

## FMM912 Motor cables



- TPE outer jacket
- Shielded
- UV-resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- PVC and halogen-free

### 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	-35°C to +90°C
		Flexible moving	-50°C to +90°C
		Fixed installation	-55°C to +90°C
	v max.	Unsupported	10 m/s
		Gliding	6 m/s
	a max.	100 m/s <sup>2</sup>	
	Travel distance	Unsupported travels and up to 400 m and more for gliding applications	











### 电缆结构 Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Conductor insulation	Mechanically high-quality TPE mixture.
	Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %
	Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. Color: Black RAL 9005

### Electrical Information

	Nominal voltage	U <sub>0</sub> /U: 600/1000 V (following VDE0298-3)
	Test voltage	4000 V (following EN50395)

### Properties and approvals

	UV-resistance	High
	Hydrolysis-resistance	High
	Cold-resistant	-55°C
	Oil resistance	Oil-resistant (following IEC60811-404, tested by SGS), bio-oil-resistant (following VDMA24568, tested by SGS)
	Halogen-free	Following DIN EN 60754
	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

### 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]
-35/-25	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

### FMM902 Motor cables

Part No.	Number of cores and conductor nominal cross-section [mm]	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
FMM912.40.01	(1×4.0)C	7.0	54	74
FMM912.60.01	(1×6.0)C	7.5	76	97
FMM912.100.01	(1×10)C	8.5	117	145
FMM912.160.01	(1×16)C	10.0	178	209
FMM912.250.01	(1×25)C	12.0	271	309
FMM912.350.01	(1×35)C	13.5	383	420
FMM912.500.01	(1×50)C	15.0	525	567
FMM912.700.01	(1×70)C	17.5	763	816
FMM912.950.01	(1×95)C	21.0	995	1072
FMM912.1200.01	(1×120)C	22.0	1245	1315
FMM912.1500.01	(1×150)C	24.5	1560	1608
FMM912.1850.01	(1×185)C	27.5	1890	2110

Note: The outer diameters are reference values.

G: With green-yellow earth core

x: Without earth core