

POWER CABLE

CNS STANDARD



- Reference standard(s): CNS 2655
- Application: Suitable for power transmission and distribution systems
- Nominal voltage: 600V~25kV
- Construction:
 - Conductor: Round stranded or round compact stranded soft-drawn copper wire
 - Conductor shielding layer: For cables of voltage grade greater than 2 kV, there is an extruded semi-conductive layer between the conductor and the insulation
 - Insulation: XLPE
 - Insulation shield layer: For cables of voltage grade greater than 2 kV, the insulation has an extruded semi-conductive layer
 - Metal shielding layer: Soft-drawn copper tape
 - Sheathing: PVC(Black)
 - Core wire identification: Insulated core wire is identified in an appropriate manner

■ 600V Single-core cable-Construction table

Nominal cross-sectional area	Conductor	Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
mm ²	strand/mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
—	1/1.6	1.6	0.76	0.38	4.1	32	8.92	3.5	2500
—	1/2.0	2.0	0.76	0.38	4.5	44	5.65	3.5	2000
—	1/2.6	2.6	0.76	0.38	5.1	65	3.35	3.5	2000
—	1/3.2	3.2	1.14	0.38	6.6	101	2.21	5.5	2000
2.0	7/0.6	1.8	0.76	0.38	4.3	33	9.24	3.5	2500
3.5	7/0.8	2.4	0.76	0.38	4.9	50	5.20	3.5	2000
5.5	7/1.0	3.0	0.76	0.38	5.5	71	3.33	3.5	2000
8	7/1.2	3.6	1.14	0.38	7.0	105	2.31	5.5	1500
14		4.4	1.14	0.76	8.5	176	1.30	5.5	1500
22		5.5	1.14	0.76	9.6	258	0.824	5.5	1500
30		6.4	1.14	0.76	10.5	329	0.623	5.5	1000
38		7.1	1.40	0.76	11.7	412	0.487	7.0	1000
50		8.2	1.40	1.14	13.7	550	0.378	7.0	1000
60		9.1	1.40	1.14	14.6	659	0.303	7.0	1000
80		10.5	1.40	1.14	16.0	852	0.229	7.0	1000
100		11.8	1.40	1.14	17.3	1,051	0.180	7.0	800
125		13.2	1.65	1.65	20.4	1,359	0.144	8.0	800
150		14.7	1.65	1.65	21.9	1,625	0.118	8.0	800
200		16.6	1.65	1.65	23.8	2,018	0.0922	8.0	800
250		18.9	1.65	1.65	26.1	2,543	0.0722	8.0	600
325		21.3	2.03	1.65	29.2	3,231	0.0565	10.0	600
400		24.0	2.03	1.65	31.9	3,985	0.0454	10.0	600
500		26.5	2.03	1.65	34.6	4,794	0.0373	10.0	600
600		30.2	2.41	2.41	40.6	6,197	0.0304	10.0	600
800		34.0	2.41	2.41	45.8	7,891	0.0234	10.0	400
1000		38.1	2.41	2.41	50.8	10,016	0.0179	10.0	400

■ 600V 2-core cable-Construction table

Nominal cross-sectional area	Conductor	Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
mm ²	strand/mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
—	1/1.6	1.6	0.76	1.14	9.7	141	9.10	3.5	2500
—	1/2.0	2.0	0.76	1.14	10.5	177	5.76	3.5	2000
—	1/2.6	2.6	0.76	1.14	11.7	241	3.42	3.5	2000
—	1/3.2	3.2	1.14	1.14	14.7	372	2.25	5.5	2000
2	7/0.6	1.8	0.76	1.14	10.1	149	9.42	3.5	2500
3.5	7/0.8	2.4	0.76	1.14	11.3	203	5.3	3.5	2000
5.5	7/1.0	3.0	0.76	1.14	12.5	266	3.4	3.5	2000
8	7/1.2	3.6	1.14	1.52	16.3	428	2.36	5.5	1500
14		4.4	1.14	1.52	17.9	588	1.33	5.5	1500
22		5.5	1.14	1.52	20.7	838	0.840	5.5	1500
30		6.4	1.14	2.03	23.0	1,070	0.635	5.5	1000
38		7.1	1.40	2.03	25.8	1,343	0.497	7.0	1000
50		8.2	1.40	2.03	27.1	1,313	0.386	7.0	1000
60		9.1	1.40	2.03	29.0	1,563	0.309	7.0	1000
80		10.5	1.40	2.03	31.8	1,988	0.234	7.0	1000
100		11.8	1.40	2.03	34.4	2,429	0.184	7.0	800
125		13.2	1.65	2.03	38.4	3,014	0.147	8.0	800
150		14.7	1.65	2.03	41.4	3,575	0.120	8.0	800
200		16.6	1.65	2.79	46.9	4,634	0.0940	8.0	800
250		18.9	1.65	2.79	51.4	5,795	0.0736	8.0	600
325		21.3	2.03	2.79	57.7	7,331	0.0576	10.0	600

