

FLEXMOV® Bus cables

FLEXMOV® 总线电缆

FMB910 总线电缆 Bus cables



- TPE 外护套
- 带屏蔽
- 阻燃
- 耐油
- 耐水解和微生物
- 抗UV

- TPE outer jacket
- Shielded
- 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	10 x d (FMB910.001-.049和FMB910.060) 12.5 x d (FMB910.050-.055和FMB910.070)
		非拖链内移动 Flexible moving	8 x d
		固定铺设 Fixed installation	5 x d
	使用温度范围 Temperature	拖链内移动 Moving in cable carriers	-35°C至to +70°C
		非拖链内移动 Flexible moving	-45°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	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长达400米及以上的滑行应用 Unsupported travel distances and for gliding applications up to 400 m and more	

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.
	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70%，光学约90%。 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：丁香红色 Color: Red lilac RAL 4001

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 FMB910.030/FMB910.065/FMB910.066: 符合According to IEC 60332-1-2, FT2
	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 UL21481, 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]	FMB910.001-.049	FMB910.050-.070	FMB910.001-.049	FMB910.050-.070	FMB910.001-.049	FMB910.050-.070
	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]
-35/-25	12.5	15	13.5	16	14.5	17
-25/+60	10	12.5	11	13.5	12	14.5
+60/+70	12.5	15	13.5	16	14.5	17

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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				
FMB910.001	(2×0.25)C	9.0	33.0	92.0
FMB910.002	(2×0.25)C+4×1.5	12.5	94.0	191.0
FMB910.003	(2×0.25)C+3G0.75	11.5	55.0	145.0
Interbus				
FMB910.010	(3×(2×0.25))C	9.0	47.0	91.0
FMB910.011	(3×(2×0.25)+(3G1.0)C	10.5	87.0	152.0
CAN-Bus				
FMB910.020 ^④	(4×0.25)C	6.5	28.0	58.0
FMB910.021	(2×0.5)C	8.0	39.0	81.0
FMB910.022 ^④	(4×0.5)C	8.0	43.0	87.0
DeviceNet				
FMB910.030 ^④	((2×AWG24)C+2×AWG22)C	7.0	36.0	57.0
FMB910.031 ^④	((2×AWG18)C+2×AWG15)C	11.5	103.0	174.0
CC-Link				
FMB910.035	(3×AWG20)C	8.5	43.0	96.0
Ethernet/CAT5				
FMB910.040	(4×0.25)C	7.0	33.0	59.0
Ethernet/CAT5e				
FMB910.045	(4×(2×0.15))C	8.5	42.0	84.0
Ethernet/CAT6				
FMB910.049	(4×(2×0.15))C	8.5	42.0	84.0
Ethernet/CAT6A				
FMB910.050	(4×(2×0.15)C)C	10.5	83.0	134.0
Ethernet/CAT7				
FMB910.052	(4×(2×0.15)C)C	10.5	89.0	133.0
FireWireIEEE 1394a				
FMB910.055	2×(2×0.15)C+2×(0.34)C	8.0	39.0	76.0
Profinet				
FMB910.060	(4×0.38)C	7.5	39.0	74.0
USB				
FMB910.065	((2×AWG28)+2×AWG20)C	5.5	28.0	45.0
FMB910.066	((2×AWG24)+2×AWG20)C	6.5	32.0	51.0
DVI				
FMB910.070	(4×(2×AWG28)C+(2×AWG28)+3×AWG28)C	9.0	35.0	95.0

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

⑤ 不带内护套 Without inner jacket

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

FMB910

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www.csb-ep.com
sales@csb-ep.com

电话: 0573 84186133/84185527
Tel: 0086 573 84187009

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			
FMB910.001	150	(2x0.25)C	红色,绿色red, green
FMB910.002	150	(2x0.25)C	红色/绿色red/green
		4x1.5	黑色带白色数字 1-4 black with white numbers 1-4
FMB910.003	150	(2x0.25)C	红色/绿色red/green
		3G0.75	黑色,蓝色,绿色-黄色black, blue, green-yellow
Interbus			
FMB910.010	100	3x(2x0.25)	白色/棕色,绿色/黄色,灰色粉色white/brown, green/yellow, grey/pink
FMB910.011	100	3x(2x0.25)	白色/棕色,绿色/黄色,灰色/粉色white/brown, green/yellow, grey/pink
		(3G1.0)	红色,蓝色,绿色-黄色red, blue, green-yellow
CAN-Bus			
FMB910.020	120	(4x0.25)C	白色,绿色,棕色,黄色 (四星式统合)white, green, brown, yellow (Star-quad)
FMB910.021	120	(2x0.5)C	白色,棕色white, brown
FMB910.022	120	(4x0.5)C	白色,绿色,棕色,黄色(四星式绞合)white, green, brown, yellow (Star-quad)
DeviceNet			
FMB910.030	120	(2xAWG24)C	白色/蓝色white/blue
		2xAWG22	红色,黑色red, black
FMB910.031	120	(2xAWG18)C	白色/蓝色white/blue
		2xAWG15	红色,黑色red, black
CC-Link			
FMB910.035	110	3xAWG20	白色,蓝色,黄色white, blue, yellow
Ethernet/CAT5			
FMB910.040	100	(4x0.25)C	白色,绿色,棕色,黄色 (四是式绞合)white, green, brown, yellow (Star-quad)
Ethernet/CAT5e			
FMB910.045	100	4x(2x0.15)	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			
FMB910.049	100	4x(2x0.15)	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			
FMB910.050	100	4x(2x0.15)C	白色/蓝色,白色/橙色,白色/绿色,白色/棕色 white/blue, white/orange, white/green, white/brown
Ethernet/CAT7			
FMB910.052	100	4x(2x0.15)C	白色/蓝色,白色/橙色,白色/绿色,白色/棕色 white/blue, white/orange, white/green, white/brown
FireWireIEEE 1394a			
FMB910.055	100	2x(2x0.15)C	橙色/蓝色,绿色/红色orange/blue, green/red
		2x(0.34)C	白色,黑色white, black

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Profinet			
FMB910.060	100	4x0.38	白色,橙色,蓝色,黄色(四星式较合)white, orange, blue, yellow (Star-quad)
USB			
FMB910.065	90	(2xAWG28)	白色/绿色white/green
		2xAWG20	红色,黑色red, black
FMB910.066	90	(2xAWG28)	白色/绿色white/green
		2xAWG20	红色,黑色red, black
DVI			
FMB910.070	100	4x(2xAWG28)C	4x 白色/黄色带蓝色,黑色,白色,红色单元护套 4 x white/yellow with element-shield in blue, black, red, white
		(2xAWG28)	白色,棕色white/brown
		3xAWG28	绿色,黄色,灰色green, yellow, grey