

# FLEXMOV® Control Cables

## FLEXMOV® 控制电缆

### FMC900 控制电缆 Control cables

CSB® FLEXMOV® FMC900

- TPE 外护套
- 耐油、耐生物油
- 室内及室外应用
- 抗水解和微生物
- 低温移动应用
- 不含PVC和卤素

- TPE outer jacket
- Oil and bio-oil-resistant
- Indoor and outdoor applications
- Resistant to hydrolysis and microbes
- Low-temperature-flexibility
- PVC and halogen-free

### 移动参数 Dynamic Information

|                                                                                     |                               |                                                                                                           |                 |
|-------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------|
|    | 最小弯曲半径<br>Min. bending radius | 拖链内移动 Moving in cable carriers                                                                            | 5 x d           |
|                                                                                     |                               | 非拖链内移动 Flexible moving                                                                                    | 4 x d           |
|                                                                                     |                               | 固定铺设 Fixed installation                                                                                   | 3 x d           |
|    | 使用温度范围<br>Temperature         | 拖链内移动 Moving in cable carriers                                                                            | -35°C至to +100°C |
|                                                                                     |                               | 非拖链内移动 Flexible moving                                                                                    | -50°C至to +100°C |
|                                                                                     |                               | 固定铺设 Fixed installation                                                                                   | -55°C至to +100°C |
|  | 最大速度<br>v max.                | 架空 Unsupported                                                                                            | 10 m/s          |
|                                                                                     |                               | 滑行 Gliding                                                                                                | 6 m/s           |
|  | 最大加速度<br>a max.               | 100 m/s <sup>2</sup>                                                                                      |                 |
|  | 行程距离<br>Travel distance       | 架空应用和行程距离长达400米及以上的滑行应用<br>Unsupported travel distances and for gliding applications up to 400 m and more |                 |
|  | 可扭转<br>Torsion                | ±90°/m                                                                                                    |                 |

### 电缆结构 Cable structure

|                                                                                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 导体<br>Conductor                | 高抗弯强度的精细裸铜多股线（符合EN 60228 标准）<br>Conductor consisting of bare copper wires (according to EN 60228).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | 绝缘材料<br>Conductor insulation   | 高机械性能的TPE混合物<br>Mechanically high-quality TPE mixture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | 芯线结构<br>Conductor construction | 芯线数量 < 12: 芯线以短节距绞合在一起<br>Number of conductors < 12: Conductors cabled in a layer with short pitch length.<br><br>芯线数量 ≥ 12: 芯线采用两次复绞，特别的抗扭力结构<br>Number of conductors ≥ 12: Conductors combined in bundles and stranded together around a high-tensile strength core, using short pitch directions for a low-torsion cable structure.                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | 芯线识别<br>Color code             | 截面积Cross-sectional < 0.75 mm <sup>2</sup> : 颜色代码符合 Color code in accordance with DIN 47100<br><br>截面积Cross-sectional ≥ 0.75 mm <sup>2</sup> : 一根为黄绿芯线，其余均为黑色芯线带白色数字<br>Black with white numbers, one conductor green-yellow<br><br>FMC900.02.03.INI: 棕色, 蓝色, 黑色 brown, blue, black<br>FMC900.03.04.INI: 棕色, 蓝色, 黑色, 白色 brown, blue, black, white<br>FMC900.03.05.INI: 棕色, 蓝色, 黑色, 白色, 黄绿色 brown, blue, black, white, green-yellow<br>FMC900.03.16.07.03.INI:<br>0.34mm <sup>2</sup> : 紫/红/灰/红蓝, 绿/灰粉红/白绿/白黄, 白灰/黑/黄棕/棕绿色, 白/黄/粉红色/灰棕色 violet/red/grey/red-blue, green/grey-pink/white-green/white-yellow, white-grey/black/yellow-brown/brown-green, white/yellow/pink/grey-brown<br>0.75mm <sup>2</sup> : 蓝/绿黄/棕色 blue/green-yellow/brown |
|  | 外护套<br>Outer jacket            | 低粘性的TPE基混合物，高度耐磨、柔性，符合拖链要求。<br>Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in cable carriers.<br>颜色: 钢青色 Color: Steel blue RAL 5011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 电气参数 Electrical Information

|                                                                                   |                         |                                                      |
|-----------------------------------------------------------------------------------|-------------------------|------------------------------------------------------|
|  | 额定电压<br>Nominal voltage | U <sub>0</sub> /U: 300/500 V (符合following VDE0298-3) |
|  | 测试电压<br>Test voltage    | 2000 V (符合following EN50395)                         |

