

聚氯乙烯绝缘聚氯乙烯护套控制电缆 (GB/T 9330–2008)
PVC Insulated PVC Sheathed Control Cable (GB/T 9330–2008)



型号、名称及使用范围（见表1）

Model, name and application(see table 1)

表1 Table 1

型号 Model	名称 Name	主要适用范围 Main application
KVV	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Copper conductor PVC insulated PVC 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 in the fixed occasion need screen like indoors, in Trenches and in dusts.
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 PVC sheathed braid 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 in the fixed occasion need screen like indoors, in Trenches and in dusts.
KVVP ₂	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 PVC sheathed copper tape 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 in the fixed occasion need screen like indoors, in Trenches and in dusts.
KVV ₂₂	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 PVC sheathed steel tape armoured control cable	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 in the fixed occasion undertake heavy duty like indoors, in trenches and in dusts.
KVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Copper conductor PVC insulated PVC sheathed flexible control cable	敷设在室内移动要求柔软等场合 For laying flexible occasion like indoors to move
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 PVC sheathed braid screened flexible control cable	敷设在室内移动要求柔软屏蔽等场合 For laying flexible screen occasion like indoors to move
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 PVC sheathed braid 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 in the fixed occasion demand flame retardant like indoors, in trenches and in dusts.
ZR-KVVP ₂	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 PVC sheathed braid flame retardant control cable with copper tape screened	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 retardant
ZR-KVV ₂₂	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 PVC sheathed braid flame retardant control cable with steel tape armoured	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 in the fixed occasion demand flame retardant, undertake heavy duty
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 PVC sheathed braid 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 in the fixed occasion demand flame retardant like indoors movable and flexible

■ 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

表2 Table 2

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	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 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)	近似重量 Approx weight (kg/km)
			下限 min	上限 max			
2×0.75	0.6	1.2	6.4	8.0	0.012	24.5	59
2×1.0	0.6	1.2	6.8	8.4	0.011	18.1	67
2×1.5	0.7	1.2	7.6	9.4	0.011	12.1	86
2×2.5	0.8	1.2	8.6	10.5	0.010	7.41	120
2×4	0.8	1.2	9.6	11.5	0.0085	4.61	167
2×6	0.8	1.2	10.5	12.5	0.0070	3.08	220
3×0.75	0.6	1.2	6.8	8.4	0.012	24.5	71
3×1.0	0.6	1.2	7.0	8.8	0.011	18.1	82
3×1.5	0.7	1.2	8.0	9.8	0.011	12.1	108
3×2.5	0.8	1.2	9.2	11.0	0.010	7.41	154
3×4	0.8	1.2	10.0	12.5	0.0085	4.61	210
3×6	0.8	1.5	11.5	14.0	0.0070	3.08	310
4×0.75	0.6	1.2	7.2	9.0	0.012	24.5	846
4×1.0	0.6	1.2	7.6	9.4	0.011	18.1	100
4×1.50	0.7	1.2	8.6	10.5	0.011	12.1	132
4×2.5	0.8	1.2	10.0	12.0	0.010	7.41	193
4×4	0.8	1.5	11.5	14.0	0.0085	4.61	315
4×6	0.8	1.5	12.5	15.0	0.0070	3.08	413
5×0.75	0.6	1.2	7.8	9.6	0.012	24.5	99
5×1.0	0.6	1.2	8.2	10.0	0.011	18.1	116
5×1.5	0.7	1.2	9.4	11.5	0.011	12.1	154
5×2.5	0.8	1.5	11.5	14.0	0.010	7.41	243
5×4	0.8	1.5	12.5	15.0	0.0085	4.61	383
5×6	0.8	1.5	14.0	16.5	0.0070	3.08	505
7×0.75	0.6	1.2	8.4	10.5	0.012	24.5	123
7×1.0	0.6	1.2	9.0	11.0	0.011	18.1	146
7×1.5	0.7	1.2	10.0	12.5	0.011	12.1	196
7×2.5	0.8	1.5	12.5	15.0	0.010	7.41	211
7×4	0.8	1.5	13.5	16.5	0.0085	4.61	473
7×6	0.8	1.5	15.0	18.0	0.0070	3.08	652
8×0.75	0.6	1.2	9.4	11.5	0.012	24.5	142
8×1.0	0.6	1.2	10.0	12.0	0.011	18.1	1168
8×1.5	0.7	1.2	12.0	14.5	0.011	12.1	243
8×2.5	0.8	1.5	14.0	16.5	0.010	7.41	360
8×4	0.8	1.5	15.5	18.0	0.0085	4.61	545
8×6	0.8	1.7	17.5	20.0	0.0070	3.08	748
10×0.75	0.6	1.2	10.5	12.5	0.012	24.5	187
10×1.0	0.6	1.5	11.5	14.0	0.011	18.1	221
10×1.5	0.7	1.5	13.5	16.0	0.011	12.1	296
10×2.5	0.8	1.5	15.5	18.5	0.010	7.41	440
10×4	0.8	1.7	18.0	20.5	0.0085	4.61	721
10×6	0.8	1.7	19.5	22.5	0.0070	3.08	956
12×0.75	0.6	1.5	11.5	13.5	0.012	24.5	211
12×1.0	0.6	1.5	12.0	14.5	0.011	18.1	250
12×1.5	0.7	1.5	14.0	16.5	0.011	12.1	338
12×2.5	0.8	1.5	16.0	19.0	0.010	7.41	507
12×4	0.8	1.7	18.5	21.5	0.0085	4.61	825
12×6	0.8	1.7	20.5	23.5	0.0070	3.08	1026

