

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	

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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 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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产品编码 Part No.	芯数及截面积 Number of cores and conductor nominal cross-section [mm]	外径 Outer diameter [mm]	铜含量 Copper index [kg/km]	重量 Weight [kg/km]
FMC603.02.03	3×0.25	5	9	26
FMC603.02.04	4×0.25	5.5	11	35
FMC603.02.06	6×0.25	6	16	48
FMC603.02.07	7×0.25	6.5	19	56
FMC603.02.12	12×0.25	8.5	33	96
FMC603.02.18	18×0.25	10	46	123
FMC603.02.20	20×0.25	10.5	51	145
FMC603.02.25	25×0.25	11.5	66	164
FMC603.02.30	30×0.25	12.5	75	188
FMC603.03.02	2×0.34	5	8	27
FMC603.03.05	5×0.34	6	18	42
FMC603.05.02	2×0.5	5.5	11	38
FMC603.05.03	3G0.5	5.5	16	40
FMC603.05.04	4G0.5	6	21	47
FMC603.05.05	5G0.5	6.5	26	56
FMC603.05.07	7G0.5	7.5	37	76
FMC603.05.12	12G0.5	10	63	140
FMC603.05.18	18G0.5	12	94	192
FMC603.05.25	25G0.5	13.5	129	259
FMC603.07.02	2×0.75	6	16	48
FMC603.07.03	3G0.75	6	23	50
FMC603.07.04	4G0.75	6.5	31	60
FMC603.07.05	5G0.75	7	38	70
FMC603.07.07	7G0.75	8	54	96
FMC603.07.12	12G0.75	11	91	175
FMC603.07.18	18G0.75	13.5	134	248
FMC603.07.25	25G0.75	16	186	346
FMC603.07.36	36G0.75	19	293	531
FMC603.07.42	42G0.75	21	341	608
FMC603.10.02	2×1.0	6	21	55
FMC603.10.03	3G1.0	6.5	31	61
FMC603.10.04	4G1.0	7	41	74
FMC603.10.05	5G1.0	7.5	50	87
FMC603.10.07	7G1.0	9	71	118
FMC603.10.12	12G1.0	12.5	120	228

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FMC603.10.18	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