CATALOG
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66-132kV交联聚乙烯绝缘电力电缆
66-132kV cross-linked polyethylene insulated power cable

产品执行标准 Product standard GB/T 11017、IEC60840

使用特性 Properties

● 最高额定温度 Maximum rated temperature

电缆导体长期允许最高工作温度为90℃；
Long-term maximum allowable operating conductor temperature: 90°C
短时过负载最高工作温度为105℃；
Maximum operating temperature under short-time overload: 105°C
短路时（短路时间为5S）最高工作温度为250℃。
Maximum operating temperature under short circuit (short circuit duration 5 s): 250°C

● 安装要求 Installation Requirements

电缆敷设时不受落差限制，敷设时环境温度不低于0℃，如环境温度低于0℃，应对电缆预热。
Cable laying shall not be restricted by drop height; the ambient temperature for laying shall not be lower than 0°C, and if the ambient temperature is lower than 0°C, the cable shall be pre-heated.

● 电缆最小弯曲半径 Minimum bending radius of cable

安装时：$20D_0$；运行时：$15D_0$
During cable laying: $20\ D_0$; and Permanent installation: $15\ D_0$
注：D_0为电缆外径实测值。
Note: D_0 is measured outer diameter of cable.

● 电缆安装时的轴向最大允许牵引力T（不考虑转弯处的径向侧压力）
Maximum allowable axial traction for cable installation, T (radial side pressure at bend not being considered)

导体：t=k×导体截面（kg）
Conductor: T = K X Conductor Section (kg)
式中系数k值为，铜导体k=7kg/mm²，铝导体k=4kg/mm²。
Where, The Coefficient K = 7 Kg/mm² For Copper Conductor And 4 Kg/mm² For Aluminum Conductor.

● 电缆弯曲时的允许最大侧压力P Maximum allowable side pressure when cable is bent, P

P=T/R≤500(kg/m)，式中T为轴向牵引力，R为弯曲半径。
P = T/R ≤ 500 (kg/m), where T is axial traction, and R is bending radius.

电缆额定电压的表示方法 Expression method for rated voltage of cable

电缆的额定电压用$U_0/U(U_m)$表示，均为有效值，单位为kV。如：$U_0/U(U_m)$=64/110(126)。
The rated voltage of cable is expressed with U_0 / U (Um),and it is an effective value with a unit of kV.For example,U_0 / U (Um)=64/110(126).
U_0—电缆设计用的导体与屏蔽或金属套之间的额定工频电压；
U_0-The rated power frequency voltage between the conductor and the shield or the metal armor,used for cable design;
U —电缆设计用的导体之间的额定工频电压；
U -The rated power frequency voltage between the conductors,used for cable design;
U_m—设备最高电压（使用设备的系统最高电压的最大值）。
Um-The maximum voltage of equipment (the maximum value of system voltage of the equipment in use).

型号及名称 Type and name

型 号 Type		名 称 Name
铜 芯 Copper core	铝 芯 Aluminum core	
YJLW02	YJLLW02	交联聚乙烯绝缘皱纹铝套或焊 接皱纹铝套聚氯乙烯外护套电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyvinyl chloride sheathed power cable
YJLW03	YJLLW03	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯外护套电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyethylene sheathed power cable
YJLW02-Z	YJLLW02-Z	交联聚乙烯绝缘皱纹铝套或焊 接皱纹铝套聚氯乙烯外护套纵向阻水电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyvinyl chloride sheathed long itudinal water blocking power cable
YJLW03-Z	YJLLW03-Z	交联聚乙烯绝缘皱纹铝套或焊 接皱纹铝套聚乙烯外护套纵向阻水电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyethylene sheathed longitudinal water blocking power cable
YJA02	YJLA02	交联聚乙烯绝缘铝塑复合层聚氯乙烯外护套电力电缆 Cross-linked polyethylene insulated,aluminum-plastic composite sheath and polyvinyl chloride sheathed power cable
YJA03	YJLA03	交联聚乙烯绝缘铝塑复合层聚乙烯外护套电力电缆 Cross-linked polyethylene insulated,aluminum-plastic composite sheath and polyethylene sheathed power cable

注：●皱纹铝套包括挤包皱纹铝套和焊 接皱纹铝套 按JB/T5268.1二者代号均为LW：焊 接皱纹铝套应在产品名称中明确表示，名称中未注明“焊接”的即为挤包皱纹铝套。

●阻燃型电力电缆在以上型号前加“Z（ZA-、ZB-、ZC-）”；无卤低烟阻燃电力电缆在以上型号前加“WDZ（WDZA-、WDZB-、WDZC-）”；低烟低卤阻燃电缆在以上型号前加“DDZ（DDZA-、DDZB-、DDZC-）”；防蚁型电力电缆在以上型号前加“FY-”。

●在线温度监测智能电缆在以上型号前加 “DFTS-”。

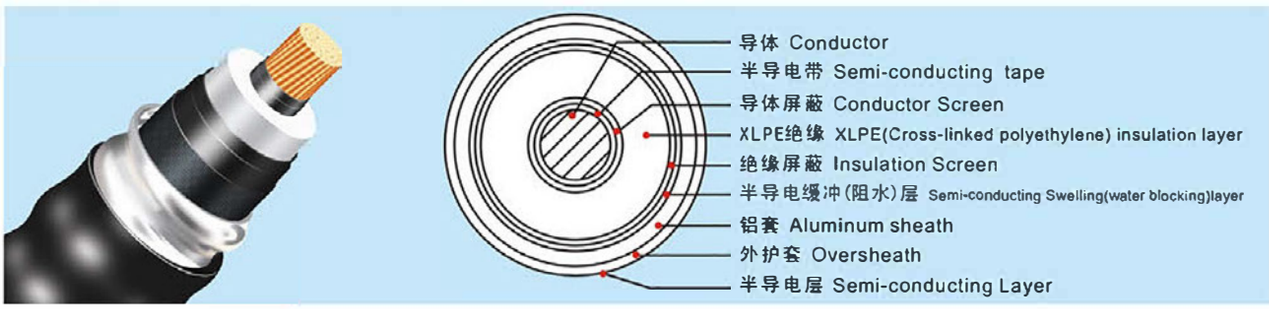
Note: 1. Corrugated aluminum sheath includes two types, extruded corrugated aluminum sheath and welded corrugated aluminum sheath, both of which the code is LW based on JB/T5268.1. Welded corrugated aluminum sheath shall be clearly indicated in product names; and if no "welded" is shown in a product name, the corrugated aluminum sheath is extruded corrugated aluminum sheath.

