



FLEXIBLE CABLES

FLEXMOV®

高柔性电缆

Polymer-tech Solutions™



- 成立于1995年，总注册资本2.23亿人民币；
- 年营业额超过10亿元人民币，超1000名员工；
- 拥有5个生产基地，总占地超200000m²；
- 国家级高新技术企业，超120项专利；
- IATF16949:2016、ISO9001:2015、ISO14001:2015、ISO45001:2018认证。
- CSB was established in 1995 and its legal registered capital is 223 million RMB.
- Annual turnover more than 1 Billion RMB, more than 1000 employees.
- CSB has 5 production bases with a total area of 200000m².
- China National Hi-Tech Enterprise, more than 120 patents.
- IATF16949: 2016、ISO9001: 2015、ISO14001: 2015 and ISO45001: 2018 certifications.

...高性能聚合物技术 为客户创造价值

...High-performance Polymer Technologies Creating Value For Customers

RoHS指令限制的十种有害物质

EC Directive 2011/65/EU (the RoHS Directive)

汞Hg、六价铬Cr⁶⁺、铅Pb、镉Cd、多溴联苯醚PBDE、多溴联苯PBB、邻苯二甲酸二正丁酯DBP、邻苯二甲酸正丁基苄酯BBP、邻苯二甲酸(2-己基)己酯DEHP、六溴环十二烷HBCDD。

This directive restricts the use of hazardous substances. Listed below are CSB products which are all RoHS compliant.



"CSB", "TEFPLAS", "TEXPLAS", "DURAPLAS", "DURARUB", "DURAFILM", "TRIBOTAPE", "DURAMOV", "FLEXMOV", "CSB-EPB", "CSB-LIN", "CSB-FWB", "CSB-BAL", "CSB-RPM", "CSB-SRB", "CSB-PRB", etc. are legally protected trademarks in China. 等是中国保护商标。



Polymer-tech Solutions™

聚合物技术 解决方案



CSB-EPB®工程塑料轴承 Plastic Plain Bearings

自润滑免维护、耐腐蚀、长服务寿命、轻量化；可选：极低摩擦系数、高载荷、抗静电、高温250℃、FDA食品安全等级。

Maintenance-free dry operation, Absolute corrosion resistance, Long service time and light; Multiple choices: Lowest friction coefficient, High load, Anti-static, High temperature 250°C, FDA food safety grade.



CSB-LIN®塑料直线轴承 Plastic Linear Bearings

干运行无需供油、抗粉尘、无噪音、耐腐蚀、长服务寿命、轻量化；可选：高温250℃、多种安装方式。

Dry operation without oil, Anti-dust, No noise, Corrosion resistance, Longer service time and light; Multiple Assemble types, Highest operation temperature 250°C.



CSB-LIN®直线导轨丝杆 Guide Rails and Lead Screws

自润滑免维护直线驱动系统，直线滑动部件及丝杆螺母均采用高耐磨EPB13材料制成，实现长期干摩擦，低噪音，长服务寿命，适合在粉尘或污水下运行。

Self-lubricating and maintenance-free linear motion system, Linear slider and screw nuts are made of high wear-resistant material EPB13, Dry operation for longer time, lower noise, longer service time and suitable for operation in dust or dirty water.



CSB-BAL®塑料关节轴承 Plastic Spherical Bearings

自润滑免维护、耐腐蚀、抗污垢、轻量化；可选：多种结构设计满足不同安装需求。

Self-lubricating and maintenance-free, Corrosion-resistant, Anti-fouling, lightweight; Multiple structural design to meet different installation requirements.



CSB-FWB®纤维缠绕轴承 Filament-wound Bearings

连续长纤维复合材料、干摩擦性能更优越、极高的承载能力、最高静载荷240MPa，特别适用于高载低速下的摆动。

Long fiber composite material, The best performance for dry operation, High load capacity and max. static load 240MPa, Especially suitable for swing with high load and low speed.



DURAPLAS®耐磨半成品 Semi-finished Products

采用CSB-EPB®高耐磨材料制成，可实现非标准轴承的快速加工、小批量制作降低成本；可选：棒材、板材、片材。

The semi-finished products are made of anti-wear and high performance materials CSB-EPB®, It can be machined non-standard bearings in short time, saving cost for small quantity; Multiple choices: Bar, sheet and tribo-tape.



DURAMOV®塑料电缆拖链 Plastic Cable Carriers

采用高强度耐磨工程塑料制成，可实现多种运动方式与行程，模块化设计易于组装和维护，适用于各类环境下低噪音长寿命运行。

The cable carriers are made of high strength and anti-wear plastics, The cable carriers are used in a variety of motion modes and strokes, modular design is easy to assemble and maintain, and it is suitable for low noise long life in various environments.



FLEXMOV®柔性电缆 Flexible Cables

FLEXMOV® 高柔性电缆包含控制电缆、数据电缆、伺服电缆、动力电缆、总线电缆、机器人电缆等；多种护套材料如PVC、PUR和TPE可满足室内或室外等极端环境无故障运行。

FLEXMOV® flexible cables include control cables, data cables, servo cables, motor cables, bus cables, robot cables, etc.; Various jacket materials such as PVC, PUR and TPE are available to meet trouble-free operation in extreme environments such as indoors or outdoors.

<http://www.csb-ep.com>

Products

FLEXMOV®

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FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

Polymer-tech Solutions™

FLEXMOV® 高柔性电缆参数 Flexible cables



FLEXMOV®
高柔性电缆测试
Flexible cables test

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FLEXMOV®
FMC 控制电缆 Control cables

P18-59



FLEXMOV®
FMD 数据电缆 Data cables

P60-71



FLEXMOV®
FMB 总线电缆 Bus cables

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FLEXMOV®
FMM 动力电缆 Motor cables

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FLEXMOV®
FMV 伺服电缆 Servo cables

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FLEXMOV®
FME 测量系统电缆 Measuring system cables

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DURAMOV®
塑料电缆拖链 Plastic Cable Carriers

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首页 / CSB® 在线工具 / 高柔性电缆查询系统V1.0

外护套

☒ PVC ☒ TPE ☒ PUR

应用参数

最高运行温度: 70 °C
最低运行温度: 5 °C
电缆安装类型: 架空
电缆最小弯曲半径: 150 mm
电缆行程: 0 m
最大速度: 3 m/s
最大加速度: 20 m/s²

应用环境

☐ 耐油: 低
☐ 耐水解: 高
☐ 耐紫外线: 低
☐ 阻燃:
☒ 无主室
☐ 耐冲击
☐ 无卤素
☐ 耐湿

电缆类别

电缆类别: 控制电缆
芯线数量: 4

查找结果: 6 个电缆符合设计要求

电缆编码	外护套	直径[mm]	最小弯曲半径[mm]	重量
FMC603.02.04	PVC	5.5	41.25	35
FMC616.02.04	PVC	7	47.6	61
FMC601.02.04	TPE	5.5	27.5	37
FMC605.02.04	TPE	6.5	32.5	49
FMC607.02.04	PUR	5.5	37.4	35
FMC612.02.04	TPE	7	35	67

FLEXMOV® Cables

Category: Control cable
Number of cores: 4
Shielded: All
Cross section: 0.25 mm²

Result: 6 pcs cables meet the design requirements

Cable code	Outer jacket	Diameter [mm]	Min. bend radius [mm]	Weight [kg/km]	Color	Cores
FMC603.02.04	PVC	5.5	41.25	35	Grey [RAL7001]	4x0.25
FMC616.02.04	PVC	7	47.6	61	Green [RAL6005]	(4x0.25)C
FMC601.02.04	TPE	5.5	27.5	37	Grey [RAL7015]	4x0.25
FMC605.02.04	TPE	6.5	32.5	49	Steel-blue [RAL5011]	(4x0.25)C
FMC607.02.04	PUR	5.5	37.4	35	Grey [RAL7001]	4x0.25
FMC612.02.04	TPE	7	35	67	Grey [RAL7015]	(4x0.25)C

FLEXMOV® High-flexible Cable Finder V1.0 is based on a large amount of test data from CSB® laboratories and combined analysis and calculation of cable materials and structural characteristics. You can find suitable cables by selecting sheath materials, cable application parameters and application environment options, and combined with the cable core wire and shielding requirements, the system will output an adapted flexible cable.

Since the system's simulation calculation analysis based on theoretical data may not fully meet the input parameters, data verification has certain limitations; CSB® recommends that flexible cables need to be tested and verified again on the equipment to fully meet the actual use requirements.

The output data information of the FLEXMOV® high-flexible cable finder is only for reference in design selection and cannot be used as the basis for final cable compliance determination; if you have any questions, please contact CSB® sales engineers.

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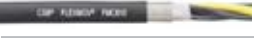
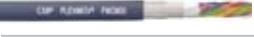
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FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

FLEXMOV® 高柔性电缆参数 Flexible cables

系列 Series	产品编码 Part No.	外护套 Outer jacket	屏蔽 Shield	最小弯曲半径 拖链内移动 Min. bending radius Moving in cable carriers [mm]	适用温度范围 拖链内移动 Temperature Moving in cable carriers	最大速度 v max. [m/s]		最大加速度 a max. [m/s²]
							架空 Unsupported	滑行 Gliding
FMC 控制电缆Control cables								
	FMC600	PVC	-	12.5 x d	+70°C/+5°C	3	-	20
	FMC603	PVC	-	7.5 x d	+70°C/+5°C	3	2	20
	FMC605	PVC	-	6.8 x d	+70°C/+5°C	10	5	80
	FMC610	PVC	✓	12.5 x d	+70°C/+5°C	3	-	20
	FMC616	PVC	✓	6.8 x d	+70°C/+5°C	10	5	80
	FMC800	PUR	-	12.5 x d	+80°C/-20°C	3	-	20
	FMC810	PUR	✓	12.5 x d	+80°C/-20°C	3	-	20
	FMC900	TPE	-	5 x d	+100°C/-35°C	10	6	100
	FMC901	TPE	-	5 x d	+100°C/-35°C	10	6	100
	FMC905	TPE	✓	5 x d	+100°C/-35°C	10	6	100
	FMC907	PUR	-	6.8 x d	+80°C/-25°C	10	5	80
	FMC912	TPE	✓	5 x d	+100°C/-35°C	10	6	100
	FMC918	PUR	✓	6.8 x d	+80°C/-25°C	10	5	80
FMD 数据电缆Data cables								
	FMD611	PVC	✓	7.5 x d	+70°C/+5°C	5	3	50
	FMD612	PVC	✓	10 x d	+70°C/+5°C	3	2	20
	FMD900	TPE	✓	6.8 x d	+100°C/-35°C	10	6	100
	FMD910	PUR	✓	10 x d	+80°C/-25°C	3	2	20
FMB 总线电缆Bus cables								
	FMB610	PVC	✓	12.5 x d	+70°C/+5°C	3	2	30
	FMB910	TPE	✓	10 x d	+70°C/-35°C	10	6	100
	FMB911	PUR	✓	12.5 x d	+70°C/-20°C	3	2	30

○ 不适用 Inapplicable ● 中 Medium ● 高 High

标准和认证 Properties and approvals	抗紫外线 UV-resistance 	耐水解 Hydrolysis-resistance 	耐低温 Cold-resistant 	阻燃 Flame resistance 	耐油性 Oil resistance 	无卤素 Halogen-free 	抗扭性 Torsion 	页码 Page
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FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

FLEXMOV® 高柔性电缆参数 Flexible cables

系列 Series	产品编码 Part No.	外护套 Outer jacket	屏蔽 Shield	最小弯曲半径 拖链内移动 Min. bending radius Moving in cable carriers [mm]	适用温度范围 拖链内移动 Temperature Moving in cable carriers	最大速度 v max. [m/s]		最大加速度 a max. [m/s²]
						 架空 Unsupported	 滑行 Gliding	
FMM 动力电缆Motor cables								
	FMM600	PVC	-	7.5 x d	+70°C/+5°C	10	5	80
	FMM610	PVC	√	7.5 x d	+70°C/+5°C	10	5	80
	FMM900	TPE	-	7.5 x d	+90°C/-35°C	10	6	100
	FMM902	TPE	-	7.5 x d	+90°C/-35°C	10	6	100
	FMM903	TPE	-	7.5 x d	+90°C/-35°C	10	6	80
	FMM907	TPE	-	7.5 x d	+90°C/-35°C	10	6	80
	FMM912	TPE	√	7.5 x d	+90°C/-35°C	10	6	100
	FMM917	TPE	√	7.5 x d	+90°C/-35°C	10	6	80
FMV 伺服电缆Servo cables								
	FMV610	PVC	√	7.5 x d	+70°C/+5°C	10	5	80
	FMV910	PUR	√	10 x d	+80°C/-25°C	10	2	50
FME 测量系统电缆Measuring system cables								
	FME911	TPE	√	7.5 x d	+90°C/-35°C	10	6	100
	FME913	PUR	√	7.5 x d	+80°C/-25°C	10	5	50

○ 不适用 Inapplicable ● 中 Medium ● 高 High

标准和认证 Properties and approvals	抗紫外线 UV-resistance 	耐水解 Hydrolysis-resistance 	耐低温 Cold-resistant 	阻燃 Flame resistance 	耐油性 Oil resistance 	无卤素 Halogen-free 	抗扭性 Torsion 	页码 Page
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DURAMOV® Plastic Cable Carriers