■ 600V 3-core cable-Construction table

Nominal cross-sectional area	Conductor	Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
mm ²	strand/mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
—	1/1.6	1.6	0.76	1.14	10.3	166	9.10	3.5	2500
—	1/2.0	2.0	0.76	1.14	11.2	212	5.76	3.5	2000
—	1/2.6	2.6	0.76	1.14	12.5	296	3.42	3.5	2000
—	1/3.2	3.2	1.14	1.52	15.7	455	2.25	5.5	2000
2.0	7/0.6	1.8	0.76	1.14	10.7	175	9.42	3.5	2500
3.5	7/0.8	2.4	0.76	1.14	12.0	243	5.3	3.5	2000
5.5	7/1.0	3.0	0.76	1.14	13.3	325	3.4	3.5	2000
8	7/1.2	3.6	1.14	1.52	17.3	514	2.36	5.5	1500
14		4.4	1.14	1.52	19.1	724	1.33	5.5	1500
22		5.5	1.14	2.03	22.0	923	0.840	5.5	1500
30		6.4	1.14	2.03	24.9	1,194	0.635	5.5	1000
38		7.1	1.40	2.03	26.4	1,432	0.497	7.0	1000
50		8.2	1.40	2.03	28.9	1,805	0.386	7.0	1000
60		9.1	1.40	2.03	30.8	2,141	0.309	7.0	1000
80		10.5	1.40	2.03	33.9	2,752	0.234	7.0	1000
100		11.8	1.40	2.03	36.7	3,392	0.184	7.0	800
125		13.2	1.65	2.03	42.7	4,375	0.147	8.0	800
150		14.7	1.65	2.79	45.9	5,187	0.120	8.0	800
200		16.6	1.65	2.79	50.0	6,460	0.0940	8.0	800
250		18.9	1.65	2.79	55.0	8,132	0.0736	8.0	600
325		21.3	2.03	2.79	61.6	10,320	0.0576	10.0	600

■ 600V 4-core cable-Construction table

Nominal cross-sectional area	Conductor	Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
mm ²	strand/mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
—	1/1.6	1.6	0.76	1.14	11.1	199	9.10	3.5	2500
—	1/2.0	2.0	0.76	1.14	12.1	258	5.76	3.5	2000
—	1/2.6	2.6	0.76	1.14	13.5	365	3.42	3.5	2000
—	1/3.2	3.2	1.14	1.52	18.0	597	2.25	5.5	2000
2.0	7/0.6	1.8	0.76	1.14	11.6	207	9.42	3.5	2500
3.5	7/0.8	2.4	0.76	1.14	13.1	293	5.3	3.5	2000
5.5	7/1.0	3.0	0.76	1.52	15.3	424	3.4	3.5	2000
8	7/1.2	3.6	1.14	1.52	18.9	626	2.36	5.5	1500
14		4.4	1.14	1.52	20.9	897	1.33	5.5	1500
22		5.5	1.14	2.03	24.0	1,179	0.840	5.5	1500
30		6.4	1.14	2.03	27.4	1,531	0.635	5.5	1000
38		7.1	1.40	2.03	29.0	1,840	0.497	7.0	1000
50		8.2	1.40	2.03	31.8	2,310	0.386	7.0	1000
60		9.1	1.40	2.03	34.0	2,765	0.309	7.0	1000
80		10.5	1.40	2.03	37.3	3,564	0.234	7.0	1000
100		11.8	1.40	2.79	42.2	4,570	0.184	7.0	800
125		13.2	1.65	2.79	47.0	5,657	0.147	8.0	800
150		14.7	1.65	2.79	50.6	6,734	0.120	8.0	800
200		16.6	1.65	2.79	55.2	8,407	0.0940	8.0	800
250		18.9	1.65	2.79	60.7	10,569	0.0736	8.0	600
325		21.3	2.03	3.56	69.9	13,649	0.0576	10.0	600



