

## FMM600 Motor cables



- PVC outer jacket
- Flame resistance
- UV-resistance
- Oil-resistant



## Dynamic Information

	Min. bending radius	Moving in cable carriers	7.5 x d
		Flexible moving	6 x d
		Fixed installation	4 x d
	Temperature	Moving in cable carriers	+5°C to +70°C
		Flexible moving	-5°C to +70°C
		Fixed installation	-15°C to +70°C
	v max.	Unsupported	10 m/s
		Gliding	5 m/s
	a max.	80 m/s <sup>2</sup>	
	Travel distance	Unsupported travels and up to 100 m for gliding applications	
	Torsion	±90°/m	










## Cable structure

	Conductor	Cross -sectional < 10 mm <sup>2</sup> : Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228). Cross -sectional ≥ 10 mm <sup>2</sup> : Conductor cable consisting of pre-leads(according to DIN EN 60228).
	Conductor insulation	Mechanically high-quality, especially low-capacitance XLPE mixture.
	Conductor construction	Cores wound with a short pitch length around a high tensile strength centre element.
	Color code	Black cores with white numbers, one green-yellow core. Core1: U/L1/C/L+ Core2: V/L2 Core3: W/L3/D/L- Core4: 4/N
	Outer jacket	Low adhesion mixture on the basis of PVC, adapted to suit the requirements in cable carriers. Color: black RAL 9005

### Electrical Information

 Nominal voltage	$U_0/U$ : 600/1000 V (following VDE0298-3)
 Test voltage	4000 V (following EN50395)

### Properties and approvals

 UV-resistance	Medium
 Oil resistance	Oil-resistant (following IEC60811-404, tested by SGS), bio-oil-resistant (following VDMA24568, tested by SGS)
 Flame resistance	According to IEC 60332-1-2, VW-1, FT1
 REACH	According to the regulation (EC) No. 1907/2006 (REACH)
 EAC	Certificate No. KG 417/043.CN.02.00249
 Lead-free	Following 2015/863/EU (RoHS-II Tested by SGS)
 Cleanroom	Following ISO 14644-1
 CE	Following 2014/35/EU
 UL	Following UL2570, 1000V, 80°C

### Guaranteed service life

Double strokes	5 million times	7.5 million times	10 million times
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

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Part No.	Number of cores and conductor nominal cross-section [mm]	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
FMM600.15.04	4G1.5	8	61	104
FMM600.25.04	4G2.5	10	100	166
FMM600.25.05	5G2.5	11	124	203
FMM600.40.04	4G4.0	11.5	163	249
FMM600.40.05	5G4.0	12.5	204	302
FMM600.60.04	4G6.0	13.5	237	343
FMM600.60.05	5G6.0	15	297	410
FMM600.100.04	4G10	16.5	407	548
FMM600.100.05	5G10	19.5	515	684
FMM600.160.04	4G16	20	646	826
FMM600.160.05	5G16	23.5	815	1067
FMM600.250.04	4G25	25	1014	1320
FMM600.350.04	4G35	28.5	1439	1795

Note: The outer diameters are reference values.

G: With green-yellow earth core

x: Without earth core