

FME913 测量系统电缆 Measuring system cables



- PUR外护套
- 耐油和冷却剂
- 不含PVC和卤素
- 带屏蔽
- 阻燃
- 耐划痕
- 抗水解和微生物
- PUR outer jacket
- Oil-resistant and coolant-resistant
- PVC and halogen-free
- Shielded
- Flame-retardant
- Notch-resistant
- Hydrolysis and microbe-resistant

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	-25°C至to +80°C
		非拖链内移动 Flexible moving	-40°C至to +80°C
		固定铺设 Fixed installation	-50°C至to +80°C
	最大速度 v max.	架空 Unsupported	10 m/s
		滑行 Gliding	5 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 TPE mixture.
	芯线结构 Conductor construction	符合测量系统标准 According to measuring system specification.
	芯线识别 Color code	符合测量系统标准 According to measuring system specification.
	单元屏蔽 Element 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 approx. 70 % linear, approx. 90 % optical
	单元护套 Element jacket	TPE混合物包裹带屏蔽的对线，适用于拖链 TPE mixture on pair shielding adapted to suit the requirements in cable carriers.
	内护套 Inner jacket	TPE混合物，适用于拖链 TPE mixture on pair shielding 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PUR基混合物，特别耐磨损且具有高度的灵活性，适用于拖链 Low-adhesion mixture on the basis of PUR, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers. 颜色：黄绿色 Color: Yellow-green RAL 6018

FLEXMOV® Measuring system cables

FLEXMOV® 测量系统电缆

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]
-25/-15	10	11	12
-15/+70	7.5	8.5	9.5
+70/+80	10	11	12

FME913

FLEXMOV®

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FME913 测量系统电缆 Measuring system 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]
FME913.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10	71	137
FME913.002	(3x(2x0.14)C+2x(0.5)C)C	10	74	144
FME913.003	(3x(2x0.14)+2x1.0)C	8	56	103
FME913.004	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5))C	11	78	152
FME913.005	(4x(2x0.14)+4x0.5)C	9	60	115
FME913.006	(3x(2x0.14)C+(4x0.14)+(4x0.25)+(2x0.5))C	11	85	158
FME913.007 ^③	(4x0.34)C	6.5	31	54
FME913.008	(3x(2x0.25))C	7.5	36	76
FME913.009	(4x(2x0.25)+2x0.5)C	8.5	57	99
FME913.010	(4x(2x0.25)+2x1.0)C	9	68	122
FME913.011	(4x(2x0.34)+4x0.5)C	10	81	142
FME913.013	(3x(2x0.14)C+2x0.5)C	9	62	121
FME913.014	(4x(2x0.25)C+(2x0.5))C	11	86	163
FME913.015	(4x(2x0.14)+4x0.5)C	9	60	114
FME913.016	(3x(2x0.25)C)C	10	60	126
FME913.017 ^③	(4x(2x0.14)+(4x0.14)C+4x1.0)C	10	100	150
FME913.018 ^③	(2x(2x0.25)+2x0.5)C	6.5	41	65
FME913.019 ^③	(3x(2x0.25)C+(3x0.25)+2x1.0)C	10	93	143
FME913.022	((2x0.25)+5x0.5)C	8	54	94
FME913.025	(3x(2x0.14)C+(2x0.5)C)C	10	72	141
FME913.027	(5x(2x0.14)+2x0.5)C	9	52	105
FME913.028 ^③	(2x(2x0.20)+(2x0.38))C	7.5	44	69
FME913.029	(5x(2x0.25)C+(2x0.25+2x0.5))C	12	105	192
FME913.032 ^③	3x(2x0.14)C+(3x0.14)C	8.5	35	82
FME913.033 ^③	4x(2x0.14)C+2x(1.0)C	9.5	64	111
FME913.036	(5x(2x0.25))C	8.5	51	103
FME913.037	(6x(2x0.25))C	9	58	114
FME913.038	(3x(2x0.14)+(2x0.34))C	8.5	36	87
FME913.040	(3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C	10	88	155

