

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

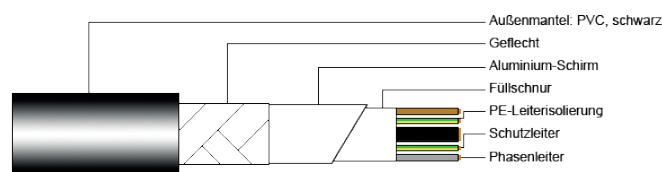
- Bending radi:
 - occasionally moved: 10-20 x cable diameter
 - permanently installed: 5-10 x cable diameter
- Temperature range:
 - occasionally moved: +5 to +70 °C
 - permanently installed: -40 to +70 °C

*) Labeling according to norm

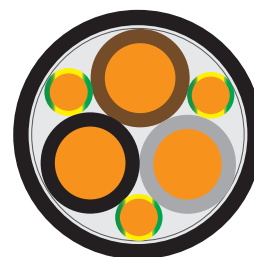
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|----|--|
| 2Y | insulation/jacket of thermoplastic polyethylene (PE) |
| SL | control cable |
| C | shield of braided CU and aluminium shield foil |
| YK | outer sheath of polyvinyl chloride (PVC), black |
| J | cable with green and yellow core |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



SymFlex®



Engineering drawing



Cable cross section

Ordering details	Cross section in mm ²	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!