分支电缆 Power CABLES

※分支电缆的产品概述 Desc ription of b ranch cable p roducts

近年来,随着我国国民经济和基本建设的发展,中高 层、高层和超高层建筑越来越多。由于现代建筑物中因 配电的复杂性和容量的增加,对于配电主干线的可靠性 及经济性的要求则越来越高,本公司为了满足这种市场 需求,参考了国内外有关资料,在有关专家的指导下,研 制开发了带分支电缆(预制分支电缆),产品经国家电线 电缆权威部门 国家电线电缆质量监督检验中心和国家 防火建筑材料质量监督检验中心检测,各项技术性能均 达Q/ZRX003 企业标准要求,主要性能超过JCS376《带分 支电缆》日本标准要求,本产品通过了省级技术鉴定,并 获得多项国家专利主要适用于中、高层建筑及工矿、企 事业

单位中输送额定电压在 1000V 及以下的供配电设备。它 具有供电安全可靠,绝缘性能好,施工安装方便,配电 成本低,适用范围广,品种规格多,安装环境要求低等 优点。在国外先进国家已大量采用带分支电缆代替母线 槽输送电方式,它与母线槽对比更具有抗震、防水和耐 火作用,避免了母线槽安装、维护等烦琐现象。 In the recent yearswith the development ofour national economy and basic establishmentmore middle buildings high buildings and super buldings have been built up Owing to the increase of the complexity and capacity of distribution among modrn buildings stability and economic requirements to mainline of distribution are getting higher and higherIn order to satisfy the market requirement. we consulted international andnational relevant informationand under the direction of relative expert we researched and developed branch cable(pre made branch cable)Theproduct was tested by the authorization dept of national wire&cable-National quality supervising&testing center for cable and wire and antiflameconstruction materialA11 the technical functions are uD to the enterprise standard requirements of Q ZRX003The main function exceed JCS376Japan Standard Requirement of With Branch Cable it also passed provincial technology approval and gained national patentlt is mainly suitablefor power supply units and controller switching equipment nans mitting electricity with 1000V rated voltage and below in middle and high buil

ding industrial and mining unitenterprise unit and institution The product has the advantages of safe and reliable power supply, excellent insulating

performanceconvenient construction and install ation low cost of distributionwide application scope wide arrange of varieties and specifications and low requirements of installation environment. In foreign advanced countriescable with branch has been widely applied to replace the transmission method ofbus slotsCompared with bus slotstthe product has the additional functions of anti vibration£¬water proofing£¬and flame resistancew-hjch avoid troubles of installation and maintenance ofbuS S10ts

※ 型号示范Model demonstration





※产品的优越性 Advantages Of P roducts

(1)电气性能好,供电安全可靠

分支电缆的连接件采用"0"型银合金管,经机械模压成 型后,使干线电缆和分支线电缆的接触电阻很小,保证了分 支连接件不受热胀冷缩影响,而随连接件的膨胀,分支线与 干线电缆之间的紧抱力增加,接触电阻更小。由于电缆主干 线无中间接头,直流电阻减少,且带分支电缆相对普通电 缆、母线槽来说,其电气性能、干线连续性、接头可靠性及 稳定性都明显的要好,干线系统无一故障存在,大大提高了 供电可靠性。

(2)施工周期短、安装方便

由于原来在工地现场需要完成的电缆分支工作都已预先在 工厂中完成。因而减轻了施工现场的劳动强度,节省了工作 时间,保证了分支连接的质量。安装方法简单方便,对安装 人员的安装技术水平要求不高,安装周期短,仅为母线槽安 装时间的10%左右。

(3) 具有良好的抗震性、防水性

分支连接体处模塑部份采用机械注塑成型工艺,并采用 特殊配方的 PVC 聚合物的粘接性与电缆护套紧密粘接,保证 了连接体具有良好的气密性和防水性、由于带分支电缆为一 整根中间无接头,所以它的抗拉性、可挠性远比母线槽要 好,对高层建筑,由于地震引起的机械应力基本没有影响。

(4)安装环境要求低、利用率高

占用建筑面积小,有利于建筑面积的合理使用,对土建预 留孔尺寸无特殊要求,安装场地环境要求低。

(5)可明显降低配电成本

与母线槽相比较,可降低电气工程造价的30%左右,并 且技术指标更高,工厂化制作,杜绝了手工生产的弊端,从 根本上解决了普通电缆、母线槽本身所无法解决的问题,保 证了供电线路的安全性、可靠性和经济性。

(6)免维护

带分支电缆按规范要求安装后,一次性开通率100%正常 运行的分支电缆不需要任何的维护。

Fine electric performance£¬safety and reliable power supply

The connector of cable with branch adopts model O silver alloy pipe.which will make the contact resistance between main cable and branch cable liRle and assurebranchcontaetor irrespective as to its heat expansion or cold shrink.Along with the expansion of connector the pressbetween branchline and main cable will beaddedwhile the contact resistance in between masters trock and compared with common cable and bus slots, there ale obvious adantages on cable with branch as to its electric performance continuity of main cable reliability and stability of the in, which enhance the reliability of powersupply with no fault existed in main cable system.

