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Special Fiber Optic Cables

Item Code: ST-SPC ST-SCPOC

Submarine Power Cable, Submarine Composite Power Cable with Optical Fiber Cable



Technical Specifications

3 core(copper core)XLPE insulated separately lead sheathed thick steel armored fiber covering

submarine power cable, submarine composite power cable with optical fiber cable

Rated Voltage: 8.7/10kV,8.7/15Kv,(ZS-YJQF41,ZS-YJQF41+OFC)

Normal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	Shield
50	94.3	0.387	0.494	2.27	0.213	0.438	194	193	7.2	2.3
70	101.7	0.268	0.342	2.10	0.242	0.412	240	235	10.0	2.5
95	117.0	0.193	0.246	1.83	0.267	0.393	288	278	13.6	2.9
120	123.2	0.153	0.196	1.74	0.289	0.379	328	314	17.2	3.0
150	139.0	0.124	0.159	1.54	0.311	0.367	369	348	21.5	3.4
185	147.5	0.0991	0.127	1.45	0.339	0.354	418	389	26.5	3.6
240	168.9	0.0754	0.0976	1.27	0.374	0.341	481	441	34.3	4.1

300	180.0	0.0601	0.0778	1.19	0.408	0.331	542	489	42.9	4.4
400	213.6	0.0470	0.0614	1.00	0.466	0.324	614	541	57.2	5.2

Rated Voltage:12/20kV(ZS-YJQF41,ZS-YJQF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	Shield
50	110.8	0.387	0.494	1.93	0.185	0.453	196	193	7.2	2.7
70	118.8	0.268	0.342	1.80	0.208	0.425	242	235	10.0	2.9
95	135.2	0.193	0.246	1.58	0.229	0.405	290	279	13.6	3.3
120	141.8	0.153	0.196	1.51	0.247	0.391	331	314	17.2	3.5
150	148.4	0.124	0.159	1.44	0.265	0.379	372	349	21.5	3.6
185	167.9	0.0991	0.127	1.27	0.289	0.367	421	389	26.5	4.1
240	178.9	0.0754	0.0976	1.20	0.317	0.352	485	441	34.3	4.4
300	202.4	0.0601	0.0778	1.06	0.345	0.341	545	488	42.9	4.9
400	238.1	0.0470	0.0614	0.90	0.392	0.333	616	540	57.2	5.8

Rated Voltage:18/30kV(ZS-YJQF41,ZS-YJQF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	Shield
50	142.8	0.387	0.494	1.50	0.143	0.485	200	196	7.2	3.5
70	161.9	0.268	0.342	1.33	0.160	0.456	246	238	10.0	3.9
95	170.0	0.193	0.246	1.26	0.175	0.435	294	281	13.6	4.1
120	176.9	0.153	0.196	1.21	0.188	0.420	335	316	17.2	4.3
150	196.0	0.124	0.159	1.09	0.200	0.406	376	348	21.5	4.8
185	205.6	0.0991	0.127	1.04	0.217	0.392	423	388	26.5	5.0
240	230.7	0.0754	0.0976	0.93	0.236	0.377	488	439	34.3	5.6
300	257.3	0.0601	0.0778	0.83	0.256	0.364	547	485	42.9	6.3
400	281.7	0.0470	0.0614	0.76	0.289	0.355	619	537	57.2	6.9

Rated Voltage:26/35kV(ZS-YJQF41,ZS-YJQF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	shield
50	189.6	0.387	0.494	1.13	0.121	0.514	203	197	7.2	4.6
70	199.2	0.268	0.342	1.07	0.134	0.483	250	239	10.0	4.9
95	220.5	0.193	0.246	0.97	0.146	0.461	298	281	13.6	5.4
120	228.5	0.153	0.196	0.94	0.156	0.445	339	315	17.2	5.6
150	236.4	0.124	0.159	0.91	0.166	0.431	380	350	21.5	5.8

185	260.8	0.0991	0.127	0.82	0.178	0.415	428	388	26.5	6.4
240	274.0	0.0754	0.0976	0.78	0.193	0.399	493	440	34.3	6.7
300	302.8	0.0601	0.0778	0.71	0.209	0.385	551	484	42.9	7.4
400	345.7	0.0470	0.0614	0.62	0.234	0.374	623	537	57.2	8.4

Rated Voltage:48/66kV(ZS-YJQF41、ZS-YJQF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	shield
70	270.2	0.268	0.342	0.79	0.111	0.509	272	225	10.0	6.6
95	280.2	0.193	0.246	0.76	0.120	0.486	318	261	13.6	6.9
120	304.1	0.153	0.196	0.70	0.127	0.469	354	289	17.2	7.5
150	313.4	0.124	0.159	0.68	0.135	0.455	389	316	21.5	7.7
185	341.4	0.0991	0.127	0.63	0.144	0.438	429	346	26.5	8.4
240	356.6	0.0754	0.0976	0.60	0.156	0.420	481	386	34.3	8.8
300	389.5	0.0601	0.0778	0.55	0.167	0.406	525	419	42.9	9.6

Note: shield is lead sheath, one way, conduct operating temperature 90℃, soil temperature 25℃, soil thermal resistance1.0K.m/w,laying depth 1.5m,air temperature 45℃。

3 core(copper core) XLPE insulated separately LAP sheathed thick steel armored fiber covering submarine power cable, submarine composite power cable with optical fiber cable

Rated voltage:8.7/10kV,8.7/1.5kV(ZS-YJAF41,ZS-YJAF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	shield
50	8.1	0.387	0.494	2.13	0.213	0.433	184	187	7.2	1.1
70	8.8	0.268	0.342	1.96	0.242	0.406	229	229	10.0	1.2
95	9.4	0.193	0.246	1.84	0.267	0.387	275	272	13.6	1.3
120	9.9	0.153	0.196	1.74	0.289	0.374	315	307	17.2	1.3
150	10.5	0.124	0.159	1.65	0.311	0.362	355	343	21.5	1.4
185	11.1	0.0991	0.127	1.55	0.339	0.349	395	376	26.5	1.5
240	12.0	0.0754	0.0976	1.44	0.374	0.336	459	431	34.3	1.6
300	12.8	0.0601	0.0778	1.35	0.408	0.325	518	482	42.9	1.7
400	14.3	0.0470	0.0614	1.20	0.466	0.318	623	554	57.2	1.9

Rated Voltage:12/20kV(ZS-YJAF41,ZS-YJAF41+OFC)

Nominal section	Shield section	Conductor resistance DC20℃	Conductor resistance AC90℃	Shield resistance DC20℃	Capacitance	Inductance	Load flow		Short circuit current 1s	
							air	soil	conductor	shield

50	8.9	0.387	0.494	1.94	0.185	0.447	187	188	7.2	1.2
70	9.5	0.268	0.342	1.81	0.208	0.419	231	229	10.0	1.3
95	10.1	0.193	0.246	1.70	0.229	0.400	278			