

# TWENPOWER SINGLE-CORE CABLES

## DESIGN OF TWENPOWER SINGLE-CORE MEDIUM-VOLTAGE CABLES

characteristics

- circular single-core cable
- the conductor screen, the insulation and the insulation screen are applied in a single three-layer extrusion process and vulcanized under nitrogen pressure at one go. The insulation provides, also due to the "dry cross-linking process", good resistance to water-treeing. It retains, even after ageing, a high electrical strength.
- application: public utilities, industry, non-residential construction and related fields.



### Design:

#### conductors

circular conductors made of stranded copper wires or of solid aluminium. Optionally, aluminium conductors are also available in a stranded version, for greater flexibility.

#### conductor screen

semi-conductive polymer layer of at least 0.5 mm thick.

#### insulation

high-quality XLPE.

#### insulation screen

semi-conductive polymer layer. This layer is covered by a bedding of conductive swelling tape to ensure longitudinal watertightness.

#### earthing screen

copper wires with an open pattern counterwound copper strip.

#### options

##### longitudinally and quasi transversally watertight design

with a longitudinally and quasi transversally watertight design, swelling tape is applied on top of the earthing screen.

##### transversally and longitudinally watertight design

with this option, the space between the earthing screen wires is filled with a semi-conductive rubber-based filling sheath. An aluminium foil and a PE sheath are sandwiched on top of the filling sheath, with a copper wire for equipotential bonding to prevent any potential difference between copper screen and aluminium foil.

#### outer sheath

abrasion-resistant PE (ST7)

#### options

- armouring of copper flat wire
- lead-sheathed, especially designed for contaminated soils, as found in the petrochemical industry
- designs according to customer specifications.

#### cable designation

##### longitudinally and quasi transversally watertight

YMeKrvaslqwd ../. kV 1 x .. rs+as ..

YMeKrvaslqwd ../. kV 1 x .. Alrm+as ..

YMeKrvaslqwd ../. kV 1 x .. Alrs+as ..

##### transversally and longitudinally watertight

YMeKrvasdlwd ../. kV 1 x .. rs+as ..

YMeKrvasdlwd ../. kV 1 x .. Alrm+as ..

YMeKrvasdlwd ../. kV 1 x .. Alrs+as ..