

Plastics Insulated Control Cable

◆ Standard

Plastic Insulated Control Cable is manufactured according to GB/T9330-2008.

◆ Application

This product is used in supervisor circuit, protection lines and power distribution equipment as connection lines under rated voltage 450/750V for electrical application.

◆ Product Characteristic

- (1) This product has good resistance of mildew and water.
- (2) The outer sheath of this product has good performance of mechanical and abrasion resistant.
- (3) The type of "R" product is very soft so that it can be moved frequency.

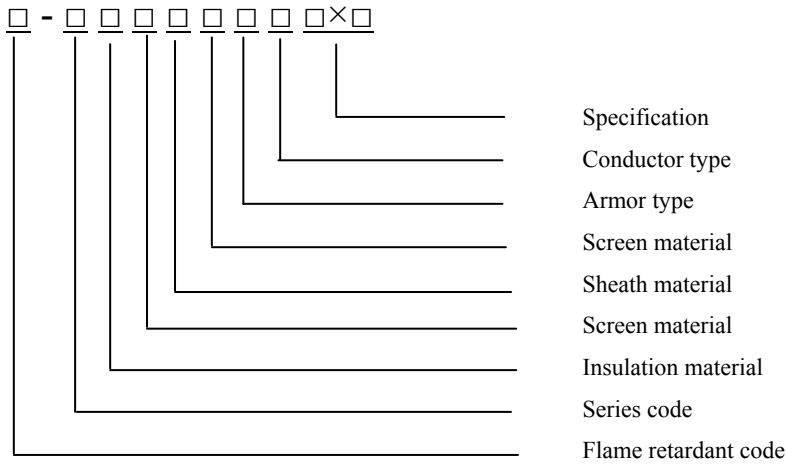
◆ Code and Explanation

1. Code and Explanation (Table 1)

Table 1

Item	Code	Explanation
Flame retardant code	/	Non-flame retardant (to be omitted)
	ZR	Flame retardant
	ZRA	Grade A Flame retardant
	ZRB	Grade B Flame retardant
	ZRC	Grade C Flame retardant
	DYL	Low smoke low halogen PVC
	WDZ	Low smoke halogen free polyolefin
Series code	K	Control cable
Insulation material	Y	PE
	YJ	XLPE
	V	PVC
	V _D	Low smoke Low halogen PVC
	E	Low smoke halogen free polyolefin
Shield material	P	Copper wire braid
	P ₁	Tinned copper wire braid
	P ₂	Cu tape wrapped
	P ₃	Aluminum/plastic laminate-tape wrapped
Sheath material	Y	PE
	V	PVC
	V _D	Low smoke low halogen PVC
	Y	PE or Low smoke halogen free polyolefin
	V _F	NBR PVC compound
Armor material	22	Steel tape armored
	31	Steel wire braid armored
	32	Steel wire armored
Conductor type	A	Single strand conductor
	B	Stranded conductor
	R	Multi-stranded conductor

2. Type Explanation



◆ Technical Data

Table 2

Nominal cross-sectional area mm ²	Structure of conductor		No. of cores	Insulation thickness of PVC mm	Insulation thickness of XLPE mm	Insulation resistance of PVC(70°C) MΩ • km	Insulation resistance of XLPE (90°C) MΩ • km	Max. D.C. conductor resistance at 20°C Ω/km
	Conductor Class	No. of cores/diameter mm						
0.5	1	1/0.80	2~37	0.60	0.50	0.015	1.5	36.0
	2	7/0.30	2~37	0.60	0.50	0.015	1.5	36.0
	5	16/0.20	2~37	0.60	0.50	0.013	1.3	39.0
0.75	1	1/0.97	2~37	0.60	0.60	0.012	1.2	24.5
	2	7/0.37			0.60	0.014	1.4	24.5
	5	24/0.20			0.60	0.013	1.3	26.0
1	1	1/1.13	2~37	0.60	0.60	0.011	1.1	18.1
	2	7/0.43			0.60	0.013	1.3	
	5	32/0.20			0.60	0.010	1.0	19.5
1.5	1	1/1.38	2~37	0.70	0.60	0.011	1.1	12.1
	2	7/0.52			0.60	0.010	1.0	
	5	30/0.25			0.60	0.010	1.0	13.3
2.5	1	1/1.78	2~37	0.80	0.70	0.010	1.0	7.41
	2	7/0.68			0.70	0.009	0.90	
	5	50/0.25			0.70	0.009	0.90	7.98
4	1	1/2.25	2~14	0.80	0.70	0.0085	0.85	4.61
	2	7/0.85			0.70	0.0077	0.77	
6	1	1/2.76	2~14	0.80	0.70	0.0070	0.70	3.08
	2	7/1.04	2~10	0.80	0.70	0.0065	0.65	
10	2	7/1.33	2~10	1.00	0.70	0.0065	0.65	1.83

◆ Type and Name, Structure and Diameter

1. Type and Name

Table 3

Type		Name	Mainly use occasion
PVC Insulation	XLPE Insulation		
ZR-KVV	ZR-KYJV	Copper conductor PVC (XLPE) insulated and sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline.
ZR-KVVP	ZR-KYJVP	Copper conductor PVC (XLPE) insulated braid shield PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline withstand electromagnetic interference.
ZR-KVVP ₂₂	ZR-KYJVP ₂₂	Copper conductor PVC (XLPE) insulated braid shield steel tape armored PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline withstand electromagnetic interference and mechanical force.
ZR-KVVP ₂	ZR-KYJVP ₂	Copper conductor PVC (XLPE) insulated copper tape shield PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline withstand electromagnetic interference.
ZR-KVVP _{2,22}	ZR-KYJVP _{2,22}	Copper conductor PVC (XLPE) insulated copper tape shield steel tape armored PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline withstand electromagnetic interference and mechanical force.
ZR-KVV ₂₂	ZR-KYJV ₂₂	Copper conductor PVC (XLPE) insulated steel tape armored PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline, direct burial withstand mechanical force.
ZR-KVV ₃₂	ZR-KYJV ₃₂	Copper conductor PVC (XLPE) insulated steel wire armored PVC sheathed (flame retardant) control cable	Applied fixed indoors, cable trench, pipeline, direct burial withstand more pulling force.
ZR-KVVR	ZR-KYJVR	Copper conductor PVC (XLPE) insulated PVC sheathed (flame retardant) control flexible cable	Flexible for moving
ZR-KVVRP	ZR-KYJVRP	Copper conductor PVC (XLPE) insulated braid shield PVC sheathed (flame retardant) control flexible cable	Flexible for moving and withstand electromagnetic inference
NH-KVV	NH-KYJV	Copper conductor PVC (XLPE) insulated PVC sheathed fire resistant control cable	Applied fixed indoors, cable trench, pipeline, with fire-resistant requirement.
NH-KVVP	NH-KYJVP	Copper conductor PVC (XLPE)	Applied fixed indoors, cable

		insulated braid shield PVC sheathed (flame retardant) fire resistant control cable	trench, pipeline, withstand electromagnetic interference and with fire resistant requirement.
NH-KVVP ₂₂	NH-KYJVP ₂₂	Copper conductor PVC (XLPE) insulated braid shield steel tape armored PVC sheathed (flame retardant) fire resistant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference and mechanical force with fire resistant requirement.
NH-KVVP ₂	NH-KYJVP ₂	Copper conductor PVC (XLPE) insulated copper tape shield PVC sheathed (flame retardant) fire resistant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference and with fire-resistant requirement.
NH-KVVP _{2,22}	NH-KYJVP _{2,22}	Copper conductor PVC (XLPE) insulated copper tape shield steel tape armored PVC sheathed (flame retardant) fire resistant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference and mechanical force with fire resistant requirement.
NH-KVV ₂₂	NH-KYJV ₂₂	Copper conductor PVC (XLPE) insulated steel tape armored PVC sheathed fire resistant control cable	Applied fixed indoors, cable trench, pipeline, direct burial withstand mechanical force with fire resistant requirement.
NH-KVV ₃₂	NH-KYJV ₃₂	Copper conductor PVC (XLPE) insulated steel wire armored PVC sheathed fire resistant control cable	Applied fixed indoors, cable trench, pipeline, direct burial withstand more pulling force with fire resistant requirement.
WDZ-KYY	WDZ-KYJY	Copper conductor PE (XLPE) insulated LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, and etc.
WDZ-KYYP	WDZ-KYJYP	Copper conductor PE (XLPE) insulated braid shield LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference.
WDZ-KYYP ₂₂	WDZ-KYJYP ₂₂	Copper conductor PE (XLPE) insulated braid shield steel tape armored LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference and withstand mechanical force.
WDZ-KYYP ₂	WDZ-KYJYP ₂	Copper conductor PE (XLPE) insulated copper tape shield LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference.
WDZ-KYYP _{2,22}	WDZ-KYJYP _{2,22}	Copper conductor PE (XLPE) insulated copper tape shield steel tape armored LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, withstand electromagnetic interference and mechanical force.
WDZ-KYY ₂₂	WDZ-KYJY ₂₂	Copper conductor PE (XLPE) insulated steel tape armored LSOH	Applied fixed indoors, cable trench, pipeline, direct burial

		sheathed flame retardant control cable	withstand mechanical force.
WDZ-KYY ₃₂	WDZ-KYJY ₃₂	Copper conductor PE (XLPE) insulated steel wire armored LSOH sheathed flame retardant control cable	Applied fixed indoors, cable trench, pipeline, direct burial withstand more pulling force.
WDZ-KYYR	WDZ-KYJYR	Copper conductor PE (XLPE) insulated LSOH sheathed flame retardant control flexible cable	Flexible for moving.
WDZ-KYYRP	WDZ-KYJYRP	Copper conductor PE (XLPE) insulated braid shield LSOH sheathed flame retardant flexible control cable	Flexible for moving and withstand electromagnetic interference.

2. Structure and Diameter (Table4~11)

Table 4

PVC/XLPE insulated (steel tape armored) PVC sheathed (flame retardant) control cable

ZR-KVV、ZR-KYJV				ZR-KVV ₂₂ 、ZR-KYJV ₂₂			
Core× area mm ²	Outer diameter mm	Approx. weight kg/km		Core× area mm ²	Outer diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
2×0.75	7.7	64.7	61.31	2×0.75	9.7	138.85	135.69
2×1	8.1	73.4	69.93	2×1	10.1	151.53	148.06
2×1.5	9.0	93.80	89.00	2×1.5	11.0	181.11	176.31
2×2.5	10.2	127.72	121.01	2×2.5	12.2	227.30	220.59
2×4	11.7	180.43	172.52	2×4	13.7	292.02	284.11
2×6	12.7	231.09	221.88	2×6	14.7	352.99	343.78
2×10	16.1	364.88	348.81	2×10	18.1	521.45	505.38
3×0.75	8.1	77.85	73.10	3×0.75	10.1	156.10	151.35
3×1	8.4	88.49	83.28	3×1	10.4	169.97	164.76
3×1.5	9.4	115.88	108.69	3×1.5	11.4	207.46	200.27
3×2.5	10.7	161.95	151.89	3×2.5	12.7	266.78	256.72
3×4	12.3	230.74	218.88	3×4	14.3	348.49	336.63
3×6	13.4	301.99	288.17	3×6	15.4	430.99	417.17
3×10	17.1	483.36	459.25	3×10	19.1	649.98	625.87
4×0.75	8.7	93.26	86.93	4×0.75	10.7	177.59	171.26
4×1	9.1	107.60	100.66	4×1	11.1	195.96	189.02
4×1.5	10.2	142.39	132.80	4×1.5	12.2	241.94	232.35
4×2.5	12.2	216.72	203.31	4×2.5	14.2	333.43	320.02
4×4	13.4	287.51	271.70	4×4	15.4	416.25	400.44
4×6	14.6	380.51	362.09	4×6	16.6	521.62	503.20
4×10	19.1	630.40	598.26	4×10	21.1	815.14	783.00
5×0.75	9.4	109.49	101.58	5×0.75	11.4	200.81	192.90
5×1	9.8	127.07	118.39	5×1	11.8	222.57	213.89
5×1.5	11.0	169.33	157.34	5×1.5	13.6	294.72	282.73

5×2.5	13.2	258.91	242.15	5×2.5	15.2	385.82	369.06
5×4	14.5	346.50	326.73	5×4	16.5	486.57	466.80
5×6	15.9	460.74	437.71	5×6	17.9	615.08	592.05
5×10	20.8	767.10	726.92	5×10	22.8	969.42	929.24
6×0.75	10.0	125.88	116.39	6×0.75	12.0	223.62	214.13
6×1	10.5	146.86	136.45	6×1	12.5	249.64	239.23
6×1.5	12.4	212.68	198.29	6×1.5	14.4	331.59	317.20
6×2.5	14.2	301.81	281.69	6×2.5	16.2	439.11	418.99
6×4	15.7	407.16	383.44	6×4	17.7	559.46	535.74
6×6	17.2	543.83	516.20	6×6	19.2	711.57	683.94
6×10	22.7	908.90	860.69	6×10	24.7	1130.43	1082.22
7×0.75	10.0	132.03	120.96	7×0.75	12.0	229.77	218.70
7×1	10.5	155.00	142.85	7×1	12.5	257.78	245.63
7×1.5	12.4	225.25	208.47	7×1.5	14.4	344.16	327.38
7×2.5	14.2	322.52	299.05	7×2.5	16.2	459.82	436.35
7×4	15.7	449.67	422.00	7×4	17.7	601.97	574.30
7×6	17.2	605.10	572.86	7×6	19.2	772.84	740.60
7×10	22.7	1012.17	955.92	7×10	24.7	1233.70	1177.45
8×0.75	10.7	152.81	140.16	8×0.75	12.7	257.62	244.97
8×1	11.8	194.39	180.51	8×1	13.8	307.07	293.19
8×1.5	13.3	260.95	241.77	8×1.5	15.3	388.91	369.73
8×2.5	15.3	375.60	348.77	8×2.5	17.3	523.93	497.10
8×4	17.3	525.44	493.81	8×4	19.3	674.93	643.30
8×6	18.9	704.96	668.11	8×6	20.9	887.90	851.05
8×10	24.5	1154.20	1089.92	8×10	26.5	1394.32	1330.04
9×0.75	12.2	188.50	174.27	9×0.75	14.2	305.21	290.98
9×1	12.8	219.83	204.21	9×1	14.8	342.63	327.01
9×1.5	14.5	296.14	274.56	9×1.5	16.5	436.18	414.60
9×2.5	16.7	426.35	396.17	9×2.5	18.7	588.97	558.79
9×4	18.8	595.51	559.93	9×4	20.8	777.42	741.84
9×6	20.7	800.32	758.87	9×6	22.7	1001.61	960.16
9×10	27.0	1315.00	1242.68	9×10	29.0	1580.52	1508.20
10×0.75	12.9	200.06	184.27	10×0.75	14.9	323.83	308.04
10×1	13.5	233.69	216.36	10×1	15.5	363.77	346.44
10×1.5	15.3	314.86	290.92	10×1.5	17.3	463.34	439.40
10×2.5	17.7	455.02	421.53	10×2.5	19.7	628.04	594.55
10×4	20.0	638.47	598.98	10×4	22.0	832.59	793.10
10×6	22.0	859.86	813.87	10×6	24.0	1074.59	1028.60
10×10	28.8	1409.05	1328.81	10×10	30.8	1693.15	1612.91
11×0.75	13.2	213.10	195.74	11×0.75	15.2	340.15	322.79
11×1	13.9	249.81	230.76	11×1	15.9	383.86	364.81
11×1.5	15.8	338.10	311.77	11×1.5	17.8	491.46	465.13
11×2.5	18.7	506.69	469.87	11×2.5	20.7	687.36	650.54

