



控制电缆(GB/T9330-2008)

CONTROL CABLES(GB/T9330-2008)

p69

聚氯乙烯绝缘护套控制电缆
PVC Insulated Sheath Control Cable

聚氯乙烯绝缘护套控制电缆
PVC Insulated Sheath Control Cable



1 型号、名称及使用范围 (见表1) Model, name and application (see table 1)

| 型号 Model | 名称 Name | 主要使用范围 Main applications |
|-------------|--|--|
| KVV | 铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Copper conductor PVC insulated and sheathed control cable | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches and in ducts, for fixed installation |
| KVVP | 铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆 Copper conductor PVC insulated & sheathed copper wire braiding screened control cable | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches and in ducts, for fixed installation |
| KVVP2 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Copper conductor PVC insulated and sheathed control cable with steel tape shield | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches and in ducts, for fixed installation |
| KVV22 | 铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆 Copper conductor PVC insulated and sheathed control cable with steel tape armour | 敷设在室内、电缆沟、管道、直埋等承受较大机械外力的固定场合 For laying indoors, in trenches, in ducts and in ground, able to withstand heavier mechanical force, and for fixed installation |
| KVVR | 铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Copper conductor PVC insulated flexible control cable | 敷设在室内移动要求柔软等场合 For laying indoors, movable and flexible |
| ZR-KVVRP | 铜芯聚氯乙烯绝缘、聚氯乙烯护套编织屏蔽控制软电缆 Copper conductor PVC insulated & sheathed copper wire braiding screened flexible control cable | 敷设在室内移动要求柔软屏蔽等场合 Fixed laying indoors with capability of moving and screening |
| ZR-KVV | 铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable | 敷设在有阻燃要求的室内、电缆沟、管道等固定场合 For laying indoors, in trenches, in ducts and for fixed installation, the cable should be flame retardance |
| ZR-KVVP2 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with steel tape shield | 敷设在有阻燃要求的室内、电缆沟、管道等固定场合 For laying indoors, in trenches, in ducts and for fixed installation, the cable should be flame retardance |
| ZR-KVV2 | 铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with steel tape armour | 敷设在有阻燃要求的室内、电缆沟、管道、直埋等能承受较大机械外力固定场合 For laying indoors, in trenches, in ducts and underground, the cable should be flamerelardance and able to bear heavier external mechanical force, and for fixed installation |
| ZR-KVVR | 铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制软电缆 Copper conductor PVC insulated and sheathed flame retardant flexible control cable | 敷设在有阻燃要求的室内可移动柔软等场合 For laying indoors, and the cable should be flame-retardant flexible and movable |

表1 Table 1

2 电缆结构材料及性能 Construction size and properties of cable

KVV型, ZR-KVV型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆
Type KVV, ZR-KVV 450/750V Copper conductor PVC insulated and sheathed control cable

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation | 护套标称厚度 Nom thickness of sheath | 平均外径 Pitch diameter | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km | 近似重量 Approx weight (kg/km) |
|---|--|--------------------------------------|------------------------|------|--|---|-------------------------------------|
| | | | mm | mm | | | |
| 2×0.75 | 0.6 | 1.2 | 6.7 | 8.1 | 0.012 | 24.5 | 59 |
| 2×1.0 | 0.6 | 1.2 | 7.0 | 8.5 | 0.011 | 18.1 | 67 |
| 2×1.5 | 0.7 | 1.2 | 7.9 | 9.5 | 0.011 | 12.1 | 86 |
| 2×2.5 | 0.8 | 1.2 | 9.0 | 10.9 | 0.010 | 7.41 | 120 |
| 2×4 | 0.8 | 1.2 | 9.9 | 11.9 | 0.0085 | 4.61 | 167 |
| 2×6 | 0.8 | 1.2 | 10.8 | 13.1 | 0.0070 | 3.08 | 220 |
| 3×0.75 | 0.6 | 1.2 | 7.1 | 8.5 | 0.012 | 24.5 | 71 |
| 3×1.0 | 0.6 | 1.2 | 7.4 | 8.9 | 0.011 | 18.1 | 82 |
| 3×1.5 | 0.7 | 1.2 | 8.3 | 10.0 | 0.011 | 12.1 | 108 |
| 3×2.5 | 0.8 | 1.2 | 9.5 | 11.5 | 0.010 | 7.41 | 154 |
| 3×4 | 0.8 | 1.2 | 10.5 | 12.4 | 0.0085 | 4.61 | 210 |
| 3×6 | 0.8 | 1.5 | 11.5 | 13.9 | 0.0070 | 3.08 | 310 |
| 4×0.75 | 0.6 | 1.2 | 7.6 | 9.2 | 0.012 | 24.5 | 846 |
| 4×1.0 | 0.6 | 1.2 | 7.9 | 9.6 | 0.011 | 18.1 | 100 |
| 4×1.5 | 0.7 | 1.2 | 9.0 | 10.9 | 0.011 | 12.1 | 132 |
| 4×2.5 | 0.8 | 1.2 | 10.4 | 12.5 | 0.010 | 7.41 | 193 |
| 4×4 | 0.8 | 1.5 | 11.4 | 13.8 | 0.0085 | 4.61 | 315 |
| 4×6 | 0.8 | 1.5 | 13.2 | 15.9 | 0.0070 | 3.08 | 413 |
| 5×0.75 | 0.6 | 1.2 | 8.2 | 9.9 | 0.012 | 24.5 | 99 |
| 5×1.0 | 0.6 | 1.2 | 8.6 | 10.3 | 0.011 | 18.1 | 116 |
| 5×1.5 | 0.7 | 1.2 | 9.7 | 11.7 | 0.011 | 12.1 | 154 |
| 5×2.5 | 0.8 | 1.5 | 11.3 | 13.6 | 0.010 | 7.41 | 243 |
| 5×4 | 0.8 | 1.5 | 13.0 | 15.7 | 0.0085 | 4.61 | 383 |
| 5×6 | 0.8 | 1.5 | 14.3 | 17.3 | 0.0070 | 3.08 | 505 |
| 7×0.75 | 0.6 | 1.2 | 8.8 | 10.6 | 0.012 | 24.5 | 123 |
| 7×1.0 | 0.6 | 1.2 | 9.2 | 11.1 | 0.011 | 18.1 | 146 |
| 7×1.5 | 0.7 | 1.2 | 10.5 | 12.7 | 0.011 | 12.1 | 196 |
| 7×2.5 | 0.8 | 1.5 | 12.8 | 15.5 | 0.010 | 7.41 | 211 |
| 7×4 | 0.8 | 1.5 | 14.1 | 17.1 | 0.0085 | 4.61 | 473 |
| 7×6 | 0.8 | 1.5 | 15.6 | 18.8 | 0.0070 | 3.08 | 652 |

