

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC907 控制电缆 Control cables



- 用于扭转应用
- PUR 外护套
- 耐油和冷却剂
- 阻燃
- 不含PVC和卤素
- 耐划痕
- 抗水解和微生物
- For twistable applications requirements
- PUR outer jacket
- Oil-resistant and coolant-resistant
- Flame-retardant
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	6.8 x d
		非拖链内移动 Flexible moving	5 x d
		固定铺设 Fixed installation	4 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-25°C至to +80°C
		非拖链内移动 Flexible moving	-40°C至to +80°C
		固定铺设 Fixed installation	-50°C至to +80°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	5 m/s
	最大加速度 a max.	80 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于100米的滑行应用 Unsupported travels and up to 100 m for gliding applications	
	可扭转 Torsion	±180°/m	

电缆结构 Cable structure

	导体 Conductor	高抗弯强度的精细裸铜多股线（符合 EN 60228 标准） Conductor consisting of bare copper wires (according to DIN EN 60228).	
	绝缘材料 Conductor insulation	高机械性能的TPE混合物 Mechanically high-quality TPE mixture.	
	芯线结构 Conductor construction	芯线数量< 12: 芯线以短节距分层绞合在一起 Number of conductors < 12: Conductors cabled in a layer with short pitch length.	
		芯线数量≥ 12: 芯线采用两次复绞，特别的抗扭力结构 Number of conductors ≥ 12: Conductors combined in bundles and stranded together around a high-tensile strength core, using short pitch directions for a low-torsion cable structure.	
	芯线识别 Color code	截面面积Cross-sectional < 0.5 mm ² : 颜色代码符合 Color code in accordance with DIN 47100	
		截面面积Cross-sectional ≥ 0.5 mm ² : 一根为黄绿芯线，其余均为黑色芯线带白色数字 Black cores with white numbers, one green-yellow core. FMC907.02.03.INI: 棕色, 蓝色, 黑色 brown, blue, black FMC907.03.04.INI: 棕色, 蓝色, 黑色, 白色 brown, blue, black, white FMC907.03.05.INI: 棕色, 蓝色, 黑色, 白色, 黄绿色 brown, blue, black, white, green-yellow	
	外护套 Outer jacket	低粘性的 PUR 基混合材料，符合拖链要求（符合 EN 50363-10-2 标准） Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in cable carriers (following DIN EN 50363-10-2). 颜色: 灰色 Color: Grey RAL 7001	

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 300/500 V (符合following VDE0298-3)
	测试电压 Test voltage	2000 V (符合following EN50395)

特性和认证 Properties and approvals

	抗紫外线 UV-resistance	中等 Medium
	耐水解 Hydrolysis-resistance	高 High
	耐低温 Cold-resistant	-50°C
	耐油性 Oil resistance	耐油 (符合 IEC60811-404 标准, 经SGS检测), 耐生物油 (符合VDMA24568 标准, 经SGS检测) Oil-resistant (following IEC60811-404, tested by SGS), bio-oil-resistant (following VDMA24568, tested by SGS)
	阻燃 Flame resistance	符合According to IEC 60332-1-2、VW-1、FT1
	无卤素 Halogen-free	符合Following IEC60754
	REACH	符合 Accordding to the regulation (EC) No. 1907/2006 (REACH)
	EAC	经认证Certificate No. KG 417/043.CN.02.00249
	无铅 Lead-free	符合Following 2015/863/EU (RoHS-II 经SGS检测 Tested by SGS)
	无尘室 Cleanroom	符合Following ISO 14644-1
	CE	符合Following 2014/35/EU
	UL	符合Following UL20234, 600V, 80°C

质保使用寿命 Guaranteed service life

往返行程 Double strokes	500万次 5 million times		750万次 7.5 million times		1000万次 10 million times	
适用温度范围 Temperature, from/to [°C]	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
	最小弯曲半径 R min.	最小弯曲半径 R min.	最小弯曲半径 R min.	最小弯曲半径 R min.	最小弯曲半径 R min.	最小弯曲半径 R min.
	[系数factor x d]	[系数factor x d]	[系数factor x d]	[系数factor x d]	[系数factor x d]	[系数factor x d]
-25/-15	8.5	10	9.5	11	10.5	12
-15/+70	6.8	7.5	7.5	8.5	8.5	9.5
+70/+80	8.5	10	9.5	11	10.5	12