2. For flame-retardant power cable, "Z(ZA-ZB-, ZC-)"is added before the above type number; for halogen-free low-smoke flame-retardant power cable,"WDZ (WDZA-, WDZB-, WDZC-)" is added before the above type number; for low-smoke low-halogen flame-retardant power cable, "DDZ (DDZA-, DDZB-/DDZC-)" is added before the above type number; and for anti-termite power cable,"FY-"is added before the above type number.

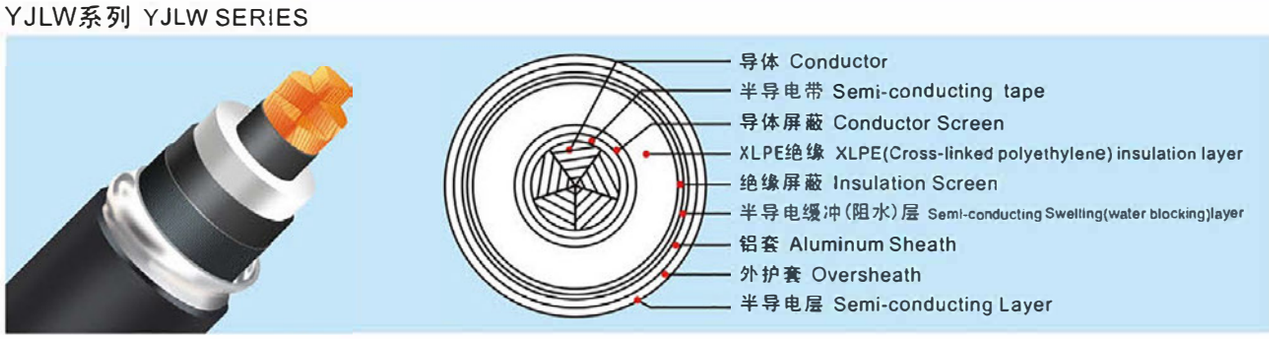
3. For intelligent on-line temperature monitoring cable, "DFTS-" is added before the above type number.

结构示意图 Schematic diagram

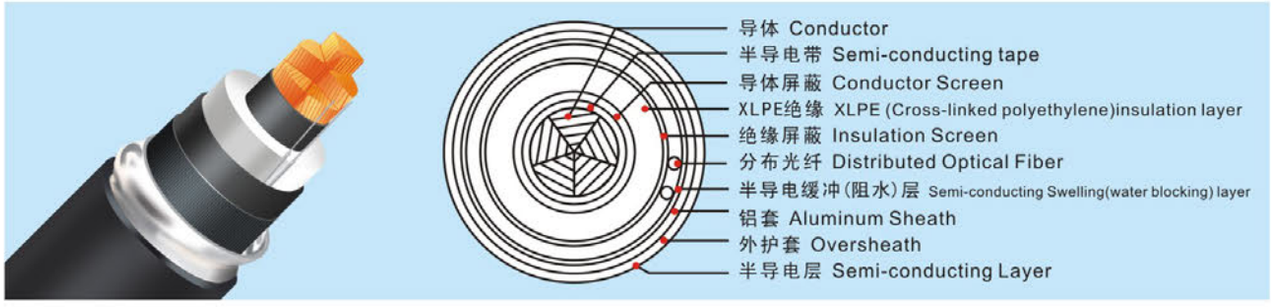
YJLW系列 YJLW SERIES



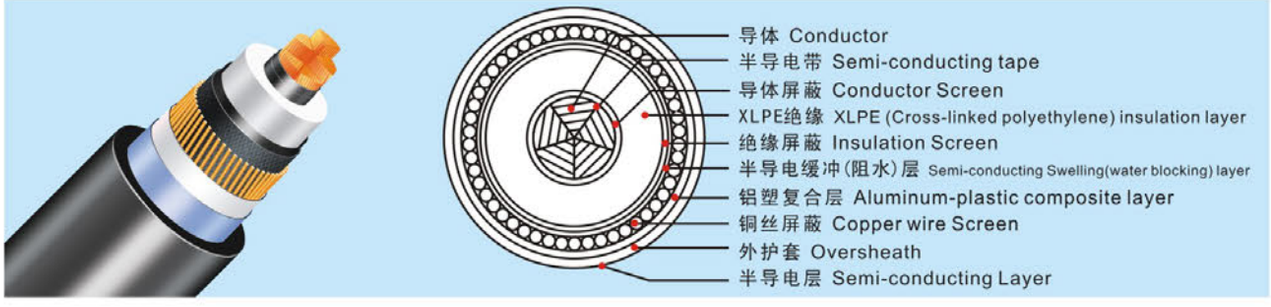
YJLW系列 YJLW SERIES



DFTS-YJLW系列　DFTS-YJLW SERIES



YJA系列　YJA SERIES



电缆运行状态及参数 Cable running state and parameters

- 载流量依据IEC60287标准计算；
  Current carrying capacity is calculated according to standard IEC60287;
- 单回路，平行排列时相间中心距为250mm，三角形排列时，相间中心距为电缆外径，导体工作温度为90℃，
  For single circuit, the inter-phase centre-to-centre distance is 250mm in parallel arrangement and is the outer diameter of cable in trefoil formation, and the operating temperature of conductor is 90°C;
- 金属屏蔽接地方式，单端接地或交叉互联两端接地；
  Metallic screen grounding method: single end grounding or cross-bonded both end grounding;
- 空气中：气温40℃，不受日光直射；
  In air: The air temperature is 40 °C, protected from direct solar radiation;
- 直埋：气温25℃，土壤热阻系数为1.2℃·m/W，埋深1米；
  Directly buried: The air temperature is 25°C, the thermal resistivity of soil is 1.2 °C·m/W, and the buried depth is 1 m;
- 短路电流据IEC949（绝热条件下）计算，短路起始温度：导体90℃，金属护套80℃，短路最终温度为250℃，持续时间为1秒。
  The short circuit current is calculated according to IEC949 (under thermal insulation condition). The short circuit starting temperature: conductor 90°C, metal sheath 80°C; the short circuit ending temperature: 250°C; the short circuit duration: 1 second.

