

# 2YSLCYK-J 0,6/1 kV

Double screened cable for frequency converters, EMC\*

## Konstrukce

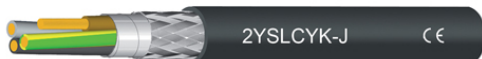
- Stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 5
- Core insulation of polyethylene (PE)
- Core colors: black, brown, grey, green-yellow, cores stranded in concentric layers
- First screening with special aluminum foil
- Second screening with tinned copper braiding, coverage approx. 80%
- Special PVC sheath, black
- Self-extinguishing and flame-retardant according to DIN VDE 0482-332-1-2/ DIN EN 60332-1-2/ IEC 60332-1-2
- Low mutual capacitance

## Použití

This motor power supply cable for frequency converters ensures electromagnetic compatibility in industrial buildings, facilities with operating equipment where electromagnetic interference might negatively influence surroundings. The cable is also suitable as supply and connecting cable for medium mechanical stress in fixed installation and forced movements in dry, moist and wet environments. The cable is suitable for open-air use. The cable is used in automotive industry, food industry, packaging, tool making machinery, handling technics, as a connecting cable to industrial pumps, ventilators, conveyor belts and air-conditioning installation. The optimal screening of those cables ensures an interference-free operation of frequency converters.

## Technická data

- Special flexible cables for frequency converters according to DIN VDE 0250
- Temperature range flexing from -5°C to +70°C; fixed from -40°C to +70°C
- Nominal voltage  $U_0/U$  600/1000 V
- Operating voltage max. a.c. and 3-phase 700/1200V, DC operation 900/1800V
- Test voltage a.c. 4000 V
- Insulation resistance min. 20 M $\Omega$  x km
- Coupling resistance max. 250  $\Omega$ /km
- Radiation resistance up to 80 x 10<sup>6</sup> cJ/kg (up to 80 Mrad)
- Mutual capacitance depending on cross-section: core/core 70 to 250 nF/km, core/braiding 110 to 410 nF/km
- Minimum bending radius
  - fixed installation for outer diameter up to 12 mm - 5 x cable diameter;
  - 12 to 20 mm - 7,5 x cable diameter; > 20 mm - 10 x cable diameter
  - free-movement for outer diameter up to 12 mm - 10 x cable diameter;
  - 12 to 20 mm - 15 x cable diameter; > 20 mm - 20 x cable diameter



# Popis produktu

## Advantages

- PE core insulation ensures low dielectric loss, double potential strength, long durability and low level of interference
- Installation in hazardous areas, meets EMC requirements according to EN 55011
- Low coupling resistance due to high EMC compatibility

## Note:

- \*EMC = Electromagnetic compatibility - recommended type
- To optimise EMC features we recommend large round contacts of the copper braiding on both ends.
- CE = the product is conformed with the EC Low-Voltage Directive 2014/35/EU.
- Conforms to RoHS.