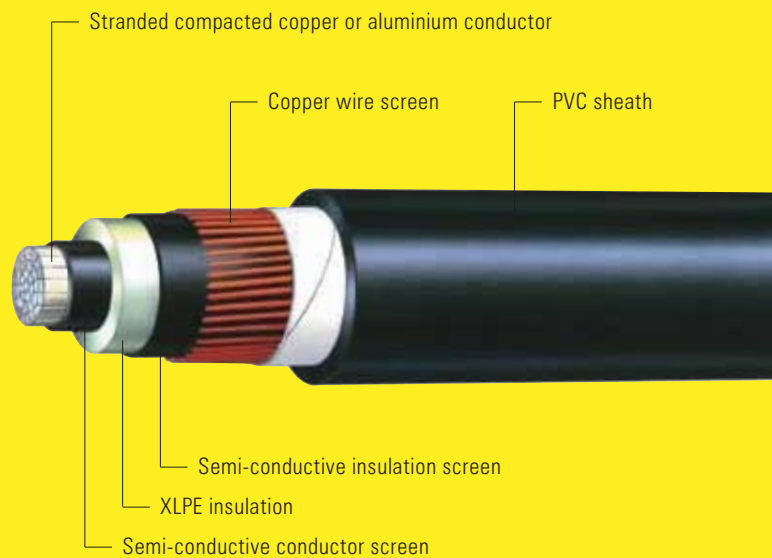




Single Core

3.8/6.6 to 19/33kV















6.35/11kV Single Core Screened & PVC Sheathed

Copper Conductors, up to 10kA Fault Level

Nominal conductor area	Nominal conductor diameter	Nominal insulation thickness	Nominal diameter over insulation	Nominal screen area on each core	Number and nominal diameter of screen wires	Nominal diameter over wire screen	Nominal overall diameter	Approx. mass	Product code	Max. pulling tension	Min. bending radius	Set in position	Nominal duct diameter
mm ²	mm	mm	mm	mm ²	no/mm	mm	mm	kg/100m		kN	During pulling mm	mm	mm
16	4.8	3.4	12.8	15.9	28/0.85	16.1	20.2	59	XJHP15AA001	1.1	360	240	50
25	5.8	3.4	13.8	24.4	43/0.85	17.1	21.2	78	XJHP17AA001	1.8	380	250	50
35	6.8	3.4	14.8	34.4	24/1.35	19.1	23.2	99	XJHP18AA001	2.5	420	280	50
50	8.0	3.4	16.0	48.7	34/1.35	20.3	24.4	125	XJHP19AA001	3.5	440	290	50
70	9.6	3.4	17.6	68.1	30/1.70	22.6	26.9	165	XJHP20AA001	4.9	480	320	50
95	11.5	3.4	19.4	68.7	48/1.35	23.7	27.9	195	XJHP22AA001	6.7	500	330	50
120	13.1	3.4	21.0	68.7	48/1.35	25.3	29.4	225	XJHP23AA001	8.4	530	350	50
150	14.5	3.4	22.4	68.7	48/1.35	26.7	31.1	255	XJHP24AA001	11	560	370	63
185	16.1	3.4	24.1	68.7	48/1.35	28.4	32.7	285	XJHP25AA001	13	590	390	63
240	18.5	3.4	26.5	68.7	48/1.35	30.8	35.3	345	XJHP26AA001	17	640	420	63
300	20.7	3.4	28.9	68.7	48/1.35	33.2	37.9	410	XJHP27AA001	21	680	450	63
400	23.6	3.4	31.8	68.7	48/1.35	36.3	41.2	505	XJHP28AA001	28	740	490	65
500	26.5	3.4	34.7	68.7	48/1.35	39.2	44.3	605	XJHP30AA001	35	800	530	65
630	29.9	3.4	38.4	68.7	48/1.35	42.9	48.7	730	XJHP32AA001	44	880	580	80
800	35.9	3.4	44.5	68.7	48/1.35	49.0	55.0	925	XJHP33AA001	56	990	660	80
													200

Note: For larger sizes, use 12.7/22kV cables

Current Ratings



Nominal conductor area mm ²	Continuous current-carrying capacity, A												Fault current carrying capacity for 1 second	
	In air		In ground		In underground ducts								Cond. kA	Screen kA
														
16	114	134	106	112	81	116	118	113	103	104	101	91	2.29	2.36
25	148	173	137	145	103	148	150	145	131	131	129	117	3.57	3.62
35	182	211	168	178	125	177	179	174	156	156	154	140	5.00	5.09
50	216	251	201	213	150	208	208	204	181	180	180	167	7.15	7.22
70	269	308	251	266	184	251	248	249	216	212	217	204	10.0	10.1
95	323	368	302	321	219	297	291	296	253	246	256	242	13.6	10.1
120	370	420	348	370	257	334	325	336	284	274	289	279	17.1	10.2
150	416	468	393	419	288	370	356	374	314	300	322	311	21.4	10.2
185	471	525	448	478	325	412	392	420	347	328	359	350	26.4	10.2
240	548	602	525	561	376	467	439	482	391	365	410	402	34.3	10.2
300	617	670	598	639	438	516	478	538	431	397	457	462	42.9	10.2
400	701	750	687	735	497	571	522	605	474	431	510	519	57.2	10.2
500	787	831	782	837	558	627	565	674	520	466	568	580	71.5	10.2
630	877	911	886	948	624	683	607	746	560	496	620	642	90.0	10.2
800	986	1014	1008	1082	727	740	651	822	616	537	693	734	114	10.2

