

# 运动控制电缆

## LONGFLEX™ MC 411



ZHAOLONG LONGFLEX™ MC 411 2X0.75mm² 80 C 300/500V IEC60332-1 \*\*\*\*m YY/MM/DD

### 产品应用

作为控制电缆应用于加工机械、传输带、机械制造生产线、空调系统。适合固定应用或非持续性来回运动的弯曲运动。不适用于室外安装。

### 技术参数

- 温度范围  
固定应用：-40℃ ~80℃  
偶尔移动：-5℃ ~70℃
- 测试电压  
4000V
- 绝缘电阻 (20℃)  
≥20MΩ.km
- 额定电压  
见下表
- 最小弯曲半径  
固定应用：  
4D (D= 电缆直径)  
偶尔移动：  
15D (D= 电缆直径)



### 电缆结构

导体：精细裸铜绞合导体，符合 IEC 60228/VDE 0295 5 类导体标准  
绝缘：PVC  
绝缘颜色：5 芯及以下符合 DIN VDE 0293, 6 芯及以上兆龙芯线色标，黄绿线可选  
护套：PVC  
颜色：灰色 (近似 RAL 7001)

### 特点

阻燃性满足 IEC60332-1 要求  
具有较小的弯曲半径和较好的柔韧性  
具有一定的耐油性  
电缆外径较小，有效节省布线空间

| 产品编码      | 产品规格<br>(mm²) | 标称外径<br>(mm) | 铜重约<br>(kg/km) | 电缆重量约<br>(kg/km) | 额定电压     |
|-----------|---------------|--------------|----------------|------------------|----------|
| ZL5411001 | 2X0.5         | 4.8          | 9.6            | 35               | 300/500V |
| ZL5411002 | 3G0.5         | 5.1          | 14.4           | 42               | 300/500V |
| ZL5411003 | 3X0.5         | 5.1          | 14.4           | 42               | 300/500V |
| ZL5411004 | 4G0.5         | 5.7          | 19.2           | 54               | 300/500V |
| ZL5411005 | 4X0.5         | 5.7          | 19.2           | 54               | 300/500V |
| ZL5411006 | 5G0.5         | 6.2          | 24.0           | 63               | 300/500V |
| ZL5411007 | 5X0.5         | 6.2          | 24.0           | 63               | 300/500V |
| ZL5411008 | 7G0.5         | 6.7          | 33.6           | 81               | 300/500V |
| ZL5411009 | 7X0.5         | 6.7          | 33.6           | 81               | 300/500V |
| ZL5411010 | 8G0.5         | 8.0          | 38.4           | 97               | 300/500V |
| ZL5411011 | 10G0.5        | 8.6          | 48.0           | 116              | 300/500V |
| ZL5411012 | 12G0.5        | 8.9          | 58.0           | 131              | 300/500V |
| ZL5411013 | 16G0.5        | 10.0         | 76.0           | 169              | 300/500V |
| ZL5411014 | 14G0.5        | 9.5          | 67.0           | 153              | 300/500V |
| ZL5411015 | 18G0.5        | 10.5         | 86.4           | 188              | 300/500V |
| ZL5411016 | 21G0.5        | 11.7         | 101.0          | 221              | 300/500V |
| ZL5411017 | 24G0.5        | 12.4         | 114.0          | 254              | 300/500V |
| ZL5411018 | 25G0.5        | 12.4         | 120.0          | 261              | 300/500V |
| ZL5411019 | 30G0.5        | 13.3         | 144.0          | 304              | 300/500V |
| ZL5411020 | 35G0.5        | 14.5         | 168.0          | 356              | 300/500V |