11×4	20.6	688.99	645.58	11×4	22.6	889.27	845.86
11×6	22.7	930.91	880.34	11×6	24.7	1152.75	1102.18
12×0.75	13.2	224.49	205.55	12×0.75	15.2	351.54	332.60
12×1	13.9	264.05	243.26	12×1	15.9	398.10	377.31
12×1.5	15.8	358.95	330.22	12×1.5	17.8	512.31	483.58
12×2.5	18.7	539.53	499.36	12×2.5	20.7	720.20	680.03
12×4	20.6	736.83	689.47	12×4	22.6	937.11	889.75
12×6	22.7	998.97	943.80	12×6	24.7	1220.81	1165.64
13×0.75	13.9	241.32	220.81	13×0.75	15.9	375.11	354.60
13×1	14.6	283.95	261.44	13×1	16.6	424.93	402.42
13×1.5	16.6	386.33	355.22	13×1.5	18.6	547.70	516.59
13×2.5	19.6	580.38	536.88	13×2.5	21.6	770.25	726.75
13×4	21.7	794.23	742.94	13×4	23.7	1005.52	954.23
13×6	23.9	1078.12	1018.37	13×6	25.9	1312.07	1252.32
14×0.75	13.9	252.71	230.61	14×0.75	15.9	386.50	364.40
14×1	14.6	298.19	273.94	14×1	16.6	439.17	414.92
14×1.5	16.6	407.20	373.69	14×1.5	18.6	568.57	535.06
14×2.5	19.6	613.22	566.37	14×2.5	21.6	803.09	756.24
14×4	21.7	842.07	786.83	14×4	23.7	1053.36	998.12
14×6	23.9	1146.21	1081.85	14×6	25.9	1380.16	1315.80
15×0.75	14.5	269.12	245.45	15×0.75	16.5	409.21	385.54
15×1	15.3	318.50	292.53	15×1	17.3	466.60	440.63
15×1.5	17.4	435.04	399.15	15×1.5	19.4	604.69	568.80
15×2.5	20.6	656.07	605.89	15×2.5	22.6	856.14	805.96
16×0.75	14.5	280.51	255.26	16×0.75	16.5	420.60	395.35
16×1	15.3	332.72	305.02	16×1	17.3	480.82	453.12
16×1.5	17.4	455.89	417.61	16×1.5	19.4	625.54	587.26
16×2.5	20.6	688.92	638.39	16×2.5	22.6	888.99	835.46
17×0.75	15.2	298.33	271.51	17×0.75	17.2	445.50	418.68
17×1	16.0	353.38	323.95	17×1	18.0	508.73	479.30
17×1.5	18.6	500.41	459.75	17×1.5	20.6	680.22	639.56
17×2.5	21.6	732.45	675.59	17×2.5	23.6	942.95	886.09
18×0.75	15.2	309.71	281.31	18×0.75	17.2	456.88	428.48
18×1	16.0	367.62	336.45	18×1	18.0	522.97	491.80
18×1.5	18.6	521.27	478.21	18×1.5	20.6	701.08	658.02
18×2.5	21.6	765.30	705.08	18×2.5	23.6	975.80	915.58
19×0.75	15.2	315.79	285.82	19×0.75	17.2	462.96	432.99
19×1	16.0	375.66	342.77	19×1	18.0	531.01	498.12
19×1.5	18.6	533.73	488.28	19×1.5	20.6	713.54	668.09
19×2.5	21.6	785.79	722.24	19×2.5	23.6	996.29	932.74
20×0.75	15.5	329.41	297.85	20×0.75	17.5	479.85	448.29
20×1	16.3	392.12	357.49	20×1	18.3	550.84	516.21
20×1.5	19.1	558.68	510.84	20×1.5	21.1	743.41	695.57

20×2.5	22.2	823.58	756.68	20×2.5	24.2	1039.98	973.08
21×0.75	15.9	348.75	315.63	21×0.75	17.9	503.04	469.92
21×1	16.7	414.94	378.59	21×1	18.7	577.57	541.22
21×1.5	19.5	590.91	540.69	21×1.5	21.5	779.77	729.55
21×2.5	22.7	872.43	802.20	21×2.5	24.7	1093.98	1023.75
22×0.75	16.8	369.85	335.16	22×0.75	16.8	533.38	498.69
22×1	17.7	440.28	402.28	22×1	17.7	613.02	574.94
22×1.5	20.6	626.20	573.60	22×1.5	20.6	826.51	773.91
22×2.5	24.1	924.18	850.62	22×2.5	24.1	1160.01	1086.45
23×0.75	17.4	385.59	349.33	23×0.75	19.4	555.54	519.28
23×1	18.8	475.88	436.09	23×1	20.8	657.65	617.86
23×1.5	21.5	654.24	599.27	23×1.5	23.5	863.61	808.64
23×2.5	25.1	964.95	888.08	23×2.5	27.1	1211.15	1134.28
24×0.75	17.4	388.71	350.87	24×0.75	19.4	558.86	520.82
24×1	18.8	480.60	439.07	24×1	20.8	662.37	620.84
24×1.5	21.5	661.50	604.12	24×1.5	23.5	870.87	813.49
24×2.5	25.1	978.17	897.95	24×2.5	27.1	1224.37	1144.15
25×0.75	17.8	402.94	363.54	25×0.75	19.8	576.78	537.38
25×1	19.2	498.00	454.75	25×1	21.2	683.76	640.51
25×1.5	21.9	685.48	625.73	25×1.5	23.9	899.12	839.37
25×2.5	25.6	1014.84	931.30	25×2.5	27.6	1266.28	1182.74
26×0.75	17.8	414.26	373.28	26×0.75	19.8	588.10	547.12
26×1	19.2	512.13	467.16	26×1	21.2	697.89	652.92
26×2.5	25.6	1047.45	960.58	26×2.5	27.6	1298.89	1212.02
27×0.75	17.8	425.65	383.09	27×0.75	19.8	599.49	556.93
27×1	19.2	526.35	479.65	27×1	21.2	712.11	665.41
27×1.5	21.9	727.06	662.53	27×1.5	23.9	940.70	876.17
27×2.5	25.6	1080.30	990.08	27×2.5	27.6	1331.74	1241.52
28×0.75	18.8	457.73	413.61	28×0.75	20.8	639.42	595.30
28×1	19.8	545.42	497.00	28×1	21.8	737.44	689.02
28×1.5	22.7	754.32	687.42	28×1.5	24.7	975.94	909.04
28×2.5	26.6	1121.10	1027.55	28×2.5	28.6	1382.42	1288.87
29×0.75	18.8	469.12	423.41	29×0.75	20.8	650.81	605.10
29×1	19.8	559.66	509.50	29×1	21.8	751.68	701.52
29×1.5	22.7	775.19	705.89	29×1.5	24.7	996.81	927.51
29×2.5	26.6	1153.94	1057.04	29×2.5	28.6	1415.26	1318.36
30×0.75	18.8	480.43	433.15	30×0.75	20.8	662.12	614.84
30×1	19.8	573.79	521.91	30×1	21.8	765.81	713.93
30×1.5	22.7	795.90	724.22	30×1.5	24.7	1017.52	945.84
30×2.5	26.6	1186.57	1086.34	30×2.5	28.6	1447.89	1347.66
31×0.75	19.4	500.57	451.73	31×0.75	21.4	688.59	639.75
31×1	20.5	598.48	544.88	31×1	22.5	797.65	744.05
31×1.5	23.5	829.80	755.75	31×1.5	25.5	1059.70	985.65

31×2.5	28.1	1272.77	1169.22	31×2.5	30.1	1506.97	1403.42
32×0.75	19.4	511.88	461.47	32×0.75	21.4	699.90	649.49
32×1	20.5	612.61	557.29	32×1	22.5	811.78	756.46
32×1.5	23.5	850.53	774.09	32×1.5	25.5	1080.43	1003.99
32×2.5	28.1	1305.39	1198.51	32×2.5	30.1	1539.59	1432.71
33×0.75	19.4	523.27	471.28	33×0.75	21.4	711.29	659.30
33×1	20.5	626.85	569.79	33×1	22.5	826.02	768.96
33×1.5	23.5	871.37	792.54	33×1.5	25.5	1101.27	1022.44
33×2.5	28.1	1338.24	1228.01	33×2.5	30.1	1572.44	1462.21
34×0.75	20.1	541.67	488.11	34×0.75	22.1	736.77	683.21
34×1	21.2	648.06	589.28	34×1	23.2	854.48	795.70
34×1.5	24.4	901.14	819.93	34×1.5	26.4	1140.08	1058.87
34×2.5	29.2	1383.95	1270.40	34×2.5	32.2	1950.11	1836.56
35×0.75	20.1	552.98	497.85	35×0.75	22.1	748.08	692.95
35×1	21.2	662.19	601.69	35×1	23.2	868.61	808.11
35×1.5	24.4	921.85	838.26	35×1.5	26.4	1160.79	1077.20
35×2.5	29.2	1416.58	1299.70	35×2.5	32.2	1982.74	1865.86
36×0.75	20.1	564.36	507.65	36×0.75	22.1	759.46	702.75
36×1	21.2	676.41	614.18	36×1	23.2	882.83	820.60
36×1.5	24.4	942.70	856.72	36×1.5	26.4	1181.64	1095.66
37×1	21.2	684.40	620.45	37×1	23.2	890.82	826.87
37×1.5	24.4	955.10	866.74	37×1.5	26.4	1194.04	1105.68
37×2.5	29.2	1469.82	1346.27	37×2.5	32.2	2035.98	1912.43

Table 5

PVC/XLPE insulated braid shield (steel tape armored) PVC sheathed (flame retardant) control cable

ZR-KVVP、ZR-KYJVP				ZR-KVVP ₂₂ 、ZR-KYJVP ₂₂			
Core× area mm ²	Outer diameter mm	Approx. weight kg/km		Core× area mm ²	Out diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
2×0.75	8.9	94.80	91.37	2×0.75	11.9	206.37	202.94
2×1	9.3	104.78	101.00	2×1	12.3	220.44	216.66
2×1.5	10.2	128.09	122.90	2×1.5	13.2	272.31	267.11
2×2.5	11.6	168.44	161.07	2×2.5	14.6	329.92	322.55
2×4	13.4	240.27	231.61	2×4	16.4	399.93	391.26
2×6	14.5	294.31	284.27	2×6	17.5	466.24	456.20
2×10	17.1	423.74	407.87	2×10	20.1	643.10	627.23
3×0.75	9.3	111.47	106.33	3×0.75	12.3	227.26	222.12
3×1	9.7	124.40	118.73	3×1	12.7	244.59	238.92
3×1.5	10.7	153.70	145.91	3×1.5	13.7	303.90	296.10
3×2.5	12.2	208.68	197.62	3×2.5	15.2	977.47	366.41
3×4	14.1	298.10	285.10	3×4	17.1	465.19	452.19

3×6	15.2	370.84	355.78	3×6	18.2	551.16	536.10
3×10	18.0	544.35	520.54	3×10	21.0	775.20	751.39
4×0.75	9.9	131.57	124.71	4×0.75	12.9	254.48	247.62
4×1	10.4	147.94	140.38	4×1	13.4	293.83	286.27
4×1.5	11.5	184.76	174.37	4×1.5	14.5	345.06	334.66
4×2.5	13.9	285.86	271.11	4×2.5	16.9	451.52	436.77
4×4	15.2	361.75	344.42	4×4	18.2	541.41	524.08
4×6	16.5	457.70	437.61	4×6	19.5	652.19	632.10
4×10	20.0	696.09	664.34	4×10	23.0	928.91	897.16
5×0.75	10.6	147.80	139.22	5×0.75	13.6	296.93	288.35
5×1	11.1	167.66	158.21	5×1	14.1	322.96	313.51
5×1.5	12.4	212.29	199.30	5×1.5	15.4	383.69	370.70
5×2.5	15.0	335.50	317.06	5×2.5	18.0	513.32	494.89
5×4	16.4	427.49	405.82	5×4	19.4	620.98	599.31
5×6	17.9	543.88	518.77	5×6	20.9	772.46	747.35
5×10	21.8	834.06	794.37	5×10	24.8	1086.68	1046.99
6×0.75	11.4	167.55	157.26	6×0.75	14.4	325.85	315.56
6×1	11.9	191.44	180.10	6×1	14.9	356.60	345.26
6×1.5	13.9	261.57	245.98	6×1.5	16.9	426.68	411.09
6×2.5	16.1	385.78	363.66	6×2.5	19.1	576.36	554.24
6×4	17.7	495.37	469.37	6×4	20.7	721.71	695.71
6×6	19.3	633.41	603.28	6×6	22.3	879.60	849.47
6×10	23.6	977.10	929.47	6×10	25.6	1250.50	1202.87
7×0.75	11.4	178.69	166.68	7×0.75	14.4	336.99	324.99
7×1	11.9	205.03	191.81	7×1	14.9	370.19	356.96
7×1.5	13.9	281.41	263.23	7×1.5	16.9	446.52	428.34
7×2.5	16.1	413.56	387.75	7×2.5	19.1	604.14	578.34
7×4	17.7	541.70	511.36	7×4	20.7	768.04	737.71
7×6	19.3	698.14	662.99	7×6	22.3	944.33	909.18
7×10	23.6	1082.50	1026.94	7×10	25.6	1355.90	1300.34
8×0.75	12.1	199.03	185.31	8×0.75	15.1	366.51	352.80
8×1	13.3	246.01	230.89	8×1	16.3	403.92	388.80
8×1.5	15.0	329.44	308.66	8×1.5	18.0	507.27	486.48
8×2.5	17.3	463.22	433.73	8×2.5	20.3	684.56	655.07
8×4	19.3	620.65	585.98	8×4	22.3	845.56	811.10
8×6	21.1	799.05	758.87	8×6	24.1	1044.44	1004.26
8×10	25.6	1241.48	1177.97	8×10	28.6	1537.93	1474.42
9×0.75	13.6	238.74	223.31	9×0.75	16.6	400.86	385.42
9×1	14.5	287.79	270.79	9×1	17.5	459.76	442.75
9×1.5	16.2	366.60	343.22	9×1.5	19.2	558.34	534.96
9×2.5	18.8	517.14	483.96	9×2.5	21.8	756.82	723.64
9×4	21.0	693.38	654.38	9×4	24.0	937.84	898.83
9×6	23.0	894.49	849.30	9×6	26.0	1161.67	1116.47

9×10	28.1	1390.94	1319.50	9×10	31.1	1715.10	1643.65
10×0.75	14.6	274.53	257.41	10×0.75	17.6	447.15	430.02
10×1	15.3	313.74	294.87	10×1	18.3	494.54	475.67
10×1.5	17.2	401.54	375.60	10×1.5	20.2	603.73	577.78
10×2.5	19.9	567.48	530.66	10×2.5	22.9	820.90	784.08
10×4	22.3	762.68	719.40	10×4	25.3	1021.64	978.36
10×6	24.7	1012.92	962.77	10×6	27.7	1298.71	1248.56
10×10	29.9	1536.34	1457.06	10×10	32.9	1925.05	1845.78
11×0.75	14.9	289.83	271.00	11×0.75	17.9	466.66	447.83
11×1	15.7	332.02	311.28	11×1	18.7	517.36	496.62
11×1.5	17.6	425.97	397.44	11×1.5	20.6	651.84	623.31
11×2.5	20.9	624.43	583.95	11×2.5	23.9	866.73	826.26
11×4	23.0	816.54	768.96	11×4	26.0	1082.94	1035.36
11×6	25.4	1086.35	1031.22	11×6	28.4	1380.54	1325.40
12×0.75	14.9	301.87	281.35	12×0.75	17.9	478.71	458.17
12×1.5	17.6	447.22	416.10	12×1.5	20.6	673.09	641.96
11×2.5	20.9	658.76	614.59	11×2.5	23.9	901.06	856.90
12×4	23.0	865.69	813.77	12×4	26.0	1132.09	1080.17
12×6	25.4	1154.71	1094.55	12×6	28.4	1448.90	1388.74
13×0.75	15.6	321.98	299.73	13×0.75	18.6	505.94	483.70
13×1	16.4	370.68	346.17	13×1	19.4	563.68	539.17
13×1.5	18.4	478.67	444.96	13×1.5	21.4	714.28	680.58
13×2.5	21.8	706.34	658.52	13×2.5	24.8	959.71	911.88
13×4	24.1	929.83	873.62	13×4	27.1	1208.80	1152.58
13×6	26.7	1241.42	1176.28	13×6	29.7	1549.77	1484.63
14×0.75	15.6	334.03	310.07	14×0.75	18.6	517.99	494.03
14×1	16.4	385.69	359.29	14×1	19.4	578.69	552.29
14×1.5	18.4	499.92	463.62	14×1.5	21.4	735.53	699.23
14×2.5	21.8	740.67	689.16	14×2.5	24.8	994.04	942.53
14×4	24.1	978.98	918.43	14×4	27.1	1257.95	1197.40
14×6	26.7	1309.78	1239.62	14×6	29.7	1618.13	1547.96
15×0.75	16.2	355.70	330.03	15×0.75	19.2	547.50	521.83
15×1	17.1	410.97	382.69	15×1	20.1	612.39	584.11
15×1.5	19.3	533.30	494.42	15×1.5	22.3	779.64	740.75
15×2.5	22.9	791.01	735.84	15×2.5	25.9	1056.54	1001.37
16×0.75	16.2	367.75	340.37	16×0.75	19.2	559.55	532.17
16×1	17.1	425.97	395.81	16×1	20.1	627.40	597.23
16×1.5	19.3	554.55	513.07	16×1.5	22.3	800.89	759.41
16×2.5	22.9	825.34	766.48	16×2.5	25.9	1090.87	1032.01
26×0.75	19.7	531.92	487.49	26×0.75	22.7	783.38	738.95
26×1	21.2	641.36	592.40	26×1	24.2	887.81	838.85
26×1.5	24.1	843.42	776.10	26×1.5	27.1	1122.85	1055.53
26×2.5	28.5	1272.13	1176.61	26×2.5	31.5	1643.58	1548.06