KVV型，ZR-KVV型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆

Type KVV, ZR-KVV 450/750V Copper conductor PVC insulated and sheathed control cable

表2 Table 2

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km | 近似重量 Approx weight (kg/km) |
|---|--|--|------------------------|---------|--|---|-------------------------------------|
| | | | 下限 min | 上限 max. | | | |
| 8×0.75 | 0.6 | 1.2 | 9.7 | 11.7 | 0.012 | 24.5 | 142 |
| 8×1.0 | 0.6 | 1.2 | 10.2 | 12.3 | 0.011 | 18.1 | 1168 |
| 8×1.5 | 0.7 | 1.5 | 11.7 | 14.1 | 0.011 | 12.1 | 243 |
| 8×2.5 | 0.8 | 1.5 | 14.3 | 17.2 | 0.010 | 7.41 | 360 |
| 8×4 | 0.8 | 1.5 | 15.8 | 19.0 | 0.0085 | 4.61 | 545 |
| 8×6 | 0.8 | 1.7 | 17.4 | 21.0 | 0.0070 | 3.08 | 748 |
| 10×0.75 | 0.6 | 1.2 | 10.8 | 13.1 | 0.012 | 24.5 | 187 |
| 10×1.0 | 0.6 | 1.5 | 11.4 | 13.8 | 0.011 | 18.1 | 221 |
| 10×1.5 | 0.7 | 1.5 | 13.7 | 16.6 | 0.011 | 12.1 | 296 |
| 10×2.5 | 0.8 | 1.5 | 16.0 | 19.4 | 0.010 | 7.41 | 440 |
| 10×4 | 0.8 | 1.7 | 17.8 | 21.5 | 0.0085 | 4.61 | 721 |
| 10×6 | 0.8 | 1.7 | 20.1 | 24.2 | 0.0070 | 3.08 | 956 |
| 12×0.75 | 0.6 | 1.5 | 11.2 | 13.5 | 0.012 | 24.5 | 211 |
| 12×1.0 | 0.6 | 1.5 | 11.8 | 14.2 | 0.011 | 18.1 | 250 |
| 12×1.5 | 0.7 | 1.5 | 14.2 | 17.1 | 0.011 | 12.1 | 338 |
| 12×2.5 | 0.8 | 1.5 | 16.5 | 20.0 | 0.010 | 7.41 | 507 |
| 12×4 | 0.8 | 1.7 | 18.7 | 22.6 | 0.0085 | 4.61 | 825 |
| 12×6 | 0.8 | 1.7 | 20.7 | 25.0 | 0.0070 | 3.08 | 1026 |
| 14×0.75 | 0.6 | 1.5 | 11.7 | 14.1 | 0.012 | 24.5 | 238 |
| 14×1.0 | 0.6 | 1.5 | 12.9 | 15.6 | 0.011 | 18.1 | 328 |
| 14×1.5 | 0.7 | 1.5 | 14.8 | 17.9 | 0.011 | 12.1 | 384 |
| 14×2.5 | 0.8 | 1.5 | 17.4 | 21.0 | 0.010 | 7.41 | 579 |
| 14×4 | 0.8 | 1.7 | 19.6 | 23.7 | 0.0085 | 4.61 | 959 |
| 14×6 | 0.8 | 1.7 | 21.8 | 26.3 | 0.0070 | 3.08 | 1246 |
| 16×0.75 | 0.6 | 1.5 | 12.9 | 15.5 | 0.012 | 24.5 | 2268 |
| 16×1.0 | 0.6 | 1.5 | 13.5 | 16.4 | 0.011 | 18.1 | 315 |
| 16×1.5 | 0.7 | 1.5 | 15.6 | 18.8 | 0.011 | 12.1 | 427 |
| 16×2.5 | 0.8 | 1.7 | 18.3 | 22.1 | 0.010 | 7.41 | 664 |
| 19×0.75 | 0.6 | 1.5 | 13.5 | 16.3 | 0.012 | 24.5 | 299 |
| 19×1.0 | 0.6 | 1.5 | 14.2 | 17.2 | 0.011 | 18.1 | 359 |

KVV型，ZR-KVV型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆

Type KVV, ZR-KVV 450/750V Copper conductor PVC insulated and sheathed control cable

表2 Table 2

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km | 近似重量 Approx weight (kg/km) |
|---|--|--|------------------------|---------|--|---|-------------------------------------|
| | | | 下限 min | 上限 max. | | | |
| 19×1.5 | 0.7 | 1.5 | 16.4 | 19.8 | 0.011 | 12.1 | 490 |
| 19×2.5 | 0.8 | 1.7 | 19.6 | 23.7 | 0.010 | 7.41 | 765 |
| 24×0.75 | 0.6 | 1.5 | 15.6 | 18.8 | 0.012 | 24.5 | 373 |
| 24×1.0 | 0.6 | 1.5 | 16.4 | 19.8 | 0.011 | 18.1 | 447 |
| 24×1.5 | 0.7 | 1.7 | 19.4 | 23.4 | 0.011 | 12.1 | 632 |
| 24×2.5 | 0.8 | 1.7 | 22.8 | 27.6 | 0.010 | 7.41 | 961 |
| 27×0.75 | 0.6 | 1.5 | 15.9 | 19.2 | 0.012 | 24.5 | 407 |
| 27×1.0 | 0.6 | 1.5 | 16.7 | 20.2 | 0.011 | 18.1 | 491 |
| 27×1.5 | 0.7 | 1.7 | 19.8 | 23.9 | 0.011 | 12.1 | 674 |
| 27×2.5 | 0.8 | 1.7 | 23.3 | 28.2 | 0.010 | 7.41 | 1061 |
| 30×0.75 | 0.6 | 1.5 | 16.4 | 19.8 | 0.012 | 24.5 | 445 |
| 30×1.0 | 0.6 | 1.7 | 17.5 | 20.5 | 0.011 | 18.1 | 554 |
| 30×1.5 | 0.7 | 1.7 | 20.0 | 23.0 | 0.011 | 12.1 | 761 |
| 30×2.5 | 0.8 | 1.7 | 24.0 | 27.0 | 0.010 | 7.41 | 1167 |
| 37×0.75 | 0.6 | 1.7 | 17.5 | 20.5 | 0.012 | 24.5 | 544 |
| 37×1.0 | 0.6 | 1.7 | 19.0 | 23.0 | 0.011 | 18.1 | 658 |
| 37×1.5 | 0.7 | 1.7 | 22.0 | 26.6 | 0.011 | 12.1 | 908 |
| 37×2.5 | 0.8 | 1.7 | 26.1 | 31.5 | 0.010 | 7.41 | 1401 |
| 44×0.75 | 0.6 | 1.7 | 20.1 | 24.2 | 0.012 | 24.5 | 642 |
| 44×1.0 | 0.6 | 1.7 | 21.2 | 25.6 | 0.011 | 18.1 | 777 |
| 44×1.5 | 0.7 | 1.7 | 24.7 | 29.8 | 0.011 | 12.1 | 1074 |
| 44×2.5 | 0.8 | 2.0 | 29.9 | 36.1 | 0.010 | 7.41 | 1702 |
| 52×0.75 | 0.6 | 1.7 | 20.9 | 25.3 | 0.012 | 24.5 | 737 |
| 52×1.0 | 0.6 | 1.7 | 22.1 | 26.7 | 0.011 | 18.1 | 896 |
| 52×1.5 | 0.7 | 1.7 | 25.8 | 31.1 | 0.011 | 12.1 | 1243 |
| 52×2.5 | 0.8 | 2.0 | 31.2 | 37.7 | 0.010 | 7.41 | 1973 |
| 61×0.75 | 0.6 | 1.7 | 21.9 | 26.5 | 0.012 | 24.5 | 843 |
| 61×1.0 | 0.6 | 1.7 | 23.2 | 28.0 | 0.011 | 18.1 | 1027 |
| 61×1.5 | 0.7 | 2.0 | 27.0 | 32.7 | 0.011 | 12.1 | 1468 |
| 61×2.5 | 0.8 | 2.2 | 33.1 | 40.0 | 0.010 | 7.41 | 2306 |

