

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
	外护套 Outer jacket	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
		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

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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

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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]
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