DURAMOV® 工程塑料电缆拖链

DURAMOV® 电缆拖链参数 Cable carriers

系列 Series	开启原理 Opening principle	内高 Hi Inner height [mm]	最大电缆 外径 Max. cable outer diameter [mm]	内宽 Bi Inner width [mm]	外高 Ha Outer height [mm]	外宽 Ba Outer width [mm]	弯曲半径 R Bend radius [mm]	节距 T Link pitch [mm]	
C01 微型电缆拖链 Micro cable carriers, Closed design									
沿拖链外侧横杆不可打开 For the smallest applications. One-piece, non-openable									
		07	8	7-30	10	12-35	15-48	16.7	
		10	8	10-30	12	14-34	18-38	20	
		15	12	16-50	19.3	24.2-58.2	25-48	20	
C11 易填充微型电缆拖链 Micro cable carriers, Opening design									
易填充电缆线，内侧横杆为分离式设计 Fill the cable quickly and easily; Split crossbar along the inner radius									
		05	3	5-10	8	8.7-13.7	10-18	10	
		07	4.5	7-30	10	12-35	15-48	16.7	
		10	6.5	10-20	15	16.5-26.5	18-38	20	
C21 可打开微型电缆拖链 Micro cable carriers, Openable along the outer radius									
沿拖链外侧方向打开 Fill the cable quickly and easily; Openable along the outer radius									
		14.3	12	16-40	19.3	24.2-48.2	28-48	20	
		20	16	25-50	25	36-61	28-48	30.5	
C31 微型可打开电缆拖链 Micro cable carriers, openable along one side									
两片式设计，可沿内侧或外侧打开 Two-pieces design, Openable along the outer radius or inner radius									
		10	8	10-30	15	17.4-37.4	18-38	20	
		15	12.5	16-50	19.3	23.8-57.8	28-48	20	
		20	16	25-50	25	36-61	28-48	30.5	
C02 通用型电缆拖链 Universal cable carriers									
沿拖链内外侧方向可打开 For almost any application. Crossbars removable along the inner and outer radius									
		18	16	38-125	28	54-141	38-150	40	
		25	23	38-125	35	54-141	55-250	46	
		35	32	50-150	50	66-166	63-250	56	
		45	42	75-175	64	95-195	75-300	67	
C03 重载型电缆拖链 High load cable carriers									
每节带横杆 - 加强型 Strong chain with crossbars every link									
		32	28	50-200	54	73-223	63-300	56	
		42	38	50-200	64	76-226	75-350	67	
		56	50	100-200	84	134-234	135-500	91	
		80	72	100-200	108	148-248	150-500	111	
C03H 高强度电缆拖链 High-strength cable carriers									
特殊的横杆设计内宽可自由定义 Special crossbar design with freely definable inner width									
		32	28	200-400	54	223-423	63-300	56	
		42	38	200-400	64	226-426	75-350	67	
		56	50	200-600	84	234-634	135-500	91	
		80	72	200-600	108	248-648	150-500	111	

*请扫描二维码登录我们的网站查询 Please scan the QR code to log in to our website: www.csb-ep.com

— 不适用 Inapplicable ○ 可选配 Optional ● 标准 standard ■ 特别适合 Especially suitable

最大架空负载 Unsupported fill weight max. [kg/m]	最大架空长度 Unsupported length max. [m]	最大拖行长度 Long travel max. [m]	内部分隔 Internal divider		防爆/防静电 ATEX/ESD	无尘室 Cleanroom	阻燃等级 UL94	低噪音 Low noise	二维码 QR code
			竖分隔片 Vertical separators	横分隔片 Horizontal separators					
0.37	≤ 0.5	—	—	—	○	●	HB	●	
0.37	≤ 0.5	—	—	—	○	●	HB	●	
0.75	≤ 0.7	—	—	—	○	●	HB	●	
0.25	≤ 0.3	—	—	—	—	●	V2	●	
0.37	≤ 0.5	—	—	—	—	●	V2	●	
0.37	≤ 0.5	—	—	—	—	●	V2	●	
0.50	≤ 0.7	—	—	—	○	—	HB	●	
0.50	≤ 0.7	—	—	—	○	—	HB	●	
0.50	≤ 0.7	—	—	—	○	—	HB	●	
0.65	≤ 1.0	—	—	—	○	—	HB	●	
0.65	≤ 1.0	—	—	—	○	—	HB	●	
5	≤ 1.8	75	○	○	○	—	HB	—	
5	≤ 2.4	100	○	○	○	—	HB	—	
8	≤ 2.8	120	○	○	○	—	HB	—	
13	≤ 3.7	150	○	○	○	—	HB	—	
15	≤ 3.0	200	○	○	○	—	HB	—	
38	≤ 4.2	300	○	○	○	—	HB	—	
75	≤ 5.0	400	○	○	○	—	HB	—	
75	≤ 5.8	400	○	○	○	—	HB	—	
20	≤ 3.0	200	○	○	—	—	HB	—	
55	≤ 4.2	300	○	○	—	—	HB	—	
100	≤ 5.0	400	○	○	—	—	HB	—	
100	≤ 5.8	400	○	○	—	—	HB	—	

DURAMOV® Plastic Cable Carriers

DURAMOV® 工程塑料电缆拖链

DURAMOV® 电缆拖链参数 Cable carriers

系列 Series	开启原理 Opening principle	内高 Hi Inner height [mm]	最大电缆 外径 Max. cable outer diameter [mm]	内宽 Bi Inner width [mm]	外高 Ha Outer height [mm]	外宽 Ba Outer width [mm]	弯曲半径 R Bend radius [mm]	节距 T Link pitch [mm]

C04 低噪音电缆拖链 Low-noise cable carriers

特殊结构与小节距设计低噪音运行 Special design and small pitch for quite applications, Openable along the inner and outer radius

		28	25	30-60	35	46-76	55-150	22
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C06 高速低噪音电缆拖链 High-speed and low-noise cable carriers

特殊结构与小节距设计低噪音无尘运行 Special design and small pitch for quite and cleanroom, Openable along the inner and outer radius

		29	25	40-120	35	56-136	55-150	22
		35	31	40-120	42	60-140	55-150	25
		40	36	50-150	54	70-170	63-200	27.8
		52	46	50-150	65	74-174	75-250	30

DURAMOV® 波纹管 Bellows

系列 Series	类型 Type	内径 Bi Inner diameter [mm]	外径 Ba Outer diameter [mm]	弯曲半径 R Bend radius [mm]	架空长度 Unsupported length [m]	二维码 QR code
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BL01波纹管 Bellows

用于多种场合保护电缆并可实现柔性运动 Used to protect cables in mutiple applications and flexible movement

	封闭 Close	10-48	13-54.5	20-90	≤0.3	
	开口 Open	10-48	13-54.5	20-90	≤0.3	

BL02波纹管 Bellows

用于多种场合保护电缆并可实现柔性运动 Used to protect cables in mutiple applications and flexible movement

	封闭 Close	10-48	13-54.5	20-90	≤0.3	
	开口 Open	10-48	13-54.5	20-90	≤0.3	

波纹管附件 Accessories

	支架 Brackets 用于长行程支撑波纹管 Used to support bellows in long-travall applications			快速接头 Quick connectors 快速连接无需工具 Quickly connected without tools	
	防水接头 Water-proof connectors 用于潮湿或液体飞溅环境 Used for wet or liquids environment			直角接头 Right-angle connectors 用于需要直角转向应用 Used for right-angle applications	

*请扫描二维码登录我们的网站查询 Please scan the QR code to log in to our website: www.csb-ep.com

— 不适用 Inapplicable ○ 可选配 Optional ● 标准 standard ■ 特别适合 Especially suitable

最大架空负载 Unsupported fill weight max. [kg/m]	最大架空长度 Unsupported length max. [m]	最大拖行长度 Long travel max. [m]	内部分隔 Internal divider		防爆/防静电 ATEX/ESD	无尘室 Cleanroom	阻燃等级 UL94	低噪音 Low noise	二维码 QR code
			竖分隔片 Vertical separators	横分隔片 Horizontal separators					
3	≤1.0	—	○	—	—	●	HB	■	
3	≤1.75	—	○	—	—	●	HB	●	
5	≤1.9	—	○	—	—	●	HB	●	
8	≤2.75	—	○	—	—	●	HB	●	
10	≤3.0	—	○	—	—	●	HB	●	

DURAMOV® 导向槽 Guide troughs

系列 Series	适配电缆拖链 Cable carriers	侧板 Trough side parts	支架 Clamping brackets	滑条 Glide bars	C型槽 C-profile	二维码 QR code
钢制导向槽 Steel guide troughs						
可选用镀锌钢和不锈钢 Available in galvanised steel and stainless steel						
	DURAMOV® C02 and C03	标准长度 Standard length: 2m section	标准件 Standard parts	标准长度 Standard length: 2m section	长度根据 The length according to Lc	
电缆夹 Cable clamp						
	电缆夹 Cable clamp 多层可选，配合C型槽用于固定电缆 Multi-layer available, Used to fix cables with C-profile supporter					

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FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

DIN 47100 标准颜色编码 DIN Color Codes to DIN 47100

编码 Core	颜色 Colour	编码 Core	颜色 Colour	编码 Core	颜色 Colour	编码 Core	颜色 Colour
1	WT	18	GY/BN	35	GN/BK	52	YL/BN/BK
2	BN	19	WT/PK	36	YL/BK	53	WT/GY/BK
3	GN	20	PK/BN	37	GY/BU	54	GY/BN/BK
4	YL	21	WT/BU	38	PK/BU	55	WT/PK/BK
5	GY	22	BN/BU	39	GY/RD	56	PK/BN/BK
6	PK	23	WT/RD	40	PK/RD	57	WT/BU/BK
7	BU	24	BN/RD	41	GY/BK	58	BN/BU/BK
8	RD	25	WT/BK	42	PK/BK	59	WT/RD/BK
9	BK	26	BN/BK	43	BU/BK	60	BN/RD/BK
10	VL	27	GY/GN	44	RD/BK	61	BK/WT
11	GY/PK	28	YL/GY	45	WT/BN/BK		
12	RD/BU	29	PK/GN	46	YL/GN/BK		
13	WT/GN	30	YL/PK	47	GY/PK/BK		
14	BN/GN	31	GN/BU	48	RD/BU/BK		
15	WT/YL	32	YL/BU	49	WT/GN/BK		
16	YL/BN	33	GN/RD	50	BN/GN/BK		
17	WT/GY	34	YL/RD	51	WT/YL/BK		

*以上各缩写的含义 Meaning of the above abbreviations:

WT_White_白色 BN_Brown_棕色 GN_Green_绿色 YL_Yellow_黄色 GY_Gray_灰色
 PK_Pink_粉红色 BU_Blue_蓝色 RD_Red_红色 BK_Black_黑色 VL_Violet_紫色

测试方法 | 燃烧测试 Test methods | Fire tests

测试 Test	测试条件 Specification	装置 Design										
IEC 60332-1-2	测试火焰在芯线，绝缘电线或电缆上的垂直传播，测试方法1kW-含气体/空气混合物的火焰 Test of vertical flame propagation on a core, an insulated wire or a cable, test method 1kW - flame with gas/air mixture 样品长度Sample length: 600mm 燃烧器Burner: 符合According to IEC 60332-1-1 测试温度Test temperature: 1kW 火焰flame 样品位置Position of the sample: 垂直Vertical 火焰位置Position of the flame: 45° 倾斜to the vertical 燃烧时间Flame duration: 见下表See table below 判定条件 Conditions: 从最上端燃烧位置开始测量，损坏或碳化只能发生在50mm至500mm之间 The damage or carbonisation must only occur between 50mm and 500mm, measured from the upper attachment point <table><tr><th>样品外径 Outer diameter of the sample [mm]</th><th>燃烧时间 Flame duration [s]</th></tr><tr><td>< 25</td><td>60</td></tr><tr><td>25-50</td><td>120</td></tr><tr><td>50-75</td><td>240</td></tr><tr><td>> 75</td><td>480</td></tr></table>	样品外径 Outer diameter of the sample [mm]	燃烧时间 Flame duration [s]	< 25	60	25-50	120	50-75	240	> 75	480	
样品外径 Outer diameter of the sample [mm]	燃烧时间 Flame duration [s]											
< 25	60											
25-50	120											
50-75	240											
> 75	480											
FT2 燃烧测试 Flame Test	UL 1581, § 1100 (FT2 燃烧测试Flame Test) 样品长度Length of the sample: 250 - 300mm 样品位置Position of the sample: 水平Horizontal 火焰位置Position of the flame: 20° 倾斜to the vertical 燃烧时间Flame duration: 30 秒seconds 判定条件 Conditions: 燃烧距离不得超过100mm The burnt distance must not exceed 100mm. 滴落物不得点燃其他下方的棉花。 Dripping material must not ignite the underlying cotton.											