KVVP₂型, KVVP₃型, ZR-KVVP₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套铜带(铝塑复合带)屏蔽控制电缆

Type KVVP₂, KVVP₃, ZR-KVVP₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield(Aluminum-plastic composite belt)

表3 Table 3

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 铜带厚度 (铝塑复合带) Nom thickness of copper tape (Aluminum-plastic composite belt) mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter mm | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ·km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km | 近似重量 Approx weight (kg/km) |
|---|---|--|--|------------------------------|--------|--|---|-------------------------------------|
| | | | | 下限min | 上限max. | | | |
| 4×0.75 | 0.6 | 0.05–0.10 | 1.2 | 8.1 | 9.7 | 0.012 | 24.5 | 144 |
| 4×1.0 | 0.6 | 0.05–0.10 | 1.2 | 8.4 | 10.2 | 0.011 | 18.1 | 153 |
| 4×1.5 | 0.7 | 0.05–0.10 | 1.2 | 9.5 | 11.4 | 0.011 | 12.1 | 190 |
| 4×2.5 | 0.8 | 0.05–0.10 | 1.5 | 10.9 | 13.1 | 0.010 | 7.41 | 276 |
| 4×4 | 0.8 | 0.05–0.10 | 1.5 | 12.5 | 15.1 | 0.0085 | 4.61 | 367 |
| 4×6 | 0.8 | 0.05–0.10 | 1.5 | 13.6 | 16.5 | 0.0070 | 3.08 | 467 |
| 4×10 | 1.0 | 0.05–0.10 | 1.7 | 17.1 | 20.7 | 0.0065 | 1.83 | 728 |
| 5×0.75 | 0.6 | 0.05–0.10 | 1.2 | 8.6 | 10.4 | 0.012 | 24.5 | 153 |
| 5×1.0 | 0.6 | 0.05–0.10 | 1.2 | 9.0 | 10.9 | 0.011 | 18.1 | 173 |
| 5×1.5 | 0.7 | 0.05–0.10 | 1.5 | 10.2 | 12.3 | 0.011 | 12.1 | 226 |
| 5×2.5 | 0.8 | 0.05–0.10 | 1.5 | 11.8 | 14.2 | 0.010 | 7.41 | 325 |
| 5×4 | 0.8 | 0.05–0.10 | 1.5 | 13.5 | 16.3 | 0.0085 | 4.61 | 437 |
| 5×6 | 0.8 | 0.05–0.10 | 1.5 | 14.8 | 17.9 | 0.0070 | 3.08 | 576 |
| 5×10 | 1.0 | 0.05–0.10 | 1.7 | 19.1 | 23.0 | 0.0065 | 1.83 | 924 |
| 7×0.75 | 0.6 | 0.05–0.10 | 1.2 | 9.3 | 11.2 | 0.012 | 24.5 | 178 |
| 7×1.0 | 0.6 | 0.05–0.10 | 1.2 | 9.7 | 11.7 | 0.011 | 18.1 | 209 |
| 7×1.5 | 0.7 | 0.05–0.10 | 1.5 | 11.0 | 13.3 | 0.011 | 12.1 | 239 |
| 7×2.5 | 0.8 | 0.05–0.10 | 1.5 | 13.3 | 16.1 | 0.010 | 7.41 | 398 |
| 7×4 | 0.8 | 0.05–0.10 | 1.5 | 14.6 | 17.6 | 0.0085 | 4.61 | 528 |
| 7×6 | 0.8 | 0.05–0.10 | 1.5 | 16.0 | 19.4 | 0.0070 | 3.08 | 717 |
| 7×10 | 1.0 | 0.05–0.10 | 1.7 | 20.7 | 25.1 | 0.0065 | 1.83 | 1145 |
| 8×0.75 | 0.6 | 0.05–0.10 | 1.5 | 10.2 | 12.3 | 0.012 | 24.5 | 206 |
| 8×1.0 | 0.6 | 0.05–0.10 | 1.5 | 10.7 | 12.9 | 0.011 | 18.1 | 230 |
| 8×1.5 | 0.7 | 0.05–0.10 | 1.5 | 12.8 | 15.4 | 0.011 | 12.1 | 312 |
| 8×2.5 | 0.8 | 0.05–0.10 | 1.5 | 14.7 | 17.8 | 0.010 | 7.41 | 486 |
| 8×4 | 0.8 | 0.05–0.10 | 1.7 | 16.2 | 19.6 | 0.0085 | 4.61 | 589 |
| 8×6 | 0.8 | 0.05–0.10 | 1.7 | 17.9 | 21.6 | 0.0070 | 3.08 | 790 |
| 8×10 | 1.0 | 0.05–0.10 | 1.7 | 23.2 | 28.1 | 0.0065 | 1.83 | 1236 |
| 10×0.75 | 0.6 | 0.05–0.10 | 1.5 | 11.3 | 13.7 | 0.012 | 24.5 | 214 |
| 10×1.0 | 0.6 | 0.05–0.10 | 1.5 | 12.5 | 15.1 | 0.011 | 18.1 | 300 |