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3 Table 3

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	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 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)	近似重量 Approx weight (kg/km)
			下限 min	上限 max.			
14×0.75	0.6	1.5	12.0	14.5	0.012	24.5	238
14×1.0	0.6	1.5	12.5	15.0	0.011	18.1	328
14×1.5	0.7	1.5	14.5	17.0	0.011	12.1	384
14×2.5	0.8	1.5	17.0	19.5	0.010	7.41	579
14×4	0.8	1.7	19.5	22.5	0.0085	4.61	959
14×6	0.8	1.7	21.5	24.5	0.0070	3.08	1246
16×0.75	0.6	1.5	12.5	15.0	0.012	24.5	2268
16×1.0	0.6	1.5	13.0	15.5	0.011	18.1	315
16×1.5	0.7	1.5	15.0	18.0	0.011	12.1	427
16×2.5	0.8	1.7	18.0	21.0	0.010	7.41	664
19×0.75	0.6	1.5	13.0	15.5	0.012	24.5	299
19×1.0	0.6	1.5	14.0	16.5	0.011	18.1	359
19×1.5	0.7	1.5	16.0	19.0	0.011	12.1	490
19×2.5	0.8	1.7	19.0	22.0	0.010	7.41	765
24×0.75	0.6	1.5	15.0	18.0	0.012	24.5	373
24×1.0	0.6	1.5	16.0	19.0	0.011	18.1	447
24×1.5	0.7	1.7	19.0	22.0	0.011	12.1	632
24×2.5	0.8	1.7	22.5	25.5	0.010	7.41	961
27×0.75	0.6	1.5	15.5	18.0	0.012	24.5	407
27×1.0	0.6	1.5	16.5	19.0	0.011	18.1	491
27×1.5	0.7	1.7	19.5	22.5	0.011	12.1	674
27×2.5	0.8	1.7	23.0	26.0	0.010	7.41	1061
30×0.75	0.6	1.5	16.0	19.0	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	18.5	21.5	0.011	18.1	658
37×1.5	0.7	1.7	21.5	25.0	0.011	12.1	908
37×2.5	0.8	1.7	25.5	29.0	0.010	7.41	1401
44×0.75	0.6	1.7	19.5	23.0	0.012	24.5	642
44×1.0	0.6	1.7	21.0	24.0	0.011	18.1	777
44×1.5	0.7	1.7	24.5	28.0	0.011	12.1	1074
44×2.5	0.8	2.0	29.5	33.5	0.010	7.41	1702
52×0.75	0.6	1.7	20.0	23.0	0.012	24.5	737
52×1.0	0.6	1.7	22.0	25.0	0.011	18.1	896
52×1.5	0.7	1.7	25.5	29.0	0.011	12.1	1243
52×2.5	0.8	2.0	31.0	35.0	0.010	7.41	1973
61×0.75	0.6	1.7	22.0	25.0	0.012	24.5	843
61×1.0	0.6	1.7	23.0	26.5	0.011	18.1	1027
61×1.5	0.7	2.0	27.5	31.5	0.011	12.1	1468
61×2.5	0.8	2.2	33.0	37.5	0.010	7.41	2306

