

FMM900 Motor cables



- TPE outer jacket
- Flame resistance
- UV-resistance
- Oil-resistant
- Hydrolysis and microbe-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	-35°C to +90°C
		Flexible moving	-45°C to +90°C
		Fixed installation	-50°C to +90°C
	v max.	Unsupported	10 m/s
		Gliding	6 m/s
	a max.	100 m/s ²	
	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.
	Conductor construction	According to measuring system specification.
	Color code	yellow-green
	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_0/U : 600/1000 V (following VDE0298-3)
	Test voltage	4000 V (following EN50395)

Properties and approvals

	UV-resistance	High
	Hydrolysis-resistance	High
	Cold-resistant	-50°C
	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

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

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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]
FMM900.15.01	1G1.5	4.5	16.0	31.0
FMM900.25.01	1G2.5	5.5	25.0	42.0
FMM900.40.01	1G4.0	6.0	41.0	59.0
FMM900.60.01	1G6.0	7.0	61.0	83.0
FMM900.100.01	1G10	7.5	100.0	124.0
FMM900.160.01	1G16	9.5	159.0	195.0
FMM900.250.01	1G25	11.5	248.0	294.0
FMM900.350.01	1G35	12.5	347.0	395.0
FMM900.500.01	1G50	14.5	495.0	551.0
FMM900.700.01	1G70	16.5	725.0	813.0
FMM900.950.01	1G95	20.0	936.0	1080.0

Note: The outer diameters are reference values.

G: With green-yellow earth core

x: Without earth core