

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

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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]
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