KVVP₂型, ZR-KVVP₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆
Type KVVP₂, ZR-KVVP₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shielded

表4 Table 4

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	绝缘标称厚度 Nom thickness of insulation (mm)	铜带标称厚度 Nom thickness of copper tape (mm)	护套标称厚度 Nom thickness of sheath (mm)	平均外径 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)	近似重量 Approx weight (kg/km)
				下限 min	上限 max			
4×0.75	0.6	0.05-0.15	1.2	8.0	10.0	0.012	24.5	144
4×1.0	0.6	0.05-0.15	1.2	8.4	10.5	0.011	18.1	153
4×1.5	0.7	0.05-0.15	1.2	9.4	11.5	0.011	12.1	190
4×2.5	0.8	0.05-0.15	1.5	11.0	14.0	0.010	7.41	276
4×4	0.8	0.05-0.15	1.5	12.5	15.0	0.0085	4.61	367
4×6	0.8	0.05-0.15	1.5	13.5	16.0	0.0070	3.08	467
4×10	1.0	0.05-0.15	1.7	17.5	21.5	0.0065	1.83	728
5×0.75	0.6	0.05-0.15	1.2	8.6	11.0	0.012	24.5	153
5×1.0	0.6	0.05-0.15	1.2	9.0	11.0	0.011	18.1	173
5×1.5	0.7	0.05-0.15	1.5	10.0	12.5	0.011	12.1	226
5×2.5	0.8	0.05-0.15	1.5	12.0	15.0	0.010	7.41	325
5×4	0.8	0.05-0.15	1.5	13.5	16.0	0.0085	4.61	437
5×6	0.8	0.05-0.15	1.5	14.5	17.5	0.0070	3.08	576
5×10	1.0	0.05-0.15	1.7	19.0	23.5	0.0065	1.83	924
7×0.75	0.6	0.05-0.15	1.2	9.2	11.5	0.012	24.5	178
7×1.0	0.6	0.05-0.15	1.2	9.6	12.0	0.011	18.1	209
7×1.5	0.7	0.05-0.15	1.5	11.5	14.0	0.011	12.1	239
7×2.5	0.8	0.05-0.15	1.5	13.0	16.0	0.010	7.41	398
7×4	0.8	0.05-0.15	1.5	14.5	17.5	0.0085	4.61	528
7×6	0.8	0.05-0.15	1.5	16.0	19.0	0.0070	3.08	717
7×10	1.0	0.05-0.15	1.7	20.5	25.0	0.0065	1.83	1145
8×0.75	0.6	0.05-0.15	1.5	10.0	12.5	0.012	24.5	206
8×1.0	0.6	0.05-0.15	1.5	11.0	13.5	0.011	18.1	230
8×1.5	0.7	0.05-0.15	1.5	12.5	15.5	0.011	12.1	312
8×2.5	0.8	0.05-0.15	1.5	14.5	17.5	0.010	7.41	486
8×4	0.8	0.05-0.15	1.7	16.0	19.0	0.0085	4.61	589
8×6	0.8	0.05-0.15	1.7	18.0	21.0	0.0070	3.08	790
8×10	1.0	0.05-0.15	1.7	23.0	28.0	0.0065	1.83	1236
10×0.75	0.6	0.05-0.15	1.5	11.5	14.5	0.012	24.5	214
10×1.0	0.6	0.05-0.15	1.5	12.5	15.0	0.011	18.1	300
10×1.5	0.7	0.05-0.15	1.5	14.0	17.0	0.011	12.1	367
10×2.5	0.8	0.05-0.15	1.7	16.5	19.5	0.010	7.41	572
10×4	0.8	0.05-0.15	1.7	18.5	21.5	0.0085	4.61	787
10×6	0.8	0.05-0.15	1.7	20.5	23.5	0.0070	3.08	992
10×10	1.0	0.05-0.15	1.7	26.0	31.5	0.0065	1.83	1590
12×0.75	0.6	0.05-0.15	1.5	12.0	14.5	0.012	24.5	280
12×1.0	0.6	0.05-0.15	1.5	12.5	15.5	0.011	18.1	315
12×1.5	0.7	0.05-0.15	1.5	14.5	17.5	0.011	12.1	423
12×2.5	0.8	0.05-0.15	1.7	17.0	20.5	0.010	7.41	654
12×4	0.8	0.05-0.15	1.7	19.0	22.5	0.0085	4.61	887
12×6	0.8	0.05-0.15	1.7	21.0	24.5	0.0070	3.08	1198

