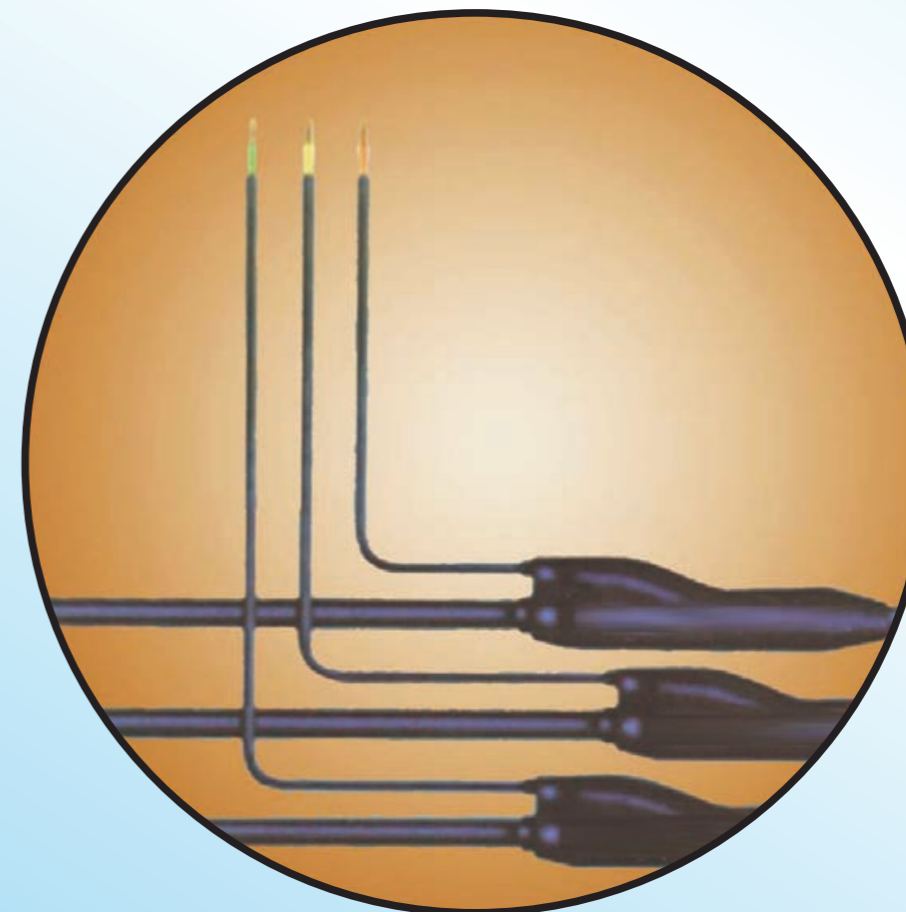


预分支电缆 Prefabricated Branch Cable

YFD系列分支电缆(预制分支电缆), 主要适用于中、高层建筑及公路、隧道、工矿、企事业单位中输送额定电压1000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。

The YFD series branch cable (prefabricated branched cable), used for the power distribution equipments with rated voltage 1000 and below, are suitable for intermediate, high-storey buildings, road & tube and mine or units. It has advantages as: security in power supply, good insulation performance, onvenient for installation, low cost on power distribution, large application scopes, more species and specifications, low requirements for installation environment etc.



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执行标准 Executive Standard

本产品按照GB/T12706-2008、GB/T 10636-2006标准生产制造。

This product is manufactured as per GB/T12706-2008、GB/T 10636-2006 standard.

适用范围 Application Scope

产品适用于额定电压 U_0/U 为0.6/1kV及以下供电干线使用的预制分支电缆和隧道、桥梁用照明线路及其他类似用途的预分支电缆。

The product is applied to prefabricated cable for power supply main line at rated voltage (U_0/U) up to and including 0.6/1kV and for illumination lines of tubes and bridges and similar ways.

使用特性 Operating Features

1、电缆额定电压Rated voltage： U_0/U （ U_m ）：0.6/1(1.2)kV

U_0 —电缆设计用的导体对地或金属屏蔽之间的额定工频电压；

Rated power frequency voltage from conductor to ground or between metal shielding layers

U —电缆设计用的导体间的额定工频电压；

Rated power frequency voltage between conductors

U_m —设备可承受的“最高系统电压”的最大值。

Max bearable “ system highest voltage”

2、电缆正常运行时导体最高工作温度：交联聚乙烯绝缘为90℃；聚氯乙烯绝缘电缆为70℃。

Max. operating temp of conductor at normal operation: 90℃ for XLPE insulation, 70℃ for PVC insulation.

3、电缆短路时导体最高温度：交联聚乙烯绝缘为250℃；聚氯乙烯绝缘为160℃。（短路最长持续时间为5秒）。

Max temp of conductor at short circuit: 250℃ for XLPE insulation, 160℃ for PVC insulation, (max duration at short circuit is 5s).

4、电缆安装时的最小弯曲半径：Min. bending radius of cable installation:

(1) 单芯电缆：无铠装为20D；有铠装为15D。

Single-core cable: 20D for non-armored cable, 15D for armored cable.

(2) 多芯电缆：无铠装为15D；有铠装为12D。

Multi-core cable: 15D non-armored cable, 12D for armored cable.

D —电缆试样的实际外径mm

D —Actual O.D of cable sample (mm)

5、电缆敷设 Cable Installation

电缆敷设时环境温度不低于0℃，低于0℃时，应对电缆进行预热。

The ambient temp of cable installation shall not be less than 0℃, the cable shall be preheated if the temp. is less than 0℃.