不同空气温度下载流量修正系数 Current carrying capacity correction coefficient under different air temperatures

环境温度 Ambient temperature	5	10	15	20	25	30	35	40	45
修正系数 Correction coefficient	1.30	1.27	1.22	1.18	1.14	1.10	1.05	1.00	0.95

不同土壤温度下载流量修正系数 Current carrying capacity correction coefficient under different soil temperatures

环境温度 Ambient temperature	5	10	15	20	25	30	35	40	45
修正系数 Correction coefficient	1.14	1.11	1.07	1.04	1.00	0.96	0.92	0.88	0.83

不同土壤热阻系数下的载流量修正系数 Current carrying capacity correction coefficient under different thermal resistivities of soil

土壤热阻系数℃·m/W Thermal resistivity of soil, ℃·m/W	0.8	1.0	1.2	1.5	1.8	2.0	2.5	3.0
载流量修正系数 Current carrying capacity correction coefficient	1.07	1.06	1.0	0.92	0.86	0.83	0.75	0.70

48/66kV交联聚乙烯绝缘电力电缆 48 / 66kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数.

Main structural parameters of YJLW series cable

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	PE护套 PE sheath
240	18.5	13.5	2.0	4.0	78	6598	6281	5128	4811
300	20.7	13.5	2.0	4.0	80	7329	7003	5487	5161
400	23.5	13.5	2.0	4.0	83	8317	7979	5961	5623
500	26.5	13.5	2.0	4.0	86	9546	9194	6520	6168
630	29.8	13.5	2.0	4.0	89	11113	10748	7201	6836
800	33.8	13.0	2.0	4.0	93	12912	12534	7902	7524
800F	35.0	13.0	2.0	4.0	96	13614	13180	8604	8170
1000F	39.2	13.0	2.0	4.5	102	15844	15390	9557	9103
1200F	42.0	13.0	2.0	4.5	106	17641	17173	10313	9845
1400F	46.0	13.0	2.0	4.5	109	19771	19287	11190	10706
1600F	48.6	13.0	2.0	4.5	112	21806	21308	12010	11512

YJA系列电缆主要结构参数.

Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合套厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	PE护套 PE sheath
240	18.5	13.5	0.25	4.0	66	6452	6135	4982	4665
300	20.7	13.5	0.25	4.0	69	7156	6830	5314	4988
400	23.5	13.5	0.25	4.0	71	8108	7770	5752	5414
500	26.5	13.5	0.25	4.0	74	9299	8947	6273	5921
630	29.8	13.5	0.25	4.0	79	10824	10459	6912	6547
800	33.8	13.0	0.25	4.0	83	12585	12207	7575	7197
800F	35.0	13.0	0.25	4.0	86	13226	12792	8216	7782
1000F	39.2	13.0	0.25	4.5	91	15403	14949	9116	8662
1200F	42.0	13.0	0.25	4.5	95	17159	16691	9831	9363
1400F	46.0	13.0	0.25	4.5	98	19245	18761	10664	10180
1600F	48.6	13.0	0.25	4.5	101	21240	20742	11444	10946

主要电气参数
Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)		交流电阻 AC resistance Ω/km (90℃)		导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S		金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
	Cu	Al	Cu	Al	Cu	Al	铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
240	0.0754	0.125	0.0970	0.161	34.3	22.7	36.3	18.3	0.157	2.36
300	0.0601	0.100	0.0777	0.129	42.9	28.3	37.6	18.3	0.168	2.53
400	0.0470	0.0778	0.0613	0.101	57.2	37.8	39.3	18.3	0.181	2.73
500	0.0366	0.0605	0.0485	0.0787	71.5	47.2	41.0	18.3	0.195	2.94
630	0.0283	0.0469	0.0384	0.0616	90.1	59.5	42.9	18.3	0.211	3.18
800	0.0221	0.0367	0.0310	0.0489	114.5	75.6	44.7	18.3	0.236	3.56
800F	0.0221	0.0367	0.0288	0.0475	114.5	75.6	47.0	18.3	0.255	3.81
1000F	0.0176	0.0291	0.0232	0.0378	143.1	94.5	49.4	18.3	0.276	4.12
1200F	0.0151	0.0247	0.0201	0.0322	171.7	113.4	51.3	18.3	0.290	4.36
1400F	0.0129	0.0212	0.0174	0.0278	200.3	132.3	53.4	18.3	0.310	4.61
1600F	0.0113	0.0186	0.0155	0.0246	228.9	151.2	55.2	18.3	0.323	4.84

注：铜丝屏蔽截面积按120mm²计算，可按用户要求提供不同截面的铜丝屏蔽
Note: The cross-sectional area of copper wire shield is assumed as 120 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值
Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)				土壤中（单位：A） In Soil (unit: A)			
	平行排列 Parallel arrangement		品字型排列 Trefoil formation		平行排列 Parallel arrangement		品字型排列 Trefoil formation	
标称截面 Nominal cross-sectional area mm²	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core
240	676	526	595	460	547	426	490	381
300	774	601	678	526	617	480	552	428
400	895	700	782	609	702	550	625	488
500	1034	813	898	707	797	628	708	555
630	1192	946	1028	816	901	716	776	628
800	1366	1096	1144	934	995	802	863	715
800F	1418	1138	1187	969	1033	832	896	742
1000F	1617	1278	1320	1090	1161	924	973	800
1200F	1763	1409	1427	1195	1243	1000	1037	861
1400F	1920	1542	1541	1300	1328	1075	1106	920
1600F	2055	1662	1638	1394	1398	1141	1162	970

64/110kV交联聚乙烯绝缘电力电缆 64 / 110kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数
Main structural parameters of YJLW series cable

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 (kg/km) Approximate Weight			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	Pe护套 PE sheath
240	18.5	19.0	2.0	4.0	90	7967	7599	6497	6129
300	20.7	18.5	2.0	4.0	91	8603	8230	6761	6388
400	23.5	17.5	2.0	4.0	92	9363	8986	7007	6630
500	26.5	17.0	2.0	4.0	94	10492	10106	7466	7080
630	29.8	16.5	2.0	4.5	98	12203	11766	8291	7854
800	33.8	16.0	2.0	4.5	102	14034	13583	9024	8573
800F	35.0	16.0	2.0	4.5	106	14542	14073	9532	9063
1000F	39.2	16.0	2.3	4.5	110	17054	16565	10767	10278
1200F	42.0	16.0	2.3	5.0	114	19136	18589	11808	11261
1400F	46.0	16.0	2.3	5.0	118	21356	20787	12775	12206
1600F	48.6	16.0	2.3	5.0	121	23434	22849	13638	13053

