

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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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