KVVP₂型, KVVP₃型, ZR-KVVP₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套铜带(铝塑复合带)屏蔽控制电缆

Type KVVP₂, KVVP₃, ZR-KVVP₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield(Aluminum-plastic composite belt)

续表3 Table 3

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 铜带厚度 (铝塑复合带) Nom thickness of copper tape (Aluminum-plastic composite belt) mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter mm | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ·km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km | 近似重量 Approx weight (kg/km) |
|---|---|--|--|------------------------------|--------|--|---|-------------------------------------|
| | | | | 下限min | 上限max. | | | |
| 10×1.5 | 0.7 | 0.05–0.10 | 1.5 | 14.2 | 17.2 | 0.011 | 12.1 | 367 |
| 10×2.5 | 0.8 | 0.05–0.10 | 1.7 | 16.5 | 20.0 | 0.010 | 7.41 | 572 |
| 10×4 | 0.8 | 0.05–0.10 | 1.7 | 18.6 | 22.5 | 0.0085 | 4.61 | 787 |
| 10×6 | 0.8 | 0.05–0.10 | 1.7 | 20.5 | 24.8 | 0.0070 | 3.08 | 992 |
| 10×10 | 1.0 | 0.05–0.10 | 1.7 | 26.3 | 31.8 | 0.0065 | 1.83 | 1590 |
| 12×0.75 | 0.6 | 0.05–0.10 | 1.5 | 11.7 | 14.1 | 0.012 | 24.5 | 280 |
| 12×1.0 | 0.6 | 0.05–0.10 | 1.5 | 12.8 | 15.5 | 0.011 | 18.1 | 315 |
| 12×1.5 | 0.7 | 0.05–0.10 | 1.5 | 14.6 | 17.7 | 0.011 | 12.1 | 423 |
| 12×2.5 | 0.8 | 0.05–0.10 | 1.7 | 17.0 | 20.6 | 0.010 | 7.41 | 654 |
| 12×4 | 0.8 | 0.05–0.10 | 1.7 | 19.2 | 23.2 | 0.0085 | 4.61 | 887 |
| 12×6 | 0.8 | 0.05–0.10 | 1.7 | 21.2 | 25.6 | 0.0070 | 3.08 | 1198 |
| 14×0.75 | 0.6 | 0.05–0.10 | 1.5 | 12.2 | 14.7 | 0.012 | 24.5 | 312 |
| 14×1.0 | 0.6 | 0.05–0.10 | 1.5 | 13.4 | 16.2 | 0.011 | 18.1 | 398 |
| 14×1.5 | 0.7 | 0.05–0.10 | 1.5 | 15.3 | 18.5 | 0.011 | 12.1 | 492 |
| 14×2.5 | 0.8 | 0.05–0.10 | 1.7 | 17.8 | 21.5 | 0.010 | 7.41 | 721 |
| 14×4 | 0.8 | 0.05–0.10 | 1.7 | 20.1 | 24.3 | 0.0085 | 4.61 | 973 |
| 14×6 | 0.8 | 0.05–0.10 | 1.7 | 22.2 | 26.9 | 0.0070 | 3.08 | 1203 |
| 16×0.75 | 0.6 | 0.05–0.10 | 1.5 | 13.3 | 16.1 | 0.012 | 24.5 | 340 |
| 16×1.0 | 0.6 | 0.05–0.10 | 1.5 | 14.0 | 16.9 | 0.011 | 18.1 | 389 |
| 16×1.5 | 0.7 | 0.05–0.10 | 1.5 | 16.1 | 19.4 | 0.011 | 12.1 | 489 |
| 16×2.5 | 0.8 | 0.05–0.10 | 1.7 | 19.1 | 23.1 | 0.010 | 7.41 | 789 |
| 19×0.75 | 0.6 | 0.05–0.10 | 1.5 | 14.0 | 16.9 | 0.012 | 24.5 | 386 |
| 19×1.0 | 0.6 | 0.05–0.10 | 1.5 | 14.7 | 17.7 | 0.011 | 18.1 | 413 |
| 19×1.5 | 0.7 | 0.05–0.10 | 1.7 | 16.8 | 20.4 | 0.011 | 12.1 | 612 |
| 19×2.5 | 0.8 | 0.05–0.10 | 1.7 | 20.1 | 24.3 | 0.010 | 7.41 | 986 |
| 24×0.75 | 0.6 | 0.05–0.10 | 1.5 | 16.0 | 19.4 | 0.012 | 24.5 | 476 |
| 24×1.0 | 0.6 | 0.05–0.10 | 1.7 | 16.9 | 20.4 | 0.011 | 18.1 | 580 |
| 24×1.5 | 0.7 | 0.05–0.10 | 1.7 | 19.9 | 24.0 | 0.011 | 12.1 | 792 |
| 24×2.5 | 0.8 | 0.05–0.10 | 1.7 | 23.3 | 28.2 | 0.010 | 7.41 | 1179 |
| 27×0.75 | 0.6 | 0.05–0.10 | 1.7 | 16.3 | 19.1 | 0.012 | 24.5 | 503 |

KVVP₂型, KVVP₃型, ZR-KVVP₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套铜带(铝塑复合带)屏蔽控制电缆
Type KVVP₂, KVVP₃, ZR-KVVP₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield (Aluminum-plastic composite belt)

