

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC600 控制电缆 Control cables



- PVC外护套
- 阻燃
- 低成本
- PVC outer jacket
- Flame-retardant
- Low cost

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	12.5 x d
		非拖链内移动 Flexible moving	10 x d
		固定铺设 Fixed installation	7 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	+5°C至to +70°C
		非拖链内移动 Flexible moving	-5°C至to +70°C
		固定铺设 Fixed installation	-15°C至to +70°C
	最大速度 v max.	架空 Unsupported	3 m/s
	最大加速度 a max.	20 m/s ²	
	行程距离 Travel distance	小于10米的架空应用 Unsupported travel distances up to 10 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PVC混合物 Mechanically high-quality PVC mixture.
	芯线结构 Conductor construction	芯线以优化的短节距绞合在一起 Cores wound with an optimised pitch length.
	芯线识别 Color code	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.
	外护套 Outer jacket	低粘性的PVC基混合物，符合拖链要求 Low-adhesion PVC mixture, adapted to suit the requirements in cable carriers. 颜色：黑色 Color: black RAL 9005

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

	阻燃 Flame resistance	符合 According to IEC 60332-1-2、VW-1、FT1
	REACH	符合 According 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 UL2570, 600V, 80°C

质保使用寿命 Guaranteed service life

往返行程 Double strokes	100万次 1 million times	300万次 3 million times	500万次 5 million times
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数 factor x d]	最小弯曲半径 R min. [系数 factor x d]	最小弯曲半径 R min. [系数 factor x d]
+5/+15	15	16	17
+15/+60	12.5	13.5	14.5
+60/+70	15	16	17

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC600

FMC600 控制电缆 Control cables

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]
FMC600.05.02	2×0.5	5.0	11.0	32.0
FMC600.05.03	3G0.5	5.5	16.0	37.0
FMC600.05.04	4G0.5	6.0	21.0	46.0
FMC600.05.05	5G0.5	6.5	26.0	55.0
FMC600.05.07	7G0.5	7.5	37.0	73.0
FMC600.05.12	12G0.5	8.5	63.0	108.0
FMC600.05.18	18G0.5	10.0	94.0	158.0
FMC600.05.25	25G0.5	12.0	128.0	227.0
FMC600.07.02	2×0.75	5.5	16.0	40.0
FMC600.07.03	3G0.75	6.0	24.0	49.0
FMC600.07.04	4G0.75	6.5	32.0	61.0
FMC600.07.05	5G0.75	7.0	40.0	73.0
FMC600.07.07	7G0.75	8.0	56.0	99.0
FMC600.07.12	12G0.75	10.0	94.0	152.0
FMC600.07.18	18G0.75	11.5	140.0	167.0
FMC600.07.25	25G0.75	13.5	194.0	284.0
FMC600.10.02	2×1.0	6.0	21.0	48.0
FMC600.10.03	3G1.0	6.5	32.0	58.0
FMC600.10.04	4G1.0	7.0	42.0	62.0
FMC600.10.05	5G1.0	7.5	52.0	86.0
FMC600.10.07	7G1.0	8.5	73.0	116.0
FMC600.10.12	12G1.0	10.5	124.0	182.0
FMC600.10.18	18G1.0	12.5	186.0	278.0
FMC600.10.25	25G1.0	15.0	258.0	393.0
FMC600.15.02	2×1.5	6.5	32.0	64.0
FMC600.15.03	3G1.5	7.0	47.0	82.0
FMC600.15.04	4G1.5	7.5	63.0	104.0
FMC600.15.05	5G1.5	8.5	78.0	120.0
FMC600.15.07	7G1.5	10.0	109.0	167.0
FMC600.15.12	12G1.5	12.0	186.0	260.0
FMC600.15.18	18G1.5	14.5	279.0	370.0
FMC600.15.25	25G1.5	17.5	387.0	514.0
FMC600.25.03	3G2.5	8.5	121.0	136.0
FMC600.25.04	4G2.5	9.0	103.0	150.0
FMC600.25.05	5G2.5	10.0	129.0	184.0
FMC600.25.07	7G2.5	12.0	181.0	252.0
FMC600.25.12	12G2.5	15.0	327.0	414.0

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

FLEXMOV®
FMC600

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FMC603 控制电缆 Control cables



- 用于扭转应用
- PVC 外护套
- 阻燃
- For twistable applications requirements
- PVC outer jacket
- Flame-retardant

移动参数 Dynamic Information

最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	7.5 x d
	非拖链内移动 Flexible moving	6 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	+5°C至to +70°C
	非拖链内移动 Flexible moving	-5°C至to +70°C
	固定铺设 Fixed installation	-15°C至to +70°C
最大速度 v max.	架空 Unsupported	3 m/s
	滑行 Gliding	2 m/s
最大加速度 a max.	20 m/s ²	
行程距离 Travel distance	架空应用和行程距离小于50米的滑行应用 Unsupported travels and up to 50 m for gliding applications	
可扭转 Torsion	±90°/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	截面积 Cross-sectional < 0.5 mm ² : 颜色代码符合 Color code in accordance with DIN 47100	
	截面积 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.	
外护套 Outer jacket	低粘性的 PVC 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 PVC, adapted to suit the requirements in cable carriers (following DIN EN 50363-10-2). 颜色: 灰色 Color: Grey RAL 7001	

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

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

 阻燃 Flame resistance	符合According to IEC 60332-1-2、VW-1、FT1
 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 UL2570, 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	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
+5/+15	10	12.5	11	13.5	12	14.5
+15/+60	7.5	10	8.5	11	9.5	12
+60/+70	10	12.5	11	13.5	12	14.5

