

FMV917 伺服电缆 Servo cables



- PUR 外护套
- 用于机器人与扭转应用
- 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
- For robot and torsion applications
- Shielded
- Oil-resistant and coolant-resistant
- Flame resistance
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant

移动参数 Dynamic Information

	弯曲半径 Bending radius	三维拖链内扭转 Flexible twisted	10 x d
		固定铺设 Fixed installation	5x d
	使用温度范围 Temperature	三维拖链内扭转 Flexible twisted	-25°C至to +80°C
		固定铺设 Fixed installation	-55°C至to +80°C
	最大速度 v max.	三维拖链内扭转 Flexible twisted	180°/s
	最大加速度 a max.	三维拖链内扭转 Flexible twisted	60°/s
	行程距离 Travel distance	适用于机器人和三维运动 Robots and multi-axis movements	
	扭转 Torsion	每1米电缆长度可扭转±180° Torsion ±180°, with 1m cable length	

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, especially low-capacitance XLPE mixture.
	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. 2 对控制对线Control pair: 黑色芯线带白色数字Black with white numbers 1.控制芯线Control core: 5 2.控制芯线Control core: 6 3.控制芯线Control core: 7 4.控制芯线Control core: 8 4 对控制对线Control pairs: 颜色代码符合DIN 47100标准Colour code in accordance with DIN 47100
	总屏蔽 Overall shield	高抗扭强度的镀锡铜丝缠绕屏蔽, 光学覆盖率85% High torsion strength tinned copper wire braided shield, Cover approx. 85% optical
	外护套 Outer jacket	低粘性, 不含卤素 PUR 基混合物, 特别耐磨损适用于拖链。 Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted to suit the requirements in cable carriers. 颜色: 深蓝色 Color: Steel blue RAL 5011

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	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)
 阻燃 Flame resistance	符合According to IEC 60332-1-2、VW-1、FT1
 无卤素 Halogen-free	符合Following IEC60754
 不含PFAS PFAS-free	使用不含PFAS的材料, 符合REACH指令及其对化学物质生产和加工的相关规定 Use PFAS-free materials that comply with the REACH regulation and its provisions regarding the production and processing of chemical substances.
 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, 80°C, 1000V

质保使用寿命 Guaranteed service life

双循环次数 Cycles	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]	最大扭转角度 Torsion max. [°/m]	最大扭转角度 Torsion max. [°/m]	最大扭转角度 Torsion max. [°/m]
-25/-15	±150	±90	±30
-15/+70	±180	±120	±60
+70/+80	±150	±90	±30

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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]
2 对控制对线 Control pair				
FMV917.07.03.02.02	(4G0.75+2x(2x0.34)C)C	11.5	88	155
FMV917.15.15.02.02	(4G1.5+2x(2x1.5)C)C	16.5	197	304
FMV917.25.15.02.02	(4G2.5+2x(2x1.5)C)C	16.5	243	349
4 对控制对线 Control pair				
FMV917.40.02.02.04	(4G4.0+4x(2x0.25)C)C	17.0	253	366
不带控制对线 Without control pair				
FMV917.15.03	(3G1.5)C	8.5	61	98
FMV917.15.04	(4G1.5)C	9.5	77	120
FMV917.25.03	(3G2.5)C	10.0	93	142
FMV917.25.04	(4G2.5)C	11.0	119	173
FMV917.60.04	(4G6.0)C	15.0	278	374

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