.0 | 0.268 | 175 | 5,640 | 400 |
| 95 | 19 | 12.50 | 1.6 | 1.2 | 42.0 | 2.5 | 2.5 | 53.0 | 0.193 | 215 | 7,750 | 300 |
| 120 | 37 | 14.07 | 1.6 | 1.4 | 46.0 | 2.5 | 2.6 | 57.5 | 0.153 | 250 | 9,220 | 250 |
| 150 | 37 | 15.61 | 1.8 | 1.4 | 51.0 | 2.5 | 2.7 | 62.5 | 0.124 | 285 | 10,950 | 200 |
| 185 | 37 | 17.50 | 2.0 | 1.6 | 57.0 | 2.5 | 2.9 | 69.0 | 0.0991 | 325 | 13,300 | 150 |
| 240 | 37 | 20.07 | 2.2 | 1.6 | 64.5 | 2.5 | 3.1 | 77.0 | 0.0754 | 380 | 16,660 | 100 |
| 300 | 61 | 22.50 | 2.4 | 1.6 | 71.0 | 3.15 | 3.4 | 85.5 | 0.0601 | 430 | 21,120 | 100 |
| 400 | 61 | 25.38 | 2.6 | 1.8 | 80.0 | 3.15 | 3.7 | 95.0 | 0.0470 | 485 | 26,170 | 100 |