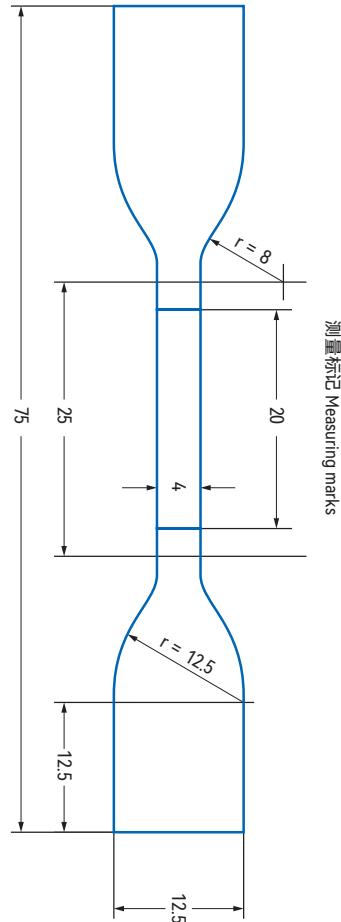
FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

测试方法 | 燃烧测试 Test methods | Fire tests

测试 Test	测试条件 Specification	装置 Design
垂直燃烧 Vertical Flame and FT1	UL 1581, § 1060 (垂直燃烧和FT1 测试Vertical Flame and FT1 Test) 样品长度Length of the sample: 457mm-610mm 燃烧器Burner: 带有额外供气的本生灯(Tirril气体燃烧器) Bunsen burner with additional air supply (Tirril gas burner) Ø9.5mm 测试温度Test temperature: 500 W 火焰flame 样品位置Position of the sample: 垂直Vertical 火焰位置Position of the flame: 20° 倾斜to the vertical 燃烧时间Flame duration: 5 x 15 秒, 每次间隔火焰中断15秒 5 x 15 seconds with 15 seconds flame break each 判定条件Conditions: - 纸旗最高烧焦25% - 样品持续燃烧必须不超过1分钟 - Paper flag up to maximum 25% charred - The sample must continue to burn for maximum 1 minute	
VW-1 燃烧 Flame	UL 1581, § 1080 (VW-1 燃烧测试VW-1 Flame Test) 样品长度Length of the sample: 610mm 燃烧器Burner: 带有额外供气的本生灯(Tirril气体燃烧器) Bunsen burner with additional air supply (Tirril gas burner) Ø9.5mm 测试温度Test temperature: 500 W 火焰flame 样品位置Position of the sample: 垂直Vertical 火焰位置Position of the flame: 20° 倾斜to the vertical 燃烧时间Flame duration: 5 x 15 秒, 每次间隔火焰中断15秒 5 x 15 seconds with 15 seconds flame break each 判定条件Conditions: - 纸旗最高烧焦25% - 样品持续燃烧必须不超过1分钟 - 记录火焰/样品熄灭为止的时间 - 滴落物不得点燃其他下方的棉花 - Paper flag up to maximum 25% charred - The sample must continue to burn for maximum 1 minute - Time noted until the flame/sample is extinguished - Dripping material must not ignite the cotton lying under it	
燃烧测试 Cable Flame	UL 1581, § 1061 (电缆燃烧测试Cable Flame Test) 样品长度Length of the sample: 455mm 燃烧器Burner: 带有额外供气的本生灯(Tirril气体燃烧器) Bunsen burner with additional air supply (Tirril gas burner) Ø9.5mm 测试温度Test temperature: 500 W 火焰flame 样品位置Position of the sample: 垂直Vertical 火焰位置Position of the flame: 20° 倾斜to the vertical 燃烧时间Flame duration: 3 x 60 秒, 每次间隔火焰中断30秒 3 x 60 seconds with 30 seconds flame break each 判定条件Conditions: - 纸旗最高烧焦25% - 样品持续燃烧必须不超过1分钟 - 滴落物不得点燃其他下方的棉花 - Paper flag up to maximum 25% charred - The sample must continue to burn for maximum 1 minute - Dripping material must not ignite the cotton lying under it	

测试方法 | 化学介质测试 Test methods | Media tests

测试 Test	测试条件 Specification	装置 Design
EN 50363-4-1	PVC外护套耐油测试 Testing of oil resistance for PVC jackets 测试根据EN 60844-2-1, 第10条 Test according to EN 60811-2-1, Clause 10 测试油Test oil: IRM 902 参照EN 60811-501 准备样品 Preparation of the sample according to EN 60811-501 测试温度Test temperature: $90 \pm 2^\circ$ 测试时间Test duration: 7x 24hrs 之后在室温下存放至少16小时, 但不可超过24小时 Followed by storage at room temperature of at least 16hrs, but not longer than 24hrs 最大抗张强度Maximum alteration of tensile strength: $\pm 30\%$ 最大断裂伸长率Maximum elongation at break: $\pm 30\%$	
EN 50363-10-2	PUR外护套耐油测试 Testing of oil resistance for PUR jackets 测试根据EN 60844-2-1, 第10条 Test according to EN 60811-2-1, Clause 10 测试油Test oil: IRM 902 参照EN 60811-501 准备样品 Preparation of the sample according to EN 60811-501 测试温度Test temperature: $100 \pm 2^\circ$ 测试时间Test duration: 7x 24hrs 之后在室温下存放至少16小时, 但不可超过24小时 Followed by storage at room temperature of at least 16hrs, but not longer than 24hrs 最大抗张强度Maximum alteration of tensile strength: $\pm 40\%$ 最低断裂平均伸长率Minimum median elongation at break: 300% 最大断裂伸长率Maximum elongation at break: $\pm 30\%$	
EN 60811-404	TPE外护套耐油测试 Testing of oil resistance for TPE jackets 测试根据EN 60844-2-1, 第10条 Test according to EN 60811-2-1, Clause 10 测试油Test oil: IRM 902 参照EN 60811-501 准备样品 Preparation of the sample according to EN 60811-501 测试温度Test temperature: $100 \pm 2^\circ$ 测试时间Test duration: 7x 24hrs 之后在室温下存放至少16小时, 但不可超过24小时 Followed by storage at room temperature of at least 16hrs, but not longer than 24hrs 最大抗张强度Maximum alteration of tensile strength: $\pm 30\%$ 最大断裂伸长率Maximum elongation at break: $\pm 30\%$	

FLEXMOV® Flexible cables

FLEXMOV® 高柔性电缆

测试方法 | 低温测试 Test methods | Low temperature tests

Cables

FLEXMOV®

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Tel: 0086 573 84187009

测试 Test

测试条件 Specification

装置 Design

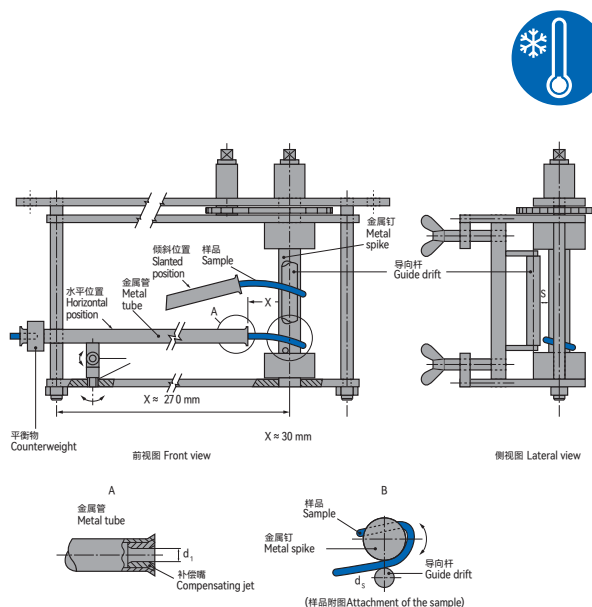
EN 60811-504

外护套低温弯折测试

Bending test at low temperature for jacket
根据EN 60811-504 第8.2节进行冷弯曲实验
Feed-through of the cold winding test according to 8.2 from EN 60811-504
样品外径 > 12.5mm 不在该法规包含范围内
Deviating from the standard also the outer diameter of the sample > 12.5mm
绕轴直径为4-5倍样品直径 (必须至少有2份样品)
Mandrel diameter 4-5 times the sample diameter (there must be at least 2 samples)

样品外径 (d) Outer diameter of the sample [mm]	绕轴次数 Number of windings
$d \leq 2.5$	10
$2.5 < d \leq 4.5$	6
$4.5 < d \leq 6.5$	4
$6.5 < d \leq 8.5$	3
$8.5 < d$	2

在测试温度下存储样品 > 16小时
Storage of the wound sample > 16hrs at test temperature
升温至室温
Heat to room temperature
用肉眼或无放大倍数的视觉辅助工具查看, 外护套无裂痕
When viewed with the naked eye or visual aid without magnification, there should not be any cracks in the outer jacket



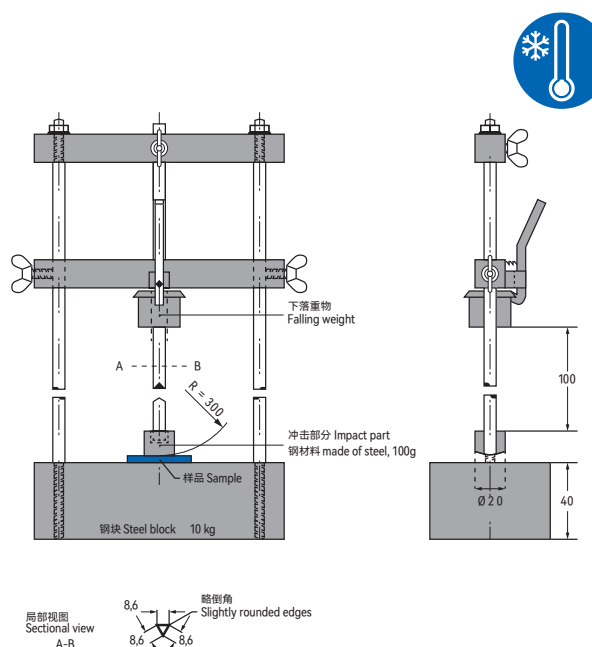
EN 50305

外护套低温冲击测试

Low temperature impact test for jacket
根据EN 60811-504 第8.5节进行冷冲击实验
Feed-through of the cold impact test according to 8.5 from EN 60811-504
选择标准来自EN 50305第5.1节
Selection criteria according to 5.1 from EN 50305

电缆外径(D) Diameter of the cable [mm]	锤子尺寸 Weight of the hammer [g]	中间样品尺寸 Weight of the intermediate sample [g]	下落高度 Fall height [mm]
$D < 15$	1000	200	100
$15 < D \leq 25$	1500	200	150
$D > 25$	2000	200	200

3件, 长度至少 5x 外径或 150mm
3 pieces, length at least 5x the outer diameter or 150mm
在测试温度下存储样品 > 16小时
Storage of the wound sample > 16hrs at test temperature
升温至室温
Heat to room temperature
用肉眼或无放大倍数的视觉辅助工具查看, 外护套无裂痕
When viewed with the naked eye or visual aid without magnification, there should not be any cracks in the outer jacket



测试方法 | 运动测试 Test methods | Motion tests

测试 Test	测试条件 Specification	装置 Design
CSB®测试: “短行程” DURAMOV®拖链内 "Short travel" in DURAMOV®	水平行程Horizontal travel 行程距离Travel length S: 可达up to about 2m 环境温度Temperature: 约approx. from -5°C 至to +35°C 弯曲半径Bending factor: 根据样本册according to the catalogue (约approx. 5 - 7.5 x d) 目标Target: 至少5,000,000次双循环 minimum 5,000,000 double strokes	
CSB®测试: “长行程” DURAMOV®拖链内 "Long travel" in DURAMOV®	水平行程Horizontal travel 行程距离Travel length S: 可达up to about 20m 环境温度Temperature: 约approx. from -10°C 至to +40°C 弯曲半径Bending factor: 根据样本册according to the catalogue (约approx. 5 - 7.5 x d) 目标Target: 至少5,000,000次双循环 minimum 5,000,000 double strokes	
CSB®测试: “扭转测试” "Torsion test"	扭转长度Twisted length S: 约about 1m 扭转角度Rotation angle: 根据样本册according to catalogue (约about ±180°) 目标Target: 至少5,000,000次循环 minimum 5,000,000 cycles	

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 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 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

FMC600

FLEXMOV®

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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 Accorddding 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

FLEXMOV® Control Cables

FLEXMOV® 控制电缆

FMC603

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

CSB® FLEXMOV® FMC605

- 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

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	
	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]
适用温度范围 Temperature, from/to [°C]						
+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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FMC605 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]
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

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

	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
- PVC 外护套
- 抗UV
- 阻燃
- 耐油
- Shielded
- 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	

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]	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 ^{⑦)}	(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

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

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

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 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 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 [mm²]	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

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 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
	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

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 ²]	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 ^{⑩)}	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.

⑩) 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	

FMC901

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	-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 ^{⑦)}	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 ^{⑦)}	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

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

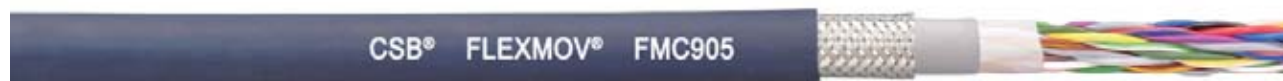
x: 不带接地线 Without earth core

FLEXMOV® FMC901

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FMC905 控制电缆 Control cables



- 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
- 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

FLEXMOV®

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Tel: 0086 573 84187009

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]	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	
	< 10 m		< 10 m		< 10 m	
	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]
适用温度范围 Temperature, from/to [°C]						
-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

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]
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

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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	
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. [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]	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

FLEXMOV® Data cables

FLEXMOV® 数据电缆

FMD611 数据电缆 Data cables



- PVC外护套
- 带屏蔽
- 耐油
- 阻燃
- 低成本
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame resistance
- 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	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	5 m/s
		滑行 Gliding	3 m/s
	最大加速度 a max.	50 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	高柔性设计的精细裸铜多股线 Fine bare copper stranded wires with high flexibility design
	绝缘材料 Conductor insulation	高机械性能TPE混合物 Mechanically high-quality TPE compound.
	芯线结构 Conductor construction	每两根芯线以短节距对绞，再将所有对线以短节距围绕高强度中芯线绞合在一起 Cores twisted in pairs with a short pitch length, core pairs then wound with short pitch lengths.
	芯线识别 Color code	颜色代码符合 DIN 47100 标准 Colour code following DIN 47100
	中间层 Intermediate layer	聚合物薄带缠绕在芯线束外 Foil taping over the outer layer.
	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 flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
	外护套 Outer jacket	低粘性、耐油的PVC基混合材料，符合拖链要求 颜色：灰色 Color: Grey RAL 7001 Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in cable carriers.