YJA系列电缆主要结构参数
Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合套厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 (kg/km) Approximate Weight			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	PE护套 PE sheath
240	18.5	19.0	0.25	4.0	76	7665	7297	6195	5827
300	20.7	18.5	0.25	4.0	77	8285	7912	6443	6070
400	23.5	17.5	0.25	4.0	78	9035	8658	6679	6302
500	26.5	17.0	0.25	4.0	80	10139	9753	7113	6727
630	29.8	16.5	0.25	4.5	83	11804	11367	7892	7455
800	33.8	16.0	0.25	4.5	86	13596	13145	8586	8135
800F	35.0	16.0	0.25	4.5	90	14056	13587	9046	8577
1000F	39.2	16.0	0.25	4.5	94	16268	15779	9981	9492
1200F	42.0	16.0	0.25	5.0	98	18300	17753	10972	10425
1400F	46.0	16.0	0.25	5.0	102	20448	19879	11867	11298
1600F	48.6	16.0	0.25	5.0	105	22478	21893	12682	12097

主要电气参数
Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)		交流电阻 AC resistance Ω/km (90℃)		导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S		金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
	Cu	Al	Cu	Al	Cu	Al	铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
240	0.0754	0.125	0.0970	0.161	34.3	22.7	43.3	18.3	0.126	2.53
300	0.0601	0.100	0.0777	0.129	42.9	28.3	44.1	18.3	0.136	2.74
400	0.0470	0.0778	0.0613	0.101	57.2	37.8	44.5	18.3	0.152	3.05
500	0.0366	0.0605	0.0485	0.0787	71.5	47.2	45.7	18.3	0.166	3.34
630	0.0283	0.0469	0.0384	0.0616	90.1	59.5	47.3	18.3	0.183	3.67
800	0.0221	0.0367	0.0310	0.0489	114.5	75.6	49.1	18.3	0.205	4.11
800F	0.0221	0.0367	0.0288	0.0475	114.5	75.6	51.2	18.3	0.217	4.35
1000F	0.0176	0.0291	0.0232	0.0378	143.1	94.5	61.8	18.3	0.236	4.69
1200F	0.0151	0.0247	0.0201	0.0322	171.7	113.4	63.9	18.3	0.246	4.95
1400F	0.0129	0.0212	0.0174	0.0278	200.3	132.3	66.6	18.3	0.262	5.23
1600F	0.0113	0.0186	0.0155	0.0246	228.9	151.2	68.7	18.3	0.273	5.47

注：铜丝屏蔽截面积按120mm²计算，可按用户要求提供不同截面的铜丝屏蔽
Note: The cross-sectional area of copper wire shield is assumed as 120 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值
Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)				土壤中（单位：A） In Soil (unit: A)			
	平行排列 Parallel arrangement		品字型排列 Trefoil formation		平行排列 Parallel arrangement		品字型排列 Trefoil formation	
标称截面 Nominal cross-sectional area mm²	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core
240	662	511	590	456	515	397	485	370
300	758	584	673	522	580	448	545	416
400	884	682	778	606	661	514	615	474
500	1024	794	894	701	751	586	692	539
630	1181	920	1023	810	846	667	776	610
800	1340	1038	1126	936	929	757	843	692
800F	1391	1077	1169	971	964	786	875	719
1000F	1578	1258	1322	1081	1143	858	968	772
1200F	1714	1382	1427	1182	1219	928	1027	830
1400F	1862	1509	1539	1283	1297	1046	1085	886
1600F	1984	1623	1633	1374	1363	1108	1133	934

76/132kV交联聚乙烯绝缘电力电缆 76/132kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数.

Main structural parameters of YJLW series cables

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 (kg/km) Approximate Weight			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	PE护套 PE sheath
240	18.5	19.5	2.0	4.0	91	8097	7725	6627	6255
300	20.7	19.0	2.0	4.0	92	8735	8357	6893	6515
400	23.5	19.0	2.0	4.0	96	9767	9377	7411	7021
500	26.5	19.0	2.0	4.0	99	11043	10641	8017	7615
630	29.8	19.0	2.0	4.5	103	12924	12464	9012	8552
800	33.8	18.0	2.0	4.5	106	14625	14156	9615	9146
800F	35.0	18.0	2.0	4.5	109	15154	14666	10144	9656
1000F	39.2	18.0	2.3	4.5	114	17701	17194	11414	10907
1200F	42.0	18.0	2.3	5.0	118	19809	19243	12481	11915
1400F	46.0	18.0	2.3	5.0	122	22048	21459	13467	12878
1600F	48.6	18.0	2.3	5.0	125	24144	23539	14348	13743

YJA系列电缆主要结构参数

Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合套厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 (kg/km) Approximate Weight			
						铜 Copper(Cu)		铝 Aluminum(Al)	
						PVC护套 PVC sheath	PE护套 PE sheath	PVC护套 PVC sheath	PE护套 PE sheath
240	18.5	19.5	0.25	4.0	77	7782	7410	6312	5940
300	20.7	19.0	0.25	4.0	79	8404	8026	6562	6184
400	23.5	19.0	0.25	4.0	81	9401	9011	7045	6655
500	26.5	19.0	0.25	4.0	84	10639	10237	7613	7211
630	29.8	19.0	0.25	4.5	89	12461	12001	8549	8089
800	33.8	18.0	0.25	4.5	91	14136	13667	9126	8657
800F	35.0	18.0	0.25	4.5	94	14617	14129	9607	9119
1000F	39.2	18.0	0.25	4.5	99	16854	16347	10567	10060
1200F	42.0	18.0	0.25	5.0	103	18912	18346	11584	11018
1400F	46.0	18.0	0.25	5.0	106	21079	20490	12498	11909
1600F	48.6	18.0	0.25	5.0	109	23127	22522	13331	12726