Electrical Characteristics

Nominal conductor area	Maximum Conductor DC resistance at 20°C Ohm/km	Cond. AC resistance at 50Hz and 90°C		Inductive reactance at 50Hz and 90°C			Insulation resistance at 20°C	Conductor to screen capacitance	Charging current per phase	Dielectric loss per phase	Maximum dielectric stress	Screen DC resistance at 20°C	Zero sequence resistance at 20°C	Zero seq. react. at 50Hz
		Trefoil or flat touching Ohm/km	Flat spaced Ohm/km	Trefoil touching Ohm/km	Flat touching Ohm/km	Flat spaced Ohm/km								
mm²							MegOhm.km	μF/km	A/km	W/km	kV/mm	Ohm/km	Ohm/km	Ohm/km
16	1.15	1.47	1.47	0.161	0.176	0.222	14000	0.177	0.354	8.98	2.77	1.14	2.29	0.0922
25	0.727	0.927	0.927	0.152	0.167	0.213	12000	0.198	0.394	10.0	2.65	0.740	1.47	0.0845
35	0.524	0.668	0.668	0.147	0.163	0.208	11000	0.219	0.436	11.1	2.55	0.527	1.05	0.0800
50	0.387	0.494	0.494	0.140	0.155	0.201	10000	0.242	0.484	12.3	2.46	0.371	0.758	0.0742
70	0.268	0.342	0.342	0.135	0.150	0.196	8800	0.275	0.549	13.9	2.37	0.266	0.534	0.0689
95	0.193	0.247	0.247	0.122	0.138	0.183	7700	0.314	0.626	15.9	2.30	0.263	0.457	0.0594
120	0.153	0.196	0.195	0.117	0.133	0.178	7000	0.346	0.689	17.5	2.25	0.264	0.417	0.0556
150	0.124	0.160	0.159	0.114	0.129	0.175	6400	0.374	0.747	19.0	2.21	0.263	0.388	0.0527
185	0.0991	0.128	0.127	0.111	0.126	0.172	5900	0.407	0.811	20.6	2.17	0.263	0.363	0.0499
240	0.0754	0.0980	0.0973	0.106	0.122	0.167	5300	0.456	0.909	23.1	2.13	0.262	0.339	0.0465
300	0.0601	0.0791	0.0781	0.104	0.119	0.165	4800	0.503	1.00	25.5	2.10	0.263	0.324	0.0444
400	0.0470	0.0631	0.0618	0.0988	0.115	0.161	4300	0.561	1.12	28.5	2.07	0.263	0.312	0.0412
500	0.0366	0.0508	0.0489	0.0970	0.112	0.158	3900	0.620	1.24	31.4	2.05	0.263	0.302	0.0390
630	0.0283	0.0412	0.0389	0.0953	0.111	0.156	3500	0.694	1.38	35.2	2.02	0.263	0.294	0.0373
800	0.0221	0.0347	0.0318	0.0906	0.106	0.151	3000	0.816	1.63	41.3	1.99	0.263	0.288	0.0337

6.35/11kV Single Core Screened & PVC Sheathed

Aluminium Conductors, up to 10kA Fault Level

Nominal conductor area	Nominal conductor diameter	Nominal insulation thickness	Nominal diameter over insulation	Nominal screen area on each core	Number and nominal diameter of screen wires	Nominal diameter over wire screen	Nominal overall diameter	Approx. mass	Product code	Max. pulling tension	Min. bending radius		Nominal duct diameter	
mm ²	mm	mm	mm	mm ²	no/mm	mm	mm	kg/100m		kN	During pulling mm	Set in position mm		
35	6.9	3.4	14.9	22.7	40/0.85	18.2	22.3	66	XJHA18AA001	1.8	400	270	50	65
50	8.1	3.4	16.0	32.9	23/1.35	20.3	24.4	82	XJHA19AA001	2.5	440	290	50	80
70	9.6	3.4	17.6	45.8	32/1.35	21.9	26.0	105	XJHA20AA001	3.5	470	310	50	80
95	11.4	3.4	19.3	61.5	43/1.35	23.6	27.7	130	XJHA22AA001	4.8	500	330	50	80
120	12.8	3.4	20.7	68.7	48/1.35	25.0	29.1	145	XJHA23AA001	6.0	520	350	50	100
150	14.2	3.4	22.1	68.7	48/1.35	26.4	30.7	155	XJHA24AA001	7.5	550	370	63	100
185	15.7	3.4	23.6	68.7	48/1.35	27.9	32.2	170	XJHA25AA001	9.3	580	390	63	100
240	18.0	3.4	25.9	68.7	48/1.35	30.2	34.7	190	XJHA26AA001	12	630	420	63	100
300	20.1	3.4	28.3	68.7	48/1.35	32.6	37.3	215	XJHA27AA001	15	670	450	63	150
400	23.0	3.4	31.1	68.7	48/1.35	35.6	40.5	250	XJHA28AA001	20	730	490	65	150
500	26.5	3.4	34.7	68.7	48/1.35	39.2	44.3	295	XJHA30AA001	25	800	530	65	150
630	29.9	3.4	38.4	68.7	48/1.35	42.9	48.4	345	XJHA32AA001	32	870	580	80	150
800	34.2	3.4	42.8	68.7	48/1.35	47.3	53.0	405	XJHA33AA001	40	950	640	80	200

