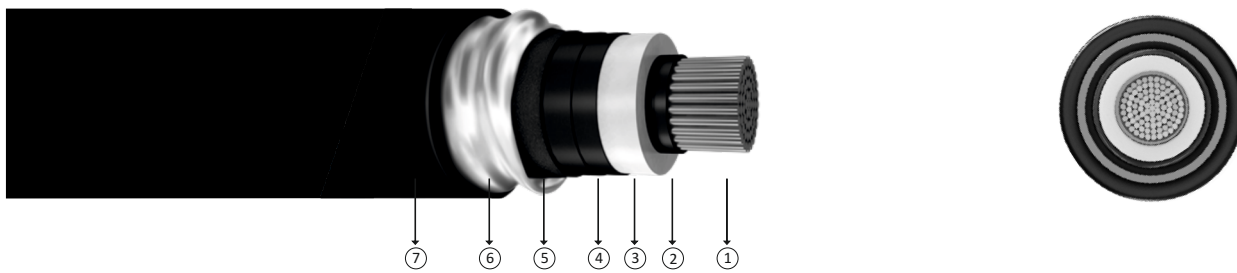


## 76/132 kV with corrugated aluminium sheath



**Code:** AL/XLPE/Corrugated AL/HDPE

**Standards:** VDE 0276 - 632, IEC 60840

### Technical Data

|                                |                        |
|--------------------------------|------------------------|
| Max. operating temperature     | : 90 °C                |
| Max. short circuit temperature | : 250 °C (max. 5 sec.) |
| Rated voltage                  | : 76/132kV             |
| Min. bending radius            | : 20 x D               |
| D                              | : Cable outer diameter |

### Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

### Construction

- 1 Stranded aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive swelling tape
- 6 Corrugated aluminium sheath
- 7 PE outer jacket

| DIMENSION AND WEIGHTS |                           |                     | ELECTRICAL PROPERTIES          |                                      |                               |               |                 |      |
|-----------------------|---------------------------|---------------------|--------------------------------|--------------------------------------|-------------------------------|---------------|-----------------|------|
| Nominal Cross Section | Overall Diameter (approx) | Net Weight (approx) | Operation Capacitance (approx) | DC Conductor Resistance at 20 °C Max | Current Carrying Capacity (A) |               |                 |      |
| mm <sup>2</sup>       | mm                        | kg/km               | µF/km                          | ohm/km                               | In ground at 20 °C            | In duct 20 °C | In air at 30 °C |      |
|                       |                           |                     |                                |                                      |                               |               | ***             | **   |
| 1x300/25              | 74,0                      | 5067                | 0,16                           | 0,100                                | 337                           | 360           | 546             | 510  |
| 1x400/35              | 77,0                      | 5533                | 0,17                           | 0,0778                               | 453                           | 411           | 690             | 626  |
| 1x500/35              | 80,0                      | 6034                | 0,19                           | 0,0605                               | 510                           | 450           | 770             | 615  |
| 1x630/35              | 84,0                      | 6740                | 0,21                           | 0,0469                               | 566                           | 512           | 907             | 842  |
| 1x800/35              | 90,0                      | 7756                | 0,23                           | 0,0367                               | 638                           | 586           | 1017            | 982  |
| 1x1000/50             | 94,0                      | 8596                | 0,23                           | 0,0291                               | 718                           | 647           | 1186            | 1098 |
| 1x1200/50             | 97,0                      | 9319                | 0,25                           | 0,0247                               | 760                           | 674           | 1260            | 1162 |
| 1x1600/70             | 104,0                     | 10910               | 0,27                           | 0,0212                               | 923                           | 841           | 1362            | 1221 |