KVVP₂型, ZR-KVVP₂型450/750V铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆
Type KVVP₂, ZR-KVVP₂ 450/750V Copper conductor PVC insulated and sheathed control cable with copper tape shielded

表4 Table 4

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	绝缘标称厚度 Nom thickness of insulation (mm)	铜带标称厚度 Nom thickness of copper tape (mm)	护套标称厚度 Nom thickness of sheath (mm)	平均外径 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃MΩ/km	20℃时最 大直流电阻 Max.D.C resistance of at 20℃Ω/km	近似重量 Approx weight (kg/km)
				下限 min	上限 max			
14×0.75	0.6	0.05-0.15	1.5	12.5	15.5	0.012	24.5	312
14×1.0	0.6	0.05-0.15	1.5	13.5	16.0	0.011	18.1	398
14×1.5	0.7	0.05-0.15	1.5	15.0	18.0	0.011	12.1	492
14×2.5	0.8	0.05-0.15	1.7	18.0	21.0	0.010	7.41	721
14×4	0.8	0.05-0.15	1.7	20.0	23.5	0.0085	4.61	973
14×6	0.8	0.05-0.15	1.7	22.0	25.5	0.0070	3.08	1203
16×0.75	0.6	0.05-0.15	1.5	13.0	16.0	0.012	24.5	340
16×1.0	0.6	0.05-0.15	1.5	14.0	16.5	0.011	18.1	389
16×1.5	0.7	0.05-0.15	1.5	16.0	19.0	0.011	12.1	489
16×2.5	0.8	0.05-0.15	1.7	19.0	22.0	0.010	7.41	789
19×0.75	0.6	0.05-0.15	1.5	14.0	16.5	0.012	24.5	386
19×1.0	0.6	0.05-0.15	1.5	14.5	17.5	0.011	18.1	413
19×1.5	0.7	0.05-0.15	1.7	16.5	20.0	0.011	12.1	612
19×2.5	0.8	0.05-0.15	1.7	20.0	23.0	0.010	7.41	986
24×0.75	0.6	0.05-0.15	1.5	16.0	19.0	0.012	24.5	476
24×1.0	0.6	0.05-0.15	1.7	17.0	20.5	0.011	18.1	580
24×1.5	0.7	0.05-0.15	1.7	20.0	23.0	0.011	12.1	792
24×2.5	0.8	0.05-0.15	1.7	23.0	26.5	0.010	7.41	1179
27×0.75	0.6	0.05-0.15	1.7	16.0	19.0	0.012	24.5	503
27×1.0	0.6	0.05-0.15	1.7	17.5	20.5	0.011	18.1	612
27×1.5	0.7	0.05-0.15	1.7	20.0	23.5	0.011	12.1	886
27×2.5	0.8	0.05-0.15	1.7	23.5	27.0	0.010	7.41	1286
30×0.75	0.6	0.05-0.15	1.7	17.0	20.0	0.012	24.5	600
30×1.0	0.6	0.05-0.15	1.7	18.0	21.5	0.011	18.1	725
30×1.5	0.7	0.05-0.15	1.7	21.0	24.0	0.011	12.1	891
30×2.5	0.8	0.05-0.15	1.7	24.5	28.0	0.010	7.41	1384
37×0.75	0.6	0.05-0.15	1.7	18.5	21.5	0.012	24.5	688
37×1.0	0.6	0.05-0.15	1.7	19.5	22.5	0.011	18.1	887
37×1.5	0.7	0.05-0.15	1.7	22.5	26.0	0.011	12.1	1105
37×2.5	0.8	0.05-0.15	2.0	26.5	30.0	0.010	7.41	1681
44×0.75	0.6	0.05-0.15	1.7	20.5	24.0	0.012	24.5	809
44×1.0	0.6	0.05-0.15	1.7	21.5	25.0	0.011	18.1	987
44×1.5	0.7	0.05-0.15	1.7	25.0	29.0	0.011	12.1	1315
44×2.5	0.8	0.05-0.15	2.0	30.0	34.5	0.010	7.41	2018
48×0.75	0.6	0.05-0.15	1.7	21.0	24.0	0.012	24.5	910
48×1.0	0.6	0.05-0.15	1.7	22.0	25.5	0.011	18.1	1028
48×1.5	0.7	0.05-0.15	1.7	25.5	29.5	0.011	12.1	1307
48×2.5	0.8	0.05-0.15	2.0	30.5	35.0	0.010	7.41	2097
52×0.75	0.6	0.05-0.15	1.7	21.5	24.5	0.012	24.5	935
52×1.0	0.6	0.05-0.15	1.7	22.5	26.0	0.011	18.1	1113
52×1.5	0.7	0.05-0.15	2.0	26.0	20.0	0.011	12.1	1493
52×2.5	0.8	0.05-0.15	2.2	31.5	36.0	0.010	7.41	2298
61×0.75	0.6	0.05-0.15	1.7	22.5	26.0	0.012	24.5	1025
61×1.0	0.6	0.05-0.15	1.7	24.0	27.0	0.011	18.1	1250
61×1.5	0.7	0.05-0.15	2.0	28.5	32.5	0.011	12.1	1745
61×2.5	0.8	0.05-0.15	2.2	34.0	38.5	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 steel tape armoured control cable