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■ 2kV Single-core cable-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
2	7/0.6	1.8	1.14	0.38	5.2	40	9.24	5.5	3500	300
3.5	7/0.8	2.4	1.14	0.38	5.8	58	5.20	5.5	3000	
5.5	7/1.0	3.0	1.14	0.38	6.4	79	3.33	5.5	2500	
8	7/1.2	3.6	1.40	0.38	7.5	111	2.31	7.0	2500	
14	Round compact	4.4	1.40	0.76	9.0	183	1.30	7.0	2000	
22		5.5	1.40	0.76	10.1	266	0.824	7.0	2000	
30		6.4	1.40	0.76	11.0	338	0.623	7.0	1500	
38		7.1	1.65	0.76	12.3	423	0.487	8.0	1500	
50		8.2	1.65	1.14	14.3	563	0.378	8.0	1500	
60		9.1	1.65	1.14	15.2	673	0.303	8.0	1500	
80		10.5	1.65	1.14	16.6	867	0.229	8.0	1000	
100		11.8	1.65	1.14	17.9	1,067	0.180	8.0	1000	
125		13.2	1.90	1.65	20.9	1,376	0.144	9.5	1000	
150		14.7	1.90	1.65	22.4	1,642	0.118	9.5	1000	
200		16.6	1.90	1.65	24.3	2,037	0.0922	9.5	800	
250		18.9	1.90	1.65	26.6	2,564	0.0722	9.5	800	200
325		21.3	2.29	1.65	29.8	3,259	0.0565	11.5	800	
400		24.0	2.29	1.65	32.5	4,016	0.0454	11.5	800	
500		26.5	2.29	1.65	35.0	4,826	0.0373	11.5	600	150

■ 2kV 3-core cable-Construction table

2	7/0.6	1.8	1.14	1.14	12.7	222	9.42	5.5	3500	300
3.5	7/0.8	2.4	1.14	1.14	14.0	295	5.30	5.5	3000	
5.5	7/1.0	3.0	1.14	1.52	16.1	411	3.40	5.5	2500	
8	7/1.2	3.6	1.40	1.52	18.4	553	2.36	7.0	2500	
14	Round compact	4.4	1.40	1.52	20.1	767	1.33	7.0	2000	
22		5.5	1.40	2.03	23.0	960	0.840	7.0	2000	
30		6.4	1.40	2.03	24.9	1,195	0.635	7.0	1500	
38		7.1	1.65	2.03	27.7	1,482	0.497	8.0	1500	
50		8.2	1.65	2.03	30.2	1,851	0.386	8.0	1500	
60		9.1	1.65	2.03	32.1	2,201	0.309	8.0	1500	
80		10.5	1.65	2.03	35.1	2,819	0.234	8.0	1000	
100		11.8	1.65	2.03	37.9	3,451	0.184	8.0	1000	
125		13.2	1.90	2.79	43.7	4,444	0.147	9.5	1000	
150		14.7	1.90	2.79	47.0	5,297	0.120	9.5	1000	
200	16.6	1.90	2.79	51.1	6,543	0.0940	9.5	800		
250	18.9	1.90	2.79	55.0	8,198	0.0736	9.5	800	150	
325	21.3	2.29	2.79	62.9	10,428	0.0576	11.5	800		

■ 5kV Single-core cable-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
8	Round compact	3.3	2.29	1.14	14.0	269	2.31	18	3000	300
14		4.4	2.29	1.52	15.9	375	1.30	18	3000	
22		5.5	2.29	1.52	17.1	474	0.824	18	2500	
30		6.4	2.29	1.52	17.9	559	0.623	18	2000	
38		7.1	2.29	1.52	18.6	643	0.487	18	2000	
50		8.2	2.29	1.52	19.7	770	0.378	18	2000	
60		9.1	2.29	1.52	20.6	889	0.303	18	2000	
80		10.5	2.29	1.52	22.0	1,100	0.229	18	1500	
100		11.8	2.29	2.03	24.3	1,369	0.180	18	1500	
125		13.2	2.29	2.03	25.7	1,628	0.144	18	1500	
150		14.7	2.29	2.03	27.2	1,903	0.118	18	1500	
200		16.6	2.29	2.03	29.1	2,328	0.0922	18	1000	200
250		18.9	2.29	2.03	31.4	2,884	0.0722	18	1000	
325		21.3	2.29	2.03	34.6	3,621	0.0565	18	1000	
400		24.0	2.29	2.03	37.8	4,423	0.0454	18	800	
500		26.5	2.29	2.03	40.5	5,276	0.0373	18	800	