Short construction period and convenient installation

For the work of cable embranch which should have been finished in building scene have been finished in factory in advance, which lightened work intensity in building site.savedjob time and assured the quality ofbranch connecting. It's easy to install.so there is no special requirements to erectors. What, s more, the installation period is short.only equal to installation man-hour ofbus slots by 10%

Fine vibration resistance and waterproofperformance

The moulding prat in branch connector adopts mechanical moulding form process and close bond between polymer PVC withspecialformulationand cablejacketbythe viscidity of PVC.which ensure connector.sfineperformance of gastightness and waterproof. As cable with branch is a whole without contactor.its tensile and plibility excels slots.and almost no influence to mechanical stress caused by earthquake to highbuildings.

Low requirements to installation environment and high availability

Small land area occupied is good for the reasonable use ofbuilding area. There is no special size requirements to the obligate hole ofconstruction. And there are low requirements to circumstanceofInstallation site.

Power distribution cost can be lowed obviously

Compared withbus slots. the electric project cost can be reduced by about 30. with high ertechnical indes. Besides. union manufacture put an end to the abuse of handy manufacture. which settled the problem existed in common cable and bus slots radically and a SSU red the safety. reliability and economy of power supply line.

Maintenance waiver

When the cable with branch is installed as prescriptive way.its one time success rate is 100% Cable with branch undcer moral running usually need not amy maintenance.

※分支电缆产品选型 Model selection of branch cable

(1)工作环境平均温度大于35℃或较大负荷可选用YJV-交联聚乙烯绝缘聚氯乙烯护套带分支电缆。

(2)一般的工作场所可选用VV-聚氯乙烯绝缘聚氯乙烯护套带分支电缆。

(3)配电线路设计中要求阻燃的可选用ZR-阻燃性能的带分支电缆。

(4)消防配电应急照明等线路呆选用NH耐火特性的带分支电缆。

(5)重要建筑及人员密集场所应选用DDZ(低烟低卤)或WDZ、WDZN(低烟无卤)型带分支电缆(即清洁型带分支电缆) (6)选用的主干电缆和分支电缆应满足电压降的要求,载流量积应预留30%左右的容量。

- (1) Average temperature of operating environment more than 35°C or fairly large load, choose YJV type branch calbe with XLPE insulator and PVC sheath.
- (2) Ordinary working situation, choose the "VV" type branch cable with poly thene insulator and PVC sheath.
- (3) Distribution circuit with fire-resistant design requirements can choose ZR-the fire resistant branch cable.
- (4) Circuits for fire equipment, emergency illumination etc. should choose NH flame resistant branch cable.
- (5) Important construction site and densely inhabited district should choose DL or WL branch cable. (cleaning type branch cable).
- (6) Gross section of the main cable and the branch chosen should meet the requirements of voltage drop and should be remained 30% capacity in advance.

※ 电缆规格 Specification of branch cable

种类Variety	主电缆Main cable(mm ²)	分支电缆Branch cable(mm ²)	芯数No.of cores
单芯型Single-core type	10~1600	6~120	1芯 core
多芯型Multi-core type	4 ~ 240	2.5 ~ 50	2~5芯 core
绞合型Twist type	10 ~ 300	6 ~ 95	2~5芯 core