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 铜带厚度 (铝塑复合带) Nom thickness of copper tape (Aluminum-plastic composite belt) mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 | | 最小绝缘电阻 | 最大直流电阻 | 近似重量 Approx weight (kg/km) |
|---|---|--|--|----------------------|--------|---|------------------------------------|-------------------------------------|
| | | | | Pitch diameter mm | | Min resistance of insulation at 70°C | Max.D.C resis- tance of at 20°C | |
| | | | | 下限min | 上限max. | MΩ/km | MΩ/km | |
| 27×1.0 | 0.6 | 0.05~0.10 | 1.7 | 17.2 | 20.8 | 0.011 | 18.1 | 612 |
| 27×1.5 | 0.7 | 0.05~0.10 | 1.7 | 20.3 | 24.5 | 0.011 | 12.1 | 886 |
| 27×2.5 | 0.8 | 0.05~0.10 | 1.7 | 23.8 | 28.8 | 0.010 | 7.41 | 1286 |
| 30×0.75 | 0.6 | 0.05~0.10 | 1.7 | 16.9 | 20.4 | 0.012 | 24.5 | 600 |
| 30×1.0 | 0.6 | 0.05~0.10 | 1.7 | 17.8 | 21.5 | 0.011 | 18.1 | 725 |
| 30×1.5 | 0.7 | 0.05~0.10 | 1.7 | 21.0 | 25.3 | 0.011 | 12.1 | 891 |
| 30×2.5 | 0.8 | 0.05~0.10 | 1.7 | 24.6 | 28.8 | 0.010 | 7.41 | 1384 |
| 37×0.75 | 0.6 | 0.05~0.10 | 1.7 | 18.1 | 21.9 | 0.012 | 24.5 | 688 |
| 37×1.0 | 0.6 | 0.05~0.10 | 1.7 | 19.5 | 23.5 | 0.011 | 18.1 | 887 |
| 37×1.5 | 0.7 | 0.05~0.10 | 1.7 | 22.5 | 27.2 | 0.011 | 12.1 | 1105 |
| 37×2.5 | 0.8 | 0.05~0.10 | 2.0 | 26.5 | 32.1 | 0.010 | 7.41 | 1681 |
| 44×0.75 | 0.6 | 0.05~0.10 | 1.7 | 20.5 | 24.8 | 0.012 | 24.5 | 809 |
| 44×1.0 | 0.6 | 0.05~0.10 | 1.7 | 21.7 | 26.2 | 0.011 | 18.1 | 987 |
| 44×1.5 | 0.7 | 0.05~0.10 | 1.7 | 25.2 | 30.4 | 0.011 | 12.1 | 1315 |
| 44×2.5 | 0.8 | 0.05~0.10 | 2.0 | 30.3 | 36.7 | 0.010 | 7.41 | 2018 |
| 48×0.75 | 0.6 | 0.05~0.10 | 1.7 | 20.9 | 25.2 | 0.012 | 24.5 | 910 |
| 48×1.0 | 0.6 | 0.05~0.10 | 1.7 | 22.0 | 26.6 | 0.011 | 18.1 | 1028 |
| 48×1.5 | 0.7 | 0.05~0.10 | 1.7 | 25.5 | 30.9 | 0.011 | 12.1 | 1307 |
| 48×2.5 | 0.8 | 0.05~0.10 | 2.0 | 30.8 | 37.2 | 0.010 | 7.41 | 2097 |
| 52×0.75 | 0.6 | 0.05~0.10 | 1.7 | 21.4 | 25.8 | 0.012 | 24.5 | 935 |
| 52×1.0 | 0.6 | 0.05~0.10 | 1.7 | 22.6 | 27.3 | 0.011 | 18.1 | 1113 |
| 52×1.5 | 0.7 | 0.05~0.10 | 2.0 | 26.2 | 31.7 | 0.011 | 12.1 | 1493 |
| 52×2.5 | 0.8 | 0.05~0.10 | 2.2 | 31.7 | 38.2 | 0.010 | 7.41 | 2298 |
| 61×0.75 | 0.6 | 0.05~0.10 | 1.7 | 22.6 | 27.3 | 0.012 | 24.5 | 1025 |
| 61×1.0 | 0.6 | 0.05~0.10 | 1.7 | 23.9 | 28.9 | 0.011 | 18.1 | 1250 |
| 61×1.5 | 0.7 | 0.05~0.10 | 2.0 | 28.4 | 34.3 | 0.011 | 12.1 | 1745 |
| 61×2.5 | 0.8 | 0.05~0.10 | 2.2 | 33.9 | 41.0 | 0.010 | 7.41 | 2599 |

KVV₂₂型, ZR-KVV₂₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Type KVV₂₂, ZR-KVV₂₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 钢带层数×厚度 Nom thickness of copper tape mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 | | 最小绝缘电阻 Min resistance of insulation at 70°C | 最大直流电阻 Max.D.C resis- tance of at 20°C | 近似重量 Approx weight (kg/km) |
|---|---|--|--|----------------------|-------|---|--|-------------------------------------|
| | | | | Pitch diameter mm | 下限min | 上限max. | 上限max. | |
| 4×2.5 | 0.8 | 2×0.2(0.3) | 1.5 | 13.4 | 16.1 | 0.010 | 7.41 | |
| 4×4 | 0.8 | 2×0.2(0.3) | 1.5 | 14.4 | 17.4 | 0.0085 | 4.61 | 505 |
| 4×6 | 0.8 | 2×0.2(0.3) | 1.5 | 15.6 | 18.8 | 0.0070 | 3.08 | 619 |
| 4×10 | 1.0 | 2×0.2(0.3) | 1.7 | 19.4 | 23.5 | 0.0065 | 1.83 | 947 |
| 5×2.5 | 0.8 | 2×0.2(0.3) | 1.5 | 14.3 | 17.2 | 0.010 | 7.41 | |
| 5×4 | 0.8 | 2×0.2(0.3) | 1.5 | 15.4 | 18.6 | 0.0085 | 4.61 | 586 |
| 5×6 | 0.8 | 2×0.2(0.3) | 1.7 | 16.7 | 20.2 | 0.0070 | 3.08 | 737 |
| 5×10 | 1.0 | 2×0.2(0.3) | 1.7 | 21.0 | 25.4 | 0.0065 | 1.83 | 1125 |
| 7×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 11.8 | 14.2 | 0.012 | 24.5 | 317 |
| 7×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 12.2 | 14.7 | 0.011 | 18.1 | 354 |
| 7×1.5 | 0.7 | 2×0.2(0.3) | 1.5 | 13.5 | 16.3 | 0.011 | 12.1 | 425 |
| 7×2.5 | 0.8 | 2×0.2(0.3) | 1.5 | 15.2 | 18.4 | 0.010 | 7.41 | 554 |
| 7×4 | 0.8 | 2×0.2(0.3) | 1.5 | 16.5 | 20.0 | 0.0085 | 4.61 | 701 |
| 7×6 | 0.8 | 2×0.2(0.3) | 1.7 | 18.0 | 21.7 | 0.0070 | 3.08 | 900 |
| 7×10 | 1.0 | 2×0.2(0.3) | 1.7 | 22.7 | 27.4 | 0.0065 | 1.83 | 1397 |
| 8×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 12.5 | 15.3 | 0.012 | 24.5 | 344 |
| 8×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 13.2 | 15.9 | 0.011 | 18.1 | 378 |
| 8×1.5 | 0.7 | 2×0.2(0.3) | 1.5 | 14.7 | 17.7 | 0.011 | 12.1 | 467 |
| 8×2.5 | 0.8 | 2×0.2(0.3) | 1.5 | 16.7 | 20.1 | 0.010 | 7.41 | 614 |
| 8×4 | 0.8 | 2×0.2(0.3) | 1.7 | 18.2 | 21.9 | 0.0085 | 4.61 | 789 |
| 8×6 | 0.8 | 2×0.2(0.3) | 1.7 | 20.2 | 24.4 | 0.0070 | 3.08 | 989 |
| 8×10 | 1.0 | 2×0.2(0.3) | 1.7 | 25.2 | 30.4 | 0.0065 | 1.83 | 1540 |
| 10×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 13.8 | 16.7 | 0.012 | 24.5 | 449 |
| 10×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 14.4 | 17.4 | 0.011 | 18.1 | 558 |
| 10×1.5 | 0.7 | 2×0.2(0.3) | 1.5 | 16.1 | 19.5 | 0.011 | 12.1 | 753 |
| 10×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 18.8 | 22.7 | 0.010 | 7.41 | 956 |
| 10×4 | 0.8 | 2×0.2(0.3) | 1.7 | 20.5 | 24.8 | 0.0085 | 4.61 | 1203 |
| 10×6 | 0.8 | 2×0.2(0.3) | 1.7 | 22.5 | 27.1 | 0.0070 | 3.08 | |
| 10×10 | 1.0 | 2×0.2(0.3) | 2.0 | 29.2 | 35.3 | 0.0065 | 1.83 | |
| 12×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 14.1 | 17.1 | 0.012 | 24.5 | |

