

FMB911 总线电缆 Bus cables



- PUR 外护套
- 带屏蔽
- 耐冷却剂
- 耐划痕
- 阻燃
- 耐油
- 耐水解和微生物
- 抗UV

- PUR outer jacket
- Shielded
- Coolant-resistant
- Notch-resistant
- Flame resistance
- Oil-resistant
- Hydrolysis and microbe-resistant
- UV-resistance

移动参数 Dynamic Information

	最小弯曲半径 Min. bending radius	拖链内移动 Moving in cable carriers	12.5 x d
		非拖链内移动 Flexible moving	10 x d
		固定铺设 Fixed installation	7 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-20°C至to +70°C
		非拖链内移动 Flexible moving	-40°C至to +70°C
		固定铺设 Fixed installation	-50°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.	30 m/s ²	
	行程距离 Travel distance	架空应用和行程距离小于20米的滑行应用 Unsupported travels and up to 20 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 EN 60228).
	绝缘材料 Conductor insulation	符合总线规格标准 According to bus specification.
	芯线结构 Conductor construction	符合总线规格标准 According to bus specification.
	芯线识别 Color code	符合总线规格标准 According to bus specification.
	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. 70 %, optical approx. 90 %
	外护套 Outer jacket	低粘性的PUR基混合物，高度耐磨、柔性，符合拖链要求。 Low-adhesion mixture on the basis of PUR, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：丁香红色 Color: Red lilac RAL 4001

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

电气参数 Electrical Information

	额定电压 Nominal voltage	50 V (符合following VDE0298-3)
	测试电压 Test voltage	500 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 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 UL20233, 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]
-20/-10	15	16	17
-10/+60	12.5	13.5	14.5
+60/+70	15	16	17

FMB911

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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]
Profibus				
FMB911.001	(2x0.25)C	8.5	25	75
CAN-Bus				
FMB911.020 ^④	(4x0.25)C	7.5	23	64
FMB911.021	(2x0.5)C	8.5	32	82
FMB911.022 ^④	(4x0.5)C	8.5	43	91
CC-Link				
FMB911.035	(3x0.5)C	8	40	76
Ethernet/CAT5				
FMB911.040 ^④	(4x0.25)C	6.5	29	69
Single Pair Ethernet				
FMB911.042	(2x0.15)C	5.5	12	33
Ethernet/CAT5e				
FMB911.045	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6				
FMB911.049	(4x(2x0.15))C	7.5	33	66
Ethernet/CAT6A				
FMB911.050	4x(2x0.2)C	10	65	120
Ethernet/CAT7				
FMB911.052	(4x(2x0.15)C)C	9.5	89	129
FireWireIEEE 1394b				
FMB911.056	(2x(2x0.15)C+2x0.38)C	9	59	91
Profinet				
FMB911.060 ^{④⑥}	(4x0.38)C	7	33	64
USB3.0				
FMB911.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7	39	64

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

⑥ 外护套颜色为黄绿色（与RAL 6018相似） Outer jacket color is yellow-green (similar to RAL 6018)

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

AWG: 美制电线标准American Wire Gauge

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产品编码 Part No.	特性波阻抗 Characteristic wave impedance approx. [Ω]	芯线组 Core group	颜色代码 Colour code
Profibus			
FMB911.001	150	(2x0.25)C	红色,绿色red, green
CAN-Bus			
FMB911.020	120	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
FMB911.021	120	(2x0.5)C	白色,棕色white,brown
FMB911.022	120	(4x0.5)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
CC-Link			
FMB911.035	110	(3x0.5)C	白色,蓝色,黄色white, blue, yellow
Ethernet/CAT5			
FMB911.040	100	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
Single Pair Ethernet			
FMB911.042	100	(2x0.15)C	白色/蓝色white/blue
Ethernet/CAT5e			
FMB911.045	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6			
FMB911.049	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT6A			
FMB911.050	100	(4x(2x0.2))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Ethernet/CAT7			
FMB911.052	100	(4x(2x0.15))C	白色-蓝色/蓝色,白色-橙色/橙色,白色-绿色/绿色,白色-棕色/棕色 white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
FireWireIEEE 1394b			
FMB911.056	110	2x(2x0.15)C	橙色/蓝色,蓝色/红色orange/blue, blue/red
		2x0.38	黑色,白色black,white
Profinet			
FMB911.060	100	(4x0.38)C	白色,橙色,蓝色,黄色 (四星式统合)white, orange, blue, yellow (Star-quad)
USB3.0			
FMB911.068	90	2x(2xAWG28)	红色/黑色,绿色/白色-绿色red/black, green/white-green
		2x(2xAWG28)C	红色/黑色,绿色/白色-绿色red/black, green/white-green