27×0.75	19.7	543.97	497.82	27×0.75	22.7	795.43	749.28
27×1	21.2	656.37	605.52	27×1	24.2	902.81	851.97
27×1.5	24.1	864.67	794.76	27×1.5	27.1	1144.10	1074.18
27×2.5	28.5	1306.46	1207.25	27×2.5	31.5	1677.91	1578.80
28×0.75	20.8	583.14	535.29	28×0.75	23.8	825.03	777.19
28×1	21.9	680.94	628.22	28×1	24.9	935.34	882.63
28×1.5	25.1	924.94	851.73	28×1.5	28.1	1215.02	1142.53
28×2.5	29.5	1355.56	1252.71	28×2.5	32.5	1739.71	1636.85
29×0.75	20.8	595.18	545.62	29×0.75	23.8	837.08	787.52
29×1	21.9	695.94	641.34	29×1	24.9	950.35	895.74
29×1.5	25.1	945.47	870.39	29×1.5	28.1	1236.27	1161.19
29×2.5	29.5	1389.89	1283.35	29×2.5	32.5	1774.04	1667.49
30×0.75	20.8	607.15	555.88	30×0.75	23.8	849.05	797.78
30×1	21.9	710.85	654.36	30×1	24.9	965.25	908.77
30×1.5	25.1	966.58	888.92	30×1.5	28.1	1257.38	1179.71
30×2.5	29.5	1423.99	1313.78	30×2.5	32.5	1808.13	1697.93
31×0.75	21.4	628.15	575.19	31×0.75	24.4	876.87	823.91
31×1.5	26.0	1002.12	921.89	31×1.5	30.0	1303.16	1222.92
31×2.5	31.2	1516.80	1402.94	31×2.5	35.2	1874.11	1760.25
32×0.75	21.4	640.12	585.45	32×0.75	24.4	888.84	834.17
32×1	22.7	752.46	692.22	32×1	25.7	1015.96	955.73
32×1.5	26.0	1023.23	940.41	32×1.5	29.0	1324.27	1241.45
32×2.5	31.2	1550.90	1433.38	32×2.5	34.2	1908.20	1790.69
33×0.75	21.4	652.16	595.78	33×0.75	24.4	900.86	844.50
33×1	22.7	767.46	705.34	33×1	25.7	1030.97	968.85
33×1.5	26.0	1044.48	959.07	33×1.5	29.0	1345.52	1260.10
33×2.5	31.2	1585.23	1464.02	33×2.5	34.2	1942.53	1821.35
34×0.75	22.2	675.35	617.26	34×0.75	25.2	933.16	875.08
34×1	23.4	792.68	728.69	34×1	26.4	1064.15	1000.16
34×1.5	26.9	1079.63	991.64	34×1.5	29.9	1390.90	1302.91
34×2.5	32.3	1637.91	1513.05	34×2.5	35.3	2329.72	2204.87

Table 6

PVC/XLPE insulated copper tape shield (steel tape armored) PVC sheathed (flame retardant) control cable

ZR-KVVP ₂ 、ZR-KYJVP ₂				ZR-KVVP ₂₋₂₂ 、ZR-KYJVP ₂₋₂₂			
Core× area mm ²	mm Out diameter	Approx. weight kg/km		Core× area mm ²	Out diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC 绝缘 Insulation	XLPE 绝缘 Insulation
2×0.75	7.6	73.57	70.40	2×0.75	10.6	170.01	166.85
2×1	7.9	82.61	79.14	2×1	10.9	182.69	179.22
2×1.5	8.8	104.35	99.55	2×1.5	11.8	214.67	209.87
2×2.5	10.0	140.27	133.57	2×2.5	13.0	281.83	275.12

2×4	11.6	195.35	187.45	2×4	14.6	333.97	326.06
2×6	12.6	247.85	238.63	2×6	15.6	398.06	388.85
2×10	16.0	381.58	365.51	2×10	19.0	570.24	554.16
3×0.75	8.0	87.29	82.5	3×0.75	11.0	187.71	182.96
3×1	8.3	98.88	93.67	3×1	11.3	203.21	198.01
3×1.5	9.3	127.37	120.18	3×1.5	12.3	242.73	235.54
3×2.5	10.6	175.39	165.33	3×2.5	13.6	323.74	313.68
3×4	12.2	246.76	234.90	3×4	15.2	392.29	380.43
3×6	13.3	319.65	305.83	3×6	16.3	477.67	463.85
3×10	16.9	497.95	473.84	3×10	19.9	697.37	673.26
4×0.75	8.5	103.80	97.48	4×0.75	11.5	210.93	204.61
4×1	8.9	118.83	111.89	4×1	11.9	230.35	223.41
4×1.5	10.0	154.83	145.24	4×1.5	13.0	278.71	269.12
4×2.5	12.1	231.41	218.00	4×2.5	15.1	375.72	362.30
4×4	13.2	304.89	289.07	4×4	16.2	462.10	446.28
4×6	14.4	399.83	381.40	4×6	17.4	571.04	552.61
4×10	18.9	644.36	612.22	4×10	21.9	864.61	832.47
5×0.75	9.2	121.04	113.14	5×0.75	12.2	235.56	227.65
5×1	9.6	139.65	130.97	5×1	12.6	259.07	250.40
5×1.5	11.4	198.03	186.04	5×1.5	14.4	335.23	323.24
5×2.5	13.1	275.14	258.37	5×2.5	16.1	430.76	414.00
5×4	14.3	366.11	346.34	5×4	17.3	536.16	516.39
5×6	15.7	482.07	459.04	5×6	18.7	667.79	644.76
5×10	20.7	781.35	741.17	5×10	23.7	1021.60	981.42
6×0.75	9.9	139.24	129.75	6×0.75	12.9	261.50	252.01
6×1	10.4	161.06	150.64	6×1	13.4	306.80	296.38
6×1.5	12.3	228.43	214.04	6×1.5	15.3	375.46	361.07
6×2.5	14.1	320.01	299.89	6×2.5	17.1	487.51	467.39
6×4	15.5	428.83	405.11	6×4	18.5	612.37	588.64
6×6	17.1	567.70	540.07	6×6	20.1	768.63	741.00
6×10	22.5	922.71	874.50	6×10	25.5	1183.94	1135.73
7×0.75	9.9	145.39	134.32	7×0.75	12.9	267.65	256.58
7×1	10.4	169.19	157.04	7×1	13.4	314.93	302.78
7×1.5	12.3	240.81	224.02	7×1.5	15.3	387.83	371.05
7×2.5	14.1	340.33	316.86	7×2.5	17.1	507.83	484.36
7×4	15.5	471.17	443.50	7×4	18.5	654.71	627.03
7×6	17.1	628.63	596.39	7×6	20.1	829.56	797.32
7×10	22.5	1022.35	966.10	7×10	25.5	1283.58	1227.33
8×0.75	11.2	181.73	169.08	8×0.75	14.2	315.69	303.04
8×1	11.7	210.05	196.17	8×1	14.7	350.02	336.13
8×1.5	13.2	277.72	258.53	8×1.5	16.2	434.57	415.39
8×2.5	15.2	394.66	367.83	8×2.5	18.2	574.03	547.20
8×4	17.1	548.85	517.22	8×4	20.1	730.99	699.36

8×6	18.8	730.95	694.10	8×6	21.8	949.74	912.89
8×10	24.4	1164.77	1100.49	8×10	27.4	1446.99	1382.70
9×0.75	12.1	204.76	190.53	9×0.75	15.1	349.05	334.82
9×1	12.7	237.19	221.57	9×1	15.7	388.21	372.59
9×1.5	14.3	314.62	293.04	9×1.5	17.3	484.57	462.99
9×2.5	16.5	447.70	417.53	9×2.5	19.5	642.91	612.73
9×4	18.7	622.49	586.91	9×4	21.7	840.11	804.53
9×6	20.6	829.37	787.92	9×6	23.6	1068.45	1027.00
9×10	26.8	1326.46	1254.14	9×10	29.8	1636.65	1564.33
10×0.75	12.8	217.52	201.73	10×0.75	15.8	369.55	353.76
10×1	13.4	252.72	235.39	10×1	16.4	412.03	394.70
10×1.5	15.2	335.31	311.36	10×1.5	18.2	515.09	491.14
10×2.5	18.0	494.01	460.52	10×2.5	21.0	703.72	670.24
10×4	19.9	667.49	628.00	10×4	22.9	898.58	859.10
10×6	21.9	891.53	845.54	10×6	24.9	1145.82	1099.83
10×10	28.7	1420.97	1340.72	10×10	31.7	1794.32	1714.07
11×0.75	13.1	231.63	214.27	11×0.75	16.1	387.64	370.27
11×1	13.8	269.39	250.33	11×1	16.8	432.95	413.90
11×1.5	15.6	358.77	332.44	11×1.5	18.6	543.95	517.27
11×2.5	18.5	530.07	493.26	11×2.5	21.5	745.88	709.07
11×4	20.5	719.11	675.70	11×4	23.5	957.12	913.71
11×6	22.6	963.48	912.91	11×6	25.6	1225.58	1175.01
12×0.75	13.1	243.01	224.07	12×0.75	16.1	399.02	380.08
12×1	13.8	283.62	262.83	12×1	16.8	447.18	426.39
12×1.5	15.6	379.42	350.69	12×1.5	18.6	564.24	535.52
12×2.5	18.5	562.53	522.36	12×2.5	21.5	778.33	738.17
12×4	20.5	766.78	719.41	12×4	23.5	1004.79	957.43
12×6	22.6	1031.21	976.03	12×6	25.6	1293.31	1238.14
13×0.75	13.7	260.23	239.71	13×0.75	16.7	422.95	402.432
13×1	14.4	304.31	281.80	13×1	17.4	475.06	452.55
13×1.5	16.4	407.73	376.62	13×1.5	19.4	601.07	569.96
13×2.5	19.4	604.79	561.29	13×2.5	22.4	830.89	787.39
13×4	21.5	825.48	774.19	13×4	24.5	1075.17	1023.88
13×6	23.8	1111.94	1052.19	13×6	27.8	1387.24	1327.49
14×0.75	13.7	271.62	249.52	14×0.75	16.7	434.33	412.24
14×1	14.4	318.54	294.29	14×1	17.4	489.29	465.04
14×1.5	16.4	428.37	394.87	14×1.5	19.4	621.71	588.21
14×2.5	19.4	637.24	590.39	14×2.5	22.4	863.34	816.49
14×4	21.5	873.16	817.91	14×4	24.5	1122.85	1067.60
14×6	23.8	1179.67	1115.32	14×6	27.8	1451.97	1390.61
15×0.75	14.3	289.63	265.97	15×0.75	17.3	459.74	436.07
15×1	15.1	340.18	314.20	15×1	18.1	518.83	492.86
15×1.5	17.2	457.81	421.93	15×1.5	20.2	660.52	624.63

15×2.5	20.4	681.82	631.44	15×2.5	23.4	919.04	868.86
16×0.75	14.3	301.02	275.77	16×0.75	17.3	471.12	445.87
16×1	15.1	354.41	326.70	16×1	18.1	533.06	505.35
16×1.5	17.2	478.46	440.17	16×1.5	20.2	681.16	642.88
16×2.5	20.4	714.07	660.54	16×2.5	23.4	951.49	897.96
17×0.75	15.0	320.04	293.22	17×0.75	18.0	497.88	471.06
17×1	15.8	376.68	347.25	17×1	18.8	563.63	534.20
17×1.5	18.5	524.79	484.12	17×1.5	21.5	739.96	699.29
17×2.5	21.5	759.65	702.78	17×2.5	24.5	1008.94	952.07
18×0.75	15.0	331.42	303.02	18×0.75	18.0	509.27	480.87
18×1	15.8	390.92	359.75	18×1	18.8	577.86	546.69
18×1.5	18.5	545.43	502.37	18×1.5	21.5	760.60	717.54
18×2.5	21.5	792.10	731.88	18×2.5	24.5	1041.39	981.17
19×0.75	15.0	337.50	307.53	19×0.75	18.0	515.35	485.37
19×1	15.8	398.95	366.06	19×1	18.8	585.90	553.00
19×1.5	18.5	557.67	512.22	19×1.5	21.5	772.84	727.39
19×2.5	21.5	812.20	748.65	19×2.5	24.5	1061.49	997.94
20×0.75	15.4	352.16	320.61	20×0.75	18.4	533.99	502.43
20×1	16.2	416.69	382.07	20×1	19.2	607.89	573.27
20×1.5	18.9	582.86	535.02	20×1.5	21.9	803.08	755.24
20×2.5	22.0	850.15	783.25	20×2.5	25.0	1105.53	1038.63
21×0.75	15.7	371.71	338.59	21×0.75	18.7	557.30	524.18
21×1	16.5	439.89	403.54	21×1	19.5	590.59	555.89
21×1.5	19.3	615.84	565.62	21×1.5	22.3	635.12	598.77
21×2.5	22.5	899.67	829.44	21×2.5	25.5	840.84	790.62
22×0.75	16.6	394.67	359.97	22×0.75	19.6	691.45	653.37
22×1	17.5	466.93	428.85	22×1	20.5	891.72	839.11
22×1.5	20.5	653.62	601.01	22×1.5	23.5	1230.72	1157.16
22×2.5	23.9	953.72	880.16	22×2.5	26.9	615.96	579.70
23×0.75	17.3	412.30	376.04	23×0.75	20.3	721.27	681.48
23×1	18.7	504.05	464.26	23×1	21.7	930.79	875.81
23×1.5	21.4	682.86	627.89	23×1.5	24.4	1285.34	1208.47
23×2.5	25.0	996.47	919.60	23×2.5	29.0	619.09	581.25
24×0.75	17.3	415.42	377.58	24×0.75	20.3	656.60	617.20
24×1	18.7	508.97	467.44	24×1	21.7	726.41	684.89
24×1.5	21.4	690.10	632.73	24×1.5	24.4	938.26	880.88
24×2.5	25.0	100.51	929.29	24×2.5	29.0	1298.60	1218.38
25×0.75	17.7	430.26	390.86	25×0.75	20.7	667.91	626.94
25×1	19.1	527.16	483.92	25×1	22.1	749.16	705.92
25×1.5	21.8	714.65	654.91	25×1.5	24.8	967.35	907.61
25×2.5	25.5	1046.77	963.23	25×2.5	28.5	1341.55	1258.01
26×0.75	17.7	441.57	400.63	26×0.75	20.7	679.30	626.94
26×1	19.1	541.30	496.33	26×1	22.1	763.29	718.33