主要电气参数
Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)		交流电阻 AC resistance Ω/km (90℃)		导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S		金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
	Cu	Al	Cu	Al	Cu	Al	铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
240	0.0754	0.125	0.0970	0.161	34.3	22.7	43.9	18.3	0.124	2.96
300	0.0601	0.100	0.0777	0.129	42.9	28.3	44.6	18.3	0.134	3.20
400	0.0470	0.0778	0.0613	0.101	57.2	37.8	46.3	18.3	0.144	3.43
500	0.0366	0.0605	0.0485	0.0787	71.5	47.2	48.0	18.3	0.154	3.68
630	0.0283	0.0469	0.0384	0.0616	90.1	59.5	50.3	18.3	0.166	3.96
800	0.0221	0.0367	0.0310	0.0489	114.5	75.6	51.4	18.3	0.187	4.45
800F	0.0221	0.0367	0.0288	0.0475	114.5	75.6	53.6	18.3	0.199	4.74
1000F	0.0176	0.0291	0.0232	0.0378	143.1	94.5	64.4	18.3	0.214	5.10
1200F	0.0151	0.0247	0.0201	0.0322	171.7	113.4	66.6	18.3	0.225	5.38
1400F	0.0129	0.0212	0.0174	0.0278	200.3	132.3	69.3	18.3	0.239	5.67
1600F	0.0113	0.0186	0.0155	0.0246	228.9	151.2	71.4	18.3	0.249	5.94

注：铜丝屏蔽截面积按120mm²计算，可按用户要求提供不同截面的铜丝屏蔽
Note: The cross-sectional area of copper wire shield is assumed as 120 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值
Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)				土壤中（单位：A） In Soil (unit: A)			
	平行排列 Parallel arrangement		品字型排列 Trefoil formation		平行排列 Parallel arrangement		品字型排列 Trefoil formation	
标称截面 Nominal cross-sectional area mm²	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core	铜芯 Copper core	铝芯 Aluminum core
240	656	517	581	461	536	416	485	381
300	751	591	661	528	604	469	545	428
400	868	686	761	610	686	538	615	487
500	1001	797	871	706	777	613	691	554
630	1149	922	991	810	875	696	774	627
800	1316	1114	1145	935	964	757	853	693
800F	1366	1156	1188	970	1000	786	885	720
1000F	1560	1248	1310	1079	1123	895	964	793
1200F	1693	1371	1409	1176	1198	966	1024	853
1400F	1835	1493	1513	1273	1272	1034	1083	912
1600F	1961	1608	1602	1361	1337	1092	1131	961

220-500kV交联聚乙烯绝缘电力电缆
220-500kV cross-linked polyethylene insulated power cable

产品执行标准 Product standard　GB/Z 18890、GB/T 22078、IEC62067

使用特性 Properties

● 最高额定温度 Maximum rated temperature

电缆导体长期允许最高工作温度为90℃；
Long-term maximum allowable operating conductor temperature:90℃
短时过负载最高工作温度为105℃；
Maximum operating temperature under short-time overload:105℃;
短路时（短路时间为5S）最高工作温度为250℃。
Maximum operating temperature under short circuit(short circuit duration 5s): 250℃.

● 安装要求 Installation Requirements

电缆敷设时不受落差限制，敷设时环境温度不低于0℃，如环境温度低于0℃，应对电缆预热。
Cable laying shall not be restricted by drop height;the ambient temperature for laying shall not be lower than 0℃,and if the ambient temperature is lower than 0℃,the cable shall be pre-heated.

● 电缆最小弯曲半径 Minimum bending radius of cable

安装时：$20D_0$ ；运行时：$15D_0$
During cable laying:20 D_0;and Permanent installation:15 D_0
注：D_0为电缆外径实测值。
Note:D_0 is measured outer diameter of cables.

● 电缆安装时的轴向最大允许牵引力T（不考虑转弯处的径向侧压力）
Maximum allowable axial traction for cable installation,T(radial side pressure at bend not being considered)

导体：T=K×导体截面（kg）
Conductor: T = K x Conductor section (kg)
式中系数K值为，铜导体K=7kg/mm^2，铝导体K=4kg/mm^2。
Where,the coefficient K = 7kg/mm^2 for copper conductor and 4kg/mm^2 for aluminum conductor.

● 电缆弯曲时的允许最大侧压力P　Maximum allowable side pressure when cable is bent,P

P=T/R≤500(kg/m)，式中T为轴向牵引力，R为弯曲半径。
P = T / R ≤ 500 (kg / m), where T is axial traction,and R is bending radius.

电缆额定电压的表示方法 Expression method for rated voltage of cable

电缆的额定电压用$U_0/U(U_m)$表示，均为有效值，单位为kV。如：$U_0/U(U_m)$=127/220(252)。
The rated voltage of cable is expressed with U_0 / U (U_m),and it is an effective value wirh a unit of kV.For example,U_0 / U (U_m) = 127/220 (252).
U_0—电缆设计用的导体与屏蔽或金属套之间的额定工频电压；
U_0-The rated power frequency voltage between the conductor and the shield or the metal armor,used for cable design;
U—电缆设计用的导体之间的额定工频电压；
U-The rated power frequency voltage between the conductors,used for cable design;
U_m—设备最高电压（使用设备的系统最高电压的最大值）。
U_m-The maximum voltage of equipment (the maximum value of system voltage of the equipment in use).

型号及名称 Type and name

型　号 Type 铜 芯 Copper core	名　称 Name
YJLW02	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚氯乙烯外护套电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyvinyl chloride sheathed power cable
YJLW03	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯外护套电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyethylene sheathed power cable
YJLW02-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚氯乙烯外护套纵向阻水电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyvinyl chloride sheathed longitudinal water blocking power cable
YJLW03-Z	交联聚乙烯绝缘皱纹铝套或焊接皱纹铝套聚乙烯外护套纵向阻水电力电缆 Cross-linked polyethylene insulated,corrugated aluminum or welded corrugated aluminum sheath and polyethylene sheathed longitudinal water blocking power cable
YJA02	交联聚乙烯绝缘铝塑复合层聚氯乙烯外护套电力电缆 Cross-linked polyethylene insulated,aluminum-plastic composite sheath and polyvinyl chloride sheathed power cable
YJA03	交联聚乙烯绝缘铝塑复合层聚乙烯外护套电力电缆 Cross-linked polyethylene insulated,aluminum-plastic composite sheath and polyethylene sheathed power cable

注：●皱纹铝套包括挤包皱纹铝套和焊接皱纹铝套，按JB/T5268.1二者代号均为LW；焊接皱纹铝套应在产品名称中明确表示，名称中未注明“焊接”的即为挤包皱纹铝套。

●阻燃型电力电缆在以上型号前加“Z(ZA-、ZB-、ZC-)”;无卤低烟阻燃电力电缆在以上型号前加“WDZ(WDZA-、WDZB-、WDZC-)”;低烟低卤阻燃电缆在以上型号前加“DDZ(DDZA-、DDZB-、DDZC-)”；防蚁型电力电缆在以上型号前加“FY-”。