电气参数 Electrical Information

	额定电压 Nominal voltage	U_0/U : 300/300 V (符合following VDE0298-3)
	测试电压 Test voltage	1500 V (符合following EN50395)

特性和认证 Properties and approvals

	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 UL2464, 300V, 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]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

FLEXMOV® Data cables

FLEXMOV® 数据电缆

FMD611

FMD611 数据电缆 Data 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]
FMD611.02.01.02	(2×0.25)C	5.0	18.0	33.0
FMD611.02.02.02 ^{④)}	(2x(2x0.25))C	6.5	25.0	51.0
FMD611.02.03.02	(3x(2x0.25))C	7.0	36.0	63.0
FMD611.02.04.02	(4x(2x0.25))C	7.5	44.0	76.0
FMD611.02.05.02	(5x(2x0.25))C	8.5	52.0	92.0
FMD611.02.06.02	(6x(2x0.25))C	9.0	62.0	105.0
FMD611.02.08.02	(8x(2x0.25))C	10.5	78.0	137.0
FMD611.02.10.02	(10x(2x0.25))C	12.0	90.0	170.0
FMD611.02.14.02	(14x(2x0.25))C	12.0	119.0	204.0
FMD611.03.03.02	(3x(2x0.34))C	8.0	44.0	86.0
FMD611.03.08.02	(8x(2x0.34))C	12.0	102.0	206.0
FMD611.05.01.02	(2×0.5)C	6.0	25.0	51.0
FMD611.05.02.02 ^{④)}	(2x(2x0.5))C	7.0	46.0	90.0
FMD611.05.03.02	(3x(2x0.5))C	9.0	61.0	109.0
FMD611.05.04.02	(4x(2x0.5))C	9.5	74.0	125.0
FMD611.05.05.02	(5x(2x0.5))C	11.0	91.0	153.0
FMD611.05.06.02	(6x(2x0.5))C	11.5	103.0	189.0
FMD611.05.08.02	(8x(2x0.5))C	13.0	137.0	234.0
FMD611.05.10.02	(10x(2x0.5))C	15.5	181.0	326.0
FMD611.05.14.02	(14x(2x0.5))C	16.0	193.0	341.0

④) 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

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

FMD611

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FMD612 数据电缆 Data cables



- PVC外护套
- 带屏蔽
- 耐油
- 阻燃
- 低成本
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame resistance
- 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	10 x d
		非拖链内移动 Flexible moving	8 x d
		固定铺设 Fixed installation	5 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	

电缆结构 Cable structure

	导体 Conductor	高柔性设计的精细裸铜多股线 Fine bare copper stranded wires with high flexibility design
	绝缘材料 Conductor insulation	高机械性能TPE混合物 Mechanically high-quality TPE mixture.
	芯线结构 Conductor construction	单独芯线以短节距分层绞合在一起 The individual cores are wound in layers with a short pitch length.
	芯线识别 Color code	颜色代码符合 DIN 47100 标准 Colour code following DIN 47100
	中间层 Intermediate layer	聚合物薄带缠绕在芯线束外 Foil taping over the outer layer.
	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 flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
	外护套 Outer jacket	低粘性、耐油的 PVC 基混合材料，符合拖链要求 Low adhesion mixture on the basis of PVC, adapted to suit the requirements in cable carriers. 颜色：灰色 Color: Grey RAL 7001

FLEXMOV® Data cables

FLEXMOV® 数据电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 300/300 V (符合following VDE0298-3)
	测试电压 Test voltage	1500 V (符合following EN50395)

特性和认证 Properties and approvals

	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 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 UL2464, 300V, 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	12.5	15	13.5	16	14.5	17
+15/+60	10	12.5	11	13.5	12	14.5
+60/+70	12.5	15	13.5	16	14.5	17

FMD612

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FMD612 数据电缆 Data 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]
FMD612.01.03	(3×0.14)C	5.0	12.0	28.0
FMD612.01.04	(4×0.14)C	5.0	17.0	32.0
FMD612.01.05	(5×0.14)C	5.5	19.0	37.0
FMD612.01.07	(7×0.14)C	6.0	25.0	47.0
FMD612.01.14	(14×0.14)C	7.0	41.0	75.0
FMD612.01.18	(18×0.14)C	7.5	51.0	90.0
FMD612.01.24	(24×0.14)C	8.5	64.0	125.0
FMD612.02.03	(3×0.25)C	5.0	19.0	35.0
FMD612.02.04	(4×0.25)C	5.5	23.0	45.0
FMD612.02.05	(5×0.25)C	6.0	28.0	49.0
FMD612.02.07	(7×0.25)C	6.5	35.0	61.0
FMD612.02.08	(8×0.25)C	7.0	39.0	68.0
FMD612.02.14	(14×0.25)C	7.5	60.0	92.0
FMD612.02.18	(18×0.25)C	8.5	71.0	122.0
FMD612.02.24	(24×0.25)C	10.0	95.0	161.0
FMD612.03.02	(2×0.34)C	5.5	21.0	37.0
FMD612.03.03	(3×0.34)C	5.5	29.0	42.0
FMD612.03.04	(4×0.34)C	6.0	33.0	51.0
FMD612.03.05	(5×0.34)C	6.5	38.0	56.0
FMD612.03.07	(7×0.34)C	7.5	50.0	77.0
FMD612.03.10	(10×0.34)C	8.0	58.0	97.0
FMD612.03.14	(14×0.34)C	8.0	74.0	112.0
FMD612.03.18	(18×0.34)C	9.0	91.0	139.0
FMD612.03.24	(24×0.34)C	10.0	119.0	177.0

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® Data cables

FLEXMOV® 数据电缆

FMD900 数据电缆 Data cables



- TPE 外护套
- 带屏蔽
- 耐油
- 抗UV
- 抗水解和微生物
- 不含PVC和卤素
- TPE outer jacket
- Shielded
- Oil-resistant
- UV-resistance
- Resistant to hydrolysis and microbes
- 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	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	-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 and more 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	每两根芯线以短节距对绞, 再将所有对线以短节距围绕高强度中芯线绞合在一起 Cores twisted in pairs with a short pitch length, core pairs then wound with short pitch lengths.
	芯线识别 Color code	截面积Cross -sectional < 1.0mm ² : 颜色代码符合 Color code in accordance with DIN 47100 截面积Cross -sectional ≥ 1.0 mm ² : 黑色芯线带白色数字 Black cores with white numbers.
	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

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 300/300 V (符合following VDE0298-3)
	测试电压 Test voltage	1500 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 UL21481, 300V, 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	7.5	8.5	9.5
-25/+90	6.8	7.5	8.5
+90/+100	7.5	8.5	9.5

FLEXMOV® Data cables

FLEXMOV® 数据电缆

FMD900

FMD900 数据电缆 Data 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]
FMD900.01.04.02	(4×(2×0.14))C	7.5	30.0	63.0
FMD900.01.18.02	(18×(2×0.14))C	12.5	101.0	202.0
FMD900.02.01.02	(2×0.25)C	6.0	17.0	39.0
FMD900.02.02.02 ^④	(2×(2×0.25))C	6.5	26.0	47.0
FMD900.02.03.02	(3×(2×0.25))C	8.0	35.0	78.0
FMD900.02.04.02	(4×(2×0.25))C	8.5	42.0	90.0
FMD900.02.05.02	(5×(2×0.25))C	9.0	49.0	100.0
FMD900.02.06.02	(6×(2×0.25))C	10.0	69.0	125.0
FMD900.02.09.02	(9×(2×0.25))C	12.5	102.0	208.0
FMD900.02.10.02	(10×(2×0.25))C	13.5	103.0	207.0
FMD900.02.14.02	(14×(2×0.25))C	14.0	124.0	228.0
FMD900.03.08.02	(8×(2×0.34))C	13.0	106.0	209.0
FMD900.05.04.02	(4×(2×0.5))C	9.5	77.0	140.0
FMD900.05.06.02	(6×(2×0.5))C	12.0	103.0	198.0
FMD900.05.08.02	(8×(2×0.5))C	14.5	135.0	251.0
FMD900.07.03.02	(3×(2×0.75))C	10.5	83.0	155.0
FMD900.10.04.02	(4×(2×1))C	12.5	125.0	232.0
FMD900.15.06.02	(6×(2×1.5))C	16.5	247.0	420.0

④) 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

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

FMD900

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FMD910 数据电缆 Data cables



- PUR 外护套
- 带屏蔽
- 耐油和冷却剂
- 抗UV
- 耐划痕
- 抗水解和微生物
- 不含PVC和卤素
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- UV-resistance
- Notch-resistant
- Resistant to hydrolysis and microbes
- 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	10 x d
		非拖链内移动 Flexible moving	8 x d
		固定铺设 Fixed installation	5 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	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	

电缆结构 Cable structure

	导体 Conductor	高柔性设计的精细裸铜多股线 Fine bare copper stranded wires with high flexibility design
	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	单独芯线以短节距分层绞合在一起 The individual cores are wound in layers with a short pitch length.
	芯线识别 Color code	颜色代码符合 Color code in accordance with DIN 47100
	中间层 Intermediate layer	聚合物薄带缠绕在芯线束外 Foil taping over the outer layer.
	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 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® Data cables

FLEXMOV® 数据电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 300/300 V (符合following VDE0298-3)
	测试电压 Test voltage	1500 V (符合following EN50395)

特性和认证 Properties and approvals

	抗紫外线 UV-resistance	中 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 UL20233, 300V, 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. [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	12.5	15	13.5	16	14.5	17
-15/+70	10	12.5	11	13.5	12	14.5
+70/+80	12.5	15	13.5	16	14.5	17

FMD910

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FMD910 数据电缆 Data 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]
FMD910.01.04	(4×0.14)C	5.5	15	39
FMD910.01.07	(7×0.14)C	6.5	24	54
FMD910.01.08	(8×0.14)C	7	26	64
FMD910.01.14	(14×0.14)C	7.5	41	79
FMD910.01.18	(18×0.14)C	8	51	97
FMD910.01.25	(25×0.14)C	8.5	66	101
FMD910.02.03	(3×0.25)C	5.5	18	41
FMD910.02.04	(4×0.25)C	6	22	45
FMD910.02.05	(5×0.25)C	6	25	50
FMD910.02.07	(7×0.25)C	7	33	65
FMD910.02.08	(8×0.25)C	7	39	72
FMD910.02.14	(14×0.25)C	8	60	103
FMD910.02.18	(18×0.25)C	9	71	122
FMD910.02.25	(25×0.25)C	10.5	97	152
FMD910.03.03	(3×0.34)C	5	25	47
FMD910.03.04	(4×0.34)C	5.5	30	54
FMD910.03.05	(5×0.34)C	6	34	60
FMD910.03.07	(7×0.34)C	6.5	45	84
FMD910.03.14	(14×0.34)C	8	74	126
FMD910.03.18	(18×0.34)C	8.5	91	156

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® Bus cables

FLEXMOV® 总线电缆

FMB610 总线电缆 Bus cables



- PVC 外护套
- 带屏蔽
- 阻燃
- 耐油
- 抗UV
- PVC outer jacket
- Shielded
- Flame resistance
- Oil-resistant
- UV-resistance

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
		滑行 Gliding	2 m/s
	最大加速度 a max.	30 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于20米的滑行应用 Unsupported travels and up to 20 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	符合总线规格标准 According to bus specification.
	芯线结构 Conductor construction	符合总线规格标准 According to bus specification.
	芯线识别 Color code	符合总线规格标准 According to bus specification.
	总屏蔽 Overall shield	高抗弯强度的镀锡铜丝编织屏蔽。线覆盖率55%，光学覆盖率80%。 Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 55 %, optical approx. 80 %
	外护套 Outer jacket	低粘性耐油PVC基混合物，适用于拖链。 颜色：丁香红色 Color: Red lilac RAL 4001 Low-adhesion PVC mixture, adapted to suit the requirements in cable carriers.