表5 Table 5

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	绝缘标称厚度 Nom thickness of insulation (mm)	钢带层数&厚度 Number & thickness of steel tape (mm)	护套标称厚度 Nom thickness of sheath (mm)	平均外径 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)	近似重量 Approx weight (kg/km)
				下限 min	上限 max			
4×2.5	0.8	2×0.2 (0.3)	1.5	13.0	17.0	0.010	7.41	505
4×4	0.8	2×0.2 (0.3)	1.5	14.0	18.5	0.0085	4.61	
4×6	0.8	2×0.2 (0.3)	1.5	15.5	19.0	0.0070	3.08	
4×10	1.0	2×0.2 (0.3)	1.7	19.0	25.0	0.0065	1.83	
5×2.5	0.8	2×0.2 (0.3)	1.5	14.0	18.0	0.010	7.41	586
5×4	0.8	2×0.2 (0.3)	1.5	15.0	19.5	0.0085	4.61	
5×6	0.8	2×0.2 (0.3)	1.7	17.0	21.5	0.0070	3.08	
5×10	1.0	2×0.2 (0.3)	1.7	20.5	26.5	0.0065	1.83	
7×0.75	0.6	2×0.2 (0.3)	1.5	11.5	15.5	0.012	24.5	317
7×1.0	0.6	2×0.2 (0.3)	1.5	12.0	16.0	0.011	18.1	354
7×1.5	0.7	2×0.2 (0.3)	1.5	13.5	17.5	0.011	12.1	425
7×2.5	0.8	2×0.2 (0.3)	1.5	15.0	19.0	0.010	7.41	554
7×4	0.8	2×0.2 (0.3)	1.5	16.5	20.5	0.0085	4.61	701
7×6	0.8	2×0.2 (0.3)	1.7	18.0	22.5	0.0070	3.08	900
7×10	1.0	2×0.2 (0.3)	1.7	22.5	28.5	0.0065	1.83	1397
8×0.75	0.6	2×0.2 (0.3)	1.5	12.5	16.5	0.012	24.5	344
8×1.0	0.6	2×0.2 (0.3)	1.5	13.0	17.0	0.011	18.1	378
8×1.5	0.7	2×0.2 (0.3)	1.5	14.5	18.5	0.011	12.1	467
8×2.5	0.8	2×0.2 (0.3)	1.5	16.5	21.0	0.010	7.41	614
8×4	0.8	2×0.2 (0.3)	1.7	18.5	23.0	0.0085	4.61	789
8×6	0.8	2×0.2 (0.3)	1.7	20.0	24.5	0.0070	3.08	989
8×10	1.0	2×0.2 (0.3)	1.7	25.0	31.5	0.0065	1.83	1540
10×0.75	0.6	2×0.2 (0.3)	1.5	13.5	18.0	0.012	24.5	449
10×1.0	0.6	2×0.2 (0.3)	1.5	14.5	18.5	0.011	18.1	558
10×1.5	0.7	2×0.2 (0.3)	1.5	16.0	20.5	0.011	12.1	753
10×2.5	0.8	2×0.2 (0.3)	1.7	18.5	23.0	0.010	7.41	956
10×4	0.8	2×0.2 (0.3)	1.7	20.5	25.0	0.0085	4.61	1203
10×6	0.8	2×0.2 (0.3)	1.7	22.5	27.0	0.0070	3.08	
10×10	1.0	2×0.2 (0.3)	2.0	28.5	35.0	0.0065	1.83	
12×0.75	0.6	2×0.2 (0.3)	1.5	14.0	18.0	0.012	24.5	485
12×1.0	0.6	2×0.2 (0.3)	1.5	14.5	19.0	0.011	18.1	
12×1.5	0.7	2×0.2 (0.3)	1.5	16.5	20.5	0.011	12.1	
12×2.5	0.8	2×0.2 (0.3)	1.7	19.0	23.5	0.010	7.41	
12×4	0.8	2×0.2 (0.3)	1.7	21.0	25.5	0.0085	4.61	
12×6	0.8	2×0.2 (0.3)	1.7	23.0	28.5	0.0070	3.08	
14×0.75	0.6	2×0.2 (0.3)	1.5	14.5	18.5	0.012	24.5	412
14×1.0	0.6	2×0.2 (0.3)	1.5	15.0	19.5	0.011	18.1	530
14×1.5	0.7	2×0.2 (0.3)	1.7	17.5	22.0	0.011	12.1	684
14×2.5	0.8	2×0.2 (0.3)	1.7	20.0	24.5	0.010	7.41	913
14×4	0.8	2×0.2 (0.3)	1.7	22.0	26.5	0.0085	4.61	1171
14×6	0.8	2×0.2 (0.3)	1.7	24.0	29.0	0.0070	3.08	1508