KVV²²型，ZR-KVV²²型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Type KVV²², ZR-KVV²² 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 钢带层数×厚度 Nom thickness of copper tape mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 | | 最小绝缘电阻 | 最大直流电阻 | 近似重量 Approx weight (kg/km) |
|---|---|---|---|----------------------|--------|---|------------------------------------|-------------------------------------|
| | | | | Pitch diameter mm | | Min resistance of insulation at 70°C | Max.D.C resis- tance of at 20°C | |
| | | | | 下限min | 上限max. | MΩ/km | MΩ/km | |
| 12×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 14.8 | 17.8 | 0.011 | 18.1 | |
| 12×1.5 | 0.7 | 2×0.2(0.3) | 1.5 | 16.6 | 20.0 | 0.011 | 12.1 | 485 |
| 12×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 19.3 | 23.4 | 0.010 | 7.41 | 609 |
| 12×4 | 0.8 | 2×0.2(0.3) | 1.7 | 21.1 | 25.5 | 0.0085 | 4.61 | 829 |
| 12×6 | 0.8 | 2×0.2(0.3) | 1.7 | 23.1 | 27.9 | 0.0070 | 3.08 | 1061 |
| 14×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 14.7 | 17.7 | 0.012 | 24.5 | 412 |
| 14×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 15.3 | 18.5 | 0.011 | 18.1 | 530 |
| 14×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 17.2 | 20.8 | 0.011 | 12.1 | 684 |
| 14×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 20.1 | 24.3 | 0.010 | 7.41 | 913 |
| 14×4 | 0.8 | 2×0.2(0.3) | 1.7 | 22.0 | 26.6 | 0.0085 | 4.61 | 1171 |
| 14×6 | 0.8 | 2×0.2(0.3) | 1.7 | 24.2 | 29.2 | 0.0070 | 3.08 | 1508 |
| 16×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 15.3 | 18.5 | 0.012 | 24.5 | 576 |
| 16×1.0 | 0.6 | 2×0.2(0.3) | 1.5 | 16.0 | 19.3 | 0.011 | 18.1 | 745 |
| 16×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 18.0 | 21.7 | 0.011 | 12.1 | 1005 |
| 16×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 21.1 | 25.5 | 0.010 | 7.41 | 1350 |
| 19×0.75 | 0.6 | 2×0.2(0.3) | 1.5 | 15.9 | 19.2 | 0.012 | 24.5 | 646 |
| 19×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 16.6 | 20.1 | 0.011 | 18.1 | 824 |
| 19×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 19.2 | 23.1 | 0.011 | 12.1 | 1199 |
| 19×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 22.0 | 26.6 | 0.010 | 7.41 | 1480 |
| 24×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 18.0 | 21.7 | 0.012 | 24.5 | 776 |
| 24×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 19.2 | 23.2 | 0.011 | 18.1 | 1001 |
| 24×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 21.8 | 26.3 | 0.011 | 12.1 | 1376 |
| 24×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 25.6 | 31.0 | 0.010 | 7.41 | 1590 |
| 27×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 18.7 | 22.5 | 0.012 | 24.5 | 821 |
| 27×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 19.5 | 23.6 | 0.011 | 18.1 | 1063 |
| 27×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 22.2 | 26.8 | 0.011 | 12.1 | 1480 |
| 27×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 26.1 | 31.6 | 0.010 | 7.41 | 1730 |
| 30×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 19.2 | 23.2 | 0.012 | 24.5 | 833 |
| 30×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 20.1 | 24.3 | 0.011 | 18.1 | 1550 |
| 30×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 22.9 | 27.6 | 0.011 | 12.1 | 1808 |
| 30×2.5 | 0.8 | 2×0.2(0.3) | 1.7 | 27.0 | 32.6 | 0.010 | 7.41 | 2050 |