●在线温度监测智能电缆在以上型号前加 “DFTS-”。

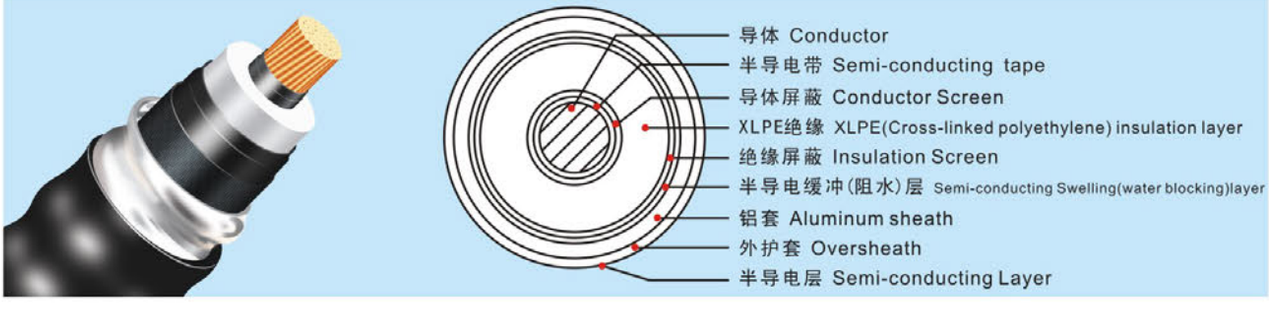
Note: 1. Corrugated aluminum sheath includes two types, extruded corrugated aluminum sheath and welded corrugated aluminum sheath, both of which the code is LW based on JB/T5268.1. Welded corrugated aluminum sheath shall be clearly indicated in product names; and if no "welded" is shown in a product name, the corrugated aluminum sheath is extruded corrugated aluminum sheath.

2. For flame-retardant power cable, "Z(ZA- ZB-, ZC-)" is added before the above type number; for halogen-free low-smoke flame-retardant power cable, "WDZ (WDZA-, WDZB-, WDZC-)" is added before the above type number; for low-smoke low-halogen flame-retardant power cable,"DDZ (DDZA-, DDZB-/DDZC-)" is added before the above type number; and for anti-termite power cable, "FY-" is added before the above type number.

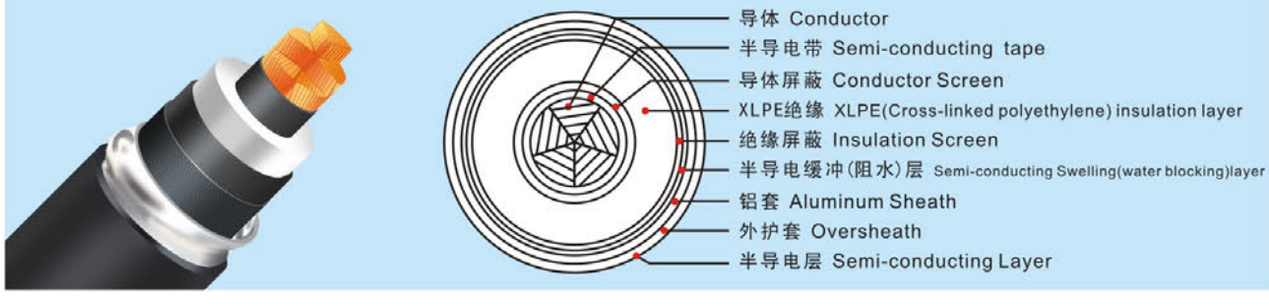
3. For intelligent on-line temperature monitoring cable, "DFTS-" is added before the above type number.