FMB610

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电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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 UL2464, 300V, 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]
+5/+15	15	16	17
+15/+60	12.5	13.5	14.5
+60/+70	15	16	17

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

FMB610 总线电缆 Bus 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]
Profibus				
FMB610.001	(2x0.25)C	8.5	25	75
CAN-Bus				
FMB610.020 ^④	(4x0.25)C	7.0	23	64
FMB610.021	(2x0.5)C	8.5	32	82
FMB610.022 ^④	(4x0.5)C	8.5	43	91
CC-Link				
FMB610.035	(3x0.5)C	8.0	40	76
Ethernet/CAT5				
FMB610.040 ^④	(4x0.25)C	6.5	29	69
Ethernet/CAT5e				
FMB610.045	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6				
FMB610.049	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6A				
FMB610.050	4x(2x0.20)C	10.0	65	120
Ethernet/CAT7				
FMB610.052	(4x(2x0.15)C)C	9.5	89	129
FireWireIEEE 1394b				
FMB610.056	(2x(2x0.15)C+2x0.38)C	9.0	59	91
Profinet				
FMB610.060 ^{④⑥}	(4x0.38)C	7.0	33	64
USB3.0				
FMB610.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	39	64

④ 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

⑥ 外护套颜色为黄绿色（与RAL 6018相似） Outer jacket color is yellow-green (similar to RAL 6018)

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

AWG: 美制电线标准American Wire Gauge

FMB610

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产品编码 Part No.	特性波阻抗 Characteristic wave impedance approx. [Ω]	芯线组 Core group	颜色代码 Colour code
Profibus			
FMB610.001	150	(2x0.25)C	红色,绿色red, green
CAN-Bus			
FMB610.020	120	(4x0.25)C	白色,绿色,棕色,黄色(四星式绞合)white, green, brown, yellow (Star-quad)
FMB610.021	120	(2x0.5)C	白色,棕色white,brown
FMB610.022	120	(4x0.5)C	白色,绿色,棕色,黄色(四星式绞合)white, green, brown, yellow (Star-quad)
CC-Link			
FMB610.035	110	(3x0.5)C	白色,蓝色,黄色white, blue, yellow
Ethernet/CAT5			
FMB610.040	100	(4x0.25)C	白色,绿色,棕色,黄色(四星式绞合)white, green, brown, yellow (Star-quad)
Ethernet/CAT5e			
FMB610.045	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6			
FMB610.049	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6A			
FMB610.050	100	4x(2x0.20)C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT7			
FMB610.052	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
FireWireIEEE 1394b			
FMB610.056	110	2x(2x0.15)C	橙色/蓝色,蓝色/红色orange/blue, blue/red
		2x0.38	黑色,白色black,white
Profinet			
FMB610.060	100	(4x0.38)C	白色,橙色,蓝色,黄色(四星式绞合)white, orange, blue, yellow (Star-quad)
USB3.0			
FMB610.068	90	2x(2xAWG28)	红色/黑色,绿色/白色-red/black, green/white-green
		2x(2xAWG28)C	蓝色/黄色,橙色/紫色blue/yellow,orange/purple

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

FMB910 总线电缆 Bus cables



- TPE 外护套
- 带屏蔽
- 阻燃
- 耐油
- 耐水解和微生物
- 抗UV

- TPE outer jacket
- Shielded
- Flame resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- UV-resistance

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	10 x d (FMB910.001-.049和FMB910.060) 12.5 x d (FMB910.050-.055和FMB910.070)
		非拖链内移动 Flexible moving	8 x d
		固定铺设 Fixed installation	5 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +70°C
		非拖链内移动 Flexible moving	-45°C至to +70°C
		固定铺设 Fixed installation	-50°C至to +70°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	

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	符合总线规格标准 According to bus specification.
	芯线结构 Conductor construction	符合总线规格标准 According to bus specification.
	芯线识别 Color code	符合总线规格标准 According to bus specification.
	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：丁香红色 Color: Red lilac RAL 4001

FMB910

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电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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 FMB910.030/FMB910.065/FMB910.066: 符合According to IEC 60332-1-2, FT2
	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 UL21481, 300V, 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]	FMB910.001-.049	FMB910.050-.070	FMB910.001-.049	FMB910.050-.070	FMB910.001-.049	FMB910.050-.070
	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]
-35/-25	12.5	15	13.5	16	14.5	17
-25/+60	10	12.5	11	13.5	12	14.5
+60/+70	12.5	15	13.5	16	14.5	17

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

FMB910 总线电缆 Bus 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]
Profibus				
FMB910.001	(2×0.25)C	9.0	33.0	92.0
FMB910.002	(2×0.25)C+4×1.5	12.5	94.0	191.0
FMB910.003	(2×0.25)C+3G0.75	11.5	55.0	145.0
Interbus				
FMB910.010	(3×(2×0.25))C	9.0	47.0	91.0
FMB910.011	(3×(2×0.25)+(3G1.0)C	10.5	87.0	152.0
CAN-Bus				
FMB910.020 ^④	(4×0.25)C	6.5	28.0	58.0
FMB910.021	(2×0.5)C	8.0	39.0	81.0
FMB910.022 ^④	(4×0.5)C	8.0	43.0	87.0
DeviceNet				
FMB910.030 ^⑤	((2×AWG24)C+2×AWG22)C	7.0	36.0	57.0
FMB910.031 ^⑤	((2×AWG18)C+2×AWG15)C	11.5	103.0	174.0
CC-Link				
FMB910.035	(3×AWG20)C	8.5	43.0	96.0
Ethernet/CAT5				
FMB910.040	(4×0.25)C	7.0	33.0	59.0
Ethernet/CAT5e				
FMB910.045	(4×(2×0.15))C	8.5	42.0	84.0
Ethernet/CAT6				
FMB910.049	(4×(2×0.15))C	8.5	42.0	84.0
Ethernet/CAT6A				
FMB910.050	(4×(2×0.15)C)C	10.5	83.0	134.0
Ethernet/CAT7				
FMB910.052	(4×(2×0.15)C)C	10.5	89.0	133.0
FireWireIEEE 1394a				
FMB910.055	2×(2×0.15)C+2×(0.34)C	8.0	39.0	76.0
Profinet				
FMB910.060 ^{⑥⑥}	(4×0.38)C	7.5	39.0	74.0
USB				
FMB910.065	((2×AWG28)+2×AWG20)C	5.5	28.0	45.0
FMB910.066	((2×AWG24)+2×AWG20)C	6.5	32.0	51.0
DVI				
FMB910.070	(4×(2×AWG28)C+(2×AWG28)+3×AWG28)C	9.0	35.0	95.0

④ 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

⑤ 不带内护套 Without inner jacket

⑥ 外护套颜色为黄绿色（与RAL 6018相似） Outer jacket color is yellow-green (similar to RAL 6018)

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

AWG: 美制电线标准American Wire Gauge

FMB910

FLEXMOV®

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产品编码 Part No.	特性波阻抗 Characteristic wave impedance approx. [Ω]	芯线组 Core group	颜色代码 Colour code
Profibus			
FMB910.001	150	(2x0.25)C	红色,绿色red, green
FMB910.002	150	(2x0.25)C	红色/绿色red/green
		4x1.5	黑色带白色数字 1-4 black with white numbers 1-4
FMB910.003	150	(2x0.25)C	红色/绿色red/green
		3G0.75	黑色,蓝色,绿色-黄色black, blue, green-yellow
Interbus			
FMB910.010	100	3x(2x0.25)	白色/棕色,绿色/黄色,灰色粉色white/brown, green/yellow, grey/pink
FMB910.011	100	3x(2x0.25)	白色/棕色,绿色/黄色,灰色/粉色white/brown, green/yellow, grey/pink
		(3G1.0)	红色,蓝色,绿色-黄色red, blue, green-yellow
CAN-Bus			
FMB910.020	120	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
FMB910.021	120	(2x0.5)C	白色,棕色white, brown
FMB910.022	120	(4x0.5)C	白色,绿色,棕色,黄色(四星式绞合)white, green, brown, yellow (Star-quad)
DeviceNet			
FMB910.030	120	(2xAWG24)C	白色/蓝色white/blue
		2xAWG22	红色,黑色red, black
FMB910.031	120	(2xAWG18)C	白色/蓝色white/blue
		2xAWG15	红色,黑色red, black
CC-Link			
FMB910.035	110	3xAWG20	白色,蓝色,黄色white, blue, yellow
Ethernet/CAT5			
FMB910.040	100	(4x0.25)C	白色,绿色,棕色,黄色 (四是式纹合)white, green, brown, yellow (Star-quad)
Ethernet/CAT5e			
FMB910.045	100	4x(2x0.15)	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6			
FMB910.049	100	4x(2x0.15)	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6A			
FMB910.050	100	4x(2x0.15)C	白色/蓝色,白色/橙色,白色/绿色,白色/棕色 white/blue, white/orange, white/green, white/brown
Ethernet/CAT7			
FMB910.052	100	4x(2x0.15)C	白色/蓝色,白色/橙色,白色/绿色,白色/棕色 white/blue, white/orange, white/green, white/brown
FireWireIEEE 1394a			
FMB910.055	100	2x(2x0.15)C	橙色/蓝色,绿色/红色orange/blue, green/red
		2x(0.34)C	白色,黑色white, black

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

FMB910

FMB910

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产品编码 Part No.	特性波阻抗 Characteristic wave impedance approx. [Ω]	芯线组 Core group	颜色代码 Colour code
Profinet			
FMB910.060	100	4x0.38	白色,橙色,蓝色,黄色(四星式较合)white, orange, blue, yellow (Star-quad)
USB			
FMB910.065	90	(2xAWG28)	白色/绿色white/green
		2xAWG20	红色,黑色red, black
FMB910.066	90	(2xAWG28)	白色/绿色white/green
		2xAWG20	红色,黑色red, black
DVI			
FMB910.070	100	4x(2xAWG28)C	4x 白色/黄色带蓝色,黑色,白色,红色单元护套 4 x white/yellow with element-shield in blue, black, red, white
		(2xAWG28)	白色,棕色white/brown
		3xAWG28	绿色,黄色,灰色green, yellow, grey

FMB911 总线电缆 Bus cables



- PUR 外护套
- 带屏蔽
- 耐冷却剂
- 耐划痕
- 阻燃
- 耐油
- 耐水解和微生物
- 抗UV

- PUR outer jacket
- Shielded
- Coolant-resistant
- Notch-resistant
- Flame resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- UV-resistance

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 +70°C
		非拖链内移动 Flexible moving	-40°C至to +70°C
		固定铺设 Fixed installation	-50°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.	30 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于20米的滑行应用 Unsupported travels and up to 20 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	符合总线规格标准 According to bus specification.
	芯线结构 Conductor construction	符合总线规格标准 According to bus specification.
	芯线识别 Color code	符合总线规格标准 According to bus specification.
	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. 70 %, optical approx. 90 %
	外护套 Outer jacket	低粘性的PUR基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of PUR, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：丁香红色 Color: Red lilac RAL 4001

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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 UL20233, 300V, 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]
-20/-10	15	16	17
-10/+60	12.5	13.5	14.5
+60/+70	15	16	17

FMB911

FLEXMOV®

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FMB911 总线电缆 Bus 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]
Profibus				
FMB911.001	(2x0.25)C	8.5	25	75
CAN-Bus				
FMB911.020 ^④	(4x0.25)C	7.5	23	64
FMB911.021	(2x0.5)C	8.5	32	82
FMB911.022 ^④	(4x0.5)C	8.5	43	91
CC-Link				
FMB911.035	(3x0.5)C	8	40	76
Ethernet/CAT5				
FMB911.040 ^④	(4x0.25)C	6.5	29	69
Single Pair Ethernet				
FMB911.042	(2x0.15)C	5.5	12	33
Ethernet/CAT5e				
FMB911.045	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6				
FMB911.049	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6A				
FMB911.050	4x(2x0.2)C	10	65	120
Ethernet/CAT7				
FMB911.052	(4x(2x0.15)C)C	9.5	89	129
FireWireIEEE 1394b				
FMB911.056	(2x(2x0.15)C+2x0.38)C	9	59	91
Profinet				
FMB911.060 ^{④⑥}	(4x0.38)C	7	33	64
USB3.0				
FMB911.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7	39	64

④ 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

⑥ 外护套颜色为黄绿色（与RAL 6018相似） Outer jacket color is yellow-green (similar to RAL 6018)

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

AWG: 美制电线标准 American Wire Gauge

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产品编码 Part No.	特性波阻抗 Characteristic wave impedance approx. [Ω]	芯线组 Core group	颜色代码 Colour code
Profibus			
FMB911.001	150	(2x0.25)C	红色,绿色red, green
CAN-Bus			
FMB911.020	120	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
FMB911.021	120	(2x0.5)C	白色,棕色white,brown
FMB911.022	120	(4x0.5)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
CC-Link			
FMB911.035	110	(3x0.5)C	白色,蓝色,黄色white, blue, yellow
Ethernet/CAT5			
FMB911.040	100	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
Single Pair Ethernet			
FMB911.042	100	(2x0.15)C	白色/蓝色white/blue
Ethernet/CAT5e			
FMB911.045	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6			
FMB911.049	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6A			
FMB911.050	100	(4x(2x0.2))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT7			
FMB911.052	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
FireWireIEEE 1394b			
FMB911.056	110	2x(2x0.15)C	橙色/蓝色,蓝色/红色orange/blue, blue/red
		2x0.38	黑色,白色black,white
Profinet			
FMB911.060	100	(4x0.38)C	白色,橙色,蓝色,黄色 (四星式统合)white, orange, blue, yellow (Star-quad)
USB3.0			
FMB911.068	90	2x(2xAWG28)	红色/黑色,绿色/白色-绿色red/black, green/white-green
		2x(2xAWG28)C	红色/黑色,绿色/白色-绿色red/black, green/white-green