※可选用电缆 品种 Model demonstration of branch cable

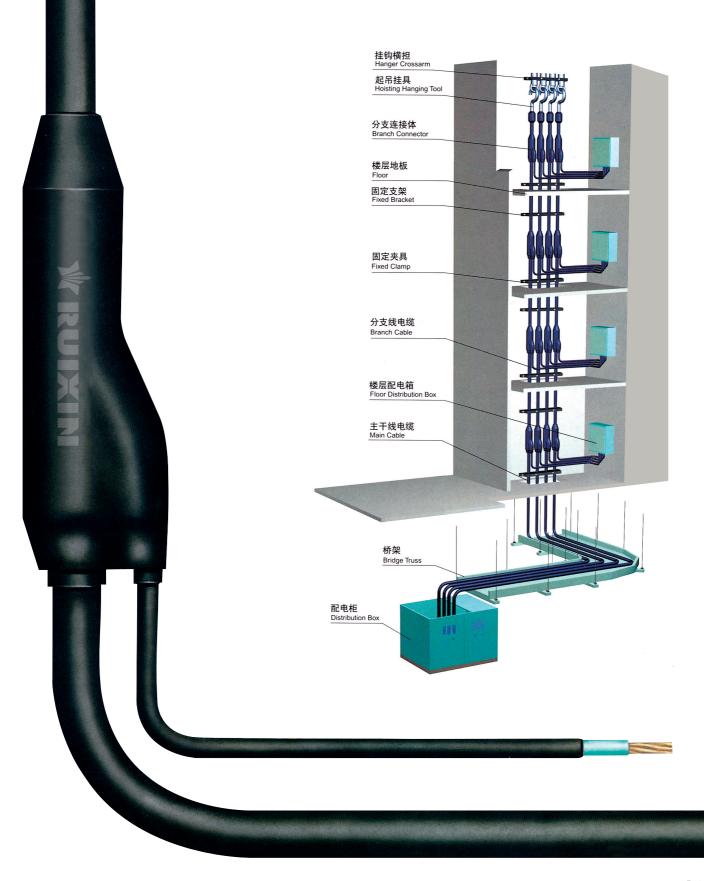
YJV: 交联聚乙烯绝缘聚氯乙烯护套电力电缆。 ZR-YJV: 交联聚乙烯绝缘聚氯乙烯护套阻燃电力电缆。 NH-YJV: 交联聚乙烯绝缘聚氯乙烯护套耐火电力电缆。 DDZ-YJV: 交联聚乙烯绝缘低烟低卤阻燃电力电缆(清洁型电力电缆)。 WDZ-YJE: 交联聚乙烯绝缘低烟无卤阻燃电力电缆(清洁型耐火电力电缆) WDZN-YJE: 交联聚乙烯绝缘聚烯烃护套耐火电力电缆(清洁型耐火电力电缆)。 VV: 聚乙烯绝缘聚氯乙烯护套电力电缆。 ZR-VV: 聚氯乙烯绝缘聚氯乙烯护套阻燃电力电缆。 NH-VV: 聚氯聚乙烯绝缘聚氯乙烯护套耐火电力电缆。 注: 电缆选用额定电压 (u./u)为0.6/1kV铜芯低压电力电缆。 YJV: XLPE Insulated and PVC Sheathed Power Cable. ZR-YJV: XLPE Insulated and PVC Sheathed Flame Resistant Power Cable. NH-YJV: XLPE Insulated and PVC sheathed fire-resistant power cable. DDZ-YJV: XLPE Insulated DL fire-resistant power cable. WDZ-YJE: XLPE Insulated WL fire-resistant power cable.. WDZN-YJE: XLPE Insulated and polyolefine sheathed fire-resistant power cable (cleaning type fire-resistant power cable). VV: PVC Insulated And Sheathed Power Cable. ZR-VV: PVC Insulated and Sheated Flame Retardant Power Cable. NH-VV: PVC Insulated and Sheated Slow-burning Power Cable Notes: The cable is copper core low-voltage power cable with 0.6/1kV rated voltage (u./u) without special indication.

※ 隧道照明用多芯分支电缆及照明用多芯分支电缆示意图 Sketch map of tunnel-lighting multicore branch cable





单芯预制分支电缆 Single-core series branch cable products



※ 单芯型分支电缆 Single-core series branch cable products

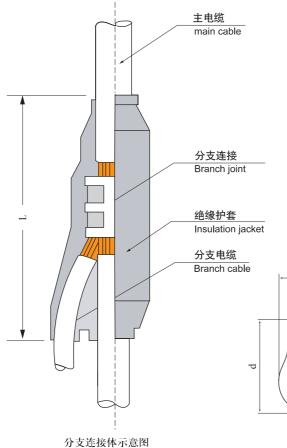
适用范围 Applicxbility

DF系列单芯型带分支电缆主要适用办公大楼、宾馆、写字楼、公寓、医院、商场等中、高层建筑配电系统。 DF series single-core branch cable is mainly applied to the powr distributing system in middle and high level buildings such as office buildings.hotels,offices,mansions,hospitals and emporiums and so on.

分支接头的结构特点Structure and characteristic of branch connector

DF 系列带分支电缆的连接体采用特殊配方的PVC 聚合物高压注塑而成, PVC 聚合物的粘接性与电缆护套紧密粘接, 确保气密和防水。

Connector of DF series branch cable adopts hige-pressure moulding process with the material of polymer PVC with special formulation. The close bond between polymer PVC and cable sheath by the viscidity of PVC ensures connector's fine performance of gas tightness and waterproof.



主电缆 分支电缆 参考尺寸Reference dimensions Main cable Branch cable (mm^2) d d1 L (mm^2) $16 \sim 70$ $50 \sim 6$ 34 65 140 95~185 95~10 42 74 144 $240 \sim 400$ $150 \sim 16$ 54 83 145 $500 \sim 800$ $185 \sim 16$ 68 100 1701000 ~ 1200 $240 \sim 25$ 78 111 180 1400 ~ 1600 240~25 122 86 186

注:这些尺寸可能略作修改

d1

Nlte: These dimensions may be adjusted a little.

