

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

### Use

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 GOhm/km
- Coupling resistance: Max. 250 Ohm/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

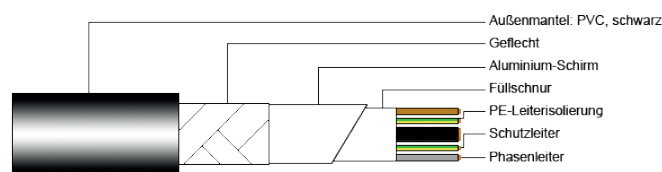
- Bending radi:
  - occasionally moved: 10-20 x cable diameter
  - permanently installed: 5-10 x cable diameter
- Temperature range:
  - occasionally moved: +5 to +70 °C
  - permanently installed: -40 to +70 °C

### \*) Labeling according to norm

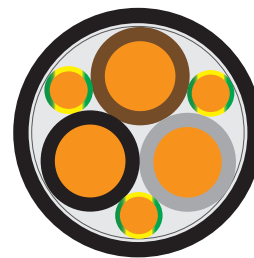
- |    |  |
|----|--|
| 2Y | insulation/jacket of thermoplastic polyethylene (PE) |
| SL | control cable  |
| C  | shield of braided CU and aluminium shield foil       |
| YK | outer sheath of polyvinyl chloride (PVC), black      |
| J  | cable with green and yellow core                     |
| B  | ethylene/propylene rubber                            |



SymFlex®



Engineering drawing



Cable cross section

Ordering details	Cross section in mm <sup>2</sup>	Cu-Inhalt in kg/km	Außendurchmesser in mm	Gewicht in kg/km	Art. No.
Motor cable SymFlex® EMV-DRIVE	3x1,5+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!