结构示意图 Schematic diagram

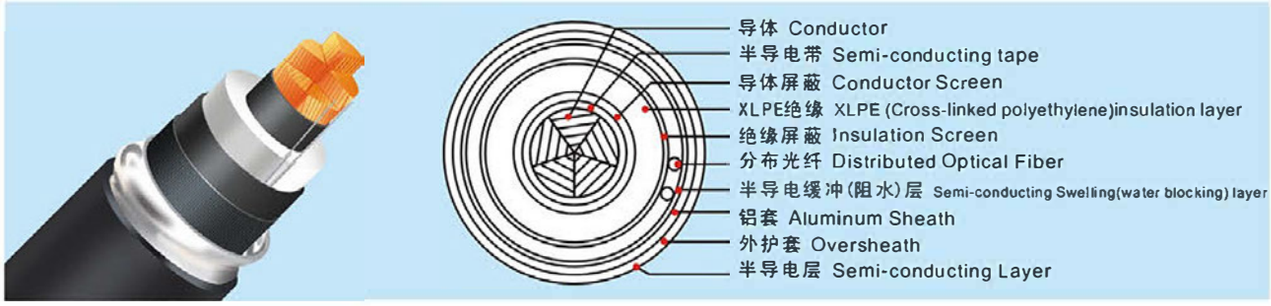
YJLW系列 YJLW SERIES



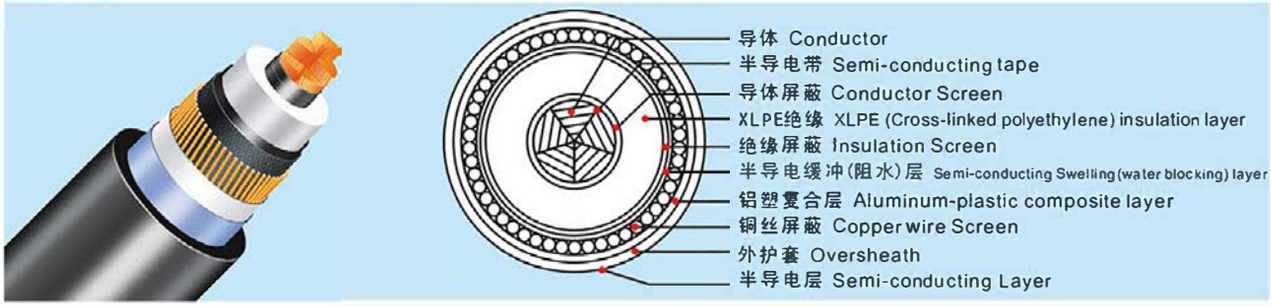
YJLW系列 YJLW SERIES



DFTS-YJLW系列　DFTS-YJLW SERIES



YJA系列　YJA SERIES



电缆运行状态及参数 Cable running state and parameters

- 载流量依据IEC60287标准计算；
  Current carrying capacity is calculated according to standard IEC60287;
- 单回路，平行排列时相间中心距为250mm，三角形排列时，相间中心距为电缆外径，导体工作温度为90℃，
  For single ciruit, the inter-phase centre-to-centre distance is 250mm in parallel arrangement and is the outer diameter of cable in trefoil formaion,and the operating temperature of conductor is 90°C;
- 金属屏蔽接地方式，单端接地或交叉互联两端接地；
  Metallic screen grounding method: single end grounding or cross-bonded both end grounding;
- 空气中：气温40℃，不受日光直射；
  In air: The air temperature is 40 °C, protected from direct solar radiation;
- 直埋：气温25℃，土壤热阻系数为1.2℃·m/W，埋深1米；
  Directly buried: The air temperature is 25°C, the thermal resistivity of soil is 1.2 °C·m/W, and the buried depth is 1 m;
- 短路电流据IEC949（绝热条件下）计算，短路起始温度：导体90℃，金属护套80℃，短路最终温度为250℃，持续时间为1秒。
  The short circuit current is calculated according to IEC949 (under thermal insulation condition). The short circuit starting temperature: conductor 90°C, metal sheath 80°C; the short circuit ending temperature: 250°C; the short circuit duration: 1 second.

不同空气温度下载流量修正系数 Current carrying capacity correction coefficient under different air temperatures

环境温度 Ambient temperature	5	10	15	20	25	30	35	40	45
修正系数 Correction coefficient	1.30	1.27	1.22	1.18	1.14	1.10	1.05	1.00	0.95

不同土壤温度下载流量修正系数 Current carrying capacity correction coefficient under different soil temperatures

环境温度 Ambient temperature	5	10	15	20	25	30	35	40	45
修正系数 Correction coefficient	1.14	1.11	1.07	1.04	1.00	0.96	0.92	0.88	0.83

不同土壤热阻系数下的载流量修正系数 Current carrying capacity correction coefficient under different thermal resistivities of soil

土壤热阻系数℃·m/W Thermal resistivity of soil, ℃·m/W	0.8	1.0	1.2	1.5	1.8	2.0	2.5	3.0
载流量修正系数 Current carrying capacity correction coefficient	1.07	1.06	1.0	0.92	0.86	0.83	0.75	0.70

127/220kV交联聚乙烯绝缘电力电缆 127 / 220kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数
Main structural parameters of YJLW series cable

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
						PVC护套 PVC sheath	PE护套 PE sheath
400	23.5	27.0	2.4	5.0	116	13141	12504
500	26.5	27.0	2.4	5.0	119	14515	13860
630	29.8	26.0	2.4	5.0	121	15887	15225
800	33.8	25.0	2.4	5.0	124	17683	17004
800F	35.0	25.0	2.4	5.0	127	18285	17586
1000F	39.2	24.0	2.6	5.0	130	20519	19805
1200F	42.0	24.0	2.6	5.0	134	22490	21752
1400F	46.0	24.0	2.6	5.0	137	24759	24001
1600F	48.6	24.0	2.6	5.0	140	26920	26144
1800F	52.0	24.0	2.8	5.0	144	29208	28413
2000F	55.2	24.0	2.8	5.0	148	31602	30783
2200F	57.4	24.0	2.8	5.0	150	33387	32555
2500F	61.5	24.0	2.8	5.0	154	36530	35676

YJA系列电缆主要结构参数
Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm²	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
						PVC护套 PVC sheath	PE护套 PE sheath
400	23.5	27.0	0.30	5.0	100	12690	12027
500	26.5	27.0	0.30	5.0	103	14018	13338
630	29.8	26.0	0.30	5.0	104	15371	14684
800	33.8	25.0	0.30	5.0	106	17116	16411
800F	35.0	25.0	0.30	5.0	110	17666	16941
1000F	39.2	24.0	0.30	5.0	112	19669	18929
1200F	42.0	24.0	0.30	5.0	115	21537	20779
1400F	46.0	24.0	0.30	5.0	119	23750	22971
1600F	48.6	24.0	0.30	5.0	122	25883	25080
1800F	52.0	24.0	0.30	5.0	125	27902	27079
2000F	55.2	24.0	0.30	5.0	128	30188	29348
2200F	57.4	24.0	0.30	5.0	130	31939	31085
2500F	61.5	24.0	0.30	5.0	134	35012	34135

主要电气参数
Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)	交流电阻 AC resistance Ω/km (90℃)	导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S	金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
				铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
400	0.0470	0.0613	57.2	67.7	22.5	0.116	4.61
500	0.0366	0.0485	71.5	69.8	22.5	0.123	4.91
630	0.0283	0.0384	90.1	70.7	22.5	0.135	5.37
800	0.0221	0.0310	114.5	72.4	22.5	0.149	5.94
800F	0.0221	0.0288	114.5	74.8	22.5	0.162	6.30
1000F	0.0176	0.0232	143.1	82.9	22.5	0.174	6.94
1200F	0.0151	0.0201	171.7	85.7	22.5	0.182	7.29
1400F	0.0129	0.0174	200.3	88.4	22.5	0.193	7.67
1600F	0.0113	0.0155	228.9	90.7	22.5	0.200	8.00
1800F	0.0101	0.0141	257.6	100.2	22.5	0.210	8.31
2000F	0.0090	0.0129	286.2	103.2	22.5	0.219	8.65
2200F	0.0083	0.0121	314.8	105.0	22.5	0.225	8.88
2500F	0.0073	0.0110	357.7	108.1	22.5	0.236	9.29

注：铜丝屏蔽截面积按150mm²计算，可按用户要求提供不同截面的铜丝屏蔽
Note: The cross-sectional area of copper wire shield is assumed as 150 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值
Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)		土壤中（单位：A） In Soil (unit: A)	
标称截面 Nominal cross-sectional area mm²	平行排列 Parallel arrangement	品字型排列 Trefoil formation	平行排列 Parallel arrangement	品字型排列 Trefoil formation
400	853	764	704	616
500	983	875	797	691
630	1133	1003	900	774
800	1291	1119	1026	852
800F	1340	1161	1065	884
1000F	1536	1297	1147	962
1200F	1669	1405	1220	1019
1400F	1811	1517	1295	1076
1600F	1929	1609	1356	1120
1800F	2031	1690	1402	1154
2000F	2136	1779	1445	1192
2200F	2208	1838	1474	1217
2500F	2323	1933	1516	1254