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 steel tape armoured control cable

表5 Table 5

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	绝缘标称厚度 Nom thickness of insulation (mm)	钢带层数&厚度 Number & thickness of steel tape (mm)	护套标称厚度 Nom thickness of sheath (mm)	平均外径 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)	近似重量 Approx weight (kg/km)
				下限 min	上限 max			
16×0.75	0.6	2×0.2 (0.3)	1.5	15.0	19.5	0.012	24.5	576
16×1.0	0.6	2×0.2 (0.3)	1.5	16.0	20.0	0.011	18.1	745
16×1.5	0.7	2×0.2 (0.3)	1.7	18.0	22.5	0.011	12.1	1005
16×2.5	0.8	2×0.2 (0.3)	1.7	21.0	25.5	0.010	7.41	1350
19×0.75	0.6	2×0.2 (0.3)	1.5	15.5	20.0	0.012	24.5	646
19×1.0	0.6	2×0.2 (0.3)	1.7	17.0	21.5	0.011	18.1	824
19×1.5	0.7	2×0.2 (0.3)	1.7	19.0	23.5	0.011	12.1	1199
19×2.5	0.8	2×0.2 (0.3)	1.7	22.0	26.5	0.010	7.41	1480
24×0.75	0.6	2×0.2 (0.3)	1.7	18.0	22.5	0.012	24.5	776
24×1.0	0.6	2×0.2 (0.3)	1.7	19.0	23.5	0.011	18.1	1001
24×1.5	0.7	2×0.2 (0.3)	1.7	21.5	26.5	0.011	12.1	1376
24×2.5	0.8	2×0.2 (0.3)	1.7	25.0	30.0	0.010	7.41	1590
27×0.75	0.6	2×0.2 (0.3)	1.7	18.5	23.0	0.012	24.5	821
27×1.0	0.6	2×0.2 (0.3)	1.7	19.5	24.0	0.011	18.1	1063
27×1.5	0.7	2×0.2 (0.3)	1.7	22.5	27.0	0.011	12.1	1480
27×2.5	0.8	2×0.2 (0.3)	1.7	25.5	30.5	0.010	7.41	1730
30×0.75	0.6	2×0.2 (0.3)	1.7	19.0	23.5	0.012	24.5	833
30×1.0	0.6	2×0.2 (0.3)	1.7	20.0	24.5	0.011	18.1	1550
30×1.5	0.7	2×0.2 (0.3)	1.7	23.0	27.5	0.011	12.1	1808
30×2.5	0.8	2×0.2 (0.3)	1.7	26.5	31.5	0.010	7.41	2050
37×0.75	0.6	2×0.2 (0.3)	1.7	20.5	25.0	0.012	24.5	1013
37×1.0	0.6	2×0.2 (0.3)	1.7	21.5	26.0	0.011	18.1	1331
37×1.5	0.7	2×0.2 (0.3)	1.7	24.5	29.0	0.011	12.1	2139
37×2.5	0.8	2×0.2 (0.3)	2.0	30.0	35.0	0.010	7.41	2370
44×0.75	0.6	2×0.2 (0.3)	1.7	22.5	27.0	0.012	24.5	1120
44×1.0	0.6	2×0.2 (0.3)	1.7	23.5	28.5	0.011	18.1	1584
44×1.5	0.7	2×0.2 (0.3)	2.0	27.5	33.0	0.011	12.1	2320
44×2.5	0.8	2×0.5	2.0	33.5	39.0	0.010	7.41	2532
48×0.75	0.6	2×0.2 (0.3)	1.7	22.5	27.5	0.012	24.5	1160
48×1.0	0.6	2×0.2 (0.3)	1.7	24.0	29.0	0.011	18.1	1630
48×1.5	0.7	2×0.5	2.0	29.0	24.0	0.011	12.1	2530
48×2.5	0.8	2×0.5	2.2	34.0	39.5	0.010	7.41	2662
52×0.75	0.6	2×0.2 (0.3)	1.7	23.0	28.0	0.012	24.5	1210
52×1.0	0.6	2×0.2 (0.3)	1.7	24.5	29.5	0.011	18.1	1750
52×1.5	0.7	2×0.5	2.0	30.0	15.0	0.011	12.1	2580
52×2.5	0.8	2×0.5	2.2	35.0	40.5	0.010	7.41	2710
61×0.75	0.6	2×0.2 (0.3)	1.7	24.5	29.5	0.012	24.5	1280
61×1.0	0.6	2×0.2 (0.3)	1.7	26.0	31.0	0.011	18.1	1930
61×1.5	0.7	2×0.5	2.0	31.5	36.5	0.011	12.1	2770
61×2.5	0.8	2×0.5	2.2	37.0	42.5	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