KVV²²型，ZR-KVV²²型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆

Type KVV²², ZR-KVV²² 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shield

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 钢带层数×厚度 Nom thickness of copper tape mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 | | 最小绝缘电阻 | 最大直流电阻 | 近似重量 Approx weight (kg/km) |
|---|---|---|---|----------------------|--------|---|------------------------------------|-------------------------------------|
| | | | | Pitch diameter mm | | Min resistance of insulation at 70°C | Max.D.C resis- tance of at 20°C | |
| | | | | 下限min | 上限max. | MΩ/km | MΩ/km | |
| 37×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 20.4 | 24.7 | 0.012 | 24.5 | 1013 |
| 37×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 21.4 | 25.9 | 0.011 | 18.1 | 1331 |
| 37×1.5 | 0.7 | 2×0.2(0.3) | 1.7 | 24.4 | 29.5 | 0.011 | 12.1 | 2139 |
| 37×2.5 | 0.8 | 2×0.2(0.3) | 2.0 | 29.4 | 35.6 | 0.010 | 7.41 | 2370 |
| 44×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 22.5 | 27.1 | 0.012 | 24.5 | 1120 |
| 44×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 23.6 | 28.5 | 0.011 | 18.1 | 1584 |
| 44×1.5 | 0.7 | 2×0.2(0.3) | 2.0 | 28.0 | 33.9 | 0.011 | 12.1 | 2320 |
| 44×2.5 | 0.8 | 2×0.5 | 2.0 | 33.0 | 39.9 | 0.010 | 7.41 | 2532 |
| 48×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 22.8 | 27.5 | 0.012 | 24.5 | 1160 |
| 48×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 24.0 | 28.9 | 0.011 | 18.1 | 1630 |
| 48×1.5 | 0.7 | 2×0.5 | 2.0 | 28.4 | 34.4 | 0.011 | 12.1 | 2530 |
| 48×2.5 | 0.8 | 2×0.5 | 2.2 | 33.5 | 40.5 | 0.010 | 7.41 | 2662 |
| 52×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 23.3 | 28.2 | 0.012 | 24.5 | 1210 |
| 52×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 24.5 | 29.6 | 0.011 | 18.1 | 1750 |
| 52×1.5 | 0.7 | 2×0.5 | 2.0 | 29.1 | 35.2 | 0.011 | 12.1 | 2580 |
| 52×2.5 | 0.8 | 2×0.5 | 2.2 | 35.5 | 42.9 | 0.010 | 7.41 | 2710 |
| 61×0.75 | 0.6 | 2×0.2(0.3) | 1.7 | 24.5 | 29.6 | 0.012 | 24.5 | 1280 |
| 61×1.0 | 0.6 | 2×0.2(0.3) | 1.7 | 26.2 | 31.7 | 0.011 | 18.1 | 1930 |
| 61×1.5 | 0.7 | 2×0.5 | 2.0 | 30.7 | 37.1 | 0.011 | 12.1 | 2770 |
| 61×2.5 | 0.8 | 2×0.5 | 2.2 | 37.4 | 45.2 | 0.010 | 7.41 | 3175 |

KVVR型，ZR-KVVR型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

Type KVVR, ZR-KVVR 450/750V Copper conductor PVC insulated and sheathed flexible control cable

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 | | 最小绝缘电阻 | 最大直流电阻 |
|---|---|---|----------------------|--------|--|---|
| | | | Pitch diameter mm | | Min resistance of insulation at 70°C MΩ/km | Max.D.C resis- tance of at 20°C MΩ/km |
| | | | 下限min | 上限max. | | |
| 4×0.5 | 0.6 | 1.2 | 7.3 | 9.2 | 0.013 | 39.0 |
| 4×0.75 | 0.6 | 1.2 | 7.6 | 9.6 | 0.011 | 26.0 |
| 4×1.0</ | | | | | | |

KVVR型, ZR-KVVR型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

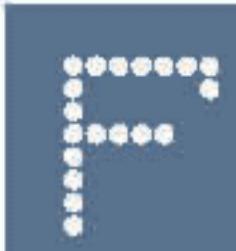
Type KVVR, ZR-KVVR 450/750V Copper conductor PVC insulated and sheathed flexible control cable

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter mm | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km |
|---|--|--|------------------------------|--------|--|---|
| | | | 下限min | 上限max. | | |
| 4×2.5 | 0.8 | 1.2 | 10.5 | 13.1 | 0.009 | 7.98 |
| 5×0.5 | 0.6 | 1.2 | 7.9 | 9.9 | 0.013 | 39.0 |
| 5×0.75 | 0.6 | 1.2 | 8.3 | 10.3 | 0.011 | 26.0 |
| 5×1.0 | 0.6 | 1.2 | 8.6 | 10.8 | 0.010 | 19.5 |
| 5×1.5 | 0.7 | 1.2 | 9.8 | 12.2 | 0.010 | 13.3 |
| 5×2.5 | 0.8 | 1.5 | 11.5 | 14.3 | 0.009 | 7.98 |
| 7×0.5 | 0.6 | 1.2 | 8.5 | 10.6 | 0.013 | 39.0 |
| 7×0.75 | 0.6 | 1.2 | 8.9 | 11.1 | 0.011 | 26.0 |
| 7×1.0 | 0.6 | 1.2 | 9.3 | 11.7 | 0.010 | 19.5 |
| 7×1.5 | 0.7 | 1.2 | 10.6 | 13.2 | 0.010 | 13.3 |
| 7×2.5 | 0.8 | 1.5 | 13.1 | 16.2 | 0.009 | 7.98 |
| 8×0.5 | 0.6 | 1.2 | 9.4 | 11.7 | 0.013 | 39.0 |
| 8×0.75 | 0.6 | 1.2 | 9.9 | 12.3 | 0.011 | 26.0 |
| 8×1.0 | 0.6 | 1.2 | 10.4 | 12.9 | 0.010 | 19.5 |
| 8×1.5 | 0.7 | 1.5 | 12.5 | 15.4 | 0.010 | 13.3 |
| 8×2.5 | 0.8 | 1.5 | 14.6 | 18.0 | 0.009 | 7.98 |
| 10×0.5 | 0.6 | 1.2 | 10.5 | 13.1 | 0.013 | 39.0 |
| 10×0.75 | 0.6 | 1.2 | 11.1 | 13.8 | 0.011 | 26.0 |
| 10×1.0 | 0.6 | 1.5 | 12.3 | 15.2 | 0.010 | 19.5 |
| 10×1.5 | 0.7 | 1.5 | 14.0 | 17.3 | 0.010 | 13.3 |
| 10×2.5 | 0.8 | 1.5 | 16.5 | 20.3 | 0.009 | 7.98 |
| 12×0.5 | 0.6 | 1.2 | 10.9 | 13.5 | 0.013 | 39.0 |
| 12×0.75 | 0.6 | 1.5 | 11.5 | 14.2 | 0.011 | 26.0 |
| 12×1.0 | 0.6 | 1.5 | 12.7 | 15.7 | 0.010 | 19.5 |
| 12×1.5 | 0.7 | 1.5 | 14.4 | 17.8 | 0.010 | 13.3 |
| 12×2.5 | 0.8 | 1.5 | 17.0 | 21.0 | 0.009 | 7.98 |
| 14×0.5 | 0.6 | 1.2 | 11.4 | 14.1 | 0.013 | 39.0 |
| 14×0.75 | 0.6 | 1.5 | 12.6 | 15.6 | 0.011 | 26.0 |
| 14×1.0 | 0.6 | 1.5 | 13.2 | 16.4 | 0.010 | 19.5 |
| 14×1.5 | 0.7 | 1.5 | 15.1 | 18.7 | 0.010 | 13.3 |

KVVR型, ZR-KVVR型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

Type KVVR, ZR-KVVR 450/750V Copper conductor PVC insulated and sheathed flexible control cable