■ 5kV 3-core cable-Construction table

8	Round compact	3.3	2.29	2.03	28.7	938	2.36	18	3000	300
14		4.4	2.29	2.03	31.1	1,173	1.33	18	3000	
22		5.5	2.29	2.03	33.5	1,500	0.840	18	2500	
30		6.4	2.29	2.03	35.4	1,769	0.635	18	2000	
38		7.1	2.29	2.03	36.9	2,036	0.497	18	2000	
50		8.2	2.29	2.03	39.4	2,442	0.386	18	2000	
60		9.1	2.29	2.03	41.3	2,820	0.309	18	2000	
80		10.5	2.29	2.03	44.3	3,486	0.234	18	1500	
100		11.8	2.29	2.79	48.8	4,352	0.184	18	1500	
125		13.2	2.29	2.79	51.8	5,174	0.147	18	1500	
150		14.7	2.29	2.79	55.1	6,078	0.120	18	1500	200
200		16.6	2.29	2.79	59.2	7,377	0.0940	18	1000	
250		18.9	2.29	2.79	64.0	9,128	0.0736	18	1000	
325		21.3	2.29	3.56	72.6	11,745	0.0576	18	1000	

■ 8kV Single-core cable(neutral grounding system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
14	Round compact	4.4	2.92	1.52	17.3	417	1.30	23	3500	300
22		5.5	2.92	1.52	18.5	518	0.824	23	3000	
30		6.4	2.92	1.52	19.3	605	0.623	23	2500	
38		7.1	2.92	1.52	20.0	691	0.487	23	2500	
50		8.2	2.92	2.03	22.1	872	0.378	23	2000	
60		9.1	2.92	2.03	23.0	994	0.303	23	2000	
80		10.5	2.92	2.03	24.4	1,212	0.229	23	2000	
100		11.8	2.92	2.03	25.7	1,429	0.180	23	2000	
125		13.2	2.92	2.03	27.1	1,691	0.144	23	1500	
150		14.7	2.92	2.03	28.6	1,980	0.118	23	1500	200
200		16.6	2.92	2.03	30.5	2,398	0.0922	23	1500	
250		18.9	2.92	2.03	33.4	2,997	0.0722	23	1500	
325		21.3	2.92	2.03	36.0	3,702	0.0565	23	1500	
400	Round compact	24.0	2.92	2.03	39.2	4,512	0.0454	23	1500	150
500		26.5	2.92	2.03	41.9	5,370	0.0373	23	1000	

■ 8kV 3-core cable(neutral grounding system)-Construction table

14	Round compact	4.4	2.92	2.03	34.2	1,336	1.33	23	3500	300
22		5.5	2.92	2.03	36.6	1,662	0.840	23	3000	
30		6.4	2.92	2.03	38.5	1,937	0.635	23	2500	
38		7.1	2.92	2.03	40.0	2,208	0.497	23	2500	
50		8.2	2.92	2.03	42.4	2,627	0.386	23	2000	
60		9.1	2.92	2.79	46.0	3,189	0.309	23	2000	
80		10.5	2.92	2.79	49.0	3,850	0.234	23	2000	
100		11.8	2.92	2.79	51.8	4,570	0.184	23	2000	200
125		13.2	2.92	2.79	54.9	5,400	0.147	23	1500	
150		14.7	2.92	2.79	58.1	6,312	0.120	23	1500	
200		16.6	2.92	2.79	62.2	7,640	0.0940	23	1500	
250		18.9	2.92	2.79	68.4	9,547	0.0736	23	1000	150
325		21.3	2.92	3.56	75.6	12,059	0.0576	23	1000	