FMC603

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FMC603 控制电缆 Control cables

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]
FMC603.02.03	3×0.25	5	9	26
FMC603.02.04	4×0.25	5.5	11	35
FMC603.02.06	6×0.25	6	16	48
FMC603.02.07	7×0.25	6.5	19	56
FMC603.02.12	12×0.25	8.5	33	96
FMC603.02.18	18×0.25	10	46	123
FMC603.02.20	20×0.25	10.5	51	145
FMC603.02.25	25×0.25	11.5	66	164
FMC603.02.30	30×0.25	12.5	75	188
FMC603.03.02	2×0.34	5	8	27
FMC603.03.05	5×0.34	6	18	42
FMC603.05.02	2×0.5	5.5	11	38
FMC603.05.03	3G0.5	5.5	16	40
FMC603.05.04	4G0.5	6	21	47
FMC603.05.05	5G0.5	6.5	26	56
FMC603.05.07	7G0.5	7.5	37	76
FMC603.05.12	12G0.5	10	63	140
FMC603.05.18	18G0.5	12	94	192
FMC603.05.25	25G0.5	13.5	129	259
FMC603.07.02	2×0.75	6	16	48
FMC603.07.03	3G0.75	6	23	50
FMC603.07.04	4G0.75	6.5	31	60
FMC603.07.05	5G0.75	7	38	70
FMC603.07.07	7G0.75	8	54	96
FMC603.07.12	12G0.75	11	91	175
FMC603.07.18	18G0.75	13.5	134	248
FMC603.07.25	25G0.75	16	186	346
FMC603.07.36	36G0.75	19	293	531
FMC603.07.42	42G0.75	21	341	608
FMC603.10.02	2×1.0	6	21	55
FMC603.10.03	3G1.0	6.5	31	61
FMC603.10.04	4G1.0	7	41	74
FMC603.10.05	5G1.0	7.5	50	87
FMC603.10.07	7G1.0	9	71	118
FMC603.10.12	12G1.0	12.5	120	228

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FMC603

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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]
FMC603.10.18	18G1.0	15	179	308
FMC603.10.25	25G1.0	17.5	248	410
FMC603.15.02	2×1.5	6.5	31	71
FMC603.15.03	3G1.5	7	46	76
FMC603.15.04	4G1.5	8	61	93
FMC603.15.05	5G1.5	8.5	75	111
FMC603.15.07 ^{⑦)}	7G1.5	10.5	105	166
FMC603.15.12	12G1.5	13	179	288
FMC603.15.18	18G1.5	17	268	438
FMC603.15.25	25G1.5	19.5	371	563
FMC603.15.36	36G1.5	23	579	887
FMC603.25.03	3G2.5	8.5	75	118
FMC603.25.04	4G2.5	9.5	100	149
FMC603.25.07 ^{⑦)}	7G2.5	12	174	250
FMC603.25.12	12G2.5	16.5	297	445
FMC603.40.03	3G4.0	10	119	209
FMC603.40.05	5G4.0	12	198	294
FMC603.60.04	4G6.0	13	237	392
FMC603.60.05	5G6.0	14	299	471

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.

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

FMC605 控制电缆 Control cables



- PVC 外护套
 - 抗UV
 - 阻燃
 - 耐油
- PVC outer jacket
 - UV-resistance
 - Flame-retardant
 - Oil-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	+5°C至to +70°C
		非拖链内移动 Flexible moving	-5°C至to +70°C
		固定铺设 Fixed installation	-15°C至to +70°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	±90°/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	截面积Cross-sectional ≤ 0.5 mm ² : 高机械性能的TPE混合物 Mechanically high-quality TPE mixture. 截面积Cross-sectional ≥ 0.75 mm ² : 高机械性能的PVC混合物 Mechanically high-quality PVC 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	截面积Cross-sectional < 0.5 mm ² : 颜色代码符合 Color code in accordance with DIN 47100 截面积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.	
	外护套 Outer jacket	低粘性的PVC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 PVC, adapted to suit the requirements in cable carriers (following DIN EN 50363-10-2). 颜色: 苔绿色 Color: Green RAL 6005	










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电气参数 Electrical Information

 额定电压 Nominal voltage	U _n /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
 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 UL2570, 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	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
+5/+15	7.5	10	8.5	11	9.5	12
+15/+60	6.8	7.5	7.8	8.5	8.8	9.5
+60/+70	7.5	10	8.5	11	9.5	12

FMC605

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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]
FMC605.02.36	36×0.25	15	99	209
FMC605.03.15	15×0.34	11	55	113
FMC605.03.18	18×0.34	12	67	143
FMC605.03.25	25×0.34	14	92	194
FMC605.05.02	2×0.5	6	11	38
FMC605.05.03	3G0.5	6	16	41
FMC605.05.04	4G0.5	6.5	21	47
FMC605.05.05	5G0.5	7	25	59
FMC605.05.07	7G0.5	8	36	78
FMC605.07.03	3G0.75	6.5	23	54
FMC605.07.04	4G0.75	7	32	67
FMC605.07.05	5G0.75	7.5	39	82
FMC605.07.07	7G0.75	9	56	115
FMC605.07.12	12G0.75	12.5	91	189
FMC605.07.18	18G0.75	15	134	269
FMC605.07.25	25G0.75	17.5	190	384
FMC605.07.36	36G0.75	22	267	587
FMC605.07.42	42G0.75	23.5	313	745
FMC605.10.03	3G1.0	6.5	31	56
FMC605.10.04	4G1.0	7	41	78
FMC605.10.05	5G1.0	8	50	94
FMC605.10.07	7G1.0	9.5	74	130
FMC605.10.12	12G1.0	13	119	227
FMC605.10.18	18G1.0	16.5	179	306
FMC605.10.25	25G1.0	19.5	248	487
FMC605.15.03	3G1.5	7.5	46	74
FMC605.15.04	4G1.5	8	61	105
FMC605.15.05	5G1.5	9	75	127
FMC605.15.07 ^{⑦)}	7G1.5	10.5	105	180
FMC605.15.12	12G1.5	15	179	264
FMC605.15.18	18G1.5	19.5	267	478
FMC605.15.25	25G1.5	21.5	371	645
FMC605.15.36	36G1.5	26.5	529	960
FMC605.25.04	4G2.5	10	96	170
FMC605.25.05	5G2.5	11	120	200
FMC605.25.07 ^{⑦)}	7G2.5	13	169	279
FMC605.25.12	12G2.5	18.5	284	480
FMC605.25.18	18G2.5	23.5	427	765
FMC605.25.25	25G2.5	27.5	591	1054

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.

