

General rubber sheathed flexible cables

Introduction

General rubber sheathed flexible cables is made for the application in power transmission of powe, home appliance and all outdoor movable electric equiments at A.C. rated voltage up to U_0/U/ 450/750V.

Max.permissible continous operating temperature of conductor	YC(YCW)	+65℃	YZ(YZW)	+60℃
Ambient temperature	+25℃			
Installation ambient temperature	YC YZ：≥ –40℃ YCW YZW：≥–15℃			
Bending radius	4–5 Times of outer diameter of the cable			

Type of cable

Model	Desicription	Application
YC	Heavy duty rubber sheath flexible cable	Connection of all movable–type electric equipment. withstand heavier mechnical external force.
YCW	Field heavy duty rubber sheath flexible cable	Connection of all movable–type electric equipment，withstand heavier mechmical external force with climate resistant and oil resistant properties.
YZ	Medium–size rubber–sheathed flexible cable	Applying to various mobile appliance device and undertaking to general mechanical outside force
YZW	Field medium–size rubber–sheathed flexible cable	Applying to various mobile appliance device oil resistant properties.

Application characteristic

Rated voltage U_0/U 为450/750V.300/500V.300/300V.

“W” Type cable with the performance of air resistance and oil resistivity is suitable for the use of outdooroccasions or the of contacting with the greasy dirt.

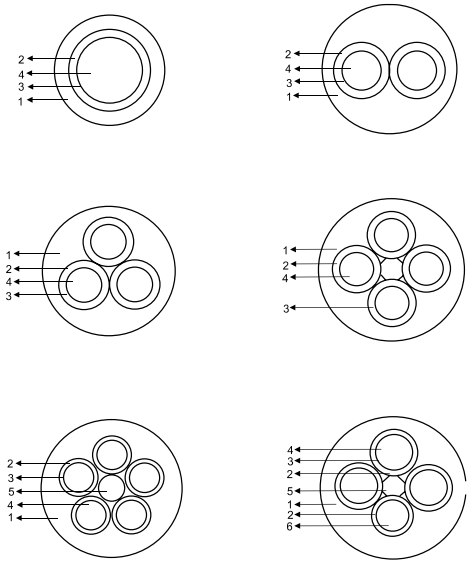
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Product range

Model	No.of cores	Normal cross sectional area of conductor mm^2
YC YCW	1 2 3,,4, 3+1 5	1.5–400 1.5–95 1.5–150 1.5–25
YZ YZW	1 2 3,,4, 3+1 5, 6	0.75–6

Construction



1—Rubber sheath

2—Rubber insulation

2—Tape

4—Conductor core

5—Rubber filling

6—Earthing core

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Single–core general rubber sheathed flexible cable

Normal cross sectional area of conductor Core × mm²	diameter of conductor mm	Normal thick–ness of insulation m m	Normal thickness of sheath mm	Out diameter of cable mm		Calcultated weight of cable kg/km	Current–carrying quantity A
				Min	Max		
1.5	1.8	0.8	1.4	5.6	7.2	62	29
2.5	2.6	0.9	1.4	6.4	8.0	85	37
4	3.2	1.0	1.5	7.2	9.0	114	47
6	3.9	1.0	1.6	8.0	11.0	148	52
10	5.1	1.2	1.8	9.8	13.0	227	75
16	6.3	1.2	1.9	11.0	14.5	305	112
25	7.8	1.4	2.0	12.5	16.5	446	148
35	9.2	1.4	2.2	14.0	18.5	595	183
50	11.0	1.6	2.4	16.5	21.0	799	226
70	13.1	1.6	2.6	18.5	24.0	1060	289
95	15.1	1.8	2.8	21.0	26.0	1401	353
120	17.0	1.8	3.0	23.0	28.5	1667	415
150	19.0	2.0	3.2	25.0	32.0	2034	460
185	20.0	2.2	3.4	27.5	34.5	2524	529
240	24.0	2.4	3.5	30.5	38.0	3195	636
300	27.0	2.6	3.6	33.5	41.5	3901	732
400	31.0	2.8	3.8	37.5	46.5	5095	877

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Two–core general rubber sheathed flexible cable

