

## FMM902 Motor cables



- TPE outer jacket
- 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	
	Torsion	±90°/m	











## Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Conductor insulation	Mechanically high-quality TPE mixture.
	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]
FMM902.60.01	1×6.0	7	61	77
FMM902.100.01	1×10	7.5	100	119
FMM902.160.01	1×16	9.5	159	181
FMM902.250.01	1×25	11.5	248	284
FMM902.350.01	1×35	12.5	347	385
FMM902.500.01	1×50	14.5	495	534
FMM902.700.01	1×70	16.5	710	754
FMM902.950.01	1×95	20	936	1015
FMM902.1200.01	1×120	21.5	1184	1265
FMM902.1500.01	1×150	23.5	1469	1548
FMM902.1850.01	1×185	26.5	1928	2016

Note: The outer diameters are reference values.

G: With green-yellow earth core

x: Without earth core