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

FLEXMOV® Control Cables






FLEXMOV® 控制电缆

FMC610 控制电缆 Control cables









- PVC外护套
- 带屏蔽
- 阻燃
- 低成本
- PVC outer jacket
- Shielded
- Flame-retardant
- Low cost

移动参数 Dynamic Information

 最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	12.5 x d
	非拖链内移动 Flexible moving	10 x d
	固定铺设 Fixed installation	7 x d
 使用温度范围 Temperature	拖链内移动 Moving in cable carriers	+5°C至to +70°C
	非拖链内移动 Flexible moving	-5°C至to +70°C
	固定铺设 Fixed installation	-15°C至to +70°C
 最大速度 v max.	架空 Unsupported	3 m/s
 最大加速度 a max.	20 m/s ²	
 行程距离 Travel distance	小于10米的架空应用 Unsupported travel distances up to 10 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 DIN 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PVC混合物 Mechanically high-quality PVC mixture.
 芯线结构 Conductor construction	芯线以优化的短节距绞合在一起 Cores wound with an optimised pitch length.
 芯线识别 Color code	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.
 总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。光学覆盖率80%。 Extremely bending-resistant braiding made of tinned copper wires. Optical approx. 80 %
 外护套 Outer jacket	低粘性的PVC基混合物，符合拖链要求 Low-adhesion PVC mixture, adapted to suit the requirements in cable carriers. 颜色：黑色 Color: black RAL 9005

FMC610

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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

	阻燃 Flame resistance	符合According to IEC 60332-1-2、VW-1、FT1
	REACH	符合 According 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 UL2570, 600V, 80°C

质保使用寿命 Guaranteed service life

往返行程 Double strokes	100万次 1 million times	300万次 3 million times	500万次 5 million times
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
+5/+15	15	16	17
+15/+60	12.5	13.5	14.5
+60/+70	15	16	17

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC610

FMC610 控制电缆 Control cables

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]
FMC610.05.03	(3G0.5)C	6.0	28.0	47.0
FMC610.05.04	(4G0.5)C	6.5	35.0	54.0
FMC610.05.05	(5G0.5)C	7.0	41.0	65.0
FMC610.05.07	(7G0.5)C	8.0	59.0	75.0
FMC610.05.12	(12G0.5)C	9.0	91.0	125.0
FMC610.05.18	(18G0.5)C	11.0	136.0	177.0
FMC610.05.25	(25G0.5)C	13.0	210.0	243.0
FMC610.07.02	(2×0.75)C	6.5	30.0	50.0
FMC610.07.03	(3G0.75)C	7.0	37.0	66.0
FMC610.07.04	(4G0.75)C	7.5	46.0	72.0
FMC610.07.05	(5G0.75)C	8.0	61.0	87.0
FMC610.07.07	(7G0.75)C	9.0	83.0	112.0
FMC610.07.12	(12G0.75)C	10.5	124.0	170.0
FMC610.07.18	(18G0.75)C	12.0	183.0	238.0
FMC610.07.25	(25G0.75)C	14.5	222.0	309.0
FMC610.10.02	(2×1.0)C	6.5	30.0	52.0
FMC610.10.03	(3G1.0)C	7.0	46.0	73.0
FMC610.10.04	(4G1.0)C	7.5	63.0	102.0
FMC610.10.05	(5G1.0)C	8.0	76.0	110.0
FMC610.10.07	(7G1.0)C	9.5	100.0	130.0
FMC610.10.12	(12G1.0)C	11.5	167.0	229.0
FMC610.10.18	(18G1.0)C	13.0	213.0	281.0
FMC610.10.25	(25G1.0)C	16.0	291.0	390.0
FMC610.15.02	(2×1.5)C	7.5	60.0	71.0
FMC610.15.03	(3G1.5)C	7.5	63.0	87.0
FMC610.15.04	(4G1.5)C	8.5	90.0	111.0
FMC610.15.05	(5G1.5)C	9.0	94.0	131.0
FMC610.15.07	(7G1.5)C	11.0	153.0	183.0
FMC610.15.12	(12G1.5)C	13.0	212.0	282.0
FMC610.15.18	(18G1.5)C	15.0	399.0	458.0
FMC610.15.25	(25G1.5)C	18.5	425.0	573.0
FMC610.25.03	(3G2.5)C	10.0	114.0	171.0
FMC610.25.04	(4G2.5)C	10.0	141.0	163.0
FMC610.25.05	(5G2.5)C	11.0	149.0	195.0
FMC610.25.07	(7G2.5)C	13.0	204.0	262.0
FMC610.25.12	(12G2.5)C	16.0	342.0	428.0

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

FMC610

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FMC616 控制电缆 Control cables



- 带屏蔽
- Shielded
- PVC 外护套
- PVC outer jacket
- 抗UV
- UV-resistance
- 阻燃
- Flame-retardant
- 耐油
- Oil-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	+5°C至to +70°C
		非拖链内移动 Flexible moving	-5°C至to +70°C
		固定铺设 Fixed installation	-15°C至to +70°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	



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	截面积Cross-sectional $\leq 0.5 \text{ mm}^2$: 高机械性能的TPE混合物 Mechanically high-quality TPE mixture.
		截面积Cross-sectional $\geq 0.75 \text{ mm}^2$: 高机械性能的PVC混合物 Mechanically high-quality PVC 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	截面积Cross-sectional $< 0.5 \text{ mm}^2$: 颜色代码符合 Color code in accordance with DIN 47100 截面积Cross-sectional $\geq 0.5 \text{ mm}^2$: 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.
	内护套 Inner jacket	PVC混合物适用于拖链 PVC mixture adapted to suit the requirements in cable carriers.
	总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。覆盖线性约70%, 光学约90%。 Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %
	外护套 Outer jacket	低粘性的PVC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 PVC, adapted to suit the requirements in cable carriers (following DIN EN 50363-10-2). 颜色: 苔绿色 Color: Green RAL 6005










FLEXMOV® Control Cables

FLEXMOV® 控制电缆

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
 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 UL2570, 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	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
+5/+15	7.5	10	8.5	11	9.5	12
+15/+60	6.8	7.5	7.8	8.5	8.8	9.5
+60/+70	7.5	10	8.5	11	9.5	12

