

# TWENPOWER KUDI THREE-CORE CABLES

## DESIGN OF TWENPOWER THREE-CORE PLASTIC DISTRIBUTION CABLES

characteristics:

- three circular cores with solid aluminium conductors, un-armoured, longitudinally and quasi transversally water-tight, PE 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 of solid aluminium.

#### 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.

#### filling

interspaces between the three cores are filled with rubber filling wires. 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. This layer is covered by a bedding of swelling tape to ensure longitudinal watertightness.

#### outer sheath

abrasion-resistant PE (ST7)

#### cable designation

YMeKrvslqwd ../. kV 3 x ../Alrm+as ..

Twenpower three-core plastic distribution cables are available with glass fibre in the core as an option. This optical sensor is designed for temperature monitoring, see page 15.