■ 8kV Single-core cable(isolated neutral system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
14	Round compact	4.4	3.56	1.52	18.6	458	1.30	28	3500	300
22		5.5	3.56	1.52	19.8	562	0.824	28	3000	
30		6.4	3.56	1.52	20.6	650	0.623	28	2500	
38		7.1	3.56	2.03	22.3	790	0.487	28	2500	
50		8.2	3.56	2.03	23.4	923	0.378	28	2000	
60		9.1	3.56	2.03	24.3	1,048	0.303	28	2000	
80		10.5	3.56	2.03	25.7	1,268	0.229	28	2000	
100		11.8	3.56	2.03	27.0	1,488	0.180	28	2000	200
125		13.2	3.56	2.03	28.4	1,753	0.144	28	1500	
150		14.7	3.56	2.03	29.9	2,044	0.118	28	1500	
200		16.6	3.56	2.03	31.8	2,465	0.0922	28	1500	
250		18.9	3.56	2.03	34.7	3,071	0.0722	28	1000	
325	21.3	3.56	2.03	37.3	3,781	0.0565	28	1000	150	
400	24.0	3.56	2.03	40.5	4,596	0.0454	28	1000		
500	26.5	3.56	2.79	45.3	5,654	0.0373	28	1000		

■ 15kV Single-core cable(neutral grounding system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	4.45	2.03	23.6	780	0.623	35	3500	300
38		7.1	4.45	2.03	24.3	871	0.487	35	3500	
50		8.2	4.45	2.03	25.4	1,008	0.378	35	3000	
60		9.1	4.45	2.03	26.3	1,135	0.303	35	3000	
80		10.5	4.45	2.03	27.7	1,359	0.229	35	2500	
100		11.8	4.45	2.03	29.0	1,583	0.180	35	2500	200
125		13.2	4.45	2.03	30.4	1,852	0.144	35	2000	
150		14.7	4.45	2.03	32.5	2,185	0.118	35	2000	
200		16.6	4.45	2.03	34.4	2,614	0.0922	35	2000	
250		18.9	4.45	2.03	36.7	3,188	0.0722	35	1500	
325	Round compact	21.3	4.45	2.03	39.4	3,909	0.0565	35	1500	150
400		24.0	4.45	2.03	42.8	4,752	0.0454	35	1500	
500		26.5	4.45	2.79	47.6	5,848	0.0373	35	1500	

■ 15kV 3-core cable(neutral grounding system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	4.45	2.79	47.2	2,550	0.635	35	3500	200
38		7.1	4.45	2.79	48.7	2,843	0.497	35	3500	
50		8.2	4.45	2.79	51.1	3,285	0.386	35	3000	
60		9.1	4.45	2.79	53.1	3,685	0.309	35	3000	
80		10.5	4.45	2.79	56.2	4,375	0.234	35	2500	
100		11.8	4.45	2.79	59.0	5,127	0.184	35	2500	150
125		13.2	4.45	2.79	62.0	5,981	0.147	35	2000	
150		14.7	4.45	2.79	66.5	7,049	0.120	35	2000	
200		16.6	4.45	2.79	70.6	8,423	0.0940	35	2000	
250		18.9	4.45	3.56	77.1	10,537	0.0736	35	1500	
325	Round compact	21.3	4.45	3.56	82.8	12,838	0.0576	35	1500	

■ 15kV Single-core cable(isolated neutral system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	5.59	2.03	26.0	883	0.623	44	3500	200
38		7.1	5.59	2.03	26.7	976	0.487	44	3500	
50		8.2	5.59	2.03	27.8	1,117	0.378	44	3500	
60		9.1	5.59	2.03	28.7	1,247	0.303	44	3000	
80		10.5	5.59	2.03	30.1	1,476	0.229	44	3000	
100		11.8	5.59	2.03	31.4	1,704	0.180	44	2500	150
125		13.2	5.59	2.03	33.4	2,017	0.144	44	2500	
150		14.7	5.59	2.03	34.9	2,319	0.118	44	2500	
200		16.6	5.59	2.03	36.8	2,755	0.0922	44	2000	
250		18.9	5.59	2.03	39.1	3,337	0.0722	44	2000	
325	Round compact	21.3	5.59	2.79	43.5	4,241	0.0565	44	2000	150
400		24.0	5.59	2.79	46.7	5,090	0.0454	44	1500	
500		26.5	5.59	2.79	50.0	6,039	0.0373	44	1500	