Sketch map of branch connector



※ 单芯型分支电缆 Single-core series branch cable products

※ 0.6/1kV单芯XLPE/PVC电力电缆参数(YJV)Parameters of 0.6/1kV single core xlpe/PVC cable(YJV)

标称截面 No.cross section (mm ²)	导体 直径 Dia. (mm)	绝缘厚度 Insulating thickness (mm)	护套厚度 Sheath thickness (mm)	外径(约) External diameter (approx.) (Mm)	重量(约) Weight (approx.) (Kg/km)	交流试 验电压 AC test voltage (kV/5min)	20℃最大导体直 流电阻Ω/km Max.DC resistance of conductor(20℃)	Ampa	†载流量(A) acity(40℃) ���� <u>@</u>	Voltage drop $(V/A m)$
10	3.7	0.7	1.4	8.4	150	3.5	1.83	72	85	2.0
16	4.7	0.7	1.4	9.4	215	3.5	1.15	95	115	1.3
25	5.9	0.9	1.4	10.7	310	3.5	0.727	132	150	0.84
35	7.0	0.9	1.4	11.7	410	3.5	0.524	164	182	0.63
50	8.5	1.0	1.4	13.2	570	3.5	0.387	196	228	0.49
70	10.1	1.1	1.4	15.1	770	3.5	0.268	255	292	0.36
95	11.7	1.1	1.5	17.4	1030	3.5	0.193	310	356	0.29
120	13.2	1.2	1.5	19.1	1280	3.5	0.153	360	410	0.24
150	14.7	1.4	1.6	22	1590	3.5	0.124	419	479	0.21
185	16.4	1.6	1.6	24.3	1950	3.5	0.0991	479	546	0.19
240	18.6	1.7	1.7	27.5	2490	3.5	0.0754	565	643	0.16
300	20.8	1.8	1.8	30.8	3140	3.5	0.0601	643	738	0.15
400	24.1	2.0	1.9	34.2	4140	3.5	0.0470	771	908	0.131
500	26.9	2.2	2.0	38.8	5140	3.5	0.0366	885	1026	0.120
630	30.2	2.4	2.2	45.2	6440	3.5	0.0283	1008	1177	0.111
800	34.8	2.6	2.3	49.6	8450	3.5	0.0221	1180	1380	0.104
1000	39.0	2.8	2.4	51.5	10600	3.5	0.0176	1410	1605	0.098
1200	43.9	3.0	2.7	55.3	11834	3.5	0.0151	1591	2065	0.092
1400	47.7	3.2	2.9	59.9	13800	3.5	0.0129	1905	2210	0.087
1600	51.1	3.40	3.0	63.9	15740	3.5	0.0113	2130	2420	0.082

※ 0.6/1kV单芯PVC/PVC电力电缆参数(VV)Parameters of 0.6/1kV single core PVC/PVC cable(VV)

标称截面 No.cross	导体 直径	绝缘厚度 Insulating	护套厚度 Sheath	外径(约) External diameter	重量(约) Weight	交流试 验电压 AC test	20℃最大导体直 流电阻Ω/km		寸载流量(A) acity(40℃)	电压降 × 10 ⁻³ Voltage drop
section (mm ²)	Dia. (mm)	thickness (mm)	thickness (mm)	(approx.) (Mm)	(approx.) (Kg/km)	voltage (kV/5min)	Max.DC resistance of conductor(20°C)	00 00	ၜၜၜၜ	(V/A.m)
10	3.7	1.0	1.4	9.6	151	3.5	1.83	60	70	2.0
16	4.7	1.0	1.4	10.0	216	3.5	1.15	82	95	1.3
25	5.9	1.2	1.4	11.3	311	3.5	0.727	105	122	0.84
35	7.0	1.2	1.4	12.3	412	3.5	0.524	127	148	0.63
50	8.5	1.4	1.4	14.0	572	3.5	0.387	163	190	0.49
70	10.1	1.4	1.4	15.7	772	3.5	0.268	199	231	0.36
95	11.7	1.6	1.7	18.4	1035	3.5	0.193	245	285	0.29
120	13.2	1.6	1.7	19.8	1287	3.5	0.153	285	332	0.24
150	14.7	1.8	1.8	22.8	1600	3.5	0.124	326	379	0.21
185	16.4	2.0	1.8	25.1	1962	3.5	0.0991	377	438	0.19
240	18.6	2.2	1.8	28.5	2500	3.5	0.0754	455	520	0.16
300	20.8	2.4	2.1	32.0	3155	3.5	0.0601	524	610	0.15
400	24.1	2.6	2.2	35.4	4160	3.5	0.0470	631	734	0.131
500	26.9	2.8	2.3	40.0	5160	3.5	0.0366	736	856	0.120
630	30.2	3.0	2.4	46.0	6460	3.5	0.0283	883	1026	0.111
800	34.8	3.2	2.6	50.0	8475	3.5	0.0221	1040	1209	0.104
1000	39.0	3.4	2.7	53.0	10635	3.5	0.0176	1220	1419	0.098
1200	43.9	3.6	3.0	57.10	11880	3.5	0.0151	1420	1705	0.092
1400	47.7	3.8	3.2	61.70	13860	3.5	0.0129	1620	1915	0.087
1600	51.1	4.0	3.3	65.70	15810	3.5	0.0113	1805	2090	0.082