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|-----------|---------------|--------------|----------------|------------------|----------|
| ZL5411021 | 40G0.5        | 15.4         | 192.0          | 400              | 300/500V |
| ZL5411022 | 52G0.5        | 17.3         | 250.0          | 517              | 300/500V |
| ZL5411023 | 61G0.5        | 18.5         | 293.0          | 603              | 300/500V |
| ZL5411024 | 2X0.75        | 5.4          | 14.4           | 45               | 300/500V |
| ZL5411025 | 3G0.75        | 5.7          | 21.6           | 55               | 300/500V |
| ZL5411026 | 3X0.75        | 5.7          | 21.6           | 55               | 300/500V |
| ZL5411027 | 4G0.75        | 6.2          | 28.8           | 66               | 300/500V |
| ZL5411028 | 4X0.75        | 6.2          | 28.8           | 66               | 300/500V |
| ZL5411029 | 5G0.75        | 6.7          | 36.0           | 79               | 300/500V |
| ZL5411030 | 5X0.75        | 6.7          | 36.0           | 79               | 300/500V |
| ZL5411031 | 6G0.75        | 7.3          | 43.3           | 94.3             | 300/500V |
| ZL5411032 | 7G0.75        | 7.3          | 50.0           | 101              | 300/500V |
| ZL5411033 | 7X0.75        | 7.3          | 50.0           | 101              | 300/500V |
| ZL5411034 | 8G0.75        | 8.8          | 56.0           | 123              | 300/500V |
| ZL5411035 | 9G0.75        | 9.4          | 65.0           | 137              | 300/500V |
| ZL5411036 | 10G0.75       | 9.6          | 72.0           | 150              | 300/500V |
| ZL5411037 | 12G0.75       | 9.9          | 86.0           | 171              | 300/500V |
| ZL5411038 | 12X0.75       | 9.9          | 86.0           | 171              | 300/500V |
| ZL5411039 | 15G0.75       | 10.9         | 108.0          | 209              | 300/500V |
| ZL5411040 | 15X0.75       | 10.9         | 108.0          | 209              | 300/500V |
| ZL5411041 | 16G0.75       | 11.1         | 115.2          | 220              | 300/500V |
| ZL5411042 | 18G0.75       | 11.7         | 130.0          | 244              | 300/500V |
| ZL5411043 | 21G0.75       | 13.0         | 151.0          | 286              | 300/500V |
| ZL5411044 | 25G0.75       | 13.8         | 180.0          | 337              | 300/500V |
| ZL5411045 | 26G0.75       | 14.2         | 187.2          | 350              | 300/500V |
| ZL5411046 | 34G0.75       | 15.9         | 245.0          | 448              | 300/500V |
| ZL5411047 | 41G0.75       | 17.4         | 296.0          | 538              | 300/500V |
| ZL5411048 | 50G0.75       | 19.2         | 360.0          | 648              | 300/500V |
| ZL5411049 | 51G0.75       | 19.2         | 367.0          | 646              | 300/500V |
| ZL5411050 | 61G0.75       | 20.5         | 439.0          | 779              | 300/500V |
| ZL5411051 | 2X1           | 5.7          | 19.2           | 53               | 300/500V |
| ZL5411052 | 3G1           | 6.0          | 28.8           | 65               | 300/500V |
| ZL5411053 | 3 X1          | 6.0          | 28.8           | 65               | 300/500V |
| ZL5411054 | 4G1           | 6.5          | 38.4           | 79               | 300/500V |
| ZL5411055 | 4X1           | 6.5          | 38.4           | 79               | 300/500V |
| ZL5411056 | 5G1           | 7.1          | 48.0           | 94               | 300/500V |
| ZL5411057 | 5X1           | 7.1          | 48.0           | 94               | 300/500V |
| ZL5411058 | 6G1           | 8.0          | 58.0           | 113              | 300/500V |
| ZL5411059 | 7G1           | 8.0          | 67.0           | 126              | 300/500V |
| ZL5411060 | 7X1           | 8.0          | 67.0           | 126              | 300/500V |
| ZL5411061 | 8G1           | 9.5          | 77.0           | 149              | 300/500V |
| ZL5411062 | 9G1           | 10.0         | 86.0           | 164              | 300/500V |
| ZL5411063 | 10G1          | 10.2         | 96.0           | 180              | 300/500V |
| ZL5411064 | 12G1          | 10.5         | 115.0          | 205              | 300/500V |
| ZL5411065 | 12X1          | 10.5         | 115.0          | 205              | 300/500V |
| ZL5411066 | 14G1          | 11.2         | 134.0          | 238              | 300/500V |
| ZL5411067 | 16G1          | 11.8         | 153.6          | 266              | 300/500V |
| ZL5411068 | 18G1          | 12.7         | 173.0          | 320              | 300/500V |
| ZL5411069 | 18X1          | 12.7         | 173.0          | 320              | 300/500V |
| ZL5411070 | 20G1          | 13.4         | 192.0          | 330              | 300/500V |
| ZL5411071 | 20X1          | 13.4         | 192.0          | 330              | 300/500V |
| ZL5411072 | 25G1          | 14.7         | 240.0          | 408              | 300/500V |