FMC616

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FMC616 控制电缆 Control cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm ²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC616.02.04	(4×0.25)C	7	29	61
FMC616.02.25	(25×0.25)C	14.5	111	260
FMC616.03.05	(5×0.34)C	7.5	37	90
FMC616.05.02	(2×0.5)C	7	30	77
FMC616.05.05	(5G0.5)C	8.5	49	106
FMC616.05.07	(7G0.5)C	10	64	127
FMC616.05.09	(9G0.5)C	12	80	154
FMC616.05.12	(12G0.5)C	13	98	232
FMC616.05.18	(18G0.5)C	15	145	286
FMC616.05.25	(25G0.5)C	17.5	192	399
FMC616.07.03	(3G0.75)C	8	46	98
FMC616.07.04	(4G0.75)C	8.5	56	113
FMC616.07.05	(5G0.75)C	9	67	128
FMC616.07.07	(7G0.75)C	10.5	87	152
FMC616.07.12	(12G0.75)C	14	128	266
FMC616.07.18	(18G0.75)C	17.5	196	400
FMC616.07.25	(25G0.75)C	19.5	265	536
FMC616.10.03	(3G1.0)C	8	54	107
FMC616.10.04	(4G1.0)C	9	65	116
FMC616.10.05	(5G1.0)C	9.5	77	136
FMC616.10.07	(7G1.0)C	12	103	205
FMC616.10.12	(12G1.0)C	15	161	319
FMC616.10.18	(18G1.0)C	19	245	482
FMC616.10.25	(25G1.0)C	21	322	595
FMC616.15.03	(3G1.5)C	9	72	122
FMC616.15.04	(4G1.5)C	9.5	88	155
FMC616.15.05	(5G1.5)C	10.5	105	177
FMC616.15.07 ^{②)}	(7G1.5)C	12.5	146	258
FMC616.15.12	(12G1.5)C	17	225	375
FMC616.15.18	(18G1.5)C	21	345	581
FMC616.15.25	(25G1.5)C	24	462	865
FMC616.25.03	(3G2.5)C	10.5	107	180
FMC616.25.04	(4G2.5)C	11.5	131	222

②) 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.

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

FLEXMOV® Control Cables






FLEXMOV® 控制电缆

FMC800 控制电缆 Control cables








- PUR外护套
- 室内及室外应用, 抗UV
- 耐油、耐生物油
- 低成本
- PUR outer jacket
- Indoor and outdoor applications, UV-resistant
- Oil and bio-oil-resistant
- Low cost

移动参数 Dynamic Information

 最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	12.5 x d
	非拖链内移动 Flexible moving	10 x d
	固定铺设 Fixed installation	7 x d
 使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-20°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	3 m/s
 最大加速度 a max.	20 m/s ²	
 行程距离 Travel distance	小于10米的架空应用 Unsupported travel distances up to 10 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 DIN 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PVC混合物 Mechanically high-quality PVC mixture.
 芯线结构 Conductor construction	芯线以优化的短节距绞合在一起 Cores wound with an optimised pitch length.
 芯线识别 Color code	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.
 外护套 Outer jacket	低粘性的PUR基混合物, 符合拖链要求 Low adhesion mixture on the basis of PUR, adapted to suit the requirements in cable carriers. 颜色: 黑色 Color: black RAL 9005

FMC800

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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 Medium
	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)
	REACH	符合 According 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 UL20940, 600V, 80°C

质保使用寿命 Guaranteed service life

往返行程 Double strokes	100万次 1 million times	300万次 3 million times	500万次 5 million times
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-20/-10	15	16	17
-10/+70	12.5	13.5	14.5
+70/+80	15	16	17

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC800

FMC800 控制电缆 Control cables

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]
FMC800.05.02	2×0.5	5.0	11.0	30.0
FMC800.05.03	3G0.5	5.5	16.0	34.0
FMC800.05.04	4G0.5	6.0	21.0	44.0
FMC800.05.05	5G0.5	6.5	26.0	53.0
FMC800.05.07	7G0.5	7.5	37.0	70.0
FMC800.05.12	12G0.5	8.5	63.0	105.0
FMC800.05.18	18G0.5	10.0	94.0	155.0
FMC800.05.25	25G0.5	12.0	128.0	222.0
FMC800.07.02	2×0.75	5.5	16.0	38.0
FMC800.07.03	3G0.75	6.0	24.0	46.0
FMC800.07.04	4G0.75	6.5	32.0	58.0
FMC800.07.05	5G0.75	7.0	40.0	71.0
FMC800.07.07	7G0.75	8.0	56.0	96.0
FMC800.07.12	12G0.75	10.0	94.0	146.0
FMC800.07.18	18G0.75	11.5	140.0	162.0
FMC800.07.25	25G0.75	13.5	194.0	278.0
FMC800.10.02	2×1.0	6.0	21.0	46.0
FMC800.10.03	3G1.0	6.5	32.0	56.0
FMC800.10.04	4G1.0	7.0	42.0	58.0
FMC800.10.05	5G1.0	7.5	52.0	89.0
FMC800.10.07	7G1.0	8.5	73.0	117.0
FMC800.10.12	12G1.0	10.5	124.0	178.0
FMC800.10.18	18G1.0	12.5	186.0	273.0
FMC800.10.25	25G1.0	15.0	258.0	375.0
FMC800.15.02	2×1.5	6.5	32.0	62.0
FMC800.15.03	3G1.5	7.0	47.0	76.0
FMC800.15.04	4G1.5	7.5	63.0	97.0
FMC800.15.05	5G1.5	8.5	78.0	117.0
FMC800.15.07	7G1.5	10.0	109.0	163.0
FMC800.15.12	12G1.5	12.0	186.0	256.0
FMC800.15.18	18G1.5	14.5	279.0	362.0
FMC800.15.25	25G1.5	17.5	387.0	502.0
FMC800.25.03	3G2.5	8.5	118.0	136.0
FMC800.25.04	4G2.5	9.0	103.0	145.0
FMC800.25.05	5G2.5	10.0	129.0	175.0
FMC800.25.07	7G2.5	12.0	181.0	246.0
FMC800.25.12	12G2.5	15.0	327.0	408.0
FMC800.25.25	25G2.5	21.5	638.0	786.0