※ 电压降根据下列条件计算 Calculate and voltage drop according to the following conditions

- 1、导线温度: 70℃~90℃
- 2、环境温度: 40℃
- 3、电缆排列(单芯): S=2D

4、功率因数: cosφ=0.8

5、Vd代表降压 Vd=K×I×L×V₀(V)

- I: 电流 (A)
- L: 线路长度 (m)
- V₀: 表内电压降 (V/A · m)
- K: 系数是根据配电系统而定3相4线时
- K=1: 在每相线芯和中线线芯间
- K=√3: 每相线芯之间
- 6、末端允许电压降: ≤5%三相时末端允许电压降: Vd=380V×5%=19V
- 7、主干电缆允许长度的计算公式

$$L = \frac{19}{\sqrt{3} \times 1 \times V_0}$$

例: 主电缆300mm²、工作电流(计算电流520A) 表内电压降V₀=0.15×10⁻³V/A·m 三相允许长度

 $L = \frac{19}{\sqrt{3} \times 520 \times 0.15 \times 10^{-3}} \approx 141 \,\mathrm{m}$

- 1. Wire Temperature: 70° C ~ 90° C
- 2, Ambient Temperature: 40°C
- 3、Cable Arrange (Single-Core) : S=2D
- 4. Power Factor: $\cos \phi = 0.8$
- 5、Vd stands for voltage drop
- $Vd = K \times I \times L \times V_0$ (V)
- I: Current (A)
- L: Length of Circuit (m)
- $V_{\scriptscriptstyle 0}\!\!:\,$ Voltage Drop inside Meter (V/A \cdot m)
- K: Conefficient is determined according to distribution system At threephase four-wire
- K=1: between wire core of each phase and wire core of centerline
- $K=\sqrt{3}$: among wire core of each phase
- 6. Terminal permission voltage drop: $\leq 5\%$
 - At three-phase, terminal permission voltage drop: Vd= $380V \times 5\%$ =19V
- 7. Account formuler for permission length of main cable

$$L = \frac{19}{\sqrt{3} \times 1 \times V}$$

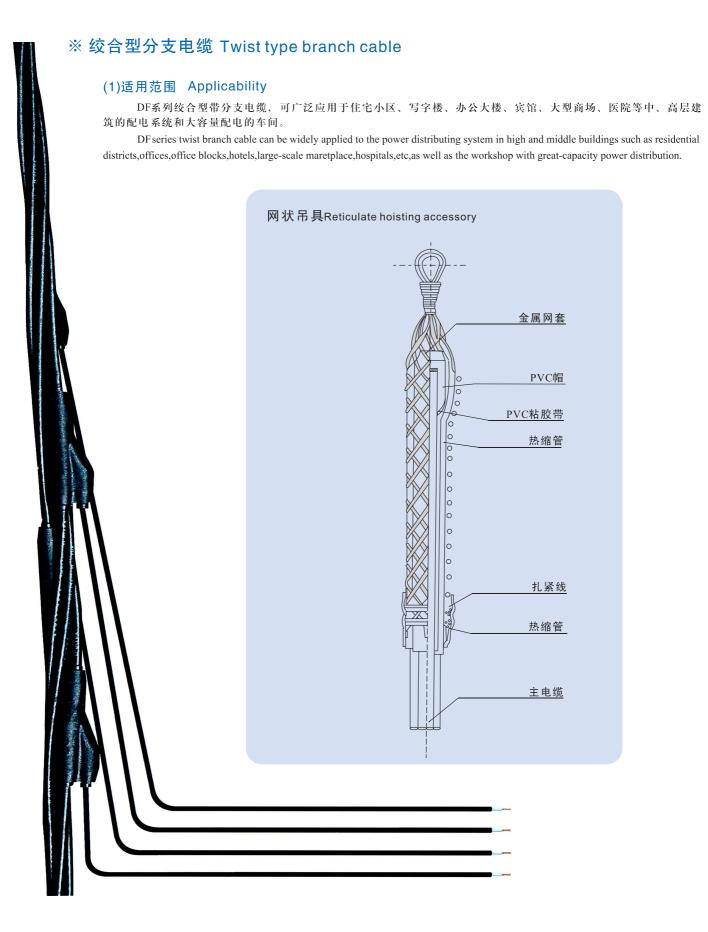
Example: main cable 300mm², (working voltage520A) voltage drop inside meter $V_0=0.15 \times 10^{-3}$ V/A \cdot m three-phase pernission length

$$L = \frac{19}{\sqrt{3} \times 520 \times 0.15 \times 10^{-3}} \approx 141 \,\mathrm{m}$$