## 特性和认证 Properties and approvals

|                                                                                     |                              |                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 抗紫外线<br>UV-resistance        | 高 High                                                                                                                                                                          |
|    | 耐水解<br>Hydrolysis-resistance | 高 High                                                                                                                                                                          |
|    | 耐低温<br>Cold-resistant        | -55°C                                                                                                                                                                           |
|    | 耐油性<br>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)<br>Oil-resistant (following IEC60811-404, tested by SGS), bio-oil-resistant (following VDMA24568, tested by SGS) |
|    | 无卤素<br>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<br>Lead-free              | 符合Following 2015/863/EU (RoHS-II 经SGS检测 Tested by SGS)                                                                                                                          |
|  | 无尘室<br>Cleanroom             | 符合Following ISO 14644-1                                                                                                                                                         |
|  | CE                           | 符合Following 2014/35/EU                                                                                                                                                          |
|  | UL                           | 符合Following UL22187, 600V, 80°C                                                                                                                                                 |

## 质保使用寿命 Guaranteed service life

| 往返行程<br>Double strokes                 | 500万次<br>5 million times           | 750万次<br>7.5 million times         | 1000万次<br>10 million times         |
|----------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 适用温度范围<br>Temperature,<br>from/to [°C] | 最小弯曲半径<br>R min.<br>[系数factor x d] | 最小弯曲半径<br>R min.<br>[系数factor x d] | 最小弯曲半径<br>R min.<br>[系数factor x d] |
| -35/-25                                | 6.8                                | 7.5                                | 8.5                                |
| -25/+90                                | 5                                  | 6                                  | 7                                  |
| +90/+100                               | 6.8                                | 7.5                                | 8.5                                |

# FLEXMOV® Control Cables

## FLEXMOV® 控制电缆

### FMC900 控制电缆 Control cables

| 产品编码<br>Part No.       | 芯数及截面积<br>Number of cores and<br>conductor nominal cross-section<br>[mm] | 外径<br>Outer diameter<br>[mm] | 铜含量<br>Copper index<br>[kg/km] | 重量<br>Weight<br>[kg/km] |
|------------------------|--------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------|
| FMC900.02.02           | 2×0.25                                                                   | 4.5                          | 6.0                            | 18.0                    |
| FMC900.02.03.INI       | 3×0.25                                                                   | 4.5                          | 9.0                            | 22.0                    |
| FMC900.02.06           | 6×0.25                                                                   | 5.5                          | 16.0                           | 36.0                    |
| FMC900.02.07           | 7×0.25                                                                   | 6.5                          | 18.0                           | 42.0                    |
| FMC900.02.08           | 8×0.25                                                                   | 6.5                          | 21.0                           | 48.0                    |
| FMC900.02.12           | 12×0.25                                                                  | 8.0                          | 31.0                           | 71.0                    |
| FMC900.02.18           | 18×0.25                                                                  | 9.0                          | 46.0                           | 100.0                   |
| FMC900.02.20           | 20×0.25                                                                  | 9.5                          | 50.0                           | 108.0                   |
| FMC900.02.25           | 25×0.25                                                                  | 10.5                         | 63.0                           | 137.0                   |
| FMC900.03.04.INI       | 4×0.34                                                                   | 5.0                          | 15.0                           | 31.0                    |
| FMC900.03.05.INI       | 5×0.34                                                                   | 5.5                          | 18.0                           | 37.0                    |
| FMC900.03.06           | 6×0.34                                                                   | 6.0                          | 21.0                           | 42.0                    |
| FMC900.03.08           | 8×0.34                                                                   | 7.0                          | 29.0                           | 56.0                    |
| FMC900.03.16.07.03.INI | 16×0.34+3×0.75                                                           | 11.0                         | 77.0                           | 152.0                   |
| FMC900.05.02           | 2×0.5                                                                    | 5.0                          | 11.0                           | 26.0                    |
| FMC900.05.03           | 3×0.5                                                                    | 5.0                          | 16.0                           | 32.0                    |
| FMC900.05.04           | 4×0.5                                                                    | 5.5                          | 21.0                           | 39.0                    |
| FMC900.05.05           | 5×0.5                                                                    | 6.0                          | 25.0                           | 47.0                    |
| FMC900.05.07           | 7×0.5                                                                    | 7.0                          | 36.0                           | 65.0                    |
| FMC900.05.12           | 12×0.5                                                                   | 10.0                         | 61.0                           | 115.0                   |
| FMC900.05.18           | 18×0.5                                                                   | 11.5                         | 91.0                           | 169.0                   |
| FMC900.05.25           | 25×0.5                                                                   | 13.0                         | 124.0                          | 223.0                   |
| FMC900.05.36           | 36×0.5                                                                   | 15.5                         | 179.0                          | 316.0                   |
| FMC900.07.04           | 4G0.75                                                                   | 6.0                          | 31.0                           | 55.0                    |
| FMC900.07.05           | 5G0.75                                                                   | 6.5                          | 38.0                           | 65.0                    |
| FMC900.07.07           | 7G0.75                                                                   | 8.0                          | 54.0                           | 90.0                    |
| FMC900.07.12           | 12G0.75                                                                  | 10.5                         | 91.0                           | 162.0                   |
| FMC900.07.20           | 20G0.75                                                                  | 13.0                         | 149.0                          | 253.0                   |
| FMC900.07.25           | 25G0.75                                                                  | 14.5                         | 186.0                          | 315.0                   |
| FMC900.10.03           | 3G1.0                                                                    | 6.0                          | 31.0                           | 52.0                    |
| FMC900.10.04           | 4G1.0                                                                    | 6.5                          | 41.0                           | 67.0                    |
| FMC900.10.05           | 5G1.0                                                                    | 7.5                          | 50.0                           | 81.0                    |
| FMC900.10.12           | 12G1.0                                                                   | 11.5                         | 120.0                          | 203.0                   |
| FMC900.10.18           | 18G1.0                                                                   | 14.0                         | 179.0                          | 297.0                   |
| FMC900.10.25           | 25G1.0                                                                   | 16.5                         | 248.0                          | 420.0                   |