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

FLEXMOV® FMC800

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FMC810 控制电缆 Control cables



- PUR外护套
- 抗UV
- 带屏蔽
- 耐油、耐生物油
- PUR outer jacket
- UV-resistant
- Shielded
- Oil and bio-oil-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	12.5 x d
		非拖链内移动 Flexible moving	10 x d
		固定铺设 Fixed installation	7 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-20°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	3 m/s
	最大加速度 a max.	20 m/s ²	
	行程距离 Travel distance	小于10米的架空应用 Unsupported travel distances up to 10 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 DIN 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PVC混合物 Mechanically high-quality PVC mixture.
	芯线结构 Conductor construction	芯线以优化的短节距绞合在一起 Cores wound with an optimised pitch length.
	芯线识别 Color code	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.
	总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。光学覆盖率80%。 Extremely bending-resistant braiding made of tinned copper wires. Optical approx. 80 %
	外护套 Outer jacket	低粘性的PUR基混合物，符合拖链要求 Low adhesion mixture on the basis of PUR, adapted to suit the requirements in cable carriers. 颜色：黑色 Color: black RAL 9005










FLEXMOV® Control Cables

FLEXMOV® 控制电缆

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)
 REACH	符合 According 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 UL20940, 600V, 80°C

质保使用寿命 Guaranteed service life

往返行程 Double strokes	100万次 1 million times	300万次 3 million times	500万次 5 million times
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-20/-10	15	16	17
-10/+70	12.5	13.5	14.5
+70/+80	15	16	17

FMC810

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FMC810 控制电缆 Control cables

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]
FMC810.05.02	(2×0.5)C	6	18	37
FMC810.05.03	(3G0.5)C	6	28	45
FMC810.05.05	(5G0.5)C	7	41	62
FMC810.05.12	(12G0.5)C	9	91	122
FMC810.05.18	(18G0.5)C	11	136	174
FMC810.05.25	(25G0.5)C	13	210	234
FMC810.07.02	(2×0.75)C	6.5	30	48
FMC810.07.03	(3G0.75)C	7	37	63
FMC810.07.04	(4G0.75)C	7.5	46	68
FMC810.07.05	(5G0.75)C	8	61	85
FMC810.07.07	(7G0.75)C	9	83	109
FMC810.07.12	(12G0.75)C	10.5	124	166
FMC810.07.18	(18G0.75)C	12	183	232
FMC810.07.25	(25G0.75)C	14.5	222	299
FMC810.10.02	(2×1.0)C	6.5	30	50
FMC810.10.03	(3G1.0)C	7	46	71
FMC810.10.04	(4G1.0)C	7.5	63	98
FMC810.10.05	(5G1.0)C	8	76	105
FMC810.10.07	(7G1.0)C	9.5	100	126
FMC810.10.12	(12G1.0)C	11.5	167	224
FMC810.10.18	(18G1.0)C	13	213	276
FMC810.10.25	(25G1.0)C	16	291	382
FMC810.15.02	(2×1.5)C	7.5	60	69
FMC810.15.03	(3G1.5)C	7.5	63	85
FMC810.15.04	(4G1.5)C	8.5	90	108
FMC810.15.05	(5G1.5)C	9	94	129
FMC810.15.07	(7G1.5)C	11	153	177
FMC810.15.12	(12G1.5)C	13	212	276
FMC810.15.25	(25G1.5)C	18.5	425	560
FMC810.25.04	(4G2.5)C	10	141	157
FMC810.25.05	(5G2.5)C	11	149	192
FMC810.25.07	(7G2.5)C	13	204	255

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

FLEXMOV® Control Cables

FLEXMOV® 控制电缆







FMC900 控制电缆 Control cables

CSB® FLEXMOV® FMC900






- TPE 外护套
- 耐油、耐生物油
- 室内及室外应用
- 抗水解和微生物
- 低温移动应用
- 不含PVC和卤素

- TPE outer jacket
- Oil and bio-oil-resistant
- Indoor and outdoor applications
- Resistant to hydrolysis and microbes
- Low-temperature-flexibility
- PVC and halogen-free

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	5 x d
		非拖链内移动 Flexible moving	4 x d
		固定铺设 Fixed installation	3 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +100°C
		非拖链内移动 Flexible moving	-50°C至to +100°C
		固定铺设 Fixed installation	-55°C至to +100°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	6 m/s
	最大加速度 a max.	100 m/s ²	
	行程距离 Travel distance	架空应用和行程距离长达400米及以上的滑行应用 Unsupported travel distances and for gliding applications up to 400 m and more	
	可扭转 Torsion	±90°/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 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	截面积Cross-sectional < 0.75 mm ² : 颜色代码符合 Color code in accordance with DIN 47100	
		截面积Cross-sectional ≥ 0.75 mm ² : 一根为黄绿芯线，其余均为黑色芯线带白色数字 Black with white numbers, one conductor green-yellow	
	外护套 Outer jacket	FMC900.02.03.INI: 棕色, 蓝色, 黑色 brown, blue, black	
		FMC900.03.04.INI: 棕色, 蓝色, 黑色, 白色 brown, blue, black, white	
		FMC900.03.05.INI: 棕色, 蓝色, 黑色, 白色, 黄绿色 brown, blue, black, white, green-yellow	
		FMC900.03.16.07.03.INI: 0.34mm ² : 紫/红/灰/红蓝, 绿/灰粉红/白绿/白黄, 白灰/黑/黄棕/棕绿色, 白/黄/粉红色/灰棕色 violet/red/grey/red-blue, green/grey-pink/white-green/white-yellow, white-grey/black/yellow-brown/brown-green, white/yellow/pink/grey-brown	
		0.75mm ² : 蓝/绿黄/棕色 blue/green-yellow/brown	
低粘性的TPE基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers.			
颜色：钢青色 Color: Steel blue RAL 5011			

FMC900

FLEXMOV®

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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	高 High
	耐水解 Hydrolysis-resistance	高 High
	耐低温 Cold-resistant	-55°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)
	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 UL22187, 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]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-35/-25	6.8	7.5	8.5
-25/+90	5	6	7
+90/+100	6.8	7.5	8.5