26×1.5	21.8	735.16	673.03	26×1.5	24.8	987.86	907.61
26×2.5	25.5	1079.00	992.13	26×2.5	28.5	1341.55	1258.01
27×0.75	17.7	468.68	426.12	27×0.75	20.7	590.59	555.89
27×1	19.1	555.53	508.83	27×1	22.1	777.53	730.83
27×1.5	21.8	755.80	691.28	27×1.5	24.8	1008.50	943.98
27×2.5	25.5	1111.46	1021.23	27×2.5	28.5	1406.24	1316.01
28×0.75	18.7	486.11	441.98	28×0.75	21.7	703.55	659.43
28×1	19.7	575.78	527.36	28×1	22.7	804.60	756.18
28×1.5	22.6	784.45	784.45	28×1.5	25.6	1046.25	979.35
28×2.5	26.4	1152.82	1152.82	28×2.5	29.4	1457.84	1364.29
29×0.75	18.7	497.49	451.79	29×0.75	21.7	714.94	669.23
29×1	19.7	590.01	539.86	29×1	22.7	818.83	768.68
29×1.5	22.6	805.10	735.80	29×1.5	25.6	1066.90	997.60
29×2.5	26.4	1185.27	1088.38	29×2.5	29.4	1490.29	1393.39
30×0.75	18.7	508.80	461.53	30×0.75	21.7	726.25	678.97
30×1	19.7	604.15	552.27	30×1	22.7	832.97	781.09
30×1.5	22.6	825.60	753.92	30×1.5	25.6	1087.40	1015.72
30×2.5	26.4	1217.51	1117.28	30×2.5	29.4	1522.52	1422.29
31×0.75	19.3	530.14	481.30	31×0.75	22.3	754.41	705.57
31×1	20.4	630.22	576.63	31×1	23.4	867.00	813.41
31×1.5	23.4	860.88	786.82	31×1.5	26.4	1131.77	1057.72
31×2.5	27.4	1269.40	1165.85	31×2.5	30.4	1585.79	1482.24
32×0.75	19.3	541.45	491.04	32×0.75	22.3	765.72	715.31
32×1	20.4	644.36	589.04	32×1	23.4	881.14	825.82
32×1.5	23.4	881.38	804.94	32×1.5	26.4	1152.28	1075.84
32×2.5	27.4	1301.63	1194.75	32×2.5	30.4	1618.02	1511.14
33×0.75	19.3	552.84	500.84	33×0.75	22.3	777.11	725.11
33×1	20.4	658.59	601.53	33×1	23.4	895.37	838.31
33×1.5	23.4	902.03	823.19	33×1.5	26.4	1172.92	1094.09
33×2.5	27.4	1334.08	1223.85	33×2.5	30.4	1650.47	1540.24
34×0.75	19.3	567.07	513.51	34×0.75	22.3	804.84	751.28
34×1	20.4	675.63	616.85	34×1	23.4	925.91	867.13
34×1.5	23.4	926.23	845.02	34×1.5	26.4	1214.49	1133.28
34×2.5	27.4	1407.93	1294.38	34×2.5	30.4	2041.09	1927.54
36×0.75	20.0	595.31	538.60	36×0.75	23.0	827.54	770.83
36×1	21.1	709.54	647.30	36×1	24.1	954.28	892.04
36×1.5	24.3	974.50	888.52	36×1.5	27.3	1255.64	1169.65
36×2.5	29.1	1482.78	1362.54	36×2.5	32.1	2105.77	1985.54
37×0.75	20.0	601.35	543.07	37×0.75	23.0	833.58	775.30
37×1	21.1	717.53	653.58	37×1	24.1	962.27	898.32
37×1.5	24.3	986.68	898.32	37×1.5	27.3	1267.81	1179.45
37×2.5	29.1	1502.78	1379.22	37×2.5	32.1	2125.78	2002.22

Table 7

PVC/XLPE insulated (braid shield) PVC sheathed (flame retardant) flexible control cable

ZR-KVVVR、ZR-KYJVR				ZR-KVVVRP、ZR-KYJVRP			
Core× area mm ²	Outer diameter mm	kg/km Approx. weight		Core× area mm ²	Outer diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC 绝缘 Insulation	XLPE 绝缘 Insulation
2×0.5	7.6	57.66	54.60	2×0.5	8.5	77.46	74.39
2×0.75	8.0	66.11	62.61	2×0.75	8.9	95.57	92.07
2×1	8.4	74.39	70.56	2×1	9.3	105.64	101.80
2×1.5	9.4	94.39	89.12	2×1.5	10.3	130.10	124.83
2×2.5	10.6	126.34	119.00	2×2.5	11.5	167.41	160.07
2×4	12.2	172.44	163.05	2×4	13.1	220.65	211.27
2×6	14.2	243.03	231.84	2×6	15.1	314.76	303.57
3×0.5	7.9	69.69	65.09	3×0.5	8.8	90.57	85.97
3×0.75	8.4	80.87	75.62	3×0.75	9.3	111.98	106.73
3×1	8.8	92.26	86.51	3×1	9.7	125.30	119.55
3×1.5	9.9	118.62	110.73	3×1.5	10.8	156.46	148.57
3×2.5	11.2	163.10	152.10	3×2.5	12.1	206.72	195.71
3×4	12.9	225.74	211.67	3×4	14.6	310.82	296.74
3×6	15.0	319.36	302.57	3×6	16.1	395.68	378.90
4×0.5	8.5	83.91	77.77	4×0.5	9.4	115.65	109.51
4×0.75	9.0	98.25	91.25	4×0.75	9.9	132.15	125.14
4×1	9.5	112.88	105.22	4×1	10.4	148.94	141.27
4×1.5	10.7	146.01	135.48	4×1.5	11.6	187.45	176.92
4×2.5	12.1	202.23	187.56	4×2.5	13.9	281.93	267.26
4×4	14.7	304.67	285.90	4×4	15.8	379.05	360.28
4×6	16.4	401.40	379.02	4×6	17.5	485.48	463.10
5×0.5	9.1	93.91	86.24	5×0.5	10.1	128.46	120.79
5×0.75	9.7	111.45	102.70	5×0.75	10.6	148.42	139.66
5×1	10.2	129.36	119.77	5×1	11.1	168.73	159.15
5×1.5	11.6	169.95	156.80	5×1.5	12.5	215.35	202.20
5×2.5	13.8	260.40	242.06	5×2.5	14.9	329.77	311.44
5×4	16.0	363.95	340.48	5×4	17.1	445.72	422.26
5×6	17.8	484.79	456.82	5×6	19.0	577.41	549.44
6×0.5	9.8	107.29	98.09	6×0.5	10.7	144.79	135.59
6×0.75	10.4	128.56	118.06	6×0.75	11.3	168.74	158.24
6×1	11.0	149.75	138.25	6×1	11.9	192.61	181.11
6×1.5	12.5	198.18	182.39	6×1.5	14.0	265.84	250.05
6×2.5	14.9	303.93	281.93	6×2.5	16.0	379.68	357.67
6×4	17.3	427.76	399.60	6×4	18.4	517.29	489.13
6×6	19.4	581.84	548.27	6×6	20.5	683.42	649.85
7×0.5	9.8	115.99	104.85	7×0.5	10.7	153.08	142.35

7×0.75	10.4	139.20	126.95	7×0.75	11.3	179.38	167.12
7×1	11.0	163.32	149.90	7×1	11.9	206.17	192.76
7×1.5	12.5	217.56	199.14	7×1.5	14.0	285.22	266.80
7×2.5	14.9	334.21	308.54	7×2.5	16.0	409.95	384.28
7×4	17.3	474.61	441.76	7×4	18.4	564.14	531.28
7×6	19.4	640.59	601.43	7×6	20.5	742.17	703.01
8×0.5	10.5	129.58	117.31	8×0.5	11.4	170.02	157.75
8×0.75	11.1	156.41	142.40	8×0.75	12.0	199.80	185.79
8×1	11.8	183.81	168.48	8×1	13.3	247.30	231.97
8×1.5	14.0	263.68	242.63	8×1.5	15.2	334.43	313.38
8×2.5	16.0	372.42	343.08	8×2.5	17.1	454.54	425.20
8×4	18.7	531.68	494.14	8×4	19.8	628.95	591.41
8×6	21.4	735.83	691.07	8×6	22.5	847.35	802.59
9×0.5	11.3	144.14	130.34	9×0.5	12.3	188.52	174.72
9×0.75	12.1	174.31	158.56	9×0.75	13.6	239.54	223.78
9×1	12.8	205.28	188.03	9×1	14.3	274.79	257.54
9×1.5	15.3	294.30	270.61	9×1.5	16.4	372.17	348.48
9×2.5	17.5	416.51	383.50	9×2.5	18.6	507.13	474.12
9×4	20.4	613.69	571.45	9×4	21.6	703.13	660.89
9×6	23.4	825.42	775.07	9×6	24.6	948.89	898.53
10×0.5	12.0	157.90	142.60	10×0.5	12.9	205.22	189.92
10×0.75	12.8	191.53	174.06	10×0.75	14.3	260.92	243.45
10×1	14.2	243.90	224.78	10×1	15.3	315.62	296.50
10×1.5	16.2	324.01	294.76	10×1.5	17.3	407.22	380.97
10×2.5	18.6	459.71	423.12	10×2.5	19.7	556.70	620.11
10×4	22.2	677.78	630.96	10×4	23.3	794.12	747.30
10×6	25.0	912.63	856.81	10×6	26.3	1074.78	1018.97
11×0.5	12.3	167.56	150.75	11×0.5	13.9	234.29	217.47
11×0.75	13.8	221.66	202.46	11×0.75	14.9	290.92	271.72
11×1	14.6	259.86	238.85	11×1	15.7	333.89	312.87
11×1.5	16.7	345.91	317.06	11×1.5	17.8	431.86	403.01
11×2.5	19.2	492.62	452.41	11×2.5	20.7	610.90	570.69
11×4	22.9	727.82	676.36	11×4	24.0	848.14	796.68
12×0.5	12.3	176.77	158.43	12×0.5	13.9	243.50	225.15
12×0.75	13.8	233.72	212.77	12×0.75	14.9	302.98	282.03
12×1	14.6	274.85	251.92	12×1	15.7	348.87	325.94
12×1.5	16.7	367.34	335.86	12×1.5	17.8	453.29	421.81
12×2.5	19.2	525.74	481.86	12×2.5	20.7	644.03	600.14
12×4	22.9	778.33	722.17	12×4	24.0	898.65	842.49
13×0.5	12.9	189.36	169.49	13×0.5	14.6	274.56	254.70
13×0.75	14.4	250.27	227.59	13×0.75	15.5	323.10	300.42
13×1	15.3	294.67	269.84	13×1	16.4	372.57	347.75
13×1.5	17.5	394.49	360.41	13×1.5	18.6	485.07	450.98

13×2.5	20.1	565.61	518.10	13×2.5	21.7	690.26	642.75
13×4	24.1	837.94	777.15	13×4	25.4	993.52	932.73
14×0.5	12.9	198.57	177.17	14×0.5	14.6	283.77	262.37
14×0.75	14.4	262.33	237.90	14×0.75	15.5	335.17	310.74
14×1	15.3	309.65	282.91	14×1	16.4	387.56	360.81
14×1.5	17.5	415.92	379.20	14×1.5	18.6	506.50	469.78
14×2.5	20.5	616.62	565.45	14×2.5	21.7	723.38	672.21
14×4	24.1	888.45	822.97	14×4	25.4	1044.03	978.55
15×0.5	14.1	230.41	207.60	15×0.5	15.3	301.89	278.98
15×0.75	15.1	280.08	253.92	15×0.75	16.2	356.86	330.70
15×1	16.0	330.72	302.08	15×1	17.1	412.90	384.26
15×1.5	18.4	444.57	405.25	15×1.5	19.5	540.24	500.92
15×2.5	21.6	659.53	604.74	15×2.5	22.7	772.37	717.58
16×0.5	14.1	239.72	215.28	16×0.5	15.3	311.10	286.66
16×0.75	15.1	292.15	264.24	16×0.75	16.2	368.92	341.01
16×1	16.0	345.71	315.15	16×1	17.1	427.88	397.33
16×1.5	18.4	466.00	424.05	16×1.5	19.5	561.67	519.72
16×2.5	21.6	692.66	634.19	16×2.5	22.7	805.50	747.03
17×0.5	14.8	253.87	227.91	17×0.5	15.9	329.04	303.08
17×0.75	15.8	310.06	280.42	17×0.75	16.9	390.97	361.35
17×1	16.8	366.95	334.50	17×1	17.9	453.60	421.15
17×1.5	19.3	495.19	450.64	17×1.5	20.8	614.33	569.78
17×2.5	22.7	736.00	673.91	17×2.5	24.0	882.02	819.93
18×0.5	14.8	263.08	235.59	18×0.5	15.9	338.25	310.76
18×0.75	15.8	322.12	290.73	18×0.75	16.9	403.03	371.64
18×1	16.8	381.94	347.57	18×1	17.9	468.59	434.22
18×1.5	19.3	516.62	469.44	18×1.5	20.8	635.76	588.58
18×2.5	22.7	769.13	703.37	18×2.5	24.0	915.15	849.39
19×0.5	14.8	271.28	242.27	19×0.5	15.9	346.45	317.44
19×0.75	15.8	332.63	299.51	19×0.75	16.9	413.55	380.42
19×1	16.8	395.34	359.08	19×1	17.9	481.99	445.73
19×1.5	19.3	535.77	485.99	19×1.5	20.8	654.92	605.13
19×2.5	22.7	799.05	729.67	19×2.5	24.0	945.07	875.69
20×0.5	15.1	283.00	252.46	20×0.5	16.3	360.11	329.57
20×0.75	16.2	347.43	312.56	20×0.75	17.3	430.47	395.59
20×1	17.2	413.29	375.11	20×1	18.3	502.24	464.06
20×1.5	19.8	560.74	508.33	20×1.5	21.3	683.04	630.63
20×2.5	23.3	836.90	763.85	20×2.5	24.6	986.92	913.87
21×0.5	15.5	294.48	262.42	21×0.5	16.6	373.44	341.38
21×0.75	16.5	361.95	325.35	21×0.75	17.6	446.99	410.39
21×1	17.6	430.91	390.84	21×1	18.7	522.04	481.97
21×1.5	20.2	585.27	530.26	21×1.5	21.8	710.57	655.56
21×2.5	23.8	874.11	797.44	21×2.5	25.1	1027.92	951.26

