

TWENPOWER THREE-CORE CABLES

DESIGN OF TWENPOWER THREE-CORE MEDIUM-VOLTAGE CABLES

characteristics:

- three circular cores, copper conductor, armoured, longitudinally watertight to a limited extent, flame-retardant PVC outer sheath.
- 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 and retains, even after ageing, a high electrical strength;
- application: industry, non-residential construction and related fields.



Design:

conductors

circular conductors made up of copper wires (compacted).

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 foil on each core for capacitive loading current in a bedding of conductive (swelling) tape.

filling

interspaces between the three cores are filled to create a circular bedding for further construction. Rubber-based filling.

inner sheath

PVC

armouring

steel wires + copper wires for short-circuit current (in most cases 50 mm² copper wire).

outer sheath

Flame-retardant PVC.

options

lead sheath, especially designed for contaminated soils, as found in the petrochemical industry.

Flame-retardant, halogen-free version

cable designation

VG-YMvKrvasmb ../. kV 3 x .. rs+as ..