Normal cross–sectional area of conductor Core × mm 2	diameter of conductor m m	Normal thick–ness of insula–tion mm	Normal thickness of sheath m m	Out diameter of cable mm		Calcultated weight of cable kg / km	Current–carrying quantity A
				Min	Max		
2 × 1.5	1.8	0.8	1.5	9.0	11.5	147	21
2 × 2.5	2.6	0.9	1.7	10.5	13.5	232	30
2 × 4	3.2	1.0	1.8	12.0	15.0	308	39
2 × 6	3.9	1.0	2.0	13.5	18.5	409	57
2 × 10	5.1	1.2	3.1	18.5	24.0	737	74
2 × 16	6.3	1.2	3.3	21.0	27.5	965	98
2 × 25	7.8	1.4	3.6	24.5	31.5	1444	135
2 × 35	9.2	1.4	3.9	27.5	35.5	1875	167
2 × 50	11.0	1.6	4.3	32.0	41.0	2536	208
2 × 70	13.1	1.6	4.6	36.0	46.0	3257	259
2 × 95	15.1	1.8	5.0	40.5	50.5	4349	318

Three–core general rubber sheathed flexible cable

Normal cross–sectional area of conductor Core × mm^2	diameter of conductor mm	Normal thickness of insulation mm	Normal thickness of sheath mm	Out diameter of cable mm		Calcultated weight of cable kg/km	Current–carrying quantity A
				Min	Max		
3 × 1.5	1.8	0.8	1.6	9.6	12.5	178	19
3 × 2.5	2.6	0.9	1.8	11.5	14.5	276	26
3 × 4	3.2	1.0	1.9	13.0	16.0	374	34
3 × 6	3.9	1.0	2.1	14.5	20.5	499	43
3 × 10	5.1	1.2	3.3	20.0	25.5	898	63
3 × 16	6.3	1.2	3.5	22.5	29.5	1191	84
3 × 25	7.8	1.4	3.8	26.5	34.0	1780	115
3 × 35	9.2	1.4	4.1	29.5	38.0	2330	142
3 × 50	11.0	1.6	4.5	34.5	43.5	3054	176
3 × 70	13.1	1.6	4.8	38.5	49.5	4095	224
3 × 95	15.1	1.8	5.3	44.0	54.0	5481	273
3 × 120	17.0	1.8	5.6	48.0	59.0	6459	316
3 × 150	19.0	2.0	6.0	53.0	66.5	7797	454

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Four–core general rubber sheathed flexible cable

Normal cross–sectional area of conductor Core × mm²	diameter of conductor mm	Normal thickness of insulation mm	Normal thickness of sheath mm	Out diameter of cable mm		Calcultated weight of cable kg/km	Current–carrying quantity A
				Min	Max		
4 × 1.5	1.8	0.8	1.7	10.5	13.5	219	19
4 × 2.5	2.6	0.9	1.9	12.5	15.5	341	26
4 × 4	3.2	1.0	2.0	14.5	18.0	464	34
4 × 6	3.9	1.0	2.3	16.5	22.0	627	43
4 × 10	5.1	1.2	3.4	21.5	28.0	1101	63
4 × 16	6.3	1.2	3.6	24.5	32.0	1471	84
4 × 25	7.8	1.4	4.1	29.5	37.5	2244	115
4 × 35	9.2	1.4	4.4	33.0	42.0	2942	142
4 × 50	11.0	1.6	4.8	38.0	48.5	3971	176
4 × 70	13.1	1.6	5.2	43.0	55.0	5210	224
4 × 95	15.1	1.8	5.9	49.0	60.5	7024	273
4 × 120	17.0	1.8	6.0	53.0	65.5	8213	316
4 × 150	19.0	2.0	6.5	59.0	74.0	10042	454

Five–core general rubber sheathed flexible cable

Normal cross–sectional area of conductor Core × mm²	diameter of conductor mm	Normal thickness of insulation mm	Normal thickness of sheath mm	Out diameter of cable mm		Calcultated weight of cable k g/km	Current–carrying quantity A
				Min	Max		
5 × 1.5	1.8	0.8	1.8	11.5	15.0	268	19
5 × 2.5	2.6	0.9	2.0	13.5	17.0	416	26
5 × 4	3.2	1.0	2.2	16.0	19.5	576	34
5 × 6	3.9	1.0	2.5	18.0	24.5	781	43
5 × 10	5.1	1.2	3.6	24.0	31.0	1346	63
5 × 16	6.3	1.2	3.9	27.0	35.5	1818	84
5 × 25	7.8	1.4	4.4	32.5	41.5	2765	115

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三 core general rubber sheathed flexible cable

