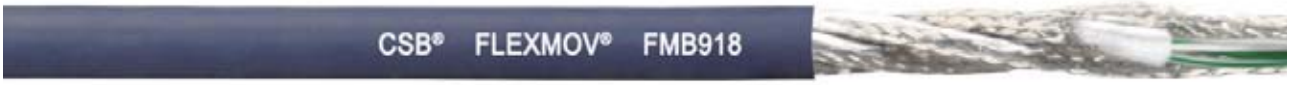
FMB918 总线电缆 Bus cables



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

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℃至to +70℃
	固定铺设 Fixed installation	-50℃至to +70℃
最大速度 v max.	三维拖链内扭转 Flexible twisted	360°/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±360° Torsion ±360°, 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 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.
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	高抗扭强度的镀锡铜丝缠绕屏蔽， 光学覆盖率80% High torsion strength tinned copper wire braided shield, Cover approx. 80% 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

www.csb-ep.com
sales@csb-ep.com
电话: 0573 84186133/84185527
Tel: 0086 573 84187009

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	高 High
耐水解 Hydrolysis-resistance	高 High
耐低温 Cold-resistant	-50℃
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 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, 80℃, 300V

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 [℃]	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	±330	±240	±150
-15/+60	±360	±270	±180
+60/+70	±330	±240	±150

www.csb-ep.com
sales@csb-ep.com
电话: 0573 84186133/84185527
Tel: 0086 573 84187009

FMB918 总线电缆 Bus cables

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(1x2x0.64mm)				
FMB918.001	(2x0.25)C	9.0	30	80
CAN-Bus				
FMB918.022	(4x0.5)C	9.0	47	103
DeviceNet				
FMB918.030	(2xAWG24)C+(2xAWG22)C	7.5	33	70
Ethernet/CAT5e/PoE				
FMB918.045	(4x(2x0.15))C	7.5	32	67
Ethernet/CAT6/PoE				
FMB918.049	(4x(2x0.15))C	7.5	32	67
Ethernet/CAT6A				
FMB918.050	(4x(2x0.15))C	10.5	49	115
Ethernet/CAT7				
FMB918.052	(4x(2x0.15))C	10.5	49	115
Profinet				
FMB918.060 ④)	(4x0.34)C	7.0	32	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.

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

www.csb-ep.com
sales@csb-ep.com
电话: 0573 84186133/84185527
Tel: 0086 573 84187009

FLEXMOV® Bus cables

FLEXMOV® 总线电缆 FMB918

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(1x2x0.64mm)			
FMB918.001	150	(2x0.25)C	红色,绿色red, green
CAN-Bus			
FMB918.022	120	(4x0.5)C	白色,绿色,棕色,黄色 (四星式绞合)white, green, brown, yellow (Star-quad)
DeviceNet			
FMB918.030	120	(2xAWG24)C+(2xAWG22)C	2xAWG24: 白, 蓝white, blue 2xAWG22: 红, 黑red, black
Ethernet/CAT5e/PoE			
FMB918.045	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/PoE			
FMB918.049	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			
FMB918.050	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/CAT7			
FMB918.052	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
Profinet			
FMB918.060 ④)	100	(4x0.34)C	白色,橙色,蓝色,黄色 (四星式绞合)white, orange, blue, yellow (Star-quad)

www.csb-ep.com
sales@csb-ep.com
电话: 0573 84186133/84185527
Tel: 0086 573 84187009