22×0.5	16.3	310.10	276.53	22×0.5	17.5	394.11	360.54
22×0.75	17.5	380.98	342.65	22×0.75	18.6	471.54	433.20
22×1	18.6	453.42	411.46	22×1	19.7	550.52	508.56
22×1.5	21.5	615.64	558.02	22×1.5	23.0	749.15	691.53
22×2.5	25.3	919.12	838.82	22×2.5	26.6	1083.31	1003.01
23×0.5	17.0	324.00	288.93	23×0.5	18.1	411.80	376.73
23×0.75	18.2	398.12	358.07	23×0.75	19.3	492.81	452.76
23×1	19.4	473.86	430.02	23×1	20.9	593.67	549.83
23×1.5	22.8	663.37	603.18	23×1.5	23.9	783.16	722.97
23×2.5	26.4	960.72	876.84	23×2.5	27.7	1132.70	1048.82
24×0.5	17.0	333.21	296.60	24×0.5	18.1	421.01	384.40
24×0.75	18.2	410.18	368.38	24×0.75	19.3	504.87	463.07
24×1	19.4	488.85	443.09	24×1	20.9	608.65	562.90
24×1.5	22.8	684.80	621.98	24×1.5	23.9	804.95	741.76
24×2.5	26.4	993.85	906.29	24×2.5	27.7	1165.83	1078.27
25×0.5	17.3	344.77	306.66	25×0.5	18.5	434.52	396.41
25×0.75	18.6	424.78	381.26	25×0.75	19.7	521.59	478.07
25×1	19.8	506.55	458.91	25×1	21.3	629.00	581.36
35×0.5	19.2	450.67	397.38	35×0.5	20.7	578.37	523.54
35×0.75	21.0	578.97	518.11	35×0.75	22.1	688.42	627.56
35×1	22.4	692.17	625.55	35×1	23.5	809.66	743.04
35×1.5	25.9	945.80	854.33	35×1.5	27.2	1114.27	1022.80
35×2.5	30.1	1387.93	1260.45	35×2.5	32.0	1627.73	1500.25
36×0.5	19.2	459.88	405.05	36×0.5	20.7	700.48	637.87
36×0.75	21.0	591.03	528.42	36×0.75	22.1	753.54	692.61
36×1	22.4	707.16	638.62	36×1	23.5	824.65	756.11
36×1.5	25.9	967.23	873.13	36×1.5	27.2	1135.70	1041.60
36×2.5	30.1	1421.06	1289.91	36×2.5	32.0	1660.85	1529.70
37×0.5	19.2	468.04	411.70	37×0.5	20.7	586.52	530.18
37×0.75	21.0	601.49	537.16	37×0.75	22.1	710.94	646.61
37×1	22.4	720.49	650.07	37×1	23.5	837.98	767.56
37×1.5	25.9	986.29	889.60	37×1.5	27.2	1154.76	1058.07
37×2.5	30.1	1450.83	1316.08	37×2.5	32.0	1690.63	1558.87

Table 8

PVC/XLPE insulated copper tape shield (steel wire armored) PVC sheathed (flame retardant) control cable

ZR-KVV ₃₂				ZR-KYJV ₃₂			
Core× area mm ²	Outer diameter mm	Approx. weight kg/km		Core× area mm ²	Outer diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
4×1.5	14.8	372.16	363.10	18×0.75	19.7	635.44	607.35
4×2.5	16.8	481.54	468.21	18×1	20.9	709.65	678.63
4×4	17.9	571.75	556.07	18×1.5	24.8	1218.89	1176.19

4×6	19.1	677.69	659.60	18×2.5	27.8	1565.71	1505.87
4×10	25.1	1326.97	1295.19	19×0.75	19.7	645.81	616.16
5×1.5	15.6	411.80	399.91	19×1	20.9	740.56	707.83
5×2.5	17.8	544.22	527.56	19×1.5	24.8	1238.02	1192.96
5×4	19.0	649.91	630.30	19×2.5	27.8	1595.69	1532.53
5×6	20.7	797.11	774.51	20×0.75	20.5	683.71	652.49
5×10	26.9	1513.72	1474.00	20×1	21.3	764.28	729.82
6×0.75	14.6	353.41	344.02	20×1.5	25.2	1280.45	1233.02
6×1	15.1	384.90	374.53	20×2.5	28.8	1651.05	1584.55
6×1.5	17.0	476.87	462.61	21×0.75	21.7	703.63	670.86
6×2.5	18.8	602.81	582.81	21×1	24.2	791.49	755.31
6×4	20.6	752.71	729.18	21×1.5	26.8	1306.43	1256.64
6×6	22.0	902.92	875.80	21×2.5	30.8	1689.84	1620.03
6×10	28.7	1705.36	1657.69	22×0.75	24.0	743.48	709.15
7×0.75	14.6	363.86	352.90	22×1	24.9	1133.50	1095.62
7×1	15.1	397.69	385.60	22×1.5	27.6	1392.21	1340.06
7×1.5	17.0	496.13	479.49	22×2.5	31.8	1830.09	1756.97
7×2.5	18.8	633.01	605.16	23×0.75	24.0	1063.02	1027.15
7×4	20.6	796.93	769.47	23×1	24.9	1173.39	1133.79
7×6	22.0	964.49	932.84	23×1.5	27.6	1439.85	1385.35
7×10	28.7	1810.78	1755.16	23×2.5	31.8	1909.49	1833.08
8×0.75	15.3	392.09	379.57	24×0.75	24.3	1074.36	1036.93
8×1	16.4	450.04	436.22	24×1	25.3	1187.59	1146.26
8×1.5	17.9	545.32	526.31	24×1.5	28.1	1460.52	1403.63
8×2.5	20.3	709.43	682.77	24×2.5	28.8	1941.70	1861.97
8×4	21.8	872.53	841.16	25×0.75	21.7	1106.00	1067.03
8×6	25.0	1371.07	1334.90	25×1	24.2	1223.40	1180.36
8×10	30.5	2006.15	1942.59	25×1.5	26.8	1504.09	1444.85
9×0.75	16.8	451.79	437.71	25×2.5	32.4	1998.84	1915.81
9×1	17.4	493.29	477.74	26×0.75	24.3	1117.28	1076.75
9×1.5	19.4	613.23	591.83	26×1	25.3	1237.50	1192.76
9×2.5	21.7	784.86	754.87	26×1.5	28.1	1524.61	1463.01
9×4	23.3	964.94	929.65	26×2.5	32.4	2030.84	1944.50
9×6	26.7	1525.67	1484.98	27×0.75	24.3	1128.63	1086.53
9×10	33.6	2261.55	2190.05	27×1	25.3	1251.70	1205.24
10×0.75	17.4	479.87	464.25	27×1.5	28.1	1545.27	1481.30
10×1	18.1	529.51	512.26	27×2.5	32.4	2063.06	1973.38
10×1.5	20.3	660.13	636.39	28×0.75	24.9	1164.37	1120.71
10×2.5	24.3	1147.77	114.49	28×1	26.0	1291.09	1242.92
10×4	26.1	1370.41	1331.25	28×1.5	28.8	1591.59	1525.26
10×6	28.0	1644.52	1599.37	28×2.5	33.3	2141.02	2048.04
10×10	35.4	2471.95	2392.61	29×0.75	24.9	1175.72	1130.49
11×0.75	17.8	502.58	485.39	29×1	26.0	1305.30	1255.39

11×1	18.5	550.99	532.02	29×1.5	28.8	1612.26	1543.55
11×1.5	20.7	691.47	665.38	29×2.5	33.3	2173.24	2076.93
11×2.5	24.8	1200.13	1163.54	30×0.75	24.9	1186.99	1140.21
11×4	26.7	1453.87	1410.82	30×1	26.0	1319.41	1267.78
11×6	28.7	1729.30	1679.86	30×1.5	28.8	1632.79	1561.71
12×0.75	17.8	513.93	495.18	30×2.5	33.3	2205.23	2105.61
12×1	18.5	565.19	544.49	31×0.75	25.6	1224.31	1175.98
12×1.5	20.7	712.14	683.66	31×1	26.6	1359.23	1305.89
12×2.5	24.8	1232.35	1192.43	31×1.5	29.7	1698.52	1625.09
12×4	26.7	1500.89	1453.92	31×2.5	34.3	2285.63	2182.71
12×6	28.7	1794.69	1484.98	32×0.75	25.6	1235.58	1185.70
13×0.75	18.4	541.00	520.70	32×1	26.6	1373.34	1318.28
13×1	19.5	612.08	589.67	32×1.5	29.7	1719.05	1643.27
13×1.5	21.5	755.77	724.93	32×2.5	34.3	2317.63	2211.40
13×2.5	25.8	1740.53	1310.05	33×0.75	25.6	1246.93	1195.49
15×1	20.2	662.92	557.53	35×1.5	26.6	1865.86	1782.98
15×1.5	22.3	821.01	637.07	35×2.5	29.7	2493.63	2377.46
15×2.5	26.7	1421.08	1371.20	36×0.75	26.2	1322.24	1266.13
16×0.75	19.1	592.30	567.32	36×1	27.3	1472.75	1410.81
16×1	20.2	677.12	649.54	36×1.5	31.3	1886.52	1801.27
16×1.5	23.9	1132.33	1094.37	36×2.5	35.7	2525.85	2406.34
16×2.5	26.7	1453.29	1400.09	37×0.75	26.2	1332.58	1274.92
17×0.75	19.7	624.10	597.57	37×1	27.3	1485.41	1421.76
17×1	20.9	713.66	684.36	37×1.5	31.3	1905.58	1817.98
17×1.5	24.8	1198.23	1157.91	37×2.5	35.7	2779.29	2656.48
17×2.5	27.8	1533.49	1476.99				

Table 9

PVC/XLPE insulated (steel tape armored) PVC sheathed fire resistance control cable

NH-KVV、NH-KYJV				NH-KVV ₂₂ 、NH-KYJV ₂₂			
Core× area mm ²	Outer diameter mm	Approx. weight kg/km		Core× area mm ²	Outer diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
2×0.75	10.2	92.81	86.95	2×0.75	12.2	193.68	187.82
2×1	10.5	101.91	95.72	2×1	12.5	205.98	199.79
2×1.5	11.4	124.20	116.28	2×1.5	13.4	237.61	229.69
2×2.5	12.6	160.82	150.56	2×2.5	14.6	286.71	276.45
2×4	13.5	201.37	189.84	2×4	13.5	357.60	246.07
2×6	14.6	253.57	240.66	2×6	14.6	422.37	409.46
2×10	18.2	406.83	386.66	2×10	18.2	603.12	582.95
3×0.75	10.7	113.84	105.05	3×0.75	12.7	220.05	211.26
3×1	11.1	126.30	117.01	3×1	13.1	236.46	227.17
3×1.5	12.1	156.58	144.70	3×1.5	14.1	276.35	264.47

3×2.5	13.4	206.77	191.38	3×2.5	15.4	360.74	345.35
3×4	14.4	264.11	246.81	3×4	16.4	429.83	412.53
3×6	16.1	358.21	338.85	3×6	18.1	515.95	496.59
3×10	19.4	541.01	510.76	3×10	21.4	748.73	718.48
4×0.75	11.6	138.09	126.36	4×0.75	13.6	272.03	260.30
4×1	12.0	154.08	141.69	4×1	14.0	292.64	280.25
4×1.5	13.1	192.73	176.90	4×1.5	15.1	344.11	328.28
4×2.5	14.6	257.55	237.03	4×2.5	16.6	425.64	405.12
4×4	16.3	353.16	330.09	4×4	18.3	513.81	490.74
4×6	17.5	450.78	424.97	4×6	19.5	624.01	598.20
4×10	21.2	687.06	646.72	4×10	23.2	914.90	874.56
5×0.75	12.7	163.75	149.09	5×0.75	14.7	309.51	294.85
5×1	13.1	183.37	167.89	5×1	15.1	334.59	319.11
5×1.5	14.3	230.51	210.71	5×1.5	16.3	395.84	376.04
5×2.5	16.5	331.46	305.81	5×2.5	18.5	494.23	468.58
5×4	17.8	426.37	397.54	5×4	19.8	602.52	573.69
5×6	19.2	546.48	514.21	5×6	21.2	755.25	722.98
5×10	23.7	859.91	809.49	5×10	25.7	1094.97	1044.55
6×0.75	13.7	189.54	171.95	6×0.75	15.7	347.84	330.25
6×1	14.2	213.00	118.06	6×1	16.2	377.08	358.50
6×1.5	15.5	268.71	244.96	6×1.5	17.5	448.20	424.45
6×2.5	17.9	387.14	356.36	6×2.5	19.9	564.47	533.69
6×4	19.3	500.59	465.99	6×4	21.3	692.51	657.91
6×6	20.8	644.30	605.57	6×6	22.8	872.15	833.42
6×10	25.8	1017.44	956.93	6×10	27.8	1274.56	1214.05
7×0.75	13.7	202.84	182.32	7×0.75	15.7	361.14	340.62
7×1	14.2	228.72	207.04	7×1	16.2	392.80	371.12
7×1.5	15.5	289.89	262.18	7×1.5	17.5	469.38	441.67
7×4	19.3	554.66	514.30	7×4	21.3	746.38	706.22
7×6	20.8	718.34	673.16	7×6	22.8	946.58	901.01
7×10	25.8	1135.99	1065.40	7×10	27.8	1393.11	1322.52
8×0.75	14.8	233.00	209.55	8×0.75	16.8	403.32	379.87
8×1	15.3	262.76	237.99	8×1	17.3	439.05	414.28
8×1.5	17.4	357.76	326.09	8×1.5	19.4	528.98	497.31
8×2.5	19.4	483.72	442.68	8×2.5	21.4	675.65	634.61
8×4	20.9	629.66	583.53	8×4	22.9	858.33	812.20
8×6	23.0	837.95	786.32	8×6	25.0	1064.99	1013.36
8×10	28.0	1295.37	1214.70	8×10	30.0	1575.20	1494.53
9×0.75	16.2	262.97	236.58	9×0.75	18.2	449.67	423.28
9×1	16.7	296.67	268.80	9×1	18.7	490.23	462.36
9×1.5	19.0	404.26	368.63	9×1.5	21.0	592.90	557.37
9×2.5	21.2	547.21	501.04	9×2.5	23.2	779.38	733.21
9×4	23.0	714.04	662.14	9×4	25.0	965.60	913.70

9×6	25.3	949.88	891.79	9×6	27.3	1200.71	1142.62
9×10	30.9	1473.43	1382.67	9×10	32.9	1783.32	1692.56
10×0.75	17.2	282.33	253.05	10×0.75	19.2	481.57	452.29
10×1	18.4	343.22	312.30	10×1	20.4	525.76	494.84
10×1.5	20.2	434.22	394.68	10×1.5	22.2	635.46	595.92
10×2.5	22.6	588.50	224.78	10×2.5	24.6	836.47	785.25
10×4	24.9	791.02	733.44	10×4	26.9	1038.59	981.01
10×6	26.9	1024.26	959.80	10×6	28.9	1292.78	1228.32
10×10	33.0	1584.78	1484.07	10×10	35.0	1963.31	1862.60
11×0.75	18.3	326.98	294.79	11×0.75	20.3	508.47	476.28
11×1	19.0	368.24	334.25	11×1	21.0	556.85	522.86
11×1.5	20.9	467.33	423.86	11×1.5	22.9	674.91	631.44
11×2.5	23.4	635.23	578.91	11×2.5	25.4	891.27	834.95
11×4	25.7	854.55	791.24	11×4	27.7	1110.44	1047.13
11×6	27.8	1109.47	1038.61	11×6	29.8	1387.23	1316.37
12×0.75	18.3	345.52	310.40	12×0.75	20.3	527.01	491.89
12×1	19.0	390.06	352.97	12×1	21.0	578.67	541.58
12×1.5	20.9	496.77	449.35	12×1.5	22.9	704.35	656.93
12×2.5	23.4	678.12	616.67	12×2.5	25.4	934.16	872.71
12×4	25.7	913.96	844.88	12×4	27.7	1169.85	1100.77
12×6	27.8	1190.33	1113.01	12×6	29.8	1468.09	1390.77
13×0.75	19.2	370.82	332.79	13×0.75	21.2	561.69	523.66
13×1	19.9	418.89	378.72	13×1	21.9	617.05	576.88
13×1.5	21.9	534.06	482.70	13×1.5	23.9	774.15	722.79
13×2.5	24.6	730.15	663.61	13×2.5	26.6	999.80	933.26
13×4	27.0	984.36	909.55	13×4	29.0	1253.91	1179.10
13×6	29.3	1284.39	1200.66	13×6	31.3	1577.64	1493.91
14×0.75	19.2	389.36	348.39	14×0.75	21.2	580.23	539.26
14×1	19.9	440.70	397.44	14×1	21.9	638.86	595.60
14×1.5	21.9	563.50	508.19	14×1.5	23.9	803.59	748.28
14×2.5	24.6	773.05	701.38	14×2.5	26.6	1042.70	971.03
14×4	27.0	1043.75	963.18	14×4	29.0	1313.30	1232.73
14×6	29.3	1365.23	1275.05	14×6	31.3	1658.48	1568.30
15×0.75	20.2	415.63	371.75	15×0.75	22.2	618.88	573.00
15×1	21.0	471.30	424.97	15×1	23.0	680.67	634.34
15×1.5	23.1	602.67	543.42	15×1.5	25.1	856.16	796.91
15×2.5	26.3	850.00	773.23	15×2.5	28.3	1112.17	1035.40
16×0.75	20.2	434.17	387.36	16×0.75	22.2	635.42	588.61
16×1	21.0	493.11	443.68	16×1	23.0	702.48	653.05
16×1.5	23.1	632.13	568.92	16×1.5	25.1	885.62	822.41
16×2.5	26.3	892.89	810.99	16×2.5	28.3	1156.06	1073.16
17×0.75	21.3	461.86	412.14	17×0.75	23.3	674.33	624.61
17×1	22.1	524.05	471.54	17×1	25.1	766.20	713.69