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC900 控制电缆 Control cables

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]
FMC900.02.02	2×0.25	4.5	6.0	18.0
FMC900.02.03.INI	3×0.25	4.5	9.0	22.0
FMC900.02.06	6×0.25	5.5	16.0	36.0
FMC900.02.07	7×0.25	6.5	18.0	42.0
FMC900.02.08	8×0.25	6.5	21.0	48.0
FMC900.02.12	12×0.25	8.0	31.0	71.0
FMC900.02.18	18×0.25	9.0	46.0	100.0
FMC900.02.20	20×0.25	9.5	50.0	108.0
FMC900.02.25	25×0.25	10.5	63.0	137.0
FMC900.03.04.INI	4×0.34	5.0	15.0	31.0
FMC900.03.05.INI	5×0.34	5.5	18.0	37.0
FMC900.03.06	6×0.34	6.0	21.0	42.0
FMC900.03.08	8×0.34	7.0	29.0	56.0
FMC900.03.16.07.03.INI	16×0.34+3×0.75	11.0	77.0	152.0
FMC900.05.02	2×0.5	5.0	11.0	26.0
FMC900.05.03	3×0.5	5.0	16.0	32.0
FMC900.05.04	4×0.5	5.5	21.0	39.0
FMC900.05.05	5×0.5	6.0	25.0	47.0
FMC900.05.07	7×0.5	7.0	36.0	65.0
FMC900.05.12	12×0.5	10.0	61.0	115.0
FMC900.05.18	18×0.5	11.5	91.0	169.0
FMC900.05.25	25×0.5	13.0	124.0	223.0
FMC900.05.36	36×0.5	15.5	179.0	316.0
FMC900.07.04	4G0.75	6.0	31.0	55.0
FMC900.07.05	5G0.75	6.5	38.0	65.0
FMC900.07.07	7G0.75	8.0	54.0	90.0
FMC900.07.12	12G0.75	10.5	91.0	162.0
FMC900.07.20	20G0.75	13.0	149.0	253.0
FMC900.07.25	25G0.75	14.5	186.0	315.0
FMC900.10.03	3G1.0	6.0	31.0	52.0
FMC900.10.04	4G1.0	6.5	41.0	67.0
FMC900.10.05	5G1.0	7.5	50.0	81.0
FMC900.10.12	12G1.0	11.5	120.0	203.0
FMC900.10.18	18G1.0	14.0	179.0	297.0
FMC900.10.25	25G1.0	16.5	248.0	420.0

FMC900

FLEXMOV®

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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]
FMC900.15.02	2×1.5	6.5	31.0	56.0
FMC900.15.04	4G1.5	7.5	61.0	92.0
FMC900.15.05	5G1.5	8.0	76.0	110.0
FMC900.15.07 ^{⑦)}	7G1.5	9.5	107.0	157.0
FMC900.15.12	12G1.5	13.5	179.0	284.0
FMC900.15.18	18G1.5	16.5	268.0	422.0
FMC900.15.25	25G1.5	20.0	371.0	600.0
FMC900.15.36	36G1.5	23.5	530.0	847.0
FMC900.25.04	4G2.5	8.5	100.0	151.0
FMC900.25.05	5G2.5	10.0	124.0	186.0
FMC900.25.07 ^{⑦)}	7G2.5	12.0	176.0	269.0
FMC900.25.12	12G2.5	17.5	297.0	492.0
FMC900.25.16	16G2.5	19.5	396.0	654.0
FMC900.25.18 ^{⑧)}	18G2.5	22.5	445.0	766.0
FMC900.25.25	25G2.5	23.5	612.0	980.0
FMC900.40.04	4G4.0	10.5	159.0	227.0
FMC900.60.04	4G6.0	12.5	238.0	317.0
FMC900.60.05	5G6.0	13.5	297.0	389.0
FMC900.100.04	4G10	16.5	396.0	549.0
FMC900.160.04	4G16	20.5	628.0	873.0

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) 额定电压Nominal voltage: 600/1000V

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

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC901 控制电缆 Control cables

CSB® FLEXMOV® FMC901



- TPE 外护套
- 阻燃
- 抗UV
- 耐油、耐生物油
- 抗水解和微生物
- 低温移动应用
- 不含PVC
- TPE outer jacket
- Flame-retardant
- UV-resistance
- Oil and bio-oil-resistant
- Resistant to hydrolysis and microbes
- Low-temperature-flexibility
- PVC free

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	5 x d
		非拖链内移动 Flexible moving	4 x d
		固定铺设 Fixed installation	3 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +100°C
		非拖链内移动 Flexible moving	-45°C至to +100°C
		固定铺设 Fixed installation	-50°C至to +100°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	6 m/s
	最大加速度 a max.	100 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于400米的滑行应用 Unsupported travels and up to 400 m for gliding applications	
	可扭转 Torsion	±90°/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 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	截面积Cross-sectional < 0.75 mm ² : 颜色代码符合 Color code in accordance with DIN 47100 截面积Cross-sectional ≥ 0.75 mm ² : 一根为黄绿芯线，其余均为黑色芯线带白色数字 Black with white numbers, one conductor green-yellow FMC901.02.03.INI: 棕色, 蓝色, 黑色 brown, blue, black FMC901.03.04.INI: 棕色, 蓝色, 黑色, 白色 brown, blue, black, white FMC901.03.05.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TPE基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色: 板岩灰 Color: Slate grey RAL 7015	

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	高 High
	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
	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 UL22187, 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]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-35/-25	6.8	7.5	8.5
-25/+90	5	6	7
+90/+100	6.8	7.5	8.5

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC901

FMC901 控制电缆 Control cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm ²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC901.02.02	2×0.25	5	6	28
FMC901.02.03.INI	3×0.25	5.5	9	32
FMC901.02.04	4×0.25	5.5	11	37
FMC901.02.06	6×0.25	6.5	16	48
FMC901.02.08	8×0.25	7.5	21	64
FMC901.02.12	12×0.25	8.5	31	93
FMC901.03.04.INI	4×0.34	6	15	43
FMC901.03.05.INI	5×0.34	6.5	18	49
FMC901.03.06	6×0.34	6.5	21	55
FMC901.03.08	8×0.34	7.5	29	74
FMC901.05.02	2×0.5	6	11	43
FMC901.05.03	3×0.5	6.5	16	50
FMC901.05.04	4×0.5	7	21	59
FMC901.05.05	5×0.5	7.5	25	68
FMC901.05.07	7×0.5	8.5	36	93
FMC901.05.12	12×0.5	11.5	61	167
FMC901.05.18	18×0.5	13.5	91	233
FMC901.07.05	5G0.75	8	38	93
FMC901.07.07	7G0.75	9.5	54	127
FMC901.07.12	12G0.75	13	91	226
FMC901.07.25	25G0.75	17	186	416
FMC901.10.03	3G1.0	7.5	31	77
FMC901.10.04	4G1.0	8	41	94
FMC901.10.12	12G1.0	14	120	273
FMC901.10.18	18G1.0	16.5	179	396
FMC901.10.25	25G1.0	18.5	248	512
FMC901.15.04	4G1.5	9	61	121
FMC901.15.05	5G1.5	9.5	75	144
FMC901.15.07 ^{②)}	7G1.5	11.5	105	199
FMC901.15.12	12G1.5	16	179	369
FMC901.15.18	18G1.5	19	268	529
FMC901.15.25	25G1.5	22	371	722
FMC901.25.04	4G2.5	10.5	100	186
FMC901.25.05	5G2.5	11	124	219
FMC901.25.07 ^{②)}	7G2.5	13.5	174	301
FMC901.25.12	12G2.5	19	297	600
FMC901.25.18	18G2.5	24	445	850
FMC901.25.25	25G2.5	27	612	1132
FMC901.40.04	4G4.0	12	159	270