FMM600 动力电缆 Motor cables



- PVC外护套
- 阻燃
- 抗UV
- 耐油
- PVC outer jacket
- Flame resistance
- UV-resistance
- 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	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	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	截面积Cross-sectional < 10 mm ² : 高抗弯强度的精细裸铜多股线 (符合 EN 60228 标准) Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228).
		截面积Cross-sectional ≥ 10 mm ² : 细铜丝先编织成束然后绞在一起 (符合 EN 60228 标准) Conductor cable consisting of pre-leads(according to DIN EN 60228).
	绝缘材料 Conductor insulation	高机械性能、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.
	芯线结构 Conductor construction	芯线以短节距绕高抗拉中心线绞合在一起 Cores wound with a short pitch length around a high tensile strength centre element.
	芯线识别 Color code	一根为黄绿线, 其余均为黑色芯线带白色数字Black cores with white numbers, one green-yellow core. 芯线Core1: U/L1/C/L+ 芯线Core2: V/L2 芯线Core3: W/L3/D/L- 芯线Core4: 4/N
	外护套 Outer jacket	低粘性、耐油的PVC基混合物, 符合拖链要求 Low adhesion mixture on the basis of PVC, adapted to suit the requirements in cable carriers. 颜色: 黑色 Color: Black RAL 9005

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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, 1000V, 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]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

FMM600

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FMM600 动力电缆 Motor 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]
FMM600.15.04	4G1.5	8	61	104
FMM600.25.04	4G2.5	10	100	166
FMM600.25.05	5G2.5	11	124	203
FMM600.40.04	4G4.0	11.5	163	249
FMM600.40.05	5G4.0	12.5	204	302
FMM600.60.04	4G6.0	13.5	237	343
FMM600.60.05	5G6.0	15	297	410
FMM600.100.04	4G10	16.5	407	548
FMM600.100.05	5G10	19.5	515	684
FMM600.160.04	4G16	20	646	826
FMM600.160.05	5G16	23.5	815	1067
FMM600.250.04	4G25	25	1014	1320
FMM600.350.04	4G35	28.5	1439	1795

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® Motor cables

FLEXMOV® 动力电缆

FMM610 动力电缆 Motor cables



- PVC外护套
- 带屏蔽
- 阻燃
- 抗UV
- 耐油
- PVC outer jacket
- Shielded
- Flame resistance
- UV-resistance
- 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	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	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 400 m for gliding applications	

电缆结构 Cable structure

	导体 Conductor	截面积Cross-sectional < 10 mm ² : 高抗弯强度的精细裸铜多股线 (符合 EN 60228 标准) Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228).	
		截面积Cross-sectional ≥ 10 mm ² : 细铜丝先编织成束然后绞在一起 (符合 EN 60228 标准) Conductor cable consisting of pre-leads (according to DIN EN 60228).	
	绝缘材料 Conductor insulation	高机械性能、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.	
	芯线结构 Conductor construction	芯线以短节距绕高抗拉中心线绞合在一起 Cores wound with a short pitch length around a high tensile strength centre element.	
	芯线识别 Color code	一根为黄绿线, 其余均为黑色芯线带白色数字 Black cores with white numbers, one green-yellow core. 芯线Core1: U/L1/C/L+ 芯线Core2: V/L2 芯线Core3: W/L3/D/L- 芯线Core4: 4/N	
	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	抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 Bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%	
	外护套 Outer jacket	低粘性、耐油的PVC基混合材料, 符合拖链要求 Low adhesion mixture on the basis of PVC, 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: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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 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 UL2570, 1000V, 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]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

FMM610 动力电缆 Motor 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]
FMM610.15.04	(4G1.5)C	10	89	157
FMM610.25.04	(4G2.5)C	11.5	133	221
FMM610.25.05	(5G2.5)C	13	163	271
FMM610.40.04	(4G4.0)C	13	203	300
FMM610.40.05	(5G4.0)C	14.5	258	354
FMM610.60.04	(4G6.0)C	16	288	455
FMM610.60.05	(5G6.0)C	17	356	532
FMM610.100.04	(4G10)C	18.5	468	670
FMM610.100.05	(5G10)C	21.5	609	857
FMM610.160.04	(4G16)C	23	738	1035
FMM610.250.04	(4G25)C	27.5	1153	1586
FMM610.350.04	(4G35)C	31	1592	2104
FMM610.500.04	(4G50)C	36.5	2224	2902
FMM610.700.04	(4G70)C	43	3203	4173

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® Motor cables

FLEXMOV® 动力电缆

FMM900 动力电缆 Motor cables



- TPE外护套
 - 阻燃
 - 抗UV
 - 耐油
 - 抗水解和微生物
- TPE outer jacket
 - Flame resistance
 - UV-resistance
 - Oil-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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-45°C至to +90°C
		固定铺设 Fixed installation	-50°C至to +90°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 and more 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	符合测量系统标准 According to measuring system specification.
	芯线识别 Color code	黄-绿色 yellow-green
	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（符合 EN 50363-10-2 标准） Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, 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: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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 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

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

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

FMM900

FMM900 动力电缆 Motor 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]
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

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

FMM900

FLEXMOV®

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FMM902 动力电缆 Motor cables



- TPE外护套
- 抗UV
- 耐油
- 抗水解和微生物
- 不含PVC和卤素

- TPE outer jacket
- UV-resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- 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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-50°C至to +90°C
		固定铺设 Fixed installation	-55°C至to +90°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 and more 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.
	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：黑色 Color: Black RAL 9005

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 600/1000 V（符合following VDE0298-3）
	测试电压 Test voltage	4000 V（符合following EN50395）

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

FMM902

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 DIN EN 60754
	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

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

FMM902 动力电缆 Motor cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 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

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

FMM903 动力电缆 Motor cables



- TPE外护套
- 阻燃
- 抗UV
- 耐油
- 抗水解和微生物
- TPE outer jacket
- Flame resistance
- UV-resistance
- Oil-resistant
- Resistant to hydrolysis and microbes

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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-45°C至to +90°C
		固定铺设 Fixed installation	-50°C至to +90°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.	80 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	截面积Cross-sectional < 10 mm ² : 高抗弯强度的精细裸铜多股线 (符合 EN 60228 标准) Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228). 截面积Cross-sectional ≥ 10 mm ² : 细铜丝先编织成束然后绞在一起 (符合 EN 60228 标准) Conductor cable consisting of pre-leads (according to DIN EN 60228).	
	绝缘材料 Conductor insulation	高机械性能、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.	
	芯线结构 Conductor construction	芯线以短节距绕高抗拉中心线绞合在一起 Cores wound with a short pitch length around a high tensile strength centre element.	
	芯线识别 Color code	一根为黄绿线, 其余均为黑色芯线带白色数字 Black cores with white numbers, one green-yellow core. 芯线Core1: U/L1/C/L+ 芯线Core2: V/L2 芯线Core3: W/L3/D/L- 芯线Core4: 4/N	
	外护套 Outer jacket	低粘性的TPE基混合物, 特别耐磨损且具有高度的灵活性, 适用于拖链 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色: 黑色 Color: Black RAL 9005	

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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 UL22188, 1000V, 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	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

FMM903

FLEXMOV®

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FMM903 动力电缆 Motor 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]
FMM903.15.04	4G1.5	8	61	102
FMM903.25.04	4G2.5	10	100	159
FMM903.40.04	4G4.0	11.5	163	236
FMM903.60.04	4G6.0	13.5	237	332
FMM903.60.05	5G6.0	15	297	406
FMM903.100.04	4G10	16.5	407	537
FMM903.100.05	5G10	19.5	515	670
FMM903.160.04	4G16	20	646	819
FMM903.160.05	5G16	22.5	815	1009
FMM903.250.04	4G25	24.5	1014	1271

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® Motor cables

FLEXMOV® 动力电缆

FMM907 动力电缆 Motor cables



- TPE外护套
- 抗UV
- 耐油
- 抗水解和微生物
- 不含PVC和卤素
- TPE outer jacket
- UV-resistance
- Oil-resistant
- Resistant to hydrolysis and microbes
- 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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-50°C至to +90°C
		固定铺设 Fixed installation	-55°C至to +90°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.	80 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	截面积Cross-sectional < 10 mm ² : 高抗弯强度的精细裸铜多股线 (符合 EN 60228 标准) Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228).
		截面积Cross-sectional ≥ 10 mm ² : 细铜丝先编织成束然后绞在一起 (符合 EN 60228 标准) Conductor cable consisting of pre-leads(according to DIN EN 60228).
	绝缘材料 Conductor insulation	高机械性能、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.
	芯线结构 Conductor construction	芯线以短节距绕高抗拉中心线绞合在一起 Cores wound with a short pitch length around a high tensile strength centre element.
	芯线识别 Color code	一根为黄绿线, 其余均为黑色芯线带白色数字Black cores with white numbers, one green-yellow core. 芯线Core1: U/L1/C/L+ 芯线Core2: V/L2 芯线Core3: W/L3/D/L- 芯线Core4: 4/N
	外护套 Outer jacket	低粘性的TPE基混合物, 特别耐磨损且具有高度的灵活性, 适用于拖链 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, 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: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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 DIN EN 60754
	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 UL22188, 1000V, 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	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

FMM907

FMM907 动力电缆 Motor 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]
FMM907.15.04	4G1.5	8	61	95
FMM907.25.04	4G2.5	10	100	149
FMM907.40.04	4G4.0	11.5	163	221
FMM907.60.04	4G6.0	13.5	237	317
FMM907.60.05	5G6.0	15	297	387
FMM907.100.04	4G10	16.5	407	503
FMM907.100.05	5G10	19	515	634
FMM907.160.04	4G16	20	646	773
FMM907.160.05	5G16	22.5	815	963
FMM907.250.04	4G25	24	1014	1203

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

FMM907

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FMM912 动力电缆 Motor cables



- TPE外护套
- 带屏蔽
- 抗UV
- 耐油
- 抗水解和微生物
- 不含PVC和卤素

- TPE outer jacket
- Shielded
- UV-resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- 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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-50°C至to +90°C
		固定铺设 Fixed installation	-55°C至to +90°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 and more 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.
	总屏蔽 Overall shield	抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 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：黑色 Color: Black RAL 9005

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 600/1000 V（符合following VDE0298-3）
	测试电压 Test voltage	4000 V（符合following EN50395）

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

FMM912

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 DIN EN 60754
	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

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

FMM902 动力电缆 Motor cables

产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm²]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 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

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

FMM917 动力电缆 Motor cables



- TPE外护套
- 带屏蔽
- 抗UV
- 耐油
- 抗水解和微生物
- 不含PVC和卤素
- TPE outer jacket
- Shielded
- UV-resistance
- Oil-resistant
- Resistant to hydrolysis and microbes
- 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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-50°C至to +90°C
		固定铺设 Fixed installation	-55°C至to +90°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.	80 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	截面积Cross-sectional < 10 mm ² : 高抗弯强度的精细裸铜多股线 (符合 EN 60228 标准) Stranded conductor in especially bending-resistant version consisting of bare copper wires (according to DIN EN 60228).	
		截面积Cross-sectional ≥ 10 mm ² : 细铜丝先编织成束然后绞在一起 (符合 EN 60228 标准) Conductor cable consisting of pre-leads (according to DIN EN 60228).	
	绝缘材料 Conductor insulation	高机械性能、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.	
	芯线结构 Conductor construction	芯线以短节距绕高抗拉中心线绞合在一起 Cores wound with a short pitch length around a high tensile strength centre element.	
	芯线识别 Color code	一根为黄绿线, 其余均为黑色芯线带白色数字 Black cores with white numbers, one green-yellow core. 芯线Core1: U/L1/C/L+ 芯线Core2: V/L2 芯线Core3: W/L3/D/L- 芯线Core4: 4/N	
	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	抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 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, 特别耐磨损且具有高度的灵活性, 适用于拖链 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色: 黑色 Color: Black RAL 9005	

FLEXMOV® Motor cables

FLEXMOV® 动力电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U_0/U : 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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 DIN EN 60754
	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 UL22188, 1000V, 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	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

FMM917

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FMM917 动力电缆 Motor 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]
FMM917.15.04	(4G1.5)C	10	89	140
FMM917.25.04	(4G2.5)C	11.5	133	198
FMM917.40.04	(4G4.0)C	13	203	280
FMM917.60.04	(4G6.0)C	16	288	409
FMM917.100.04	(4G10)C	18.5	468	613
FMM917.160.04	(4G16)C	23	738	943
FMM917.250.04	(4G25)C	27	1153	1432

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® Servo cables

FLEXMOV® 伺服电缆

FMV610 伺服电缆 Servo cables



- PVC 外护套
- 带屏蔽
- 耐油
- 阻燃
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame resistance

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	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、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.
	芯线结构 Conductor construction	动力导线和信号对线以短节距围绕高强度的中心线绞合在一起。 Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.
	芯线识别 Color code	动力导线: 一根为黄-绿芯线, 其余均为黑色芯线带白色数字 Power conductors: Black with white numbers, one conductor green-yellow. 1: U / L1 / C / L+ 2: V / L2 3: W / L3 / D / L- 1 对控制对线Control pair: 黑色芯线带白色数字Black with white numbers, 4/ 5 2 对控制对线Control pairs: 黑色芯线带白色数字Black with white numbers, 5/6/7/8
	单元屏蔽 Element shield	抗弯曲的镀锡铜丝编织。 Bending-resistant braiding made of tinned copper wires.
	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	抗弯曲的镀锡铜丝编织。覆盖线性约70%，光学约90%。 Bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
	外护套 Outer jacket	低粘性、耐油的PVC基混合材料，符合拖链要求 颜色: 苔绿色 Color: Green RAL 6005 Low adhesion mixture on the basis of PVC, adapted to suit the requirements in cable carriers.