表6 Table 6

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	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 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)
			下限 min	上限 max		
4×0.5	0.6	1.2	7.2	9.0	0.013	39.0
4×0.75	0.6	1.2	7.6	9.4	0.011	26.0
4×1.0	0.6	1.2	8.0	10.0	0.010	19.5
4×1.5	0.7	1.2	9.0	11.5	0.010	13.3
4×2.5	0.8	1.2	10.5	13.0	0.009	7.98
5×0.5	0.6	1.2	7.8	9.0	0.013	39.0
5×0.75	0.6	1.2	8.4	10.5	0.011	26.0
5×1.0	0.6	1.2	8.8	11.0	0.010	19.5
5×1.5	0.7	1.2	9.8	12.0	0.010	13.3
5×2.5	0.8	1.5	12.0	14.5	0.009	7.98
7×0.5	0.6	1.2	8.4	10.5	0.013	39.0
7×0.75	0.6	1.2	9.0	11.0	0.011	26.0
7×1.0	0.6	1.2	9.6	11.5	0.010	19.5
7×1.5	0.7	1.2	10.5	13.0	0.010	13.3
7×2.5	0.8	1.5	13.0	16.0	0.009	7.98
8×0.5	0.6	1.2	9.4	11.5	0.013	39.0
8×0.75	0.6	1.2	10.0	12.0	0.011	26.0
8×1.0	0.6	1.2	10.5	13.0	0.010	19.5
8×1.5	0.7	1.5	12.5	15.0	0.010	13.3
8×2.5	0.8	1.5	15.0	17.5	0.009	7.98
10×0.5	0.6	1.2	10.5	12.5	0.013	39.0
10×0.75	0.6	1.2	11.0	13.5	0.011	26.0
10×1.0	0.6	1.5	12.5	15.0	0.010	19.5
10×1.5	0.7	1.5	14.0	17.0	0.010	13.3
10×2.5	0.8	1.5	16.5	19.5	0.009	7.98
12×0.5	0.6	1.2	10.5	13.0	0.013	39.0
12×0.75	0.6	1.5	12.0	14.5	0.011	26.0
12×1.0	0.6	1.5	12.5	15.5	0.010	19.5
12×1.5	0.7	1.5	14.5	17.5	0.010	13.3
12×2.5	0.8	1.5	17.5	20.5	0.009	7.98
14×0.5	0.6	1.2	11.0	13.5	0.013	39.0
14×0.75	0.6	1.5	12.5	15.0	0.011	26.0
14×1.0	0.6	1.5	13.5	16.0	0.010	19.5
14×1.5	0.7	1.5	15.0	18.0	0.010	13.3
14×2.5	0.8	1.5	18.0	21.0	0.009	7.98
16×0.5	0.6	1.5	12.5	15.0	0.013	39.0
16×0.75	0.6	1.5	13.5	16.0	0.011	26.0
16×1.0	0.6	1.5	14.0	17.0	0.010	19.5
16×1.5	0.7	1.5	16.0	19.0	0.010	13.3
16×2.5	0.8	1.7	19.5	23.0	0.009	7.98