Normal cross–sectional area of conductor Core × mm²		diameter of conductor mm	Normal thickness of insulation mm		Normal thickness of sheath mm	out diameter of cable mm		kg/km Calcultated weight of cable kg/km	Current–carrying quantity A
Master core	Neutral core		Master core	Neutral core		Min	Max		
3×2.5	1.5	2.6	0.9	0.8	2.0	12.5	15.5	321	26
3×4	2.5	3.2	1.0	0.9	2.0	14.5	17.5	434	34
3×6	4	3.9	1.0	1.0	2.2	16.0	21.0	585	43
3×10	6	5.1	1.2	1.0	3.0	20.5	26.5	966	63
3×16	6	6.3	1.2	1.0	3.5	23.0	30.5	1291	84
3×25	10	7.8	1.4	1.2	4.0	28.0	35.5	1963	115
3×35	10	9.2	1.4	1.2	4.0	30.0	38.5	2438	142
3×50	16	11.0	1.6	1.2	5.0	36.0	46.0	3438	176
3×70	25	13.1	1.6	1.4	5.0	40.0	51.0	4465	224
3×95	35	15.1	1.8	1.4	5.0	44.0	55.0	5829	273
3×120	35	17.0	1.8	1.4	5.0	46.5	59.0	6672	316
3×150	50	19.0	2.0	1.6	5.0	52.0	66.0	7707	454

300/500 YZ，YZW Medium–size rubber sheathed flexible cable

mal cross sectional area of conductor mm²	Diameter of conductor mm	Normal thickness of insulation mm	Normal thickness of sheath mm	Out diameter of cable mm	Conductor resistacne Max. at 20℃	
					Cu–core	Tinned Cu–core
2×0.75	0.21	0.6	0.8	7	26.0	26.7
2×1.0	0.21	0.6	0.9	7.2	19.5	20.0
2×1.5	0.26	0.8	1.0	9.0	13.3	13.7
2×2.5	0.26	0.9	1.1	10.5	7.98	8.21
2×4	0.31	1.0	1.2	10.6	4.95	5.09
2×6	0.31	1.0	1.3	11.8	3.30	3.39
3×0.75	0.21	0.6	0.9	7.5	26.0	26.7

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mal cross sectional area of conductor mm^2	Diameter of conductor mm	Normal thickness of insulation mm	Normal thickness of sheath mm	Out diameter of cable mm	Conductor resistacne Max. at 20℃	
					Cu–core	Tinned Cu–core
3×1.0	0.21	0.6	0.9	8.0	19.5	20.0
3×1.5	0.26	0.8	1.0	10	13.3	13.7
3×2.5	0.26	0.9	1.1	11	7.98	8.21
3×4	0.31	1.0	1.2	11.3	4.95	5.09
3×6	0.31	1.0	1.3	12.6	3.30	3.39
4×0.75	0.21	0.6	0.9	8.0	26.0	26.7
4×1.0	0.21	0.6	0.9	8.5	19.5	20.0
4×1.5	0.26	0.8	1.1	10.5	13.3	13.7
4×2.5	0.26	0.9	1.2	12	7.98	8.21
4×4	0.31	1.0	1.3	12.7	4.95	5.09
4×6	0.31	1.0	1.4	14.0	3.30	3.39
3×1.5+1×1.0	0.26/0.21	0.8/0.6	1.1	8.6	13.3	13.7
3×2.5+1×1.5	0.26/0.26	0.9/0.8	1.2	10.4	7.98	8.21
3×4+1×1.25	0.31/0.26	1.0/0.9	1.3	12.3	4.95	5.09
3×6+1×4	0.31/0.31	1.0/1.0	1.4	13.7	3.30	3.39
5×0.75	0.21	0.6	1.0	8.5	26.0	26.7
5×1	0.21	0.6	1.0	9.0	19.5	20.0
5×1.5	0.26	0.8	1.1	11.0	13.3	13.7
5×2.5	0.26	0.9	1.3	13.0	7.98	8.21
5×4	0.31	1.0	1.4	14.1	4.95	5.09
5×6	0.31	1.0	1.6	15.7	3.30	3.39
6×0.75	0.21	0.6	1.0	8.2	26.0	26.7
6×1.0	0.21	0.6	1.1	8.7	19.5	20.0
6×1.5	0.26	0.8	1.2	10.9	13.3	13.7
6×2.5	0.26	0.9	1.4	13.2	7.98	8.21
6×4	0.31	1.0	1.5	15.5	4.95	5.09
6×6	0,31	1.0	1.7	17.4	3.30	3.39

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