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|-----------|---------------|--------------|----------------|------------------|----------|
| ZL5411073 | 26G1          | 15.1         | 249.0          | 424              | 300/500V |
| ZL5411074 | 34G1          | 17.1         | 326.0          | 551              | 300/500V |
| ZL5411075 | 36G1          | 17.4         | 346.0          | 578              | 300/500V |
| ZL5411076 | 41G1          | 18.8         | 394.0          | 661              | 300/500V |
| ZL5411077 | 50G1          | 20.6         | 480.0          | 797              | 300/500V |
| ZL5411078 | 56G1          | 21.4         | 538.0          | 888              | 300/500V |
| ZL5411079 | 61G1          | 22.1         | 586.0          | 958              | 300/500V |
| ZL5411080 | 2X1.5         | 6.3          | 29.0           | 68               | 300/500V |
| ZL5411081 | 3G1.5         | 6.7          | 43.0           | 84               | 300/500V |
| ZL5411082 | 3X1.5         | 6.7          | 43.0           | 84               | 300/500V |
| ZL5411083 | 4G1.5         | 7.2          | 58.0           | 104              | 300/500V |
| ZL5411084 | 4X1.5         | 7.2          | 58.0           | 104              | 300/500V |
| ZL5411085 | 5G1.5         | 8.1          | 72.0           | 128              | 300/500V |
| ZL5411086 | 5X1.5         | 8.1          | 72.0           | 128              | 300/500V |
| ZL5411087 | 6G1.5         | 8.4          | 86.4           | 157              | 300/500V |
| ZL5411088 | 7G1.5         | 8.9          | 101.0          | 166              | 300/500V |
| ZL5411089 | 7X1.5         | 8.9          | 101.0          | 166              | 300/500V |
| ZL5411090 | 8G1.5         | 10.6         | 115.0          | 210              | 300/500V |
| ZL5411091 | 8X1.5         | 10.6         | 116.0          | 210              | 300/500V |
| ZL5411092 | 9G1.5         | 11.4         | 130.0          | 221              | 300/500V |
| ZL5411093 | 10G1.5        | 11.6         | 143.0          | 243              | 300/500V |
| ZL5411094 | 11G1.5        | 11.6         | 158            | 258              | 300/500V |
| ZL5411095 | 12G1.5        | 12           | 173            | 279              | 300/500V |
| ZL5411096 | 12X1.5        | 12           | 173            | 279              | 300/500V |
| ZL5411097 | 14G1.5        | 12.7         | 202            | 323              | 300/500V |
| ZL5411098 | 16G1.5        | 13.4         | 230.4          | 361              | 300/500V |
| ZL5411099 | 18G1.5        | 14.4         | 259            | 407              | 300/500V |
| ZL5411100 | 21G1.5        | 15.7         | 302            | 469              | 300/500V |
| ZL5411101 | 25G1.5        | 16.9         | 360            | 560              | 300/500V |
| ZL5411102 | 26G1.5        | 17.3         | 374.4          | 582              | 300/500V |
| ZL5411103 | 32G1.5        | 18.7         | 461            | 704              | 300/500V |
| ZL5411104 | 34G1.5        | 19.4         | 490            | 746              | 300/500V |
| ZL5411105 | 41G1.5        | 21.3         | 591            | 895              | 300/500V |
| ZL5411106 | 50G1.5        | 23.5         | 720            | 1089             | 300/500V |
| ZL5411107 | 61G1.5        | 25.2         | 878            | 1309             | 300/500V |
| ZL5411108 | 2X2.5         | 7.5          | 48             | 101              | 300/500V |
| ZL5411109 | 3G2.5         | 8.1          | 72             | 132              | 300/500V |
| ZL5411110 | 4G2.5         | 8.9          | 96             | 163              | 300/500V |
| ZL5411111 | 5G2.5         | 10           | 120            | 200              | 300/500V |
| ZL5411112 | 7G2.5         | 11.1         | 168            | 267              | 300/500V |
| ZL5411113 | 12G2.5        | 14.8         | 288            | 445              | 300/500V |
| ZL5411114 | 14G2.5        | 15.8         | 336            | 515              | 300/500V |
| ZL5411115 | 18G2.5        | 17.8         | 432            | 648              | 300/500V |
| ZL5411116 | 25G2.5        | 20.8         | 600            | 890              | 300/500V |
| ZL5411117 | 34G2.5        | 24.4         | 816            | 1208             | 300/500V |
| ZL5411118 | 50G2.5        | 29.4         | 1200           | 1754             | 300/500V |
| ZL5411119 | 3G4           | 9.9          | 115            | 201              | 300/500V |
| ZL5411120 | 4G4           | 10.8         | 154            | 249              | 300/500V |
| ZL5411121 | 5G4           | 12.1         | 192            | 294              | 300/500V |
| ZL5411122 | 7G4           | 13.4         | 269            | 407              | 300/500V |
| ZL5411123 | 11G4          | 17.6         | 422            | 634              | 300/500V |
| ZL5411124 | 12G4          | 18.1         | 461            | 660              | 300/500V |