17×1.5	24.3	671.72	604.58	17×1.5	26.3	938.85	871.71
17×2.5	27.7	949.52	862.52	17×2.5	29.7	1226.26	1139.26
18×0.75	21.3	480.41	427.75	18×0.75	23.3	692.88	640.22
18×1	22.1	545.87	490.26	18×1	25.1	788.02	732.41
18×1.5	24.3	701.17	630.07	18×1.5	26.3	968.30	897.20
18×2.5	27.7	992.42	900.29	18×2.5	29.7	1269.16	1177.03
19×0.75	21.3	493.59	438.02	19×0.75	23.3	706.06	650.49
19×1	22.1	561.42	502.74	19×1	25.1	803.57	744.89
19×1.5	24.3	722.15	647.12	19×1.5	26.3	989.28	914.25
19×2.5	27.7	1022.88	925.66	19×2.5	29.7	1299.62	1202.40
20×0.75	21.8	515.76	457.26	20×0.75	23.8	733.57	675.07
20×1	22.6	586.85	525.08	20×1	24.6	834.87	773.10
20×1.5	25.0	756.65	677.66	20×1.5	27.0	1030.75	951.76
20×2.5	28.5	1072.25	969.90	20×2.5	30.5	1356.35	1254.00
21×0.75	22.3	542.93	481.52	21×0.75	24.3	765.95	704.54
21×1	23.2	618.58	553.73	21×1	25.2	872.45	807.60
21×1.5	25.6	798.41	715.49	21×1.5	27.6	1079.26	996.34
21×2.5	29.2	1132.61	1025.17	21×2.5	31.2	1423.94	1316.50
22×0.75	23.7	574.61	510.29	22×0.75	25.7	812.17	747.85
22×1	24.6	654.17	586.25	22×1	26.6	924.70	856.78
22×1.5	27.6	868.80	781.95	22×1.5	29.6	1144.39	1057.54
22×2.5	31.0	1197.40	1084.86	22×2.5	33.0	1508.38	1395.84
23×0.75	24.7	600.17	532.95	23×0.75	26.7	871.97	804.75
23×1	25.7	683.69	612.71	23×1	27.7	966.59	895.61
23×1.5	28.8	907.63	816.87	23×1.5	20.8	1195.80	1105.04
23×2.5	32.4	1251.11	1133.51	23×2.5	34.4	1576.69	1459.09
24×0.75	24.7	610.44	540.29	24×0.75	26.7	882.24	812.09
24×1	25.7	695.99	621.91	24×1	27.7	978.89	904.81
24×1.5	28.8	923.49	828.77	24×1.5	20.8	1211.66	1116.94
24×2.5	32.4	1274.39	1151.66	24×2.5	34.4	1599.97	1477.24
25×0.75	25.3	633.12	560.07	25×0.75	27.3	911.44	838.39
25×1	26.3	721.93	644.78	25×1	28.3	1011.44	934.29
25×1.5	29.5	958.33	859.69	25×1.5	31.5	1252.85	1154.21
25×2.5	33.2	1323.35	1195.54	25×2.5	35.2	1656.27	1528.46
26×0.75	25.3	651.53	575.57	26×0.75	27.3	929.85	853.89
26×1	26.3	743.58	663.36	26×1	28.3	1033.09	952.87
26×1.5	29.5	987.57	885.00	26×1.5	31.5	1282.09	1179.52
26×2.5	33.2	1365.95	1233.05	26×2.5	35.2	1698.87	1565.97
27×0.75	25.3	670.07	591.18	27×0.75	27.3	948.39	869.50
27×1	26.3	765.39	682.07	27×1	28.3	1054.90	971.58
27×1.5	29.5	1017.01	910.48	27×1.5	31.5	1311.53	1205.00
27×2.5	33.2	1408.85	1270.82	27×2.5	35.2	1741.77	1603.74
28×0.75	26.2	694.96	613.16	28×0.75	28.2	983.45	901.65

28×1	27.6	871.61	731.23	28×1	29.6	1093.36	1006.98
28×1.5	30.5	1054.31	943.86	28×1.5	32.5	1360.13	1249.68
28×2.5	34.4	1461.09	1317.98	28×2.5	36.4	1806.56	1663.45
29×0.75	26.2	713.49	628.76	29×0.75	28.2	1001.98	917.25
29×1	27.6	839.42	749.94	29×1	29.6	1115.17	1025.69
29×1.5	30.5	1083.76	969.35	29×1.5	32.5	1389.58	1275.17
29×2.5	34.4	1503.98	1355.74	29×2.5	36.4	1849.45	1701.21
30×0.75	26.2	731.90	644.26	30×0.75	28.2	1020.39	932.75
30×1	27.6	861.09	768.54	30×1	29.6	1136.84	1044.29
30×1.5	30.5	1113.01	994.67	30×1.5	32.5	1418.83	1300.49
30×2.5	34.4	1546.58	1393.24	30×2.5	36.4	1892.05	1738.71
31×0.75	27.2	761.40	670.86	31×0.75	29.2	1061.14	970.60
31×1	28.7	896.42	800.80	31×1	30.7	1183.38	1087.76
31×1.5	31.7	1158.42	1036.28	31×1.5	33.7	1476.73	1354.47
31×2.5	35.7	1609.12	1450.70	31×2.5	37.7	1968.91	1810.49
32×0.75	27.2	779.81	686.36	32×0.75	29.2	1079.55	986.10
32×1	28.7	918.07	819.38	32×1	30.7	1205.03	1106.34
32×1.5	31.7	1187.79	1061.60	32×1.5	33.7	1505.98	1379.79
32×2.5	35.7	1651.72	1488.21	32×2.5	37.7	2011.51	1848.00
33×0.75	27.2	798.36	701.97	33×0.75	29.2	1098.10	1001.71
33×2.5	35.7	1694.61	1525.97	33×2.5	37.7	2054.40	1885.76
34×0.75	28.6	850.27	750.98	34×0.75	30.6	1416.51	1317.22
34×1	29.8	971.74	868.88	34×1	31.8	1561.89	1457.03
34×1.5	32.9	1257.81	1123.74	34×1.5	34.9	1910.75	1776.68
34×2.5	37.1	1751.11	1577.39	34×2.5	41.1	2542.42	2368.70
35×0.75	28.6	868.68	766.48	35×0.75	30.6	1434.92	1332.72
35×1	29.8	993.40	885.47	35×1	31.8	1583.55	1475.62
35×1.5	32.9	1287.06	1149.06	35×1.5	34.9	1940.00	1802.00
35×2.5	37.1	1793.71	1614.89	35×2.5	41.1	2585.02	2406.20
36×0.75	28.6	887.21	782.08	36×0.75	30.6	1453.45	1348.32
36×1	29.8	1015.22	904.19	36×1	31.8	1605.37	1494.34
36×1.5	32.9	1316.52	1174.56	36×1.5	34.9	1969.46	1827.50
36×2.5	37.1	1836.61	1652.66	36×2.5	41.1	2627.92	2443.97
37×0.75	28.6	900.33	792.30	37×0.75	30.6	1466.57	1358.54
37×1	29.8	1030.72	916.62	37×1	31.8	1620.87	1506.77
37×1.5	32.9	1337.41	1191.53	37×1.5	34.9	1990.35	1844.47
37×2.5	37.1	1866.95	1677.92	37×2.5	41.1	2658.26	2469.23

Table 10

PVC/XLPE insulated braid shield (steel tape armored) PVC sheathed fire resistance control cable

NH-KVVP、NH-KYJVP				NH-KVVP ₂₂ 、NH-KYJVP ₂₂			
Core× area mm ²	Outer diameter mm	Approx. weight kg/km		Core× area mm ²	Outer diameter mm	Approx. weight kg/km	
		PVC	XLPE			PVC	XLPE

		Insulation	Insulation			Insulation	Insulation
2×0.75	11.1	130.71	124.68	2×0.75	14.1	285.59	279.56
2×1	11.4	141.04	134.67	2×1	14.4	299.98	293.61
2×1.5	12.3	166.15	157.99	2×1.5	15.3	336.51	328.35
2×2.5	13.5	207.40	196.83	2×2.5	16.5	392.99	382.42
2×4	15.2	284.58	272.76	2×4	18.2	464.48	452.65
2×6	16.2	339.25	326.09	2×6	19.2	530.06	516.91
2×10	20.2	506.78	484.52	2×10	23.2	759.85	737.60
3×0.75	11.6	155.89	146.84	3×0.75	14.6	317.57	308.52
3×1	12.0	169.51	159.95	3×1	15.0	335.56	326.01
3×1.5	12.9	201.68	189.45	3×1.5	15.9	380.04	367.81
3×2.5	14.2	258.73	242.88	3×2.5	17.2	453.49	437.64
3×4	16.0	354.77	337.04	3×4	19.0	543.49	525.94
3×6	17.0	429.13	409.40	3×6	20.0	647.58	627.84
3×10	21.4	651.98	618.60	3×10	24.4	917.43	884.06
4×0.75	12.5	185.68	173.61	4×0.75	15.5	358.84	346.78
4×1	12.9	203.07	190.32	4×1	15.9	381.13	368.39
4×1.5	14.0	243.81	227.51	4×1.5	17.0	435.67	419.36
4×2.5	16.2	353.91	332.77	4×2.5	19.2	545.65	524.51
4×4	17.3	432.03	408.38	4×4	20.3	654.18	630.54
4×6	18.5	530.48	504.17	4×6	21.5	766.83	740.52
4×10	23.7	833.70	789.19	4×10	26.7	1100.74	1056.24
5×0.75	13.5	211.89	196.81	5×0.75	16.5	397.69	382.60
5×1	13.9	233.10	217.17	5×1	16.9	424.38	408.45
5×1.5	15.2	282.69	262.31	5×1.5	18.2	489.39	469.01
5×2.5	17.6	416.65	390.22	5×2.5	20.6	494.23	198.58
5×4	18.8	511.66	482.11	5×4	21.8	751.82	722.27
5×6	20.1	631.43	598.54	5×6	23.1	887.47	854.58
5×10	25.9	999.28	943.65	5×10	28.9	1289.13	1233.50
6×0.75	14.6	241.78	223.68	6×0.75	17.6	440.82	422.73
6×1	15.0	267.33	248.21	6×1	18.0	472.47	453.35
6×1.5	17.0	347.55	323.10	6×1.5	20.0	547.80	523.35
6×2.5	19.0	480.19	448.48	6×2.5	22.0	722.71	691.00
6×4	20.3	593.60	558.13	6×4	23.3	852.65	817.19
6×6	21.8	735.88	696.41	6×6	24.8	1012.58	973.11
6×10	28.2	1170.24	1103.48	6×10	31.2	1525.69	1458.93
7×0.75	14.6	259.70	238.59	7×0.75	17.6	458.75	437.64
7×1	15.0	288.09	265.79	7×1	18.0	493.23	470.93
7×1.5	17.0	375.67	347.14	7×1.5	20.0	575.92	547.39
7×2.5	19.0	517.54	480.54	7×2.5	22.0	760.05	723.06
7×4	20.3	650.51	609.14	7×4	23.3	909.57	868.20
7×6	21.8	812.30	766.25	7×6	24.8	1089.00	1042.95
7×10	28.2	1297.12	1219.23	7×10	31.2	1650.58	1572.70

8×0.75	15.6	290.19	266.06	8×0.75	18.6	502.49	478.36
8×1	16.7	344.10	318.61	8×1	19.7	541.42	515.93
8×1.5	18.4	439.81	407.20	8×1.5	21.4	675.31	642.70
8×2.5	20.4	580.47	538.19	8×2.5	23.4	840.22	797.94
8×4	22.3	746.10	698.82	8×4	25.3	1004.63	957.34
8×6	23.9	930.54	877.91	8×6	26.9	1207.07	1154.45
8×10	30.7	1490.29	1401.28	8×10	33.7	1873.34	1784.32
9×0.75	17.6	346.38	319.23	9×0.75	20.6	571.81	544.67
9×1	18.4	402.79	374.12	9×1	21.4	637.93	609.26
9×1.5	20.1	490.60	453.91	9×1.5	23.1	746.14	709.45
9×2.5	22.3	648.89	601.33	9×2.5	25.3	931.63	884.06
9×4	26.1	834.36	781.17	9×4	29.1	1116.27	1063.08
9×6	33.8	1042.27	983.07	9×6	36.8	1344.38	1285.17
9×10	38.8	1670.57	1570.43	9×10	41.8	2090.34	1990.20
10×0.75	19.5	397.93	367.81	10×0.75	22.5	638.61	608.49
10×1	21.3	439.90	408.09	10×1	24.3	688.42	656.61
10×1.5	23.7	537.72	497.01	10×1.5	26.7	808.29	767.58
10×2.5	25.9	712.37	659.59	10×2.5	28.9	1012.34	959.57
10×4	28.0	917.81	858.79	10×4	31.0	1217.26	1158.23
10×6	36.0	1179.79	1114.09	10×6	39.0	1503.34	1437.64
10×10	39.4	1844.19	1733.08	10×10	42.4	2291.00	2179.89
11×0.75	20.0	422.11	388.99	11×0.75	23.0	669.35	636.23
11×1	21.9	467.11	432.43	11×1	24.9	722.80	687.82
11×1.5	24.8	572.43	527.67	11×1.5	27.8	850.72	805.96
11×2.5	26.7	784.18	726.16	11×2.5	29.7	1071.37	1013.34
11×4	28.9	984.09	919.20	11×4	31.9	1292.54	1227.64
11×6	29.4	1266.76	1194.53	11×6	32.4	1642.60	1570.37
12×0.75	20.0	440.94	404.81	12×0.75	23.0	688.19	652.05
12×1	21.9	489.58	451.42	12×1	24.9	744.97	706.81
12×1.5	24.8	601.95	553.12	12×1.5	27.8	880.24	831.41
12×2.5	26.7	828.08	764.76	12×2.5	29.7	1115.26	1051.95
12×4	28.9	1043.83	973.02	12×4	31.9	1352.27	1281.47
12×6	29.4	1346.80	1268.00	12×6	32.4	1722.64	1643.84
13×0.75	20.3	471.41	432.28	13×0.75	23.3	729.74	690.61
13×1	21.0	523.91	482.58	13×1	24.0	790.89	749.56
13×1.5	23.0	645.10	592.21	13×1.5	26.0	936.42	883.53
13×2.5	26.0	888.59	820.03	13×2.5	29.0	1189.64	1121.08
13×4	28.0	1121.70	1045.03	13×4	31.0	1445.35	1368.67
13×6	30.3	1448.39	1363.05	13×6	33.3	1842.77	1757.43
14×0.75	20.3	490.24	448.10	14×0.75	23.3	748.57	706.43
14×1	21.0	546.08	501.57	14×1	24.0	813.06	768.55
14×1.5	23.0	674.62	617.67	14×1.5	26.0	965.94	908.98
14×2.5	26.0	932.48	858.64	14×2.5	29.0	1233.54	1159.69