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter mm | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km |
|---|--|--|------------------------------|--------|--|---|
| | | | 下限min | 上限max. | | |
| 14×2.5 | 0.8 | 1.5 | 17.9 | 22.0 | 0.009 | 7.98 |
| 16×0.5 | 0.6 | 1.5 | 12.6 | 15.5 | 0.013 | 39.0 |
| 16×0.75 | 0.6 | 1.5 | 13.2 | 16.4 | 0.011 | 26.0 |
| 16×1.0 | 0.6 | 1.5 | 13.9 | 17.2 | 0.010 | 19.5 |
| 16×1.5 | 0.7 | 1.5 | 16.0 | 19.6 | 0.010 | 13.3 |
| 16×2.5 | 0.8 | 1.7 | 19.3 | 23.6 | 0.009 | 7.98 |
| 19×0.5 | 0.6 | 1.5 | 13.2 | 16.3 | 0.013 | 39.0 |
| 19×0.75 | 0.6 | 1.5 | 13.9 | 17.2 | 0.011 | 26.0 |
| 19×1.0 | 0.6 | 1.5 | 14.6 | 18.0 | 0.010 | 19.5 |
| 19×1.5 | 0.7 | 1.5 | 16.8 | 20.6 | 0.010 | 13.3 |
| 19×2.5 | 0.8 | 1.7 | 20.3 | 24.9 | 0.009 | 7.98 |
| 24×0.5 | 0.6 | 1.5 | 15.3 | 18.8 | 0.013 | 39.0 |
| 24×0.75 | 0.6 | 1.5 | 16.1 | 19.8 | 0.011 | 26.0 |
| 24×1.0 | 0.6 | 1.5 | 17.0 | 20.9 | 0.010 | 19.5 |
| 24×1.5 | 0.7 | 1.7 | 20.0 | 24.5 | 0.010 | 13.3 |
| 24×2.5 | 0.8 | 1.7 | 23.7 | 29.0 | 0.009 | 7.98 |
| 27×0.5 | 0.6 | 1.5 | 15.6 | 19.2 | 0.013 | 39.0 |
| 27×0.75 | 0.6 | 1.5 | 16.4 | 20.2 | 0.011 | 26.0 |
| 27×1.0 | 0.6 | 1.5 | 17.3 | 21.3 | 0.010 | 19.5 |
| 27×1.5 | 0.7 | 1.7 | 20.4 | 25.0 | 0.010 | 13.3 |
| 27×2.5 | 0.8 | 1.7 | 24.2 | 29.6 | 0.009 | 7.98 |
| 30×0.5 | 0.6 | 1.5 | 16.1 | 19.8 | 0.013 | 39.0 |
| 30×0.75 | 0.6 | 1.5 | 17.0 | 20.9 | 0.011 | 26.0 |
| 30×1.0 | 0.6 | 1.7 | 17.9 | 22.0 | 0.010 | 19.5 |
| 30×1.5 | 0.7 | 1.7 | 21.1 | 25.9 | 0.010 | 13.3 |
| 30×2.5 | 0.8 | 1.7 | 25.1 | 30.7 | 0.009 | 7.98 |
| 37×0.5 | 0.6 | 1.5 | 17.3 | 21.3 | 0.013 | 39.0 |
| 37×0.75 | 0.6 | 1.7 | 18.7 | 23.0 | 0.011 | 26.0 |
| 37×1.0 | 0.6 | 1.7 | 19.7 | 24.2 | 0.010 | 19.5 |
| 37×1.5 | 0.7 | 1.7 | 22.7 | 27.8 | 0.010 | 13.3 |



控制电缆

CONTROL CABLES

KVVR型, ZR-KVVR型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

Type KVVR, ZR-KVVR 450/750V Copper conductor PVC insulated and sheathed flexible control cable

续表5 Table 5

| 芯数×标称截面 Cross × Nom cross-sectional area mm ² | 绝缘标称厚度 Nom thickness of insulation mm | 护套标称厚度 Nom thickness of sheath mm | 平均外径 Pitch diameter mm | | 最小绝缘电阻 Min resistance of insulation at 70°C MΩ/km | 最大直流电阻 Max.D.C resis- tance of at 20°C MΩ/km |
|---|--|--|------------------------------|--------|--|---|
| | | | 下限min | 上限max. | | |
| 37×2.5 | 0.8 | 1.7 | 27.7 | 33.8 | 0.009 | 7.98 |
| 44×0.5 | 0.6 | 1.7 | 19.8 | 24.2 | 0.013 | 39.0 |
| 44×0.75 | 0.6 | 1.7 | 20.9 | 25.6 | 0.011 | 26.0 |
| 44×1.0 | 0.6 | 1.7 | 22.1 | 27.0 | 0.010 | 19.5 |
| 44×1.5 | 0.7 | 1.7 | 25.5 | 31.2 | 0.010 | 13.3 |
| 44×2.5 | 0.8 | 2.0 | 31.1 | 37.9 | 0.009 | 7.98 |
| 48×0.5 | 0.6 | 1.7 | 20.1 | 24.6 | 0.013 | 39.0 |
| 48×0.75 | 0.6 | 1.7 | 21.2 | 26.0 | 0.011 | 26.0 |
| 48×1.0 | 0.6 | 1.7 | 22.4 | 27.5 | 0.010 | 19.5 |
| 48×1.5 | 0.7 | 1.7 | 25.9 | 31.7 | 0.010 | 13.3 |
| 48×2.5 | 0.8 | 2.0 | 31.6 | 38.5 | 0.009 | 7.98 |
| 52×0.5 | 0.6 | 1.7 | 20.6 | 25.3 | 0.013 | 39.0 |
| 52×0.75 | 0.6 | 1.7 | 21.8 | 26.7 | 0.011 | 26.0 |
| 52×1.0 | 0.6 | 1.7 | 23.0 | 28.2 | 0.010 | 19.5 |
| 52×1.5 | 0.7 | 1.7 | 26.7 | 32.6 | 0.010 | 13.3 |
| 52×2.5 | 0.8 | 2.0 | 32.9 | 40.1 | 0.009 | 7.98 |
| 61×0.5 | 0.6 | 1.7 | 21.8 | 26.7 | 0.013 | 39.0 |
| 61×0.75 | 0.6 | 1.7 | 23.1 | 28.3 | 0.011 | 26.0 |
| 61×1.0 | 0.6 | 1.7 | 24.4 | 29.9 | 0.010 | 19.5 |
| 61×1.5 | 0.7 | 2.0 | 28.9 | 35.3 | 0.010 | 13.3 |
| 61×2.5 | 0.8 | 2.2 | 34.9 | 42.5 | 0.009 | 7.98 |