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| ZLS411125 | 3G6           | 11.7         | 172.8          | 289              | 300/500V |
| ZLS411126 | 4G6           | 13           | 230            | 365              | 300/500V |
| ZLS411127 | 5G6           | 14.5         | 288            | 447              | 300/500V |
| ZLS411128 | 7G6           | 16           | 403            | 600              | 300/500V |
| ZLS411129 | 3G10          | 14.6         | 288            | 466              | 300/500V |
| ZLS411130 | 4G10          | 16.2         | 384            | 590              | 300/500V |
| ZLS411131 | 5G10          | 18.1         | 480            | 722              | 300/500V |
| ZLS411132 | 7G10          | 20           | 672            | 968              | 300/500V |
| ZLS411133 | 3G16          | 17           | 460.8          | 720              | 300/500V |
| ZLS411134 | 4G16          | 18.8         | 614            | 1087             | 300/500V |
| ZLS411135 | 5G16          | 21.2         | 768            | 1370             | 300/500V |
| ZLS411136 | 7G16          | 23.4         | 1075           | 1779             | 300/500V |
| ZLS411137 | 3G25          | 21           | 720            | 1250             | 300/500V |
| ZLS411138 | 4G25          | 23.5         | 960            | 1582             | 300/500V |
| ZLS411139 | 5G25          | 26.4         | 1200           | 1998             | 300/500V |
| ZLS411140 | 7G25          | 29.1         | 1680           | 2825             | 300/500V |
| ZLS411141 | 3G35          | 23.7         | 1008           | 1700             | 300/500V |
| ZLS411142 | 4G35          | 26.4         | 1344           | 2106             | 300/500V |
| ZLS411143 | 5G35          | 29.6         | 1680           | 2635             | 300/500V |
| ZLS411144 | 3G50          | 29.1         | 1440           | 2200             | 300/500V |
| ZLS411145 | 4G50          | 32.4         | 1920           | 2800             | 300/500V |
| ZLS411146 | 2X2.5         | 8.9          | 48             | 128              | 450/750V |
| ZLS411147 | 3G2.5         | 9.6          | 72             | 162              | 450/750V |
| ZLS411148 | 3X2.5         | 9.6          | 72             | 162              | 450/750V |
| ZLS411149 | 4G2.5         | 10.7         | 96             | 203              | 450/750V |
| ZLS411150 | 5G2.5         | 11.8         | 120            | 242              | 450/750V |
| ZLS411151 | 7G2.5         | 13.1         | 168            | 321              | 450/750V |
| ZLS411152 | 8G2.5         | 15.8         | 192            | 385              | 450/750V |
| ZLS411153 | 2X4           | 10.4         | 77             | 187              | 450/750V |
| ZLS411154 | 3G4           | 11.2         | 115            | 244              | 450/750V |
| ZLS411155 | 4G4           | 12.5         | 154            | 297              | 450/750V |
| ZLS411156 | 5G4           | 13.7         | 192            | 355              | 450/750V |
| ZLS411157 | 7G4           | 15.2         | 269            | 471              | 450/750V |
| ZLS411158 | 3G6           | 12.6         | 173            | 318              | 450/750V |
| ZLS411159 | 4G6           | 13.8         | 230            | 394              | 450/750V |
| ZLS411160 | 5G6           | 15.6         | 288            | 489              | 450/750V |
| ZLS411161 | 7G6           | 17.3         | 403            | 651              | 450/750V |
| ZLS411162 | 3G10          | 15.9         | 288            | 516              | 450/750V |
| ZLS411163 | 4G10          | 17.6         | 384            | 650              | 450/750V |
| ZLS411164 | 5G10          | 19.7         | 480            | 792              | 450/750V |
| ZLS411165 | 7G10          | 21.7         | 672            | 1058             | 450/750V |
| ZLS411166 | 3G16          | 18.3         | 461            | 728              | 450/750V |
| ZLS411167 | 4G16          | 20.4         | 614            | 1087             | 450/750V |
| ZLS411168 | 5G16          | 22.8         | 768            | 1118             | 450/750V |
| ZLS411169 | 3G25          | 23.0         | 720            | 1388             | 450/750V |
| ZLS411170 | 4G25          | 25.4         | 960            | 1582             | 450/750V |
| ZLS411171 | 5G25          | 28.5         | 1200           | 1771             | 450/750V |
| ZLS411172 | 3G35          | 25.6         | 1008           | 1766             | 450/750V |
| ZLS411173 | 4G35          | 28.5         | 1344           | 2106             | 450/750V |
| ZLS411174 | 5G35          | 31.9         | 1680           | 2635             | 450/750V |
| ZLS411175 | 3G50          | 31.0         | 1440           | 2556             | 450/750V |