# Indu Industrial Solutions

## Symmetrical Motor cable SymFlex® EMV-DRIVE | Typ: 2YSLCYKJB\*

#### Hse

The motor cables of the **SymFlex**® series have been optimized for use in frequency-controlled drives. The low working capacitance/inductance of the cable, enclosed by a combination of braided and foil shield (100 % covering) provide for minimum electromagnetic emissions to neighbouring electronic equipment circuits.

Specially recommended for:

High drive density, long cable lengths (>20 m), high pulse frequencies of FUs/controllers and sensitive electronic automation equipment in the environs of the drives.

#### **Applications**

The motor cables are suitable for permanent installation in dry, humid and wet rooms as well as for use outdoors and flexible use without additional mechanical stresses.

#### Design

Copper conductor bare. according to VDE 0295, Class 5 and IEC 60228 cl. 5, core Insulation 2 Y according to VDE 0207, core laid up with fillers, insulating foil, aluminium foil shield, CU braid galvanized (approx. 80%) PVC jacket insulation, core colours: 3 x green/yellow, blue, brown, black

#### **Electrical data**

Rated voltage: 600/1000 V
Test voltage: 4000 V
Insulation resistance: > 5 G0hm/km
Coupling resistance: Max. 250 0hm/km

Working capacitance:

Core/Core depending on cross section: 70 - 250 nF/km
Core/shield depending on cross section: 110 - 410 nF/km

Inductance

- Depending on cross section: 0,25 - 0,38 mH/km

#### Mechanical and thermal data

· Bending radi:

occasionally moved: 10-20 x cable diameter
permanently installed: 5-10 x cable diameter

• Temperature range:

- occasionally moved: +5 to +70 °C - permanently installed: -40 to +70 °C

### \*) Labeling according to norm

2Y insulation/jacket of thermoplastic polyethylene (PE)

SL control cable

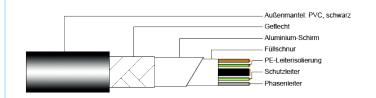
C shield of braided CU and aluminium shield foil YK outer sheath of polyvinyl chloride (PVC), black

J cable with green and yellow core

B ethylene/propylene rubber



SymFlex®



**Engineering drawing** 



Cable cross section

| Ordering details               | Cross section<br>in mm² | Cu-Inhalt<br>in kg/km | Außendurchmesser<br>in mm | Gewicht<br>in kg/km | Art. No.  |
|--------------------------------|-------------------------|-----------------------|---------------------------|---------------------|-----------|
| Motor cable SymFlex® EMV-DRIVE | 3×1,5+3G0,25            | 86,0                  | 10,9                      | 209                 | 122020000 |
| Motor cable SymFlex® EMV-DRIVE | 3x2,5+3G0,5             | 144,0                 | 11,9                      | 220                 | 122020001 |
| Motor cable SymFlex® EMV-DRIVE | 3x4,0+3G0,75            | 224,0                 | 13,5                      | 320                 | 122020002 |
| Motor cable SymFlex® EMV-DRIVE | 3x6,0+3G1,0             | 298,0                 | 15,0                      | 420                 | 122020003 |

Other cross sections on request!