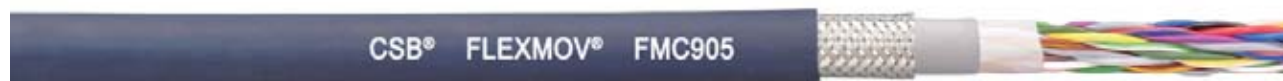
②) 当使用7G1.5mm²和7G2.5mm²电缆时; 滑行使用行距≥5m, 最小弯曲半径17.5xd
When using the cables with "7G1.5mm²" and "7G2.5mm²" minimum bend radius must be 17.5xd with gliding travel distance ≥ 5m.

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

FMC905 控制电缆 Control cables



- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • TPE 外护套 • 带屏蔽 • 耐油、耐生物油 • 抗UV • 抗水解和微生物 • 不含PVC和卤素 • 低温移动应用 | <ul style="list-style-type: none"> • TPE outer jacket • Shielded • Oil and bio-oil-resistant • UV-resistance • Resistant to hydrolysis and microbes • PVC and halogen-free • Low-temperature-flexibility |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	5 x d
		非拖链内移动 Flexible moving	4 x d
		固定铺设 Fixed installation	3 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +100°C
		非拖链内移动 Flexible moving	-50°C至to +100°C
		固定铺设 Fixed installation	-55°C至to +100°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	6 m/s
	最大加速度 a max.	100 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于400米的滑行应用 Unsupported travels and up to 400 m for gliding applications	



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 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	截面积Cross-sectional < 0.75mm ² : 颜色代码符合 Color code in accordance with DIN 47100 截面积Cross-sectional ≥ 0.75 mm ² : 一根为黄绿芯线，其余均为黑色芯线带白色数字 Black with white numbers, one conductor green-yellow FMC905.03.05.INI: 棕色，蓝色，黑色，白色，黄绿色 brown, blue, black, white, green-yellow	
	内护套 Inner jacket	TPE混合物适用于拖链 TPE mixture adapted to suit the requirements in cable carriers.	
	总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %	
	外护套 Outer jacket	低粘性的TPE基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：钢青色 Color: Steel blue RAL 5011	

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

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	高 High
 耐水解 Hydrolysis-resistance	高 High
 耐低温 Cold-resistant	-55°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)
 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 UL22187, 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]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-35/-25	6.8	7.5	8.5
-25/+90	5	6	7
+90/+100	6.8	7.5	8.5

FMC905

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FMC905 控制电缆 Control cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm ²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC905.01.12	(12×0.14)C	8	38	78
FMC905.01.18	(18×0.14)C	9.5	64	121
FMC905.02.04	(4×0.25)C	6.5	24	49
FMC905.02.08	(8×0.25)C	8	40	78
FMC905.02.12	(12×0.25)C	9.5	66	122
FMC905.02.25	(25×0.25)C	12.5	112	212
FMC905.03.05.INI	(5×0.34)C	7	34	63
FMC905.05.04	(4×0.5)C	7	37	67
FMC905.05.05	(5×0.5)C	7.5	43	76
FMC905.05.07	(7×0.5)C	8.5	57	99
FMC905.05.12	(12×0.5)C	11.5	106	185
FMC905.05.18	(18×0.5)C	13.5	144	251
FMC905.05.25	(25×0.5)C	15	186	318
FMC905.07.04	(4G0.75)C	7.5	48	83
FMC905.07.05	(5G0.75)C	8	58	95
FMC905.07.07	(7G0.75)C	9.5	89	140
FMC905.07.12	(12G0.75)C	12	136	230
FMC905.07.20	(20G0.75)C	15	212	345
FMC905.07.25	(25G0.75)C	16	253	420
FMC905.10.02	(2×1.0)C	7.5	37	70
FMC905.10.03	(3G1.0)C	7.5	48	80
FMC905.10.04	(4G1.0)C	8	61	99
FMC905.10.05	(5G1.0)C	8.5	70	116
FMC905.10.07	(7G1.0)C	10	109	170
FMC905.10.12	(12G1.0)C	13.5	175	286
FMC905.10.18	(18G1.0)C	15.5	246	391
FMC905.10.25	(25G1.0)C	18	322	520
FMC905.15.04	(4G1.5)C	9	94	142
FMC905.15.05	(5G1.5)C	10	112	166
FMC905.15.07 ^{⑦)}	(7G1.5)C	11.5	149	231
FMC905.15.12	(12G1.5)C	15.5	243	383
FMC905.15.18	(18G1.5)C	19	372	579
FMC905.25.04	(4G2.5)C	11	140	220
FMC905.25.07 ^{⑦)}	(7G2.5)C	13.5	228	347
FMC905.25.12	(12G2.5)C	19.5	375	619
FMC905.40.04	(4G4.0)C	12.5	208	305
FMC905.40.05	(5G4.0)C	13.5	254	370

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.