③) 不带总屏蔽 Without overall shield

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

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产品编码 Part No.	芯线组 Core group	颜色代码 Colour code
FME913.001	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(2x0.5)	棕色-红色/棕色-蓝色brown-red/brown-blue
FME913.002	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	2x(0.5)C	黑色, 红色black, red
FME913.003	3x(2x0.14)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x1.0	蓝色, 红色blue, red
FME913.004	2x(2x(2x0.14)	(棕色/绿色)/(黄色/紫色), (灰色/粉色)/(红色/黑色)(brown/green)/(yellow/violet), (grey/pink)/(red/black)
	(4x0.14)C	黄色-黑色/红色-黑色/绿色-黑色/蓝色-黑色yellow-black/red-black/green-black/blue-black
	(4x0.5)	棕色-绿色/白色-绿色/蓝色/白色brown-green/white-green/blue/white
FME913.005	4x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	4x0.5	黑色, 紫色, 灰色-粉色, 红色-蓝色black, violet, grey-pink, red-blue
FME913.006	3x(2x0.14)C	绿色/黄色, 黑色/棕色, 红色/橙色green/yellow, black/brown, red/orange
	(4x0.14)	灰色/蓝色/白色-黄色/白色-黑色grey/blue/white-yellow/white-black
	(4x0.25)	黄色-棕色/灰色-棕色/绿色-黑色/绿色-红色yellow-brown/grey-brown/green-black/green-red
	(2x0.5)	棕色-红色/棕色-蓝色brown-red/brown-blue
FME913.007	4x0.34	白色, 绿色, 棕色, 黄色 (四星式绞合) white, green, brown, yellow (Star-quad)
FME913.008	3x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
FME913.009	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x0.5	白色, 棕色white, brown
FME913.010	4x(2x0.25)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	2x1.0	白色, 棕色white, brown
FME913.011	4x(2x0.34)	黑色/棕色, 红色/橙色, 绿色/黄色, 蓝色/紫色black/brown, red/orange, green/yellow, blue/violet
	4x0.5	黑色-白色, 红色-白色, 黄色-白色, 蓝色-白色black-white, red-white, yellow-white, blue-white
FME913.013	3x(2x0.14)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	2x0.5	蓝色, 红色blue, red
FME913.014	4x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色white/brown, green/yellow, grey/pink, blue/red
	(2x0.5)	黑色no. 1/黑色no. 2 black no. 1/black no. 2
FME913.015	4x(2x0.14)	棕色/绿色, 蓝色/紫色, 灰色/粉色, 红色/黑色brown/green, blue/violet, grey/pink, red/black
	4x0.5	蓝色, 白色, 棕色-绿色, 白色-绿色blue, white, brown-green, white-green
FME913.016	3x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	4x(2x0.14)	红色/黑色, 棕色/绿色, 黄色/紫色, 灰色/粉色red/black, brown/green, yellow/violet, grey/pink
FME913.017	(4x0.14)C	蓝色-黑色/黄色-黑色/红色-黑色/绿色-黑色blue-black/yellow-black/red-black/green-black
	4x1.0	白色-绿色, 棕色-绿色, 蓝色, 白色white-green, brown-green, blue, white
	2x(2x0.25)	红色/黑色, 灰色/粉色red/black, grey/pink
FME913.018	2x0.5	白色, 棕色white, brown
	3x(2x0.25)C	棕色/绿色, 灰色/粉色, 红色/黑色brown/green, grey/pink, red/black
	(3x0.25)	蓝色/紫色/黄色blue/violet/yellow
FME913.022	2x1.0	白色, 棕色white, brown
	(2x0.25)	白色, 棕色white, brown
	5x0.5	绿色, 黄色, 灰色, 粉色, 蓝色green, yellow, grey, pink, blue
FME913.025	3x(2x0.14)C	绿色/黄色, 蓝色/红色, 灰色/粉色green/yellow, blue/red, grey/pink
	(2x0.5)C	白色, 棕色white, brown

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FME913.027	5x(2x0.14)	棕色/绿色, 黄色/灰色, 白色/紫色, 红色-黑色, 粉色/蓝色 brown/green, yellow/grey, white/violet, red/black, pink/blue
	2x0.5	白色-绿色, 白色-红色white-green, white-red
FME913.028	2x(2x0.20)	绿色/黄色, 粉色/蓝色green/yellow, pink/blue
	(2x0.38)	红色/黑色red/black
FME913.029	5x(2x0.25)C	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色 white/brown, green/yellow, grey/pink, blue/red, black/violet
	(2x0.25+2x0.5)	灰色-粉色/棕色-绿色/白色-绿色/红色-蓝色gray-pink/brown-green/white-green/red-blue
FME913.032	3x(2x0.14)C	绿色/黑色, 黄色/黑色, 红色/黑色green/black, yellow/black, red/black
	(3x0.14)C	灰色/粉色/黑色grey/pink/black
FME913.033	4x(2x0.14)C	黄色/黑色, 红色/黑色, 蓝色/黑色, 绿色/黑色yellow/black, red/black, blue/black, green/black
	2x(1.0)C	白色, 棕色white, brown
FME913.036	5x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色 white/brown, green/yellow, grey/pink, blue/red, black/violet
FME913.037	6x(2x0.25)	白色/棕色, 绿色/黄色, 灰色/粉色, 蓝色/红色, 黑色/紫色, 灰色-粉色/红色-蓝色 white/brown, green/yellow, grey/pink, blue/red, black/violet, grey-pink/red-blue
FME913.038	3x(2x0.14)	白色/棕色, 绿色/黄色, 灰色/粉色white/brown, green/yellow, grey/pink
	(2x0.34)	蓝色/红色blue/red
FME913.040	3x(4x0.14)	黑色/红色/白色-黑色/白色-红色, 绿色/蓝色/白色-绿色/白色-蓝色, 黄色/棕色/白色-黄色/白色-棕色 black/red/white-black/white-red, green/blue/white-green/white-blue, yellow/brown/white-yellow/white-brown
	(2x0.14+2x0.34)	紫色/橙色/白色-紫色/白色-橙色violet/orange/white-violet/white-orange
	2x1.5	白色-灰色, 灰色white-grey, grey