14×4	28.0	1181.44	1098.85	14×4	31.0	1505.08	1422.50
14×6	30.3	1528.434	1436.51	14×6	33.3	1922.81	1830.89
15×0.75	21.3	522.63	477.49	15×0.75	24.3	793.15	748.01
15×1	22.0	582.38	534.70	15×1	26.0	862.12	814.44
15×1.5	24.1	720.05	659.04	15×1.5	27.1	1025.70	964.69
15×2.5	27.4	996.09	916.99	15×2.5	30.4	1312.40	1233.30
16×0.75	21.3	541.46	493.31	16×0.75	24.3	811.99	763.83
16×1	22.0	604.56	553.69	16×1	26.0	884.29	833.43
16×1.5	24.1	749.58	684.49	16×1.5	27.1	1055.23	990.15
16×2.5	27.4	1039.98	955.60	16×2.5	30.4	1356.29	1271.91
17×0.75	22.3	573.89	522.74	17×0.75	25.3	857.21	806.05
17×1	23.1	641.42	587.39	17×1	26.1	934.54	880.51
17×1.5	25.8	817.84	748.71	17×1.5	28.8	1116.03	1046.90
17×2.5	28.8	1103.71	1014.08	17×2.5	31.8	1478.34	1388.71
18×0.75	22.3	592.63	538.56	18×0.75	25.3	876.04	821.87
18×1	23.1	663.60	606.38	18×1	26.1	956.71	899.50
18×1.5	25.8	847.37	774.16	18×1.5	28.8	1145.56	1072.35
18×2.5	28.8	1147.60	1052.69	18×2.5	31.8	1522.23	1427.32
19×0.75	22.3	610.53	553.37	19×0.75	25.3	893.85	836.68
19×1	23.1	684.22	623.84	19×1	26.1	977.34	916.96
19×1.5	25.8	875.29	798.04	19×1.5	28.8	1173.49	1096.23
19×2.5	28.8	1189.18	1089.02	19×2.5	31.8	1563.81	1463.64
20×0.75	22.9	636.33	576.15	20×0.75	24.9	926.21	866.03
20×1	23.7	713.68	650.11	20×1	25.7	1013.66	950.10
20×1.5	26.4	913.56	832.23	20×1.5	29.4	1218.91	1137.58
20×2.5	29.5	1243.09	1137.65	20×2.5	32.5	1626.89	1521.44
21×0.75	23.4	661.64	598.46	21×0.75	26.4	957.75	894.57
21×1	24.2	742.61	675.88	21×1	27.2	1049.11	982.38
21×1.5	27.0	951.17	865.79	21×1.5	30.0	1263.32	1177.93
21×2.5	30.4	1330.10	1219.40	21×2.5	33.4	1725.12	1614.42
22×0.75	24.8	698.44	632.26	22×0.75	27.8	1011.60	945.43
22×1	25.7	783.55	713.66	22×1	28.7	1107.89	1037.99
22×1.5	28.6	1003.19	913.76	22×1.5	31.6	1376.08	1286.65
22×2.5	32.3	1402.04	1286.09	22×2.5	35.3	1820.87	1704.93
23×0.75	25.8	730.60	661.45	23×0.75	28.8	1056.55	987.40
23×1	27.2	843.35	770.31	23×1	30.2	1157.35	1084.31
23×1.5	29.9	1049.37	955.91	23×1.5	31.9	1437.83	1344.37
23×2.5	33.7	1466.64	1345.47	23×2.5	36.7	1903.33	1782.16
24×0.75	25.8	749.43	677.27	24×0.75	28.8	1075.39	1003.22
24×1	27.2	864.97	788.75	24×1	30.2	1178.51	1102.29
24×1.5	29.9	1078.34	980.81	24×1.5	31.9	1466.29	1368.76
24×2.5	33.7	1509.93	1383.48	24×2.5	36.7	1946.29	1819.66
25×0.75	26.3	774.84	699.69	25×0.75	29.3	1107.17	1032.01

25×1	27.7	895.25	815.87	25×1	30.7	1215.62	1136.24
25×1.5	30.5	1117.29	1015.72	25×1.5	33.5	1514.13	1412.56
25×2.5	34.4	1565.48	1433.80	25×2.5	37.4	2011.81	1880.13
26×0.75	26.3	793.55	715.40	26×0.75	29.3	1125.87	1047.72
26×1	27.7	828.08	834.73	26×1	30.7	1237.65	1155.10
26×1.5	30.5	1146.62	1041.00	26×1.5	33.5	1543.45	1437.84
26×2.5	34.4	1609.07	1472.14	26×2.5	37.4	2055.41	1918.48
27×0.75	26.3	812.38	731.22	27×0.75	29.3	1144.71	1063.54
27×1	27.7	939.45	853.72	27×1	30.7	1259.82	1174.09
27×1.5	30.5	1176.15	1066.45	27×1.5	33.5	1572.98	1463.29
27×2.5	34.4	1652.97	1510.75	27×2.5	37.4	2099.30	1957.08
28×0.75	27.8	772.51	688.36	28×0.75	30.8	1014.11	930.26
28×1	28.6	973.90	885.01	28×1	31.6	1346.62	1257.73
28×1.5	31.7	1254.83	1141.10	28×1.5	34.7	1666.90	1553.17
28×2.5	35.6	1714.56	1567.11	28×2.5	38.6	2176.13	2028.68
29×0.75	27.8	791.35	704.18	29×0.75	30.8	1033.24	946.08
29×1	28.6	996.07	904.00	29×1	31.6	1368.79	1276.72
29×1.5	31.7	1284.36	1166.55	29×1.5	34.7	1696.42	1578.62
29×2.5	35.6	1758.46	1605.72	29×2.5	38.6	2220.02	2067.29
30×0.75	27.8	904.39	814.23	30×0.75	30.8	1223.62	1133.46
30×1	28.6	1018.10	922.86	30×1	31.6	1390.58	1295.58
30×1.5	31.7	1313.68	1191.83	30×1.5	34.7	1725.75	1603.89
30×2.5	35.6	1802.05	1644.07	30×2.5	38.6	2263.62	2105.63
31×0.75	28.6	937.66	844.51	31×0.75	31.6	1310.38	1217.23
31×1	29.7	1056.06	957.67	31×1	32.7	1442.74	1344.35
31×1.5	32.9	1361.95	1236.06	31×1.5	35.9	1789.25	1663.36
31×2.5	37.5	1915.67	1752.45	31×2.5	40.5	2344.62	2181.41
32×0.75	28.6	956.37	860.23	32×0.75	31.6	1323.09	1232.95
32×1	29.7	1078.09	976.53	32×1	32.7	1464.77	1363.21
32×1.5	32.9	1391.28	1261.34	32×1.5	35.9	1818.58	1688.64
32×2.5	37.5	1959.26	1790.80	32×2.5	40.5	2388.22	2219.75
33×0.75	28.6	975.21	876.04	33×0.75	31.6	1347.93	1248.77
33×1	29.7	1100.26	995.52	33×1	32.7	1486.94	1382.20
33×1.5	32.9	1420.81	1286.79	33×1.5	35.9	1848.10	1714.09
33×2.5	37.5	2003.16	1829.40	33×2.5	40.5	2432.11	2258.36
34×0.75	29.7	1009.27	907.12	34×0.75	32.7	1395.95	1293.81
34×1	30.8	1138.13	1030.24	34×1	33.8	1538.78	1430.88
34×1.5	34.1	1468.68	1330.62	34×1.5	37.1	1911.21	1773.15
34×2.5	38.9	2070.24	1891.25	34×2.5	41.9	2901.80	2722.82
35×0.75	29.7	1027.98	922.83	35×0.75	32.7	1414.66	1309.52
35×1	30.8	1160.16	1049.10	35×1	33.8	1560.80	1449.74
35×1.5	34.1	1498.00	1355.90	35×1.5	37.1	1940.53	1798.43
35×2.5	38.9	2113.83	1929.60	35×2.5	41.9	2945.40	2761.16

36×0.75	29.7	1046.81	938.65	36×0.75	32.7	1433.50	1325.34
36×1	30.8	1182.33	1068.09	36×1	33.8	1582.97	1468.73
36×1.5	34.1	1527.53	1381.35	36×1.5	37.1	1970.06	1823.88
36×2.5	38.9	2157.73	1968.21	36×2.5	41.9	2989.29	2799.77
37×0.75	29.7	1064.57	953.42	37×0.75	32.7	1451.25	1340.10
37×1	30.8	1202.89	1085.49	37×1	33.8	1603.54	1486.14
37×1.5	34.1	155.37	1405.16	37×1.5	37.1	1997.90	1847.69
37×2.5	38.9	2199.18	2004.43	37×2.5	41.9	3030.74	2835.99

Table 11

PVC/XLPE insulated copper tape shield (steel tape armored) PVC sheathed fire resistance control cable

NH-KVVP ₂ 、NH-KYJVP ₂				NH-KVVP ₂₋₂₂ 、NH-KYJVP ₂₋₂₂			
Core× area mm ²	Out diameter mm	Approx. weight kg/km		Core× area mm ²	Out diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
2×0.75	10.1	107.54	101.67	2×0.75	13.1	231.73	225.87
2×1	10.4	117.43	111.24	2×1	13.4	263.30	257.11
2×1.5	12.3	141.63	133.71	2×1.5	15.3	298.92	291.00
2×2.5	12.5	180.83	170.57	2×2.5	15.5	353.35	343.09
2×4	14.0	241.70	230.57	2×4	17.0	408.06	396.53
2×6	15.0	296.76	283.85	2×6	18.0	474.72	461.81
2×10	18.1	439.36	419.19	2×10	21.1	670.84	650.68
3×0.75	10.6	129.93	121.13	3×0.75	13.6	278.56	269.76
3×1	10.9	142.80	133.51	3×1	13.9	295.80	286.51
3×1.5	11.9	174.97	163.09	3×1.5	14.9	340.27	328.39
3×2.5	13.2	227.90	212.51	3×2.5	16.2	409.60	394.21
3×4	14.8	306.60	289.30	3×4	17.8	482.01	464.71
3×6	15.9	383.34	363.98	3×6	18.9	571.25	551.89
3×10	19.2	576.21	545.95	3×10	22.2	821.30	791.04
4×0.75	11.5	156.15	144.42	4×0.75	14.5	316.29	304.57
4×1	11.9	172.89	160.50	4×1	14.9	337.93	325.55
4×1.5	13.0	213.79	197.95	4×1.5	16.0	392.62	376.79
4×2.5	15.0	300.81	280.29	4×2.5	18.0	478.61	458.09
4×4	16.2	379.43	356.36	4×4	19.2	570.13	547.06
4×6	17.4	479.51	453.69	4×6	20.4	702.32	676.50
4×10	21.5	746.40	706.06	4×10	24.5	995.74	955.41
5×0.75	12.5	183.35	168.69	5×0.75	15.5	356.16	341.51
5×1	12.9	204.09	188.61	5×1	15.9	382.39	366.91
5×1.5	14.7	272.95	253.16	5×1.5	17.7	447.62	427.82
5×2.5	16.4	358.25	332.60	5×2.5	19.4	551.34	525.69
5×4	17.6	455.65	426.82	5×4	20.6	681.49	652.66
5×6	19.0	578.04	545.77	5×6	21.0	820.75	788.48
5×10	23.5	905.44	855.02	5×10	26.5	1178.24	1127.81

6×0.75	13.5	211.65	194.06	6×0.75	16.5	397.75	380.16
6×1	14.0	236.03	217.45	6×1	17.0	428.22	409.64
6×1.5	16.0	315.59	291.84	6×1.5	19.0	504.24	480.49
6×2.5	17.8	417.00	386.22	6×2.5	20.8	644.57	613.79
6×4	19.2	533.54	498.94	6×4	21.2	778.38	743.78
6×6	20.7	680.12	641.39	6×6	23.7	943.71	904.98
6×10	25.7	1069.01	1008.50	6×10	28.7	1366.40	1305.89
7×0.75	13.5	224.96	204.43	7×0.75	16.5	411.06	390.53
7×1	14.0	251.74	230.07	7×1	17.0	443.93	422.26
7×1.5	16.0	336.77	309.06	7×1.5	19.0	525.42	497.71
7×2.5	17.8	447.76	411.86	7×2.5	20.8	675.33	639.43
7×4	19.2	587.61	547.24	7×4	21.2	832.45	792.09
7×6	20.7	754.06	708.88	7×6	23.7	1017.65	972.47
7×10	25.7	1187.56	1116.97	7×10	28.7	1484.96	1414.37
8×0.75	15.2	276.71	253.25	8×0.75	18.2	456.45	433.00
8×1	15.7	308.45	283.68	8×1	18.7	494.20	469.43
8×1.5	17.2	385.92	354.25	8×1.5	20.2	588.56	556.89
8×2.5	19.2	515.96	474.93	8×2.5	22.2	760.81	719.77
8×4	21.1	683.99	637.86	8×4	24.1	929.42	883.29
8×6	22.8	876.37	824.74	8×6	25.8	1140.94	1089.31
8×10	27.9	1352.19	1271.51	8×10	30.9	1674.18	1593.51
9×0.75	16.6	311.47	285.08	9×0.75	19.6	507.09	480.70
9×1	17.2	347.74	319.88	9×1	20.2	550.10	522.23
9×1.5	18.8	436.20	400.57	9×1.5	121.8	676.88	641.25
9×2.5	21.1	584.03	537.87	9×2.5	24.1	851.91	805.74
9×4	23.2	774.36	722.47	9×4	26.2	1043.32	991.42
9×6	25.1	992.81	934.73	9×6	28.1	1283.23	1225.14
9×10	30.7	1537.17	1446.41	9×10	33.7	1936.89	1846.13
10×0.75	17.6	334.72	305.44	10×0.75	20.6	560.57	531.29
10×1	18.3	374.18	343.26	10×1	21.3	607.87	576.95
10×1.5	20.1	469.01	429.48	10×1.5	23.1	724.76	685.22
10×2.5	22.9	648.36	597.14	10×2.5	25.9	913.57	862.35
10×4	24.8	834.68	777.10	10×4	27.8	1121.27	1063.69
10×6	26.8	1071.56	1007.11	10×6	29.8	1381.36	1316.90
10×10	32.9	1653.66	1552.95	10×10	35.9	2080.83	1980.12
11×0.75	18.2	357.69	325.50	11×0.75	21.2	590.13	557.94
11×1	18.8	400.13	366.14	11×1	21.8	640.71	606.72
11×1.5	20.7	502.98	459.52	11×1.5	23.7	766.47	723.00
11×2.5	23.6	696.73	640.41	11×2.5	26.6	970.17	913.85
11×4	25.5	899.88	836.57	11×4	28.5	1195.52	1132.21
11×6	27.7	1158.36	1087.50	11×6	30.7	1478.10	1407.24
12×0.75	18.2	376.23	341.10	12×0.75	21.2	608.66	573.54
12×1	18.8	421.94	384.85	12×1	21.8	662.52	625.43