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

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+80°C
		非拖链内移动 Flexible moving	-40°C至+80°C
		固定铺设 Fixed installation	-50°C至+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	截面积 Cross-sectional < 0.5 mm ² : 颜色代码符合 Color code in accordance with DIN 47100	
		截面积 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	

FMC907

FLEXMOV®

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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	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [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

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC907 控制电缆 Control cables

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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产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm ²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
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

FLEXMOV® Control Cables






FLEXMOV® 控制电缆

FMC912 控制电缆 Control cables










- TPE 外护套
- 带屏蔽
- 阻燃
- 耐油、耐生物油
- 抗UV
- 抗水解和微生物
- 不含PVC
- 低温移动应用
- TPE outer jacket
- Shielded
- Flame resistance
- Oil and bio-oil-resistant
- UV-resistance
- Resistant to hydrolysis and microbes
- PVC free
- Low-temperature-flexibility

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	5 x d
		非拖链内移动 Flexible moving	4 x d
		固定铺设 Fixed installation	3 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +100°C
		非拖链内移动 Flexible moving	-45°C至to +100°C
		固定铺设 Fixed installation	-50°C至to +100°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	6 m/s
	最大加速度 a max.	100 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于400米的滑行应用 Unsupported travels and up to 400 m for gliding applications	

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 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	截面积Cross-sectional < 0.75mm ² : 颜色代码符合 Color code in accordance with DIN 47100	
		截面积Cross-sectional ≥ 0.75 mm ² : 一根为黄绿芯线，其余均为黑色芯线带白色数字 Black with white numbers, one conductor green-yellow	
	内护套 Inner jacket	TPE混合物适用于拖链 TPE mixture adapted to suit the requirements in cable carriers.	
	总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %	
	外护套 Outer jacket	低粘性的TPE基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：板岩灰 Color: Slate grey RAL 7015	

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	高 High
	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
	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 UL22187, 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]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]
-35/-25	6.8	7.5	8.5
-25/+90	5	6	7
+90/+100	6.8	7.5	8.5

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC912

FMC912 控制电缆 Control cables

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]
FMC912.02.04	(4×0.25)C	7	26	67
FMC912.02.08	(8×0.25)C	9	39	102
FMC912.02.12	(12×0.25)C	10.5	66	155
FMC912.02.25	(25×0.25)C	13	112	252
FMC912.05.04	(4×0.5)C	8.5	39	96
FMC912.05.05	(5×0.5)C	8.5	39	96
FMC912.05.12	(12×0.5)C	13	110	254
FMC912.05.25	(25×0.5)C	16.5	191	396
FMC912.07.04	(4G0.75)C	9	51	119
FMC912.07.05	(5G0.75)C	10	71	149
FMC912.07.07	(7G0.75)C	10	94	194
FMC912.07.12	(12G0.75)C	14.5	148	324
FMC912.07.20	(20G0.75)C	17	220	467
FMC912.07.25	(25G0.75)C	19.5	288	593
FMC912.10.02	(2×1.0)C	8.5	40	102
FMC912.10.03	(3G1.0)C	9	50	117
FMC912.10.04	(4G1.0)C	10	74	151
FMC912.10.05	(5G1.0)C	10.5	87	174
FMC912.10.07	(7G1.0)C	12	110	189
FMC912.15.04	(4G1.5)C	10.5	98	186
FMC912.15.05	(5G1.5)C	11.5	116	214
FMC912.15.07 ^{⑦)}	(7G1.5)C	13	154	278
FMC912.15.12	(12G1.5)C	17.5	251	497
FMC912.15.18	(18G1.5)C	21.5	387	732
FMC912.25.04	(4G2.5)C	12	145	258
FMC912.25.07 ^{⑦)}	(7G2.5)C	15	234	423
FMC912.25.12	(12G2.5)C	21.5	417	796
FMC912.40.04	(4G4.0)C	13.5	213	362

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.

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

FMC912

FLEXMOV®

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FMC918 控制电缆 Control cables



- 带屏蔽
 - 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
- Shielded
 - 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	



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	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.
	内护套 Inner jacket	TPE混合物适用于拖链 TPE mixture adapted to suit the requirements in cable carriers.
	总屏蔽 Overall shield	高度抗弯曲的镀锡铜丝编织。覆盖线性约55%，光学约80%。 Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 55 %, optical approx. 80 %
	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

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

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 Accordng 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	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
适用温度范围 Temperature, from/to [°C]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [系数factor x d]	最小弯曲半径 R min. [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

FMC918

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FMC918 控制电缆 Control cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm ²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC918.05.04	(4G0.5)C	8	38	77
FMC918.05.05	(5G0.5)C	8	45	91
FMC918.05.07	(7G0.5)C	9.5	59	115
FMC918.05.09	(9G0.5)C	11	77	143
FMC918.05.12	(12G0.5)C	12.5	92	202
FMC918.05.18	(18G0.5)C	14.5	146	248
FMC918.05.25	(25G0.5)C	16	168	354
FMC918.07.03	(3G0.75)C	8	42	79
FMC918.07.04	(4G0.75)C	8.5	49	96
FMC918.07.05	(5G0.75)C	9.5	61	112
FMC918.07.07	(7G0.75)C	10.5	83	151
FMC918.07.12	(12G0.75)C	13.5	136	249
FMC918.07.18	(18G0.75)C	15.5	194	354
FMC918.07.36	(36G0.75)C	22	390	702
FMC918.10.03	(3G1.0)C	8.5	50	96
FMC918.10.04	(4G1.0)C	9	62	112
FMC918.10.05	(5G1.0)C	9.5	74	129
FMC918.10.07	(7G1.0)C	11	104	176
FMC918.10.12	(12G1.0)C	14.5	166	300
FMC918.10.18	(18G1.0)C	17	240	407
FMC918.10.25	(25G1.0)C	20	325	545
FMC918.15.03	(3G1.5)C	9.5	68	122
FMC918.15.04	(4G1.5)C	10	86	145
FMC918.15.05	(5G1.5)C	9.5	108	159
FMC918.15.07 ^{⑦)}	(7G1.5)C	11.5	144	217
FMC918.15.12	(12G1.5)C	16	233	387
FMC918.15.18	(18G1.5)C	19	346	541
FMC918.15.25	(25G1.5)C	22.5	464	724
FMC918.15.36	(36G1.5)C	26.5	663	1095
FMC918.15.42	(42G1.5)C	29.5	820	1296
FMC918.25.03	(3G2.5)C	10	106	174
FMC918.25.04	(4G2.5)C	11.5	140	203
FMC918.25.05	(5G2.5)C	12	166	235
FMC918.25.07 ^{⑦)}	(7G2.5)C	14.5	230	334
FMC918.25.12	(12G2.5)C	19	382	585
FMC918.40.04	(4G4.0)C	13	203	328

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.

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