290/500kV交联聚乙烯绝缘电力电缆 290/500kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数.
Main structural parameters of YJLW series cable

标称截面 Nominal cross-sectional area mm^2	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
						PVC护套 PVC sheath	PE护套 PE sheath
800	33.8	34.0	2.9	6.0	150	20393	19688
800F	35.0	34.0	2.9	6.0	152	20772	20047
1000F	39.2	33.0	3.0	6.0	154	23057	22317
1200F	42.0	33.0	3.0	6.0	158	25068	24310
1400F	46.0	32.0	3.0	6.0	160	27419	26640
1600F	48.6	32.0	3.1	6.0	163	29679	28876
1800F	52.0	31.0	3.2	6.0	165	32036	31213
2000F	55.2	31.0	3.2	6.0	169	34476	33636
2200F	57.4	31.0	3.2	6.0	171	36318	35464
2500F	61.5	31.0	3.3	6.0	175	39548	38671

YJA系列电缆主要结构参数
Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm^2	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合套厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
						PVC护套 PVC sheath	PE护套 PE sheath
800	33.8	34.0	0.35	6.0	131	20215	19510
800F	35.0	34.0	0.35	6.0	133	20547	19822
1000F	39.2	33.0	0.35	6.0	135	22602	21862
1200F	42.0	33.0	0.35	6.0	138	24527	23769
1400F	46.0	32.0	0.35	6.0	140	26822	26043
1600F	48.6	32.0	0.35	6.0	143	29031	28228
1800F	52.0	31.0	0.35	6.0	144	31119	30296
2000F	55.2	31.0	0.35	6.0	147	33480	32640
2200F	57.4	31.0	0.35	6.0	150	35283	34429
2500F	61.5	31.0	0.35	6.0	154	38445	37568

主要电气参数 .

Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)	交流电阻 AC resistance Ω/km (90℃)	导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S	金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
				铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
800	0.0221	0.0310	114.5	87.5	27.5	0.127	11.58
800F	0.0221	0.0288	114.5	90.4	27.5	0.132	12.01
1000F	0.0176	0.0232	143.1	95.6	27.5	0.143	13.04
1200F	0.0151	0.0201	171.7	98.9	27.5	0.149	13.56
1400F	0.0129	0.0174	200.3	102.0	27.5	0.161	14.62
1600F	0.0113	0.0155	228.9	108.2	27.5	0.166	15.11
1800F	0.0101	0.0141	257.6	114.6	27.5	0.177	16.12
2000F	0.0090	0.0129	286.2	117.9	27.5	0.184	16.75
2200F	0.0083	0.0121	314.8	120.0	27.5	0.189	17.18
2500F	0.0073	0.0110	357.7	127.4	27.5	0.197	17.97

注：铜丝屏蔽截面积按185mm²计算，可按用户要求提供不同截面的铜丝屏蔽

Note: The cross-sectional area of copper wire shield is assumed as 185 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值 .

Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)		土壤中（单位：A） In Soil (unit: A)	
标称截面 Nominal cross-sectional area mm²	平行排列 Parallel arrangement	品字型排列 Trefoil formation	平行排列 Parallel arrangement	品字型排列 Trefoil formation
800	1194	1126	877	766
800F	1199	1135	876	771
1000F	1360	1272	963	833
1200F	1468	1367	1018	879
1400F	1596	1479	1077	926
1600F	1696	1564	1122	960
1800F	1795	1653	1160	994
2000F	1882	1732	1191	1025
2200F	1944	1787	1212	1044
2500F	2043	1873	1241	1071

290/500kV交联聚乙烯绝缘电力电缆 290/500kV cross-linked polyethylene insulated power cable

YJLW系列电缆主要结构参数.
Main structural parameters of YJLW series cable

标称截面 Nominal cross-sectional area mm^2	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝套厚度 Thickness of aluminum sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
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800	33.8	34.0	2.9	6.0	150	20393	19688
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2200F	57.4	31.0	3.2	6.0	171	36318	35464
2500F	61.5	31.0	3.3	6.0	175	39548	38671

YJA系列电缆主要结构参数
Main structural parameters of YJA series cables

标称截面 Nominal cross-sectional area mm^2	导体直径 Diameter of conductor mm	绝缘标称厚度 Nominal thickness of insulation mm	铝塑复合套厚度 Thickness of aluminum-plastic composite sheath mm	外护套厚度 Thickness of oversheath mm	近似外径 Approximation outer diameter mm	近似重量 Approximate Weight (kg/km)	
						PVC护套 PVC sheath	PE护套 PE sheath
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2000F	55.2	31.0	0.35	6.0	147	33480	32640
2200F	57.4	31.0	0.35	6.0	150	35283	34429
2500F	61.5	31.0	0.35	6.0	154	38445	37568

主要电气参数 .

Main electrical parameters

标称截面 Nominal cross-sectional area mm²	直流电阻 DC Resistance Ω/km (20℃)	交流电阻 AC resistance Ω/km (90℃)	导体最大允许短路电流 Maximum allowable short circuit current of conductor kA/1S	金属屏蔽最大允许短路电流 Maximum allowable short circuit current of metal shield kA/1S		电容 Capacitance μF/km	充电电流 Chargeing current A/km
				铝护套 Aluminium sheath	铜丝屏蔽 Copper wire shield		
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1600F	0.0113	0.0155	228.9	108.2	27.5	0.166	15.11
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2000F	0.0090	0.0129	286.2	117.9	27.5	0.184	16.75
2200F	0.0083	0.0121	314.8	120.0	27.5	0.189	17.18
2500F	0.0073	0.0110	357.7	127.4	27.5	0.197	17.97

注：铜丝屏蔽截面积按185mm²计算，可按用户要求提供不同截面的铜丝屏蔽

Note: The cross-sectional area of copper wire shield is assumed as 185 mm², and different cross-sectional areas of copper wire shield can be provided according to customer requirements

连续载流量参考值 .

Reference value of continuous current carrying capacity

敷设方式 Laying method	空气中（单位：A） In Air (unit: A)		土壤中（单位：A） In Soil (unit: A)	
标称截面 Nominal cross-sectional area mm²	平行排列 Parallel arrangement	品字型排列 Trefoil formation	平行排列 Parallel arrangement	品字型排列 Trefoil formation
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