FMC900

FLEXMOV®

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| 产品编码<br>Part No.           | 芯数及截面积<br>Number of cores and<br>conductor nominal cross-section<br>[mm] | 外径<br>Outer diameter<br>[mm] | 铜含量<br>Copper index<br>[kg/km] | 重量<br>Weight<br>[kg/km] |
|----------------------------|--------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------|
| FMC900.15.02               | 2×1.5                                                                    | 6.5                          | 31.0                           | 56.0                    |
| FMC900.15.04               | 4G1.5                                                                    | 7.5                          | 61.0                           | 92.0                    |
| FMC900.15.05               | 5G1.5                                                                    | 8.0                          | 76.0                           | 110.0                   |
| FMC900.15.07 <sup>⑦)</sup> | 7G1.5                                                                    | 9.5                          | 107.0                          | 157.0                   |
| FMC900.15.12               | 12G1.5                                                                   | 13.5                         | 179.0                          | 284.0                   |
| FMC900.15.18               | 18G1.5                                                                   | 16.5                         | 268.0                          | 422.0                   |
| FMC900.15.25               | 25G1.5                                                                   | 20.0                         | 371.0                          | 600.0                   |
| FMC900.15.36               | 36G1.5                                                                   | 23.5                         | 530.0                          | 847.0                   |
| FMC900.25.04               | 4G2.5                                                                    | 8.5                          | 100.0                          | 151.0                   |
| FMC900.25.05               | 5G2.5                                                                    | 10.0                         | 124.0                          | 186.0                   |
| FMC900.25.07 <sup>⑦)</sup> | 7G2.5                                                                    | 12.0                         | 176.0                          | 269.0                   |
| FMC900.25.12               | 12G2.5                                                                   | 17.5                         | 297.0                          | 492.0                   |
| FMC900.25.16               | 16G2.5                                                                   | 19.5                         | 396.0                          | 654.0                   |
| FMC900.25.18 <sup>⑩)</sup> | 18G2.5                                                                   | 22.5                         | 445.0                          | 766.0                   |
| FMC900.25.25               | 25G2.5                                                                   | 23.5                         | 612.0                          | 980.0                   |
| FMC900.40.04               | 4G4.0                                                                    | 10.5                         | 159.0                          | 227.0                   |
| FMC900.60.04               | 4G6.0                                                                    | 12.5                         | 238.0                          | 317.0                   |
| FMC900.60.05               | 5G6.0                                                                    | 13.5                         | 297.0                          | 389.0                   |
| FMC900.100.04              | 4G10                                                                     | 16.5                         | 396.0                          | 549.0                   |
| FMC900.160.04              | 4G16                                                                     | 20.5                         | 628.0                          | 873.0                   |

⑦) 当使用7G1.5mm<sup>2</sup>和7G2.5mm<sup>2</sup>电缆时; 滑行使用行距≥5m, 最小弯曲半径17.5xd

When using the cables with "7G1.5mm<sup>2</sup>" and "7G2.5mm<sup>2</sup>" minimum bend radius must be 17.5xd with gliding travel distance ≥ 5m.

⑩) 额定电压Nominal voltage: 600/1000V

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