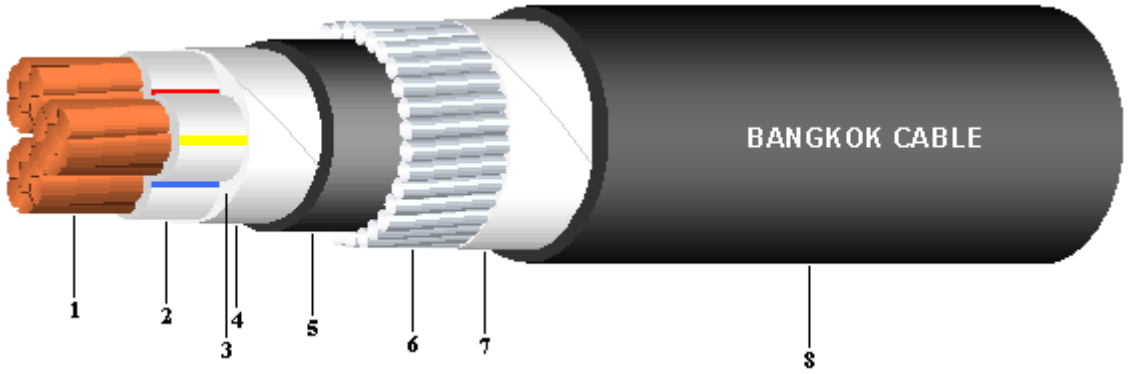
# 1.8/3(3.6) kV CV-SWA (CE Optional)*

IEC 60502-1 (3 CORE)




## Construction :

1. Conductor : Compact round stranded annealed copper wires
2. Insulation : Cross-linked polyethylene (XLPE)
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester / Spunbond tape
5. Inner sheath : Polyvinyl chloride (PVC), ( Optional : PE )*
6. Armour : Galvanized steel wires
7. Binding tape : Polyester / Spunbond tape
8. Outer sheath : Polyvinyl chloride (PVC), ( Optional : PE )*

## Application :

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

| Conductor | | | Thickness of Insulation (Nominal) | Thickness of Inner Sheath (Aprox.) | Daimeter of Armour wires (Nominal ) | Thickness of Outer Sheath (Nominal) | Overall diameter (Approx.) | Maximum DC. Conductor resistance at 20°C | Current rating in air | Cable weigth (Approx.) | Standard packing length |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | Number of wires (Min.) | Diameter (Approx.) | | | | | | | | | |
| $mm^2$ | | mm | mm | mm | mm | mm | mm | ohm/km | A | kg/km | m |
| 10 | 6 | 3.72 | 2.0 | 1.0 | 1.6 | 1.8 | 30 | 1.83 | 69 | 1500 | 500 |
| 16 | 6 | 4.69 | 2.0 | 1.0 | 1.6 | 1.9 | 32 | 1.15 | 92 | 1820 | 500 |
| 25 | 6 | 5.90 | 2.0 | 1.0 | 1.6 | 1.9 | 35 | 0.727 | 120 | 2280 | 500 |
| 35 | 6 | 6.95 | 2.0 | 1.0 | 2.0 | 2.0 | 38 | 0.524 | 150 | 2970 | 500 |
| 50 | 6 | 8.33 | 2.0 | 1.2 | 2.0 | 2.2 | 42 | 0.387 | 180 | 3650 | 500 |
| 70 | 12 | 9.73 | 2.0 | 1.2 | 2.0 | 2.3 | 46 | 0.268 | 225 | 4530 | 500 |
| 95 | 15 | 11.43 | 2.0 | 1.2 | 2.5 | 2.4 | 51 | 0.193 | 275 | 6040 | 300 |
| 120 | 18 | 12.95 | 2.0 | 1.4 | 2.5 | 2.5 | 55 | 0.153 | 315 | 7200 | 300 |
| 150 | 18 | 14.27 | 2.0 | 1.4 | 2.5 | 2.6 | 58 | 0.124 | 360 | 8300 | 300 |
| 185 | 30 | 15.98 | 2.0 | 1.4 | 2.5 | 2.8 | 62 | 0.0991 | 410 | 9840 | 250 |
| 240 | 34 | 18.47 | 2.0 | 1.6 | 2.5 | 3.0 | 69 | 0.0754 | 480 | 12200 | 200 |
| 300 | 34 | 20.68 | 2.0 | 1.6 | 2.5 | 3.1 | 74 | 0.0601 | 550 | 14500 | 150 |
| 400 | 53 | 23.39 | 2.0 | 1.6 | 3.15 | 3.4 | 82 | 0.0470 | 625 | 18700 | 150 |