※ DF系列单芯分支电缆竖井预留孔尺寸 Shaft hole dimensions of DF series branch cables

线制 Wiring system	回路 Loop		主干线截面 Main cable secion	A (mm)	B (mm)	示意图 Sketch map
	单回路		$16 \text{mm}^2 \sim 300 \text{mm}^2$	200	300	
三相四线		le loop	$400 \text{mm}^2 \sim 630 \text{mm}^2$	250	400	
制(4芯)		-	$800 \text{mm}^2 \sim 1600 \text{mm}^2$	300	550	
Three-		平行安装	$16 \text{mm}^2 \sim 300 \text{mm}^2$	200	550	
phase four-	双回路	Parallel	$400 \text{mm}^2 \sim 630 \text{mm}^2$	250	800	
wire system	Double	installing	$800 \text{mm}^2 \sim 1600 \text{mm}^2$	300	1100	竖井间 double-row Shaft room installation
(four-core)	loop	重叠安装 Overlap installing	$16\text{mm}^2 \sim 300\text{mm}^2$	300	300	
	i		$16\text{mm}^2 \sim 150\text{mm}^2$	200	250	
	单	回路	$185 \text{mm}^2 \sim 300 \text{mm}^2$	250	350	B
三相五线		le loop	$400 \text{mm}^2 \sim 630 \text{mm}^2$	300	450	重叠安装 _{竖井间} Overlav
制(5芯)			$800 \text{mm}^2 \sim 1600 \text{mm}^2$	300	650	Shaft room installation
Three-			$16 \text{mm}^2 \sim 150 \text{mm}^2$	200	500	
phase five-		平行安装	$185 \text{mm}^2 \sim 300 \text{mm}^2$	250	700	
wire system	双回路	Parallel installing	400 mm ² ~ 630 mm ²	300	900	В
(five-core)	Double loop	6	$800 \text{mm}^2 \sim 1600 \text{mm}^2$	300	1300	
	⁻ P	重叠安装 Overlap installing	$16 \text{mm}^2 \sim 300 \text{mm}^2$	300	300	竖井间 Single-row Shaft room installation







※ 绞合型分支电缆 Twist type branch cable

(1)0.6/1kV绞合型XLPE/PVC电力电缆参数(YJV) Parameters of 0.6/1kV twist type XLPE/PVC power cable(YJV)

标称截面 No.cross section (mm ²)	直径 Dia. (mm)	绝缘厚度 Insulating thickness (mm)	护套厚度 Sheath thickness (mm)	Exte dian (app 4芯	と(约) ernal neter rox.) 5芯	We (app (Kg 4芯	t(约) ight rrox.) /km) 5芯	交流试 验电压 AC test voltage (kV/5min)	20℃最大导体 直流电阻Ω/km Max.DC resistance of conductor	40℃时载 流量(A) Ampacity (40℃)	电压降 ×10 ⁻³ Voltage drop (V/A.m)
				Four-core	Five-core	Four-core	Five-core		(20°C)		
10	3.7	0.7	1.4	20.5	24.6	600	750	3.5	1.87	72	2.0
16	4.7	0.7	1.4	23.0	27.6	860	1075	3.5	1.17	95	1.3
25	5.9	0.9	1.4	26.5	31.8	1240	1550	3.5	0.742	132	0.84
35	7.0	0.9	1.4	29.0	34.8	1640	2050	3.5	0.534	164	0.63
50	8.5	1.0	1.4	33.0	39.6	2280	2850	3.5	0.395	196	0.49
70	10.1	1.1	1.4	36.5	43.8	3080	3850	3.5	0.273	255	0.36
95	11.7	1.1	1.4	41.0	49.2	4120	5150	3.5	0.197	310	0.29
120	13.2	1.2	1.6	46.0	55.2	5120	6400	3.5	0.156	360	0.24
150	14.7	1.4	1.6	51.0	61.2	6360	7950	3.5	0.126	419	0.21
185	16.4	1.6	1.6	55.5	66.6	7800	9750	3.5	0.101	479	0.19
240	18.6	1.7	1.7	63.0	75.6	9960	12450	3.5	0.0769	565	0.16
300	20.8	1.8	1.8	70.0	84.0	12560	15700	3.5	0.0601	643	0.15

(2)0.6/1kV绞合型PVC/PVC电力电缆参数(VV) Parameters of 0.6/1kV twist type PVC/PVC power cable(VV)