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

表6 Table 6

芯数 × 标称截面 Core No. × nom cross-sectional area (mm²)	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 Average outer diameter (mm)		70℃时最 小绝缘电阻 Min resistance of insulation at 70℃(MΩ/km)	20℃时最 大直流电阻 Max.D.C resistance of at 20℃(Ω/km)
			下限 min	上限 max		
19×0.5	0.6	1.5	13.0	15.5	0.013	39.0
19×0.75	0.6	1.5	14.0	16.5	0.011	26.0
19×1.0	0.6	1.5	15.0	17.5	0.010	19.5
19×1.5	0.7	1.5	16.5	20.0	0.010	13.3
19×2.5	0.8	1.7	20.5	24.0	0.009	7.98
24×0.5	0.6	1.5	15.0	18.0	0.013	39.0
24×0.75	0.6	1.5	16.0	19.0	0.011	26.0
24×1.0	0.6	1.5	17.0	20.0	0.010	19.5
24×1.5	0.7	1.7	20.0	23.5	0.010	13.3
24×2.5	0.8	1.7	24.0	27.5	0.009	7.98
27×0.5	0.6	1.5	15.0	18.0	0.013	39.0
27×0.75	0.6	1.5	16.5	19.5	0.011	26.0
27×1.0	0.6	1.5	17.5	20.5	0.010	19.5
27×1.5	0.7	1.7	20.5	24.0	0.010	13.3
27×2.5	0.8	1.7	24.5	28.5	0.009	7.98
30×0.5	0.6	1.5	16.0	18.5	0.013	39.0
30×0.75	0.6	1.5	17.0	20.0	0.011	26.0
30×1.0	0.6	1.7	18.5	21.5	0.010	19.5
30×1.5	0.7	1.7	21.0	25.0	0.010	13.3
30×2.5	0.8	1.7	25.5	29.5	0.009	7.98
37×0.5	0.6	1.5	17.0	20.0	0.013	39.0
37×0.75	0.6	1.7	19.0	21.5	0.011	26.0
37×1.0	0.6	1.7	20.0	23.5	0.010	19.5
37×1.5	0.7	1.7	22.5	27.0	0.010	13.3
37×2.5	0.8	1.7	27.5	31.5	0.009	7.98
44×0.5	0.6	1.7	19.5	22.5	0.013	39.0
44×0.75	0.6	1.7	21.0	24.5	0.011	26.0
44×1.0	0.6	1.7	22.5	26.0	0.010	19.5
44×1.5	0.7	1.7	25.5	30.0	0.010	13.3
44×2.5	0.8	2.0	32.0	36.0	0.009	7.98
48×0.5	0.6	1.7	20.0	23.0	0.013	39.0
48×0.75	0.6	1.7	21.5	25.0	0.011	26.0
48×1.0	0.6	1.7	23.0	26.5	0.010	19.5
48×1.5	0.7	1.7	26.0	30.5	0.010	13.3
48×2.5	0.8	2.0	32.5	36.5	0.009	7.98
52×0.5	0.6	1.7	20.5	23.5	0.013	39.0
52×0.75	0.6	1.7	22.0	25.5	0.011	26.0
52×1.0	0.6	1.7	23.5	27.0	0.010	19.5
52×1.5	0.7	1.7	26.5	31.0	0.010	13.3
52×2.5	0.8	2.0	33.0	37.5	0.009	7.98
61×0.5	0.6	1.7	21.5	25.0	0.013	39.0
61×0.75	0.6	1.7	23.5	27.0	0.011	26.0
61×1.0	0.6	1.7	25.0	28.5	0.010	19.5
61×1.5	0.7	2.0	29.0	33.5	0.010	13.3
61×2.5	0.8	2.2	35.5	40.5	0.009	7.98