12×1.5	20.7	532.43	485.01	12×1.5	23.7	795.92	748.49
12×2.5	23.6	739.62	678.17	12×2.5	26.6	1013.07	951.62
12×4	25.5	959.28	890.20	12×4	28.5	1254.92	1185.85
12×6	27.7	1239.11	1161.79	12×6	30.7	1558.85	1481.53
13×0.75	19.1	403.52	365.48	13×0.75	22.1	647.07	609.04
13×1	19.8	453.14	412.97	13×1	22.8	705.35	665.18
13×1.5	21.8	572.46	521.11	13×1.5	24.8	849.01	797.65
13×2.5	24.8	795.51	728.97	13×2.5	27.8	1082.85	1016.31
13×4	26.9	1032.89	958.08	13×4	29.9	1343.82	1269.02
13×6	29.1	1336.02	1252.30	13×6	32.1	1715.37	1631.64
14×0.75	19.1	422.06	381.09	14×0.75	22.1	665.61	624.65
14×1	19.8	474.95	431.69	14×1	22.8	727.16	683.89
14×1.5	21.8	601.91	546.60	14×1.5	24.8	878.46	823.14
14×2.5	24.8	838.41	766.73	14×2.5	27.8	1125.75	1054.07
14×4	26.9	1092.29	1011.72	14×4	29.9	1403.22	1322.65
14×6	29.1	1416.77	1326.59	14×6	32.1	1796.11	1705.93
15×0.75	20.1	450.45	406.57	15×0.75	23.1	706.24	662.36
15×1	20.8	507.38	461.05	15×1	23.8	772.38	726.04
15×1.5	22.9	643.37	584.12	15×1.5	25.9	934.28	875.04
15×2.5	26.2	896374	819.97	15×2.5	29.2	1199.37	1122.60
16×0.75	20.1	468.99	422.18	16×0.75	23.1	724.77	677.96
16×1	20.8	529.19	479.76	16×1	23.8	794.19	744.76
16×1.5	22.9	672.82	609.62	16×1.5	25.9	963.73	900.53
16×2.5	26.2	939.64	857.74	16×2.5	29.2	1242.26	1160.37
17×0.75	21.1	498.54	448.82	17×0.75	24.1	767.15	717.43
17×1	21.9	562.43	509.92	17×1	24.9	840.84	788.33
17×1.5	24.6	736.70	669.56	17×1.5	27.6	1021.24	954.10
17×2.5	27.6	999.34	912.34	17×2.5	30.6	1318.00	1231.01
18×0.75	21.1	517.08	464.42	18×0.75	24.1	785.69	733.04
18×1	21.9	584.24	528.63	18×1	24.9	862.65	807.05
18×1.5	24.6	766.15	695.05	18×1.5	27.6	1050.69	979.59
18×2.5	27.6	1042.23	950.11	18×2.5	30.6	1360.89	1268.77
19×0.75	21.1	530.26	474.69	19×0.75	24.1	798.87	743.31
19×1	21.9	599.80	541.12	19×1	24.9	878.22	819.54
19×1.5	24.6	787.13	712.10	19×1.5	27.6	1071.67	996.64
19×2.5	27.6	1072.70	975.49	19×2.5	30.6	1391.36	1294.15
20×0.75	21.7	553.84	495.34	20×0.75	24.7	829.04	770.54
20×1	22.5	626.88	565.11	20×1	26.5	912.19	850.41
20×1.5	25.2	823.06	744.07	20×1.5	28.2	1114.78	1035.79
20×2.5	28.3	1123.02	1020.68	20×2.5	31.3	1449.92	1347.57
21×0.75	22.2	582.16	520.75	21×0.75	25.2	863.60	802.19
21×1	23.0	659.28	594.42	21×1	26.0	951.11	886.25
21×1.5	25.8	866.61	783.69	21×1.5	28.8	1165.14	1082.22

21×2.5	29.0	1184.75	1077.30	21×2.5	32.0	1562.04	1454.89
22×0.75	23.6	616.80	552.48	22×0.75	26.6	915.34	851.02
22×1	24.5	698.42	630.50	22×1	27.5	1008.14	940.22
22×1.5	27.4	918.13	831.28	22×1.5	30.4	1235.32	1148.47
22×2.5	30.9	1254.18	1141.64	22×2.5	33.9	1655.33	1542.79
23×0.75	24.6	644.92	577.70	23×0.75	27.6	956.29	889.08
23×1	26.0	752.90	681.91	23×1	29.0	1053.36	982.38
23×1.5	28.7	959.83	869.07	23×1.5	31.7	1291.00	1200.24
23×2.5	32.3	1310.99	1193.39	23×2.5	35.3	1730.04	1612.44
24×0.75	24.6	655.20	585.05	24×0.75	27.6	966.57	896.42
24×1	26.0	765.19	691.11	24×1	29.0	1065.65	991.57
24×1.5	28.7	975.67	880.95	24×1.5	31.7	1306.84	1212.12
24×2.5	32.3	1334.27	1211.54	24×2.5	35.3	1753.31	1630.58
25×0.75	25.2	678.81	605.76	25×0.75	28.2	997.04	923.99
25×1	26.6	792.94	715.80	25×1	29.6	1100.23	1023.09
25×1.5	29.3	1010.99	912.35	25×1.5	32.3	1391.96	1293.32
25×2.5	33.0	1383.92	1256.12	25×2.5	36.0	1811.86	1684.05
26×0.75	25.2	697.22	621.26	26×0.75	28.2	1015.45	939.49
26×1	26.6	814.60	734.38	26×1	29.6	1121.89	1041.67
26×1.5	29.3	1040.24	937.67	26×1.5	32.3	1421.21	1318.64
26×2.5	33.0	1426.53	1293.62	26×2.5	36.0	1854.46	1721.55
27×0.75	25.6	738.07	659.18	27×0.75	28.6	1033.99	955.10
27×1	26.6	836.42	753.10	27×1	29.6	1143.71	1060.39
27×1.5	29.3	1069.69	963.16	27×1.5	32.3	1450.66	1344.13
27×2.5	33.0	1469.42	1331.39	27×2.5	36.0	1897.35	1759.32
28×0.75	26.5	765.66	683.87	28×0.75	29.5	1071.82	990.02
28×1	27.5	867.25	780.86	28×1	30.5	1184.77	1098.39
28×1.5	30.4	1110.14	999.69	28×1.5	33.4	1505.07	1394.62
28×2.5	34.2	1524.21	1381.10	28×2.5	37.2	1967.37	1824.26
29×0.75	26.5	784.20	699.47	29×0.75	29.5	1090.35	1005.62
29×1	27.5	889.06	799.58	29×1	30.5	1206.58	1117.10
29×1.5	30.4	1139.59	1025.18	29×1.5	33.4	1534.52	1420.11
29×2.5	34.2	1567.10	1416.86	29×2.5	37.2	2010.26	1862.02
30×0.75	26.5	802.61	714.97	30×0.75	29.5	1108.77	1021.12
30×1	27.5	910.72	818.17	30×1	30.5	1228.25	1135.69
30×1.5	30.4	1168.84	1050.50	30×1.5	33.4	1563.77	1445.43
30×2.5	34.2	1609.71	1456.37	30×2.5	37.2	2052.87	1899.53
31×0.75	27.5	835.14	744.59	31×0.75	30.5	1152.67	1062.12
31×1	28.6	948.40	852.78	31×1	31.6	1278.44	1182.82
31×1.5	31.6	1216.93	1094.67	31×1.5	34.6	1627.09	1504.83
31×2.5	35.6	1676.05	1517.63	31×2.5	38.6	2136.98	1978.56
32×0.75	27.5	853.55	760.09	32×0.75	30.5	1171.08	1077.62
32×1	28.6	970.07	871.37	32×1	31.6	1300.10	1201.41

32×1.5	31.6	1246.18	1119.99	32×1.5	34.6	1656.34	1530.15
33×2.5	35.6	1761.54	1592.90	33×2.5	38.6	2222.47	2053.83
34×0.75	27.5	894.11	794.82	34×0.75	30.5	1230.92	1131.63
34×1	28.6	1017.35	912.50	34×1	31.6	1412.11	1307.25
34×1.5	31.6	1309.26	1175.19	34×1.5	34.6	1744.15	1610.08
34×2.5	35.6	1857.26	1683.54	34×2.5	38.6	2673.17	2499.45
35×0.75	27.5	912.52	810.32	35×0.75	30.5	1249.34	1147.13
35×1	28.6	1039.02	931.08	35×1	31.6	1433.77	1325.84
35×1.5	31.6	1338.51	1200.50	35×1.5	34.6	1733.40	1635.40
35×2.5	35.6	1899.86	1721.05	35×2.5	38.6	2715.77	2536.96
36×0.75	28.5	938.98	833.84	36×0.75	31.5	1267.87	1162.74
36×1	29.7	1069.54	958.51	36×1	32.7	1455.58	1344.55
36×1.5	32.8	1377.46	1235.49	36×1.5	35.8	1802.85	1660.89
36×2.5	37.6	1955.69	1771.74	36×2.5	40.6	2758.66	2574.72
36×0.5	25.9	450.67	397.38	36×0.5	28.9	700.48	637.87
36×0.75	28.5	952.10	844.06	36×0.75	31.5	1281.00	1172.96
36×1	29.7	1085.03	970.94	36×1	32.7	1471.08	1356.99
36×1.5	30.1	1398.35	1252.47	36×1.5	33.1	1690.63	1555.87
36×2.5	32.8	1450.83	1316.08	36×2.5	35.8	1823.74	1677.86
36×4	37.6	1986.03	1797.01	36×4	40.6	2789.01	2599.99

Table 12

PVC/XLPE insulated steel wire armored PVC sheathed fire resistance control cable

NH-KVV ₃₂ 、NH-KYJV ₃₂				NH-KVV ₃₂ 、NH-KYJV ₃₂			
Core× area mm ²	Out diameter mm	Approx. weight kg/km		Core× area mm ²	Out diameter mm	Approx. weight kg/km	
		PVC Insulation	XLPE Insulation			PVC Insulation	XLPE Insulation
4×1.5	17.7	486.73	470.43	18×0.75	25.8	936.69	882.52
4×2.5	19.8	606.51	585.37	18×1	27.0	1018.66	961.45
4×4	20.8	700.89	677.25	18×1.5	30.9	1641.45	1568.24
4×6	22.0	812.63	786.32	18×2.5	33.9	2018.55	1923.64
4×10	28.9	1578.38	1533.88	19×0.75	25.8	954.22	897.06
5×1.5	18.9	547.06	526.68	19×1	27.0	1062.54	1002.16
5×2.5	21.1	688.20	661.77	19×1.5	30.9	1669.43	1592.17
5×4	22.3	800.04	770.49	19×2.5	33.9	2059.06	1958.90
5×6	24.0	956.80	923.91	20×0.75	26.8	1011.47	951.29
5×10	31.0	1808.06	1752.43	20×1	27.6	1100.72	1037.16
6×0.75	18.2	490.90	472.80	20×1.5	31.5	1739.82	1658.49
6×1	18.7	525.01	505.89	20×2.5	34.6	2127.73	2022.28
6×1.5	20.7	634.57	610.11	21×0.75	27.3	1044.88	981.71
6×2.5	22.5	770.62	738.91	21×1	28.1	1137.43	1070.70
6×4	24.2	925.80	890.34	21×1.5	32.1	1793.68	1708.30
6×6	25.7	1089.36	1049.89	21×2.5	35.3	2212.41	2101.71

6×10	33.3	2043.84	1977.08	22×0.75	28.7	1102.80	1036.63
7×0.75	18.2	508.56	487.45	22×1	31.2	1608.35	1538.46
7×1	18.7	545.45	523.15	22×1.5	33.7	1893.79	1804.36
7×1.5	20.7	662.73	634.20	22×2.5	37.8	2378.74	2262.79
7×2.5	22.5	806.71	769.91	23×0.75	31.3	1556.39	1487.24
7×4	24.2	981.85	940.48	23×1	32.2	1676.71	1603.67
7×6	25.7	1164.09	1118.04	23×1.5	34.9	1971.98	1878.53
7×10	33.3	2170.72	2093.83	23×2.5	39.1	2489.87	2368.71
8×0.75	19.3	556.74	532.61	24×0.75	31.3	1574.95	1502.79
8×1	20.4	623.45	597.96	24×1	32.2	1698.57	1622.34
8×1.5	21.9	728.75	696.14	24×1.5	34.9	2001.56	1904.03
8×2.5	24.3	913.97	871.69	24×2.5	39.1	2532.69	2406.24
8×4	25.8	1083.33	1036.04	25×0.75	31.8	1616.48	1541.33
8×6	29.0	1661.36	1608.73	25×1	32.8	1744.68	1665.30
8×10	35.6	2394.37	2305.36	25×1.5	35.6	2056.65	1955.08
9×0.75	21.3	643.48	616.33	25×2.5	39.9	2603.32	2471.64
9×1	21.9	688.86	660.19	26×0.75	31.8	1634.94	1556.79
9×1.5	24.0	824.90	788.21	26×1	32.8	1766.38	1683.84
9×2.5	26.2	1011.38	963.81	26×1.5	35.6	2086.02	1980.40
9×4	27.8	1202.09	1148.89	26×2.5	39.9	2645.84	2508.91
9×6	31.2	1835.93	1776.72	27×0.75	31.8	1653.53	1572.36
9×10	39.3	2719.58	2619.44	27×1	32.8	177.24	1702.51
10×0.75	22.3	687.83	657.71	27×1.5	35.6	2115.60	2005.90
10×1	23.0	741.81	709.99	27×2.5	39.9	2688.66	2546.44
10×1.5	25.2	893.34	852.63	28×0.75	32.8	1717.64	1633.48
10×2.5	29.2	1467.17	1414.39	28×1	33.8	1855.62	1766.74
10×4	31.0	1718.42	1659.40	28×1.5	36.7	2192.02	2078.29
10×6	32.9	1989.50	1923.80	28×2.5	41.1	2797.93	2650.48
10×10	41.5	2957.25	2846.14	29×0.75	32.8	1736.20	1649.03
11×0.75	22.9	724.33	691.21	29×1	33.8	1788.48	1785.41
11×1	23.5	776.25	741.27	29×1.5	36.7	2221.61	2103.80
11×1.5	25.8	936.24	891.49	29×2.5	41.1	2840.74	2688.01
11×2.5	29.9	1549.06	1491.03	30×0.75	32.8	1754.65	1664.48
11×4	31.8	1800.05	1735.16	30×1	33.8	1899.20	1803.96
11×6	33.8	2106.10	2033.87	30×1.5	36.7	2250.99	2129.13
12×0.75	22.9	742.91	706.77	30×2.5	41.1	2883.26	2725.28
12×1	23.5	798.12	759.95	31×0.75	33.7	1819.18	1726.03
12×1.5	25.8	965.82	916.99	31×1	34.8	1968.32	1869.93
12×2.5	29.9	1591.87	1528.56	31×1.5	37.8	2329.28	2203.39
12×4	31.8	1858.92	1788.11	31×2.5	42.5	2980.10	2816.88
12×6	33.8	2184.46	2105.65	32×0.75	33.7	1837.63	1741.48
13×0.75	23.8	785.07	745.94	32×1	34.8	1990.03	1888.48
13×1	24.9	870.61	829.28	32×1.5	37.8	2358.67	2228.73

13×1.5	26.9	1026.50	973.62	32×2.5	42.5	3022.62	2854.16
13×2.5	31.1	1683.36	1614.80	33×0.75	33.7	1856.20	1757.04
13×4	33.1	1984.05	1907.37	33×1	34.8	2011.89	1907.16
13×6	35.2	2330.79	2245.45	33×1.5	37.8	2388.23	2254.22
14×0.75	23.8	803.64	761.49	33×2.5	42.5	3065.44	2891.69
14×1	24.9	892.46	847.95	34×0.75	34.8	1922.32	1820.17
14×1.5	26.9	1056.09	999.13	34×1	35.9	2081.82	1973.93
14×2.5	31.1	1726.18	1652.33	34×1.5	39.6	2535.16	2397.11
13×4	33.1	2042.91	1960.32	34×2.5	44.2	3216.02	3037.04
14×6	35.2	2409.14	2317.22	35×0.75	34.8	1940.76	1835.61
15×0.75	24.8	851.87	806.73	35×1	35.9	2103.54	1992.48
15×1	25.9	944.88	897.20	35×1.5	39.6	2564.54	2422.43
15×1.5	28.1	1122.61	1061.60	35×2.5	44.2	3258.54	3074.31
15×2.5	32.5	1821.30	1742.20	36×0.75	34.8	1959.32	1851.16
16×0.75	24.8	870.45	822.29	36×1	35.9	2125.40	2011.15
16×1	25.9	966.74	915.88	36×1.5	39.6	2594.11	2447.93
16×1.5	28.1	1532.53	1467.45	36×2.5	44.2	3301.36	3111.84
16×2.5	32.5	1864.10	1779.72	37×0.75	34.8	1976.81	1865.66
17×0.75	25.8	918.12	866.97	37×1	35.9	2145.64	2028.24
17×1	27.0	1020.39	966.36	37×1.5	39.6	2621.99	2471.78
17×1.5	30.9	1611.86	1542.73	37×2.5	44.2	3635.65	3440.90
17×2.5	33.9	1975.73	1886.11				