标称截面 No.cross section	直径 Dia. (mm)	Dia. Insulating Sheath		Insulating Sheath (approx.)		ernal neter	重量(约) Weight (approx.) (Kg/km)		交流试 验电压 AC test voltage	20℃最大导体 直流电阻Ω/km Max.DC resistance	40℃时载 流量(A) Ampacity (40℃)	电压降 ×10 ⁻³ Voltage drop
(mm ²)		(mm)	(mm)	4志 Four-core	5芯 Five-core	4芯 Four-core	5芯 Five-core	(kV/5min)	of conductor $(20^{\circ}C)$	((V/A.m)	
10	3.7	1.0	1.4	21.7	25.8	604	755	3.5	1.87	60	2.0	
16	4.7	1.0	1.4	24.2	28.8	864	1080	3.5	1.17	82	1.3	
25	5.9	1.2	1.4	28.5	32.8	1244	1555	3.5	0.742	105	0.84	
35	7.0	1.2	1.4	30.2	36.0	1648	2060	3.5	0.534	127	0.63	
50	8.5	1.4	1.4	34.6	41.2	2288	2860	3.5	0.395	163	0.49	
70	10.1	1.4	1.4	37.7	45.0	3088	3860	3.5	0.273	199	0.36	
95	11.7	1.6	1.7	43.8	52.0	4140	5175	3.5	0.197	245	0.29	
120	13.2	1.6	1.7	48.4	57.6	5148	6435	3.5	0.156	285	0.24	
150	14.7	1.8	1.8	53.4	63.6	6400	8000	3.5	0.126	326	0.21	
185	16.4	2.0	1.8	57.9	69	7848	9810	3.5	0.101	377	0.19	
240	18.6	2.2	1.8	65.4	78	10000	12500	3.5	0.0769	455	0.16	
300	20.8	2.4	2.1	73.6	87.6	12620	15775	3.5	0.0601	524	0.15	



※ 多芯型分支电缆Multi-core type branch cable

(1)适用范围 Applicability

DF系列多芯型带分支电缆,广泛应用于机场、地铁、公路、路灯、桥架、遂道的照明系统和小容量的住宅楼等。

DF series multi-core branch cable can be widely applied to the lighting systems of airports, undergroud, roads, street lamps, bridge and tunnels, as well as in residence building with small capacity.

(2)主要优点 Main aduantages

①经济

由于节省了现场施工劳力,总的建筑工程造价包括人员和材料的费用都大大的压缩了。

②施工周期短

现场的工作部分在工厂中完成,因而节省了现场施工的劳动时间。 ③ 高质量

所有影响电气性能,机械性能的分支连接体都具有严格质量控制和良好工作环境的工厂中完成。

④气密和防水

分支连接体采用PVC合成材料注塑而成,使电缆护套和接头合在一起确保气密和防水,所以适用于潮湿的地区。

⑤免维护

DF系列多芯型带分支电缆安装后,开通率达100%,正常运行不需要作任何的维护。

①Economy

As the manpower was lightened in building site, the total project cost including the expense about personnel and material was cut down greatly.

②Short construction period

Part of the work should have finished in building scene have been finished in factory, therefore it saved construction time.

③Hingh quality

All of the branch connectors which influence electric and machinery performances will be checked strictly about quality and be made in fine working environment.

(Gas tightness and water proof performance

Branch connector is moulded by PVC material which aggutinates cable sheath and tie-in .Therfore it ensures connector's good performance of gastightness and waterproof, and ensures normal power supply in humid environment. (5) Maintenence Waiver

When DF series multi-core branch cable is installed, its success rate reaches 100%. Under normal running, it needs not any maintenance.

(3)主要技术参数 Main technical parameter

①额定电压: 0.6/1kV

②绝缘电阻: >200MΩ

③工频耐压:每线之间施加4000V历时1分钟工频电压无击穿和闪络现象。

④连接体的接触电阻: 接触电阻与等长的分支线的基准电阻之比值 <1.2

①Rated voltage: 0.6/1kV

@Insulation resistance: $>200M\Omega$

③Industrial frequency withstand: frequency withstand voltage 4000V for 1 min on every wire, without breaking=down and flashover about industrial frequency voltage.

※单芯型附件Accessory for single-core type

名称Name	型号称Type	适用范围 Applic	able scope(mm ²)	示意图 Sketchmap
	GJ-01	10-70		
起吊挂具	GJ-02	95-300		
Hoisiinghangingtool	GJ-03	400-800		
	GJ-04	1000-1600		
	GD-01	10-70		
挂钩横担	GD-02	95-300		800000
Hanger cross am	GD-03	400-800		
	GD-04	1000-1600		
	JJ-01	四线10-50	五线10-35	
	JJ-02	四线 70-150	五线 50-90	
固定夹具	JJ-03	四线 185-300	五线 120-180	
Fixedclamp	JJ-04	四线 400-800	五线 240-500	
	JJ-05	四线 1000-1600	五线 630-1600	
	ZJ-01	四线10-50	五线10-35	
田ウナ加	ZJ-02	四线 70-150	五线 50-95	
固定支架 Fixed breakst	ZJ-03	四线185-300	五线 120-185	
Fixed bracket	ZJ-04	四线400-800	五线 240-500	
	ZJ-05	四线1000-1600	五线 630-1600	

※绞合型附件Accessory for twist type

名 称 Name	型号称 Type	适用范围 Applicable scope(mm ²)
	WD-21	10-50
网状吊具	WD-22	70-95
Reticulate	WD-23	120-185
Hanger tool	WD-24	240-300
	GD-21	10-50
挂钩横担	GD-22	70-95
Hanger cross am	GD-23	120-185
	GD-24	240-300
	JJ-21	10-50
固定夹具	JJ-22	70-95
Fixedclamp	JJ-23	120-185
	JJ-24	240-300
	ZJ-21	10-50
固定支架	ZJ-22	70-95
Fixed bracket	ZJ-23	120-185
	ZJ-24	240-300

注: 1、起吊挂具每根土电缆配一个, 挂钩横担和网状吊具每回路配一套; 2、固定支架和固定夹具安装间距15-20米.

