

# Medium voltage cable

## BS 7835 Cu/XLPE/CTS/LSZH/(SWA/AWA)/LSZH



**Application:** The cables are power cables for power networks, underground, outdoors and in cable ducting, in particular for installation where fire, smoke emission and toxic fumes create a potential threat.

### Construction and technical data:

|  |   |
|--|---|
| <b>Conductor material:</b>                           | copper, bare  |
| <b>Conductor construction:</b>                       | Class 2 = stranded                                      |
| <b>Insulation:</b>                                   | XLPE  |
| <b>Electrical field control:</b>                     | inner and outer semiconducting layer (triple extrusion) |
| <b>Material inner sheath:</b>                        | halogen-free  |
| <b>Screen:</b>                                       | copper wire or tape on each core                        |
| <b>Armour:</b>                                       | steel- or aluminium-wires                               |
| <b>Sheathing material:</b>                           | FRNC-compound HM1                                       |
| <b>Colour of outer sheath:</b>                       | red   |
| <b>Flame-retardant:</b>                              | VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)                |
| <b>Smoke density:</b>                                | DIN EN 61034/IEC 61034                                  |
| <b>Halogen-free:</b>                                 | DIN EN 50267/IEC 60754                                  |
| <b>Max. temperature at conductor, °C:</b>            | 90 °C   |
| <b>Permitted outer cable temperature, moved, °C:</b> | 0 - 40 °C   |
| <b>Bending radius, fixed installation:</b>           | 12 x Ø  |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

### 6.35/11 kV

**Nominal voltage U<sub>0</sub>:** 6.35 kV

**Nominal voltage U:** 11 kV

| part no. | part name     |     | RI [Ohm/km] | Ø [mm] | Cu   | G [kg] |
|----------|---------------|-----|-------------|--------|------|--------|
| 013129   | AWA 01X120 RM | RMv | 0.153       | 34.8   | 1230 | 2160   |
| 014315   | SWA 03X120 RM | RMv | 0.153       | 65.4   | 3540 | 8700   |

19/33 kV

Nominal voltage U<sub>o</sub>: 19 kV

Nominal voltage U: 33 kV

| part no. | part name     |     | RI [Ohm/km] | Ø [mm] | Cu   | G [kg] |
|----------|---------------|-----|-------------|--------|------|--------|
| 015579   | SWA 01X95 RM  | RMv | 0.193       | 43.3   | 1094 | 2700   |
| 015488   | SWA 01X185 RM | RMv | 0.0991      | 51.5   | 1920 | 4000   |
| 014117   | SWA 01X240 RM | RMv | 0.0754      | 51.7   | 2587 | 4200   |

|    |                        |
|----|------------------------|
| RI | Conductor resistance   |
| Ø  | outer diameter approx. |
| Cu | Copper weight (GER)    |
| G  | net weight per 1000    |