

FLEXMOV® Data cables

FLEXMOV® 数据电缆

FMD611 数据电缆 Data cables



- PVC外护套
- 带屏蔽
- 耐油
- 阻燃
- 低成本
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame resistance
- Low cost

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	5 m/s
		滑行 Gliding	3 m/s
	最大加速度 a max.	50 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	高柔性设计的精细裸铜多股线 Fine bare copper stranded wires with high flexibility design
	绝缘材料 Conductor insulation	高机械性能TPE混合物 Mechanically high-quality TPE compound.
	芯线结构 Conductor construction	每两根芯线以短节距对绞，再将所有对线以短节距围绕高强度中芯线绞合在一起 Cores twisted in pairs with a short pitch length, core pairs then wound with short pitch lengths.
	芯线识别 Color code	颜色代码符合 DIN 47100 标准 Colour code following DIN 47100
	中间层 Intermediate layer	聚合物薄带缠绕在芯线束外 Foil taping over the outer layer.
	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 flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
	外护套 Outer jacket	低粘性、耐油的PVC基混合材料，符合拖链要求 颜色：灰色 Color: Grey RAL 7001 Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in cable carriers.

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电气参数 Electrical Information

	额定电压 Nominal voltage	U ₀ /U: 300/300 V (符合following VDE0298-3)
	测试电压 Test voltage	1500 V (符合following EN50395)

特性和认证 Properties and approvals

	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 UL2464, 300V, 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]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	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]
FMD611.02.01.02	(2×0.25)C	5.0	18.0	33.0
FMD611.02.02.02 ^{④)}	(2x(2x0.25))C	6.5	25.0	51.0
FMD611.02.03.02	(3x(2x0.25))C	7.0	36.0	63.0
FMD611.02.04.02	(4x(2x0.25))C	7.5	44.0	76.0
FMD611.02.05.02	(5x(2x0.25))C	8.5	52.0	92.0
FMD611.02.06.02	(6x(2x0.25))C	9.0	62.0	105.0
FMD611.02.08.02	(8x(2x0.25))C	10.5	78.0	137.0
FMD611.02.10.02	(10x(2x0.25))C	12.0	90.0	170.0
FMD611.02.14.02	(14x(2x0.25))C	12.0	119.0	204.0
FMD611.03.03.02	(3x(2x0.34))C	8.0	44.0	86.0
FMD611.03.08.02	(8x(2x0.34))C	12.0	102.0	206.0
FMD611.05.01.02	(2×0.5)C	6.0	25.0	51.0
FMD611.05.02.02 ^{④)}	(2x(2x0.5))C	7.0	46.0	90.0
FMD611.05.03.02	(3x(2x0.5))C	9.0	61.0	109.0
FMD611.05.04.02	(4x(2x0.5))C	9.5	74.0	125.0
FMD611.05.05.02	(5x(2x0.5))C	11.0	91.0	153.0
FMD611.05.06.02	(6x(2x0.5))C	11.5	103.0	189.0
FMD611.05.08.02	(8x(2x0.5))C	13.0	137.0	234.0
FMD611.05.10.02	(10x(2x0.5))C	15.5	181.0	326.0
FMD611.05.14.02	(14x(2x0.5))C	16.0	193.0	341.0

④) 标有④的电缆为四星绞合式设计 Cables marked with ④ are four-star twisted design.

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

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