Note: For larger sizes, use 12.7/22kV cables

Current Ratings

Nominal conductor area mm ²	Continuous current-carrying capacity, A												Fault current carrying capacity for 1 second	
	In air				In ground				In underground ducts				Cond. kA	Screen kA
	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond	Solid Bond		
35	140	163	129	136	96	138	139	134	121	122	119	108	3.31	3.37
50	169	198	156	166	117	163	164	159	143	144	141	130	4.73	4.88
70	210	244	194	206	143	198	199	194	173	172	171	159	6.62	6.79
95	254	293	235	250	171	234	233	231	203	200	202	189	8.99	9.13
120	291	334	271	288	200	264	261	262	227	223	228	218	11.4	10.2
150	328	375	306	326	225	293	288	292	254	248	256	244	14.2	10.2
185	374	425	350	373	255	329	321	330	283	274	287	275	17.5	10.2
240	438	492	413	441	296	376	363	380	323	308	330	318	22.7	10.2
300	497	553	472	504	347	419	400	427	358	338	369	366	28.4	10.2
400	573	630	548	586	398	471	444	485	402	376	419	417	37.8	10.2
500	660	715	638	682	456	528	491	550	449	414	474	473	47.3	10.2
630	751	801	734	786	518	586	537	620	494	450	530	533	59.6	10.2
800	848	893	840	900	610	645	583	692	544	488	591	618	75.7	10.2

Electrical Characteristics

Nominal conductor area mm ²	Maximum Conductor DC resistance at 20°C Ohm/km	Cond. AC resistance at 50Hz and 90°C		Inductive reactance at 50Hz and 90°C			Insulation resistance at 20°C MegOhm.km	Conductor to screen capacitance μF/km	Charging current per phase A/km	Dielectric loss per phase W/km	Maximum dielectric stress kV/mm	Screen DC resistance at 20°C Ohm/km	Zero sequence resistance at 20°C Ohm/km	Zero seq. react. at 50Hz Ohm/km
		Trefoil or flat touching Ohm/km	Flat spaced Ohm/km	Trefoil touching Ohm/km	Flat touching Ohm/km	Flat spaced Ohm/km								
35	0.868	1.11	1.11	0.144	0.159	0.205	11000	0.220	0.439	11.1	2.54	0.796	1.66	0.0779
50	0.641	0.821	0.821	0.140	0.155	0.201	9900	0.243	0.486	12.3	2.46	0.548	1.19	0.0740
70	0.443	0.568	0.568	0.129	0.145	0.190	8700	0.276	0.551	14.0	2.37	0.395	0.838	0.0650
95	0.320	0.410	0.410	0.123	0.138	0.184	7800	0.311	0.620	15.8	2.30	0.294	0.614	0.0597
120	0.253	0.325	0.325	0.118	0.134	0.179	7100	0.339	0.677	17.2	2.25	0.263	0.517	0.0563
150	0.206	0.265	0.264	0.115	0.130	0.176	6600	0.368	0.734	18.6	2.22	0.263	0.469	0.0533
185	0.164	0.211	0.211	0.112	0.127	0.172	6100	0.398	0.794	20.2	2.18	0.263	0.428	0.0506
240	0.125	0.161	0.161	0.107	0.123	0.168	5400	0.445	0.887	22.5	2.14	0.264	0.389	0.0472
300	0.100	0.130	0.129	0.105	0.120	0.166	4900	0.491	0.980	24.9	2.11	0.263	0.363	0.0451
400	0.0778	0.102	0.101	0.101	0.116	0.162	4400	0.548	1.09	27.8	2.08	0.263	0.342	0.0418
500	0.0605	0.0803	0.0790	0.0970	0.112	0.158	3900	0.620	1.24	31.4	2.05	0.263	0.325	0.0390
630	0.0469	0.0636	0.0620	0.0950	0.110	0.156	3500	0.695	1.39	35.2	2.02	0.264	0.312	0.0374
800	0.0367	0.0516	0.0494	0.0920	0.107	0.153	3100	0.782	1.56	39.6	2.00	0.263	0.302	0.0351