电气参数 Electrical Information

	额定电压 Nominal voltage	U_0/U : 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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, 1000V, 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]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

FLEXMOV® Servo cables

FLEXMOV® 伺服电缆

FMV610

FMV610 伺服电缆 Servo 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]
1 对控制对线带屏蔽 Control pair shielded				
FMV610.07.05.02.01	(4G0.75+(2x0.5)C)C	11	76	159
FMV610.15.15.02.01	(4G1.5+(2x1.5)C)C	13	145	256
FMV610.25.15.02.01	(4G2.5+(2x1.5)C)C	14.5	199	330
FMV610.40.15.02.01	(4G4.0+(2x1.5)C)C	16	256	406
FMV610.60.15.02.01	(4G6.0+(2x1.5)C)C	18	343	546
FMV610.100.15.02.01	(4G10+(2x1.5)C)C	21.5	536	828
2 对控制对线带屏蔽 Control pair shielded				
FMV610.07.03.02.02	(4G0.75+2x(2x0.34)C)C	12.5	103	208
FMV610.10.07.02.02	(4G1.0+2x(2x0.75)C)C	13.5	148	269
FMV610.15.07.02.02	(4G1.5+2x(2x0.75)C)C	14.5	167	309
FMV610.25.15.02.02	(4G2.5+2x(2x1.5)C)C	17	254	434
FMV610.40.15.02.02	(4G4.0+2x(2x1.5)C)C	18	308	515
FMV610.60.15.02.02	(4G6.0+2x(2x1.5)C)C	21	412	695
FMV610.100.15.02.02	(4G10+2x(2x1.5)C)C	23	592	925
FMV610.160.15.02.02	(4G16+2x(2x1.5)C)C	26.5	878	1287

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

FMV610

FLEXMOV®

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Tel: 0086 573 84187009

FMV910 伺服电缆 Servo cables



- PUR 外护套
- 带屏蔽
- 耐油和冷却剂
- 阻燃
- 不含PVC和卤素
- 耐划痕
- 抗水解和微生物
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Flame resistance
- 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	10 x d
		非拖链内移动 Flexible moving	8 x d
		固定铺设 Fixed installation	5 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	2 m/s
	最大加速度 a max.	50 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于10米的滑行应用 Unsupported travels and up to 10 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、低电容的XLPE混合物 Mechanically high-quality, especially low-capacitance XLPE mixture.
	芯线结构 Conductor construction	动力导线和信号对线以短节距围绕高强度的中心线绞合在一起。 Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.
	芯线识别 Color code	动力导线: 一根为黄-绿芯线, 其余均为黑色芯线带白色数字 Power conductors: Black with white numbers, one conductor green-yellow. 1: U / L1 / C / L+ 2: V / L2 3: W / L3 / D / L- 1 对控制对线Control pair: 黑色芯线带白色数字Black with white numbers, 4/ 5 2 对控制对线Control pairs: 黑色芯线带白色数字Black with white numbers, 5/6/7/8
	单元屏蔽 Element shield	抗弯曲的镀锡铜丝编织。 Bending-resistant braiding made of tinned copper wires.
	中间层 Intermediate layer	聚合物薄带缠绕在芯线束外 Foil taping over the outer layer.
	总屏蔽 Overall shield	抗弯曲的镀锡铜丝编织。覆盖线性约55%，光学约80%。 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，特别耐磨损适用于拖链（符合 EN 50363-10-2 标准） 颜色：粉橙色 Color: Pink orange RAL 2003 Low-adhesion, highly abrasion resistant PUR mixture, adapted to suit the requirements in cable carriers.

FLEXMOV® Servo cables

FLEXMOV® 伺服电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 600/1000 V (符合following VDE0298-3)
	测试电压 Test voltage	4000 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, 1000V, 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]
-25/-15	12.5	13.5	14.5
-15/+70	10	11	12
+70/+80	12.5	13.5	14.5

FMV910

FLEXMOV®

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FMV910 伺服电缆 Servo 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]
1 对控制对线带屏蔽 Control pair shielded				
FMV910.15.15.02.01	(4G1.5+(2x1.5)C)C	12.5	154	247
FMV910.25.15.02.01	(4G2.5+(2x1.5)C)C	14	210	301
FMV910.40.15.02.01	(4G4.0+(2x1.5)C)C	15	255	392
FMV910.60.15.02.01	(4G6.0+(2x1.5)C)C	16.5	343	491
FMV910.100.15.02.01	(4G10+(2x1.5)C)C	21	526	788
FMV910.160.15.02.01	(4G16+(2x1.5)C)C	24	771	1126
2 对控制对线带屏蔽 Control pair shielded				
FMV910.07.03.02.02	(4G0.75+2x(2x0.34)C)C	12	105	192
FMV910.10.07.02.02	(4G1.0+2x(2x0.75)C)C	13	135	245
FMV910.15.07.02.02	(4G1.5+2x(2x0.75)C)C	13.5	161	280
FMV910.25.15.02.02	(4G2.5+2x(2x1.5)C)C	16	244	384
FMV910.40.15.02.02	(4G4.0+2x(2x1.5)C)C	17	309	477
FMV910.60.15.02.02	(4G6.0+2x(2x1.5)C)C	19	403	600
FMV910.100.15.02.02	(4G10+2x(2x1.5)C)C	22.5	576	887
FMV910.160.15.02.02	(4G16+2x(2x1.5)C)C	26	815	1206
FMV910.250.15.02.02	(4G25+2x(2x1.5)C)C	28.5	1223	1686
不带控制对线 Without control pair				
FMV910.07.04	(4G0.75)C	8	45	95
FMV910.15.04	(4G1.5)C	10	86	140
FMV910.25.04	(4G2.5)C	11.5	146	210
FMV910.40.04	(4G4.0)C	13	195	296
FMV910.60.04	(4G6.0)C	15	289	416
FMV910.100.04	(4G10)C	18	449	644
FMV910.160.04	(4G16)C	22	698	997
FMV910.250.04	(4G25)C	25.5	1045	1384
FMV910.350.04	(4G35)C	33	1520	2111
主轴/单芯电缆 Spindle cable/Single core				
FMV910.60.01	(1x6.0)C	7.5	72	95
FMV910.100.01	(1x10)C	8.5	114	145
FMV910.160.01	(1x16)C	9.5	178	209
FMV910.250.01	(1x25)C	11	269	304
FMV910.350.01	(1x35)C	13	374	419
FMV910.500.01	(1x50)C	15	525	579
FMV910.700.01	(1x70)C	17	751	804

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® Measuring system cables

FLEXMOV® 测量系统电缆

FME911 测量系统电缆 Measuring system cables



- TPE外护套
- 耐油
- 不含PVC
- 无卤素
- 抗水解和微生物

- TPE outer jacket
- Oil-resistant
- PVC-free
- Halogen-free
- 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	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	-35°C至to +90°C
		非拖链内移动 Flexible moving	-50°C至to +90°C
		固定铺设 Fixed installation	-55°C至to +90°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 and more 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	符合测量系统标准 According to measuring system specification.
	芯线识别 Color code	符合测量系统标准 According to measuring system specification.
	单元屏蔽 Element 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 approx. 70 % linear, approx. 90 % optical
	单元护套 Element jacket	TPE混合物包裹带屏蔽的对线，适用于拖链 TPE mixture on pair shielding adapted to suit the requirements in cable carriers.
	内护套 Inner jacket	TPE混合物，适用于拖链 TPE mixture on pair shielding 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，特别耐磨损且具有高度的灵活性，适用于拖链 Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：黄绿色 Color: Yellow-green RAL 6018

电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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	-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 Accorddding 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 UL21481, 300V, 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	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

FLEXMOV® Measuring system cables

FLEXMOV® 测量系统电缆

FME911 测量系统电缆 Measuring system 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]
FME911.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10.0	71.0	119.0
FME911.002	(3x(2x0.14)C+2x(0.5)C)C	10.0	74.0	125.0
FME911.003	(3x(2x0.14)+2x1.0)C	8.0	56.0	86.0
FME911.004	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5))C	11.0	78.0	127.0
FME911.005	(4x(2x0.14)+4x0.5)C	9.0	60.0	97.0
FME911.006	(3x(2x0.14)C+(4x0.14)+(4x0.25)+(2x0.5))C	10.5	85.0	139.0
FME911.007 ^③	(4x0.34)C	6.0	31.0	48.0
FME911.008	(3x(2x0.25))C	7.5	36.0	60.0
FME911.009	(4x(2x0.25)+2x0.5)C	8.5	57.0	91.0
FME911.010	(4x(2x0.25)+2x1.0)C	9.0	68.0	105.0
FME911.011	(4x(2x0.34)+4x0.5)C	10.0	81.0	124.0
FME911.012	(3x(2x0.14)C+(3x0.14)C+(4x0.14)+(2x0.14+2x0.5))C	11.0	89.0	140.0
FME911.013	(3x(2x0.14)C+2x0.5)C	9.0	62.0	104.0
FME911.014	(4x(2x0.25)C+(2x0.5))C	11.0	86.0	138.0
FME911.015	(4x(2x0.14)+4x0.5)C	9.0	60.0	97.0
FME911.016	(3x(2x0.25)C)C	9.5	60.0	108.0
FME911.017 ^③	(4x(2x0.14)+(4x0.14)C+4x1.0)C	10.0	100.0	126.0
FME911.018 ^③	(2x(2x0.25)+2x0.5)C	6.5	41.0	51.0
FME911.019 ^③	(3x(2x0.25)C+(3x0.25)+2x1.0)C	10.0	93.0	120.0
FME911.021	((4x0.25)+3x(2x0.25+2x0.5))C	10.0	88.0	130.0
FME911.022	((2x0.25)+5x0.5)C	7.5	54.0	79.0
FME911.025	(3x(2x0.14)C+(2x0.5)C)C	10.0	72.0	123.0
FME911.027	(5x(2x0.14)+2x0.5)C	8.5	52.0	88.0
FME911.028	(2x(2x0.20)+(2x0.38))C	7.5	44.0	63.0
FME911.029	(5x(2x0.25)C+(2x0.25+2x0.5))C	12.5	119.0	270.0
FME911.031	(2x(2x0.25)C+2x1.0)C	9.5	69.0	116.0
FME911.032 ^③	3x(2x0.14)C+(3x0.14)C	8.0	35.0	71.0
FME911.033 ^③	4x(2x0.14)C+2x(1.0)C	9.5	64.0	104.0
FME911.034	3x(2x0.14)C+(4x0.14)C+2x(2x0.5)C	11.0	71.0	119.0
FME911.035	(4x(2x0.25)C+2x(2x0.5))C	12.0	99.0	154.0
FME911.038	(3x(2x0.14)+(2x0.34))C	8.0	36.0	71.0
FME911.040	(3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C	10.0	88.0	130.0

③) 不带总屏蔽 Without overall shield

④) 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

⑤) 不带内护套 Without inner jacket

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

FME911

FLEXMOV®

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产品编码 Part No.	芯线组 Core group	颜色代码 Colour code
FME911.001	(3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(2x0.5)C	棕色-红色/棕色-蓝色brown-red/brown-blue
FME911.002	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	2x(0.5)C	黑色, 红色black, red
FME911.003	3x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x1.0	蓝色, 红色blue, red
FME911.004	2x(2x(2x0.14))	(棕色/绿色)/(黄色/紫色),(灰色/粉色)/(红色/黑色)(brown/green)/(yellow/violet), (grey/pink)/(red/black)
	(4x0.14)C	黄色-黑色/红色-黑色/绿色-黑色/蓝色-黑色yellow-black/red-black/green-black/blue-black
	(4x0.5)	棕色-绿色/白色-绿色/蓝色/白色brown-green/white-green/blue/white
FME911.005	4x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	4x0.5	黑色, 紫色, 灰色-粉色, 红色-蓝色black, violet, grey-pink, red-blue
FME911.006	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(4x0.25)	棕色-黄色/棕色-灰色/绿色-黑色/绿色-红色yellow-brown/grey-brown/green-black/green-red
	(2x0.5)	棕色-红色/棕色-蓝色brown-red/brown-blue
FME911.007	(4x0.34)C	白色, 绿色, 棕色, 黄色 (四星式绞合) white, green, brown, yellow (Star-quad)
FME911.008	(3x(2x0.25))C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
FME911.009	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x0.5	白色, 棕色white, brown
FME911.010	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x1.0	白色, 棕色white, brown
FME911.011	4x(2x0.34)	黑色/棕色, 红色/橙色, 绿色/黄色, 蓝色/紫色black/brown, red/orange, green/yellow, blue/violet
	4x0.5	黑色-白色, 红色-白色, 黄色-白色, 蓝色-白色black-white, red-white, yellow-white, blue-white
FME911.012	3x(2x0.14)C	绿色/黄色, 白色/灰色, 蓝色/红色green/yellow, white/grey, blue/red
	(3x0.14)C	红色/绿色/棕色red/green/brown
	(4x0.14)	灰色/黄色/粉色/紫色grey/yellow/pink/violet
FME911.013	(2x0.14+2x0.5)	蓝色/棕色-蓝色/灰色/棕色-红色blue/brown-blue/grey/brown-red
	3x(2x0.14)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x0.5	蓝色, 红色blue, red
FME911.014	4x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	(2x0.5)	黑色带数字1/黑色带数字2black no. 1/black no. 2
FME911.015	4x(2x0.14)	棕色/绿色, 黄色/紫色, 灰色/粉色, 红色/黑色brown/green, yellow/violet, grey/pink, red/black
	4x0.5	蓝色, 白色, 棕色-绿色, 白色-绿色blue, white, brown-green, white-green
FME911.016	(3x(2x0.25)C)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
FME911.017	4x(2x0.14)	红色/黑色, 棕色/绿色, 黄色/紫色, 灰色/粉色red/black, brown/green, yellow/violet, grey/pink
	(4x0.14)C	蓝色-黑色/黄色-黑色/红色-黑色/绿色-黑色blue-black/yellow-black/red-black/green-black
	4x1.0	白色-绿色, 棕色-绿色, 蓝色, 白色white-green, brown-green, blue, white
FME911.018	2x(2x0.25)	红色/黑色, 灰色/粉色red/black, grey/pink
	2x0.5	白色, 棕色white, brown
FME911.019	3x(2x0.25)C	棕色/绿色, 灰色/粉色, 红色/黑色brown/green, grey/pink, red/black
	(3x0.25)	蓝色/紫色/黄色blue/violet/yellow
	2x1.0	白色, 棕色white, brown