■ 15kV three-core cable(isolated neutral system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	5.59	2.79	52.4	2,924	0.635	44	3500	150
38		7.1	5.59	2.79	53.9	3,224	0.497	44	3500	
50		8.2	5.59	2.79	56.3	3,681	0.386	44	3500	
60		9.1	5.59	2.79	58.2	4,103	0.309	44	3000	
80		10.5	5.59	2.79	61.2	4,837	0.234	44	3000	
100		11.8	5.59	2.79	64.0	5,569	0.184	44	2500	150
125		13.2	5.59	2.79	68.3	6,579	0.147	44	2500	
150		14.7	5.59	2.79	71.6	7,546	0.120	44	2500	
200		16.6	5.59	3.56	77.3	9,234	0.0940	44	2000	
250		18.9	5.59	3.56	82.1	11,102	0.0736	44	2000	
325	Round compact	21.3	5.59	3.56	87.8	13,442	0.0576	44	2000	

■ 25kV Single-core cable(neutral grounding system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	6.6	2.03	28.1	980	0.623	52	3600	300
38		7.1	6.6	2.03	28.8	1,075	0.487	52	3600	
50		8.2	6.6	2.03	29.9	1,219	0.378	52	3000	
60		9.1	6.6	2.03	30.8	1,352	0.303	52	3000	
80		10.5	6.6	2.03	32.8	1,624	0.229	52	3000	
100		11.8	6.6	2.03	34.1	1,857	0.180	52	2800	200
125		13.2	6.6	2.03	35.5	2,137	0.144	52	2000	
150		14.7	6.6	2.03	37.0	2,443	0.118	52	2000	
200		16.6	6.6	2.03	38.9	2,885	0.0922	52	2000	
250		18.9	6.6	2.03	41.2	3,474	0.0722	52	1800	
325	Round compact	21.3	6.6	2.79	45.6	4,395	0.0565	52	1500	150
400		24.0	6.6	2.79	49.4	5,310	0.0454	52	1500	
500		26.5	6.6	2.79	52.1	6,212	0.0373	52	1500	

■ 25kV 3-core cable(neutral grounding system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	6.6	2.79	57.0	3,286	0.635	52	3600	200
38		7.1	6.6	2.79	58.5	3,586	0.497	52	3600	
50		8.2	6.6	2.79	60.9	4,056	0.386	52	3000	
60		9.1	6.6	2.79	62.8	4,486	0.309	52	3000	
80		10.5	6.6	2.79	67.1	5,375	0.234	52	3000	
100		11.8	6.6	2.79	69.9	6,127	0.184	52	2800	150
125		13.2	6.6	3.56	74.6	7,307	0.147	52	2000	
150		14.7	6.6	3.56	77.8	8,309	0.120	52	2000	
200		16.6	6.6	3.56	81.9	9,736	0.0940	52	2000	
250		18.9	6.6	3.56	86.8	11,633	0.0736	52	1800	
325	Round compact	21.3	6.6	3.56	92.4	13,998	0.0576	52	1500	

■ 25kV Single-core cable(isolated neutral system)-Construction table

Nominal cross-sectional area	Conductor		Minimum average insulation thickness	Minimum average sheathing thickness	Approximate finished external diameter (reference value)	Approximate cable weight (reference value)	Maximum conductor resistance (20°C)	Test voltage (A.C.)	Minimum insulation resistance (20±15°C)	Standard length
	Shape	External diameter (approx.)								
mm ²		mm	mm	mm	mm	kg/km	Ω/km	kV/5min	MΩ-km	m
30	Round compact	6.4	8.76	2.03	32.9	1,231	0.623	64	4500	200
38		7.1	8.76	2.03	33.6	1,331	0.487	64	4500	
50		8.2	8.76	2.03	34.7	1,483	0.378	64	4000	
60		9.1	8.76	2.03	35.6	1,622	0.303	64	3800	
80		10.5	8.76	2.03	37.0	1,866	0.229	64	3500	
100		11.8	8.76	2.03	38.3	2,107	0.180	64	3500	150
125		13.2	8.76	2.03	39.7	2,395	0.144	64	3500	
150		14.7	8.76	2.03	41.2	2,711	0.118	64	3200	
200		16.6	8.76	2.79	44.8	3,344	0.0922	64	2800	
250		18.9	8.76	2.79	47.7	4,011	0.0722	64	2800	
325	Round compact	21.3	8.76	2.79	50.3	4,776	0.0565	64	2400	150
400		24.0	8.76	2.79	53.5	5,656	0.0454	64	2000	
500		26.5	8.76	2.79	56.0	6,555	0.0373	64	2000	