※进出线箱 Inlet/outlet box

※多芯型附件Accessory formulti-core type

名 称 Name	型 号 称 Type	适用范围 Applicable scope(mm ²)
	WD-11	10-35
网状吊具	WD-12	50-70
Reticulate	WD-13	95-120
Hanger tool	WD-14	150-240
	GD-11	10-35
挂钩横担	GD-12	50-70
Hanger cross am	GD-13	95-120
	GD-14	150-240
	JJ-11	10-35
固定夹具	JJ-12	50-70
Fixedclamp	JJ-13	95-120
r	JJ-14	150-240
	ZJ-11	10-35
固定支架	ZJ-12	50-70
Fixed bracket	ZJ-13	95-120
	ZJ-14	150-240

Note: 1. Ahoisfirlghagngtoolisin eachmaincable, ahgercrosarmandareticulate han mgtoolin eachloop

2:fixedblacketandclampwillbe~PPedbetweoathedistanceof 1 5~2 0m

	名称Name	型号称Type	适用范围 Applicable scope(mm ²)	箱体规格Package dimensions(mm)
	进(出)线箱	JX-01	10-70	700 × 400 × 250
	(内装铜排) Inlet/outletbox	JX-02	95-300	800 × 600 × 250
	(installed copper row	JX-03	400-800	1000 × 800 × 250
	inside)	JX-04	1000-1600	1200 × 1000 × 250



※单订货须知Notes to Order

为了提供您需求的DF 系列带分 支电缆, 请提供下列资料:

- (1) 配电系统图(配电系统的功率及 配电方式)和楼层层高剖面图;
- (2) 主干线电缆和分支线电缆的型 号规格与长度;
- (3)分支连接体距楼层地面的高度, 以及分支线电缆进楼层配电(照 明) 箱上进线或下进线;
- (4) 配件型号规格及数量;
- (5) 安装方法: 电缆从地面提升或楼 顶放下。(通常采用地面提升)
- (6) 是否需要对电缆进行末端处理(压接接线端子);
- (7) 带分支电缆的选型(如单芯型、 绞合型、多芯型)

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(1)Distributingsystemfigureand

sectlonatfigure showingfloorlevelof

(3)yrheheightofbranch contactfrom

cableenteringbuilding distributionbox:

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inglecorebype,twisttype,multi-corerype)

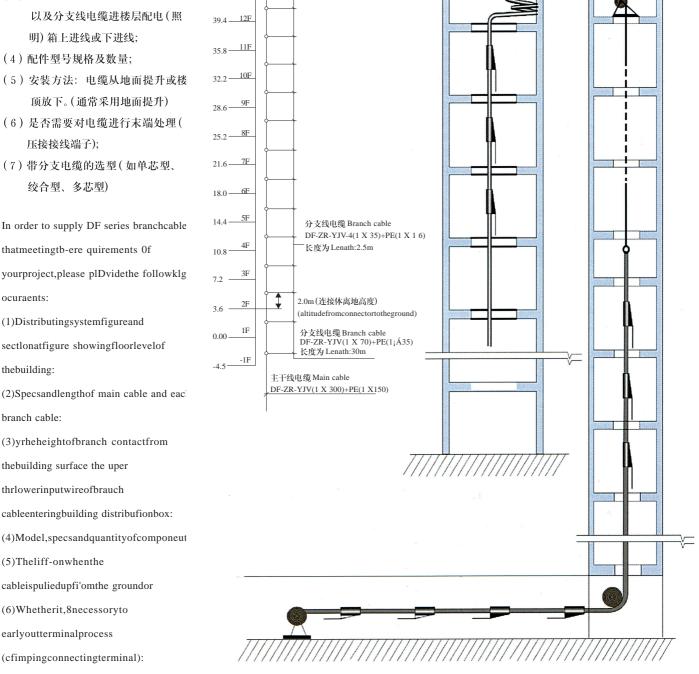
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(5)Theliff-onwhenthe

ocuraents:

thebuilding:

branch cable:



举例: 三相五线制系统

15F 492-

14F

45.6

42.0 <u>13F</u>

Example:three-phase-five-wire systerm

↓> 0.8m(起吊挂具至连接体距离)

(Distance between benging

tool and the connector)

吊装示意图 Sketch map of hanging tool

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