FLEXMOV® Measuring system cables

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FME911

FME911

FLEXMOV®

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产品编码 Part No.	芯线组 Core group	颜色代码 Colour code
FME911.021	(4x0.25)	白色/棕色/灰色/黑色 white/brown/grey/black
	3x2x0.25	白色, 黄色, 白色, 灰色, 黑色, 橙色 white/yellow, white/grey, black/orange
	(2x0.5)	黑色带数字1, 黑色带数字2, 黑色带数字3, 黑色带数字4, 黑色带数字5, 黑色带数字6 black no. 1/black no. 2, black no. 3/black no. 4, black no. 5/black no. 6
FME911.022	(2x0.25)	白色/棕色 white/brown
	5x0.5	绿色, 黄色, 灰色, 粉色, 蓝色 green, yellow, grey, pink, blue
FME911.025	3x(2x0.14)C	绿色/黄色, 蓝色/红色, 灰色/粉色 green/yellow, blue/red, grey/pink
	(2x0.5)	白色/棕色 white/brown
FME911.027	5x(2x0.14)	棕色/绿色, 黄色/灰色, 白色/紫色, 红色-黑色, 粉色/蓝色 brown/green, yellow/grey, white/violet, red/black, pink/blue
	2x0.5	白色-绿色, 白色-红色 white-green, white-red
FME911.028	2x(2x0.20)	绿色/黄色, 粉色/蓝色 green/yellow, pink/blue
	(2x0.38)	红色/黑色 red/black
FME911.029	5x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色 white/brown, green/yellow, grey/pink, blue/red, black/violet
	(2x0.25+2x0.5)	灰色-粉色/棕色-绿色/白色-绿色/红色-蓝色 gray-pink/brown-green/white-green/red-blue
FME911.031	2x(2x0.25)C	白色/棕色, 绿色/黄色 white/brown, green/yellow
	2x1.0	黑色带数字1/黑色带数字2 black no. 1, black no. 2
FME911.032	3x(2x0.14)C	绿色/黑色, 黄色/黑色, 红色/黑色 green/black, yellow/black, red/black
	(3x0.14)C	灰色/粉色/黑色 grey/pink/black
FME911.033	4x(2x0.14)C	黄色/黑色, 红色/黑色, 蓝色/黑色, 绿色/黑色 yellow/black, red/black, blue/black, green/black
	2x(1.0)C	白色, 棕色 white, brown
FME911.034	3x(2x0.14)C	绿色/黑色, 紫色/黑色, 蓝色/黑色 green/black, violet/black, blue/black
	(4x0.14)C	红色/黄色/黑色-红色/黑色-黄色 red/yellow/black-red/black-yellow
FME911.035	2x(2x0.5)C	黑色/白色, 黑色/棕色 black/white, black/brown
	4x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色 white/brown, green/yellow, grey/pink, blue/red
FME911.038	2x(2x0.5)	黑色带数字1/黑色带数字2, 黑色带数字3/黑色带数字4 black no. 1/black no. 2, black no. 3/black no. 4
	3x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色 white/brown, green/yellow, grey/pink
FME911.040	(2x0.34)	蓝色/红色 blue/red
	3x(4x0.14)	黑色/红色/白色-黑色/白色-红色, 绿色/蓝色/白色-绿色/白色-蓝色, 黄色/棕色/白色-黄色/白色-棕色 black/red/white-black/white-red, green/blue/white-green/white-blue yellow/brown/white-yellow/white-brown
FME911.040	(2x0.14+2x0.34)	紫色/橙色/白色-紫色/白色-橙色 violet/orange/white-violet/white-orange
	2x1.5	白色-灰色, 灰色 white-grey, grey

FME913 测量系统电缆 Measuring system cables



- PUR外护套
- 耐油和冷却剂
- 不含PVC和卤素
- 带屏蔽
- 阻燃
- 耐划痕
- 抗水解和微生物
- PUR outer jacket
- Oil-resistant and coolant-resistant
- PVC and halogen-free
- Shielded
- Flame-retardant
- 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	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	-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.	50 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	符合测量系统标准 According to measuring system specification.
	芯线识别 Color code	符合测量系统标准 According to measuring system specification.
	单元屏蔽 Element 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 approx. 70 % linear, approx. 90 % optical
	单元护套 Element jacket	TPE混合物包裹带屏蔽的对线，适用于拖链 TPE mixture on pair shielding adapted to suit the requirements in cable carriers.
	内护套 Inner jacket	TPE混合物，适用于拖链 TPE mixture on pair shielding 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PUR基混合物，特别耐磨损且具有高度的灵活性，适用于拖链 Low-adhesion mixture on the basis of PUR, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：黄绿色 Color: Yellow-green RAL 6018

FLEXMOV® Measuring system cables

FLEXMOV® 测量系统电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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 UL20233, 300V, 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]
-25/-15	10	11	12
-15/+70	7.5	8.5	9.5
+70/+80	10	11	12

FME913

FLEXMOV®

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FME913 测量系统电缆 Measuring system 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]
FME913.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10	71	137
FME913.002	(3x(2x0.14)C+2x(0.5)C)C	10	74	144
FME913.003	(3x(2x0.14)+2x1.0)C	8	56	103
FME913.004	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5))C	11	78	152
FME913.005	(4x(2x0.14)+4x0.5)C	9	60	115
FME913.006	(3x(2x0.14)C+(4x0.14)+(4x0.25)+(2x0.5))C	11	85	158
FME913.007 ^③	(4x0.34)C	6.5	31	54
FME913.008	(3x(2x0.25))C	7.5	36	76
FME913.009	(4x(2x0.25)+2x0.5)C	8.5	57	99
FME913.010	(4x(2x0.25)+2x1.0)C	9	68	122
FME913.011	(4x(2x0.34)+4x0.5)C	10	81	142
FME913.013	(3x(2x0.14)C+2x0.5)C	9	62	121
FME913.014	(4x(2x0.25)C+(2x0.5))C	11	86	163
FME913.015	(4x(2x0.14)+4x0.5)C	9	60	114
FME913.016	(3x(2x0.25)C)C	10	60	126
FME913.017 ^③	(4x(2x0.14)+(4x0.14)C+4x1.0)C	10	100	150
FME913.018 ^③	(2x(2x0.25)+2x0.5)C	6.5	41	65
FME913.019 ^③	(3x(2x0.25)C+(3x0.25)+2x1.0)C	10	93	143
FME913.022	((2x0.25)+5x0.5)C	8	54	94
FME913.025	(3x(2x0.14)C+(2x0.5)C)C	10	72	141
FME913.027	(5x(2x0.14)+2x0.5)C	9	52	105
FME913.028 ^③	(2x(2x0.20)+(2x0.38))C	7.5	44	69
FME913.029	(5x(2x0.25)C+(2x0.25+2x0.5))C	12	105	192
FME913.032 ^③	3x(2x0.14)C+(3x0.14)C	8.5	35	82
FME913.033 ^③	4x(2x0.14)C+2x(1.0)C	9.5	64	111
FME913.036	(5x(2x0.25))C	8.5	51	103
FME913.037	(6x(2x0.25))C	9	58	114
FME913.038	(3x(2x0.14)+(2x0.34))C	8.5	36	87
FME913.040	(3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C	10	88	155

③) 不带总屏蔽 Without overall shield

④) 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

⑤) 不带内护套 Without inner jacket

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® Measuring system cables

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FME913

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产品编码 Part No.	芯线组 Core group	颜色代码 Colour code
FME913.001	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(2x0.5)	棕色-红色/棕色-蓝色brown-red/brown-blue
FME913.002	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	2x(0.5)C	黑色, 红色black, red
FME913.003	3x(2x0.14)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x1.0	蓝色, 红色blue, red
FME913.004	2x(2x(2x0.14)	(棕色/绿色)/(黄色/紫色), (灰色/粉色)/(红色/黑色)(brown/green)/(yellow/violet), (grey/pink)/(red/black)
	(4x0.14)C	黄色-黑色/红色-黑色/绿色-黑色/蓝色-黑色yellow-black/red-black/green-black/blue-black
	(4x0.5)	棕色-绿色/白色-绿色/蓝色/白色brown-green/white-green/blue/white
FME913.005	4x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	4x0.5	黑色, 紫色, 灰色-粉色, 红色-蓝色black, violet, grey-pink, red-blue
FME913.006	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(4x0.25)	黄色-棕色/灰色-棕色/绿色-黑色/绿色-红色yellow-brown/grey-brown/green-black/green-red
	(2x0.5)	棕色-红色/棕色-蓝色brown-red/brown-blue
FME913.007	4x0.34	白色, 绿色, 棕色, 黄色 (四星式绞合) white, green, brown, yellow (Star-quad)
FME913.008	3x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
FME913.009	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x0.5	白色, 棕色white, brown
FME913.010	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x1.0	白色, 棕色white, brown
FME913.011	4x(2x0.34)	黑色/棕色, 红色/橙色, 绿色/黄色, 蓝色/紫色black/brown, red/orange, green/yellow, blue/violet
	4x0.5	黑色-白色, 红色-白色, 黄色-白色, 蓝色-白色black-white, red-white, yellow-white, blue-white
FME913.013	3x(2x0.14)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x0.5	蓝色, 红色blue, red
FME913.014	4x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	(2x0.5)	黑色no. 1/黑色no. 2 black no. 1/black no. 2
FME913.015	4x(2x0.14)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	4x0.5	蓝色, 白色, 棕色-绿色, 白色-绿色blue, white, brown-green, white-green
FME913.016	3x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	4x(2x0.14)	红色/黑色, 棕色/绿色, 黄色/紫色, 灰色/粉色red/black, brown/green, yellow/violet, grey/pink
FME913.017	(4x0.14)C	蓝色-黑色/黄色-黑色/红色-黑色/绿色-黑色blue-black/yellow-black/red-black/green-black
	4x1.0	白色-绿色, 棕色-绿色, 蓝色, 白色white-green, brown-green, blue, white
	2x(2x0.25)	红色/黑色, 灰色/粉色red/black, grey/pink
FME913.018	2x0.5	白色, 棕色white, brown
	3x(2x0.25)C	棕色/绿色, 灰色/粉色, 红色/黑色brown/green, grey/pink, red/black
	(3x0.25)	蓝色/紫色/黄色blue/violet/yellow
FME913.022	2x1.0	白色, 棕色white, brown
	(2x0.25)	白色, 棕色white, brown
	5x0.5	绿色, 黄色, 灰色, 粉色, 蓝色green, yellow, grey, pink, blue
FME913.025	3x(2x0.14)C	绿色/黄色, 蓝色/红色, 灰色/粉色green/yellow, blue/red, grey/pink
	(2x0.5)C	白色, 棕色white, brown

产品编码 Part No.	芯线组 Core group	颜色代码 Colour code
FME913.027	5x(2x0.14)	棕色/绿色, 黄色/灰色, 白色/紫色, 红色-黑色, 粉色/蓝色 brown/green, yellow/grey, white/violet, red/black, pink/blue
	2x0.5	白色-绿色, 白色-红色white-green, white-red
FME913.028	2x(2x0.20)	绿色/黄色, 粉色/蓝色green/yellow, pink/blue
	(2x0.38)	红色/黑色red/black
FME913.029	5x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色 white/brown, green/yellow, grey/pink, blue/red, black/violet
	(2x0.25+2x0.5)	灰色-粉色/棕色-绿色/白色-绿色/红色-蓝色gray-pink/brown-green/white-green/red-blue
FME913.032	3x(2x0.14)C	绿色/黑色, 黄色/黑色, 红色/黑色green/black, yellow/black, red/black
	(3x0.14)C	灰色/粉色/黑色grey/pink/black
FME913.033	4x(2x0.14)C	黄色/黑色, 红色/黑色, 蓝色/黑色, 绿色/黑色yellow/black, red/black, blue/black, green/black
	2x(1.0)C	白色, 棕色white, brown
FME913.036	5x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色 white/brown, green/yellow, grey/pink, blue/red, black/violet
FME913.037	6x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色, 灰色-粉色/红色-蓝色 white/brown, green/yellow, grey/pink, blue/red, black/violet, grey-pink/red-blue
FME913.038	3x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	(2x0.34)	蓝色/红色blue/red
FME913.040	3x(4x0.14)	黑色/红色/白色-黑色/白色-红色, 绿色/蓝色/白色-绿色/白色-蓝色, 黄色/棕色/白色-黄色/白色-棕色 black/red/white-black/white-red, green/blue/white-green/white-blue, yellow/brown/white-yellow/white-brown
	(2x0.14+2x0.34)	紫色/橙色/白色-紫色/白色-橙色violet/orange/white-violet/white-orange
	2x1.5	白色-灰色, 灰色white-grey, grey

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