电缆的型号、名称和使用环境 Type, Description and Service Environment

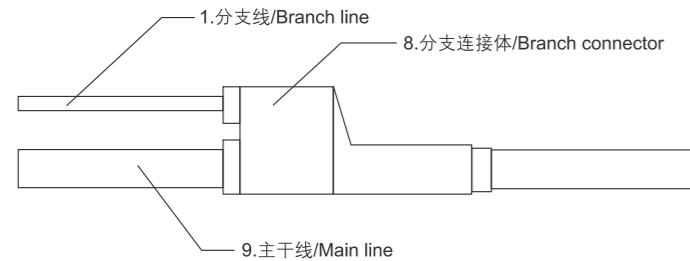
型号 Type	名称 Description	使用环境 Service Environment
FZVV	铜芯聚氯乙烯绝缘聚氯乙烯护套预制分支电缆 Copper conductor, PVC insulated and sheathed, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops
Z-FZVV	铜芯聚氯乙烯绝缘阻燃聚氯乙烯护套预制分支电缆 Copper conductor, PVC insulated, flame-retardant, PVC sheathed, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops
FZ-YJV	铜芯交联聚乙烯绝缘聚氯乙烯护套预制分支电缆 Copper conductor, XLPE insulated and sheathed, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops
WDZ-FZYJV	铜芯交联聚乙烯绝缘无卤低烟阻燃护套阻燃预制分支电缆 Copper conductor, XLPE insulated, LSOH PO sheathed, flame-retardant, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops
Z-FZYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套阻燃预制分支电缆 Copper conductor, XLPE insulated, PVC sheathed, flame-retardant, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops
N-FZYJV	铜芯交联聚乙烯绝缘聚氯乙烯护套耐火预制分支电缆 Copper conductor, XLPE insulated, PVC sheathed, fire-resistant, prefabricated branched cable	广泛用于机场、地铁、公路、路灯、桥架、隧道的照明系统、住宅小区、写字楼、办公大楼、宾馆、大型商场、医院等中、高层建筑的配电系统和大容量配电车间。 For illumination systems of airport, subway, road, road lamp, bridge and tunnel, and power distribution system of medium and high-storey buildings as residence community, building, office building, hotel, large-scaled store and hospital and large capacity power distribution workshops

预分支电缆 Prefabricated Branch Cable

生产范围 Production Scope

型号 Type	芯数 No. of cores	导体标称截面积 Nom. cross section	
		主干电缆 Main cable	分支电缆 Branched cable
FZVV、FZYJV Z-FZVV Z-FZYJV WDZ-FZYJV	1	16~800	4~240
	2	16~50	4~35
	3	16~50	4~35
	4	16~50	4~35
	5	16~50	4~35
N-FZYJV	1	16~120	6~70

电缆外型图 Cable Drawings



预分支电缆外型图 Drawing of prefabricated branched cable

主要试验项目及指标 Main Test Items and Index

1、20℃时导电线芯最大直流电阻 Max. D.C Resistance of Conductor at 20℃

规格 Specification	20℃时导体最大直流电阻 Max. D.C resistance of conductor at 20℃	
	铜 Copper	
mm ²	Ω/km	
1.5	12.1	
2.5	7.41	
4	4.61	
6	3.08	
10	1.83	
16	1.15	
25	0.727	
35	0.524	
50	0.387	
70	0.268	
95	0.193	
120	0.153	
150	0.124	
185	0.0991	
240	0.0754	
300	0.0601	
400	0.0470	
500	0.0366	
630	0.0283	

- 绝缘电阻 Insulation resistance $\geq 200\text{M}\Omega$;
- 绝缘耐压 Insulation withstand voltage $\geq 3.5\text{kV}/5\text{min}$;
- 良好的气密性与防水性，即将分支接头侵入水中，在水与电缆芯间测绝缘电阻与工频耐压均符合2、3的要求；
Better gas tight and water proof performance. Joint of branched cable is immersed into water, measure insulation resistance and power frequency voltage between water and cable cores, result shall be in accordance with part 2 and 3.
- 分支接头接触电阻小，接触电阻与等长的分支线的基准电阻之比 ≤ 1.2 ；
Contact resistance of branched joint is small, ratio of contact resistance and basic resistance of branched wire with equivalent length ≤ 1.2
- 接头短路度更大，短路后接触电阻比率的变化率 ≤ 0.2 ；
More possibility of short circuit of joint, variation of contact resistance ratio after short circuit ≤ 0.2 .
- ZR-YJV型阻燃分支电缆，护套自熄时间 $\leq 12\text{S}$ ；符合GB12666.5的要求；
ZR-YJV type flame-retardant branched cable, self-extinguishing time of sheath $\leq 12\text{S}$, it is in accordance with requirements in GB12666.5 standard.
- NH耐火型除了能在正常工作条件下供电外，也能在燃烧的情况下，保持90min正常运行；符合GB12666.6的要求；
Except for normal supply of electricity by NH type fire-resistant cable, it could keep normal operation in 90min after burning, and it is in accordance with requirements in GB12666.6 standard.
- 具有优良的耐腐蚀性，能抵抗无机盐、油、碱、酸和有机溶剂对它的腐蚀；
Cable has better performance of corrosion-resistant, it could anti corrosion from inorganic salt, oil alkali, acid, organic solution.
- YJV型预制分支电缆具有优良的热稳定性和抗老化性。
YJV type prefabricated branched cable has better performance of stability and anti-ageing.