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产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC907.02.03.INI	3×0.25	5.0	9.0	29.0
FMC907.02.04	4×0.25	5.5	11.0	35.0
FMC907.02.05	5×0.25	6.0	13.0	39.0
FMC907.02.07	7×0.25	6.5	18.0	51.0
FMC907.02.12	12×0.25	9.0	32.0	78.0
FMC907.02.18	18×0.25	10.5	47.0	127.0
FMC907.02.25	25×0.25	11.5	63.0	155.0
FMC907.03.04.INI	4×0.34	6.0	16.0	39.0
FMC907.03.05.INI	5×0.34	6.0	17.0	35.0
FMC907.05.04	4G0.5	6.0	21.0	46.0
FMC907.05.05	5G0.5	6.5	26.0	53.0
FMC907.05.07	7G0.5	7.5	39.0	78.0
FMC907.05.12	12G0.5	10.0	63.0	130.0
FMC907.05.18	18G0.5	12.0	94.0	184.0
FMC907.05.25	25G0.5	14.0	129.0	243.0
FMC907.05.30	30G0.5	15.0	155.0	315.0
FMC907.07.03	3G0.75	6.5	23.0	52.0
FMC907.07.04	4G0.75	7.0	31.0	59.0
FMC907.07.05	5G0.75	7.5	38.0	71.0
FMC907.07.07	7G0.75	8.5	54.0	100.0
FMC907.07.12	12G0.75	12.0	91.0	180.0
FMC907.07.18	18G0.75	13.5	134.0	239.0
FMC907.07.20	20G0.75	14.5	149.0	269.0
FMC907.07.25	25G0.75	16.0	186.0	336.0
FMC907.07.36	36G0.75	19.0	279.0	506.0
FMC907.07.42	42G0.75	21.0	341.0	580.0
FMC907.10.02	2×1.0	6.5	21.0	51.0
FMC907.10.03	3G1.0	6.5	31.0	58.0
FMC907.10.04	4G1.0	7.0	41.0	73.0
FMC907.10.05	5G1.0	8.0	50.0	90.0
FMC907.10.07	7G1.0	9.0	71.0	120.0
FMC907.10.12	12G1.0	12.5	120.0	220.0
FMC907.10.18	18G1.0	15.0	179.0	314.0
FMC907.10.25	25G1.0	17.5	248.0	431.0
FMC907.10.42	42G1.0	22.5	433.0	699.0

FMC907

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FMC907.15.03	3G1.5	7.0	46.0	71.0
FMC907.15.04	4G1.5	7.5	61.0	88.0
FMC907.15.05	5G1.5	8.0	75.0	105.0
FMC907.15.07 ^{⑦)}	7G1.5	9.5	105.0	152.0
FMC907.15.12	12G1.5	13.0	179.0	297.0
FMC907.15.18	18G1.5	17.0	268.0	405.0
FMC907.15.25	25G1.5	19.5	297.0	564.0
FMC907.15.36	36G1.5	23.5	551.0	848.0
FMC907.25.03	3G2.5	8.5	75.0	132.0
FMC907.25.04	4G2.5	9.5	95.0	167.0
FMC907.25.05	5G2.5	10.0	124.0	196.0
FMC907.25.07 ^{⑦)}	7G2.5	12.0	174.0	270.0
FMC907.25.12	12G2.5	17.0	297.0	479.0
FMC907.40.04 ^{⑧)}	4G4.0	11.5	165.0	245.0
FMC907.40.05 ^{⑧)}	5G4.0	12.0	198.0	284.0
FMC907.60.05 ^{⑧)}	5G6.0	13.5	297.0	412.0
FMC907.160.05	5G16	22.5	845.0	1098.0

⑦) 当使用7G1.5mm²和7G2.5mm²电缆时；滑行使用行距≥5m，最小弯曲半径17.5xd

When using the cables with "7G1.5mm²" and "7G2.5mm²" minimum bend radius must be 17.5xd with gliding travel distance ≥ 5m.

⑧) 可扭转 Torsion ±90°

注Note: 外径是指参考值 The outer diameters are reference values.

G: 带黄-绿接地线 With green-yellow earth core

x: 不带接地线 Without earth core