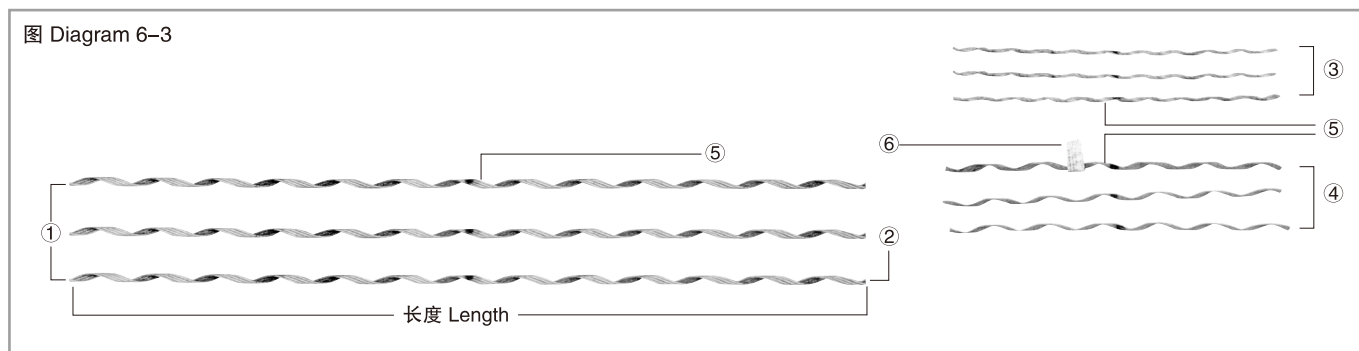


钢芯铝绞线用全张力接续条 Full Tension Preformed Conductor Splice

1. 部件说明(图6-3) Component Explanation (Drawing 6-3)



①分组:将单个线条黏贴成组并进行内表面喷砂。对于不同的产品,分组的数目不同的

②外层条:由铝合金制成,需分组和喷砂处理

③内层条:由镀锌钢丝制成,需分组和喷砂处理

④填充条:由铝合金制成,不一定需要分组,不喷砂处理,对于特定的型号,不需要填充条。具体请参见选型表

⑤中心标记/色标:安装中对齐线条的参照标记,用于鉴别适用导线的尺寸

⑥标签:标明产品型号及适用导线直径范围

①Grouping: Paste the splices by groups and make the inside sand blast. Different numbers between different products for each group.

②Outside splice: made of aluminum alloy, need grouping and sand blast.

③Inside splice: made of galvanized steel, need grouping and sand blast.

④Filling strip: made of aluminum alloy, don't need the grouping and sand blast, no filling strips for some types Ref the sheet.

⑤Center mark/ color mark: Ref mark for the align on the installation, used to distinguished the size of the suitable conductor.

⑥Label: indicate the item no. and the range of the suitable conductor's diameter.

2. 用途与结构 Application and construction

全张力接续条用于钢芯铝绞线的断线接续、破损修复等场合,设计仅用于非高压线路(<345kV)。

可替代目前广泛使用的液压接续管、爆压接续管等接续方法。

全张力接续条由内层条、填充条、外层条三部分组成:

a) 内层条用来接续钢芯;

b) 如果有填充条,将其安装在内层条上,保证安装后的外径和钢芯铝绞线的外径相同;

c) 外层条在设计上和导线接续条基本一致,只是长度略微增加来补偿剥掉的铝绞线。

Full tension conductor splice is used to the splicing of the ACSR, the design only suit low and middle voltage power line (<345kV).

Full tension conductor splice consist of inside splice, filling strip and outside splice.

a) Inside splice is used to splice the steel core.

b) Put the filling strip on the inside splice if there is, make sure the outer diameter after installation is the same with the ACSR.

c) The design of the outside splice is almost the same with the conductor splice, it is longer to make up the scalable conductor.

3. 特点 Characteristic

1) 全张力接续条的握紧力可以达到绞线的额定断裂张力,导电性优于等长钢芯铝绞线;

2) 全张力接续条可以恢复钢芯铝绞线100%的断裂张力和100%的导电性。当怀疑钢芯铝绞线的钢芯发生损坏,就可以使用这种接续条;

3) 公司还有其它类型的导线修复金具:预绞式护线条、预绞式短护线条、预绞式悬垂线夹及预绞式导线接续条等。

1) The grip strength of the full tension conductor splice could be up to the rating breaking tension of the ACSR, The conductivity is superior to the ACSR based on the same length;

2) Full tension conductor splice could make the ACSR recover 100% breaking tension and conductivity. It could be used when the steel core possibly damaged;

3) The company has other conductor recover types: preformed conductor splice、preformed short amor rods、preformed suspension clamp and preformed conductor splice.

4.特殊设计—护线接续条 Special design—Armor rods splice

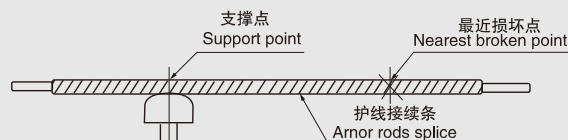
护线接续条综合了护线条和接续条的功能。当导线的损坏点在支撑点和最近损坏点之内。就可以采用这种接续条。

护线接续条是根据用户要求专门设计的。设计的目的是:接续条上的色标和支撑点对齐的时候, 伸长段可以覆盖损坏区域。

如需要, 请向公司咨询(图6-4)

A armor rods splice has the function both of the armor rod and splice. It could be used when the damage between the catch point and damage point. Armor rods splice is custom-made, design purpose: the elongation segment could cover the nearest damaged area when the color mark align with the catch point. Please contact us for more details. (Diagram 6-4)

图Drawing 6-4

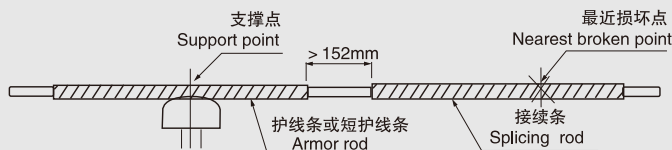


5.使用说明 Direction for use

- 1) 无论导线新旧与否, 必须将钢芯及铝绞线安装接续条的长度范围内表面彻底打磨, 使表面光亮和干净之后, 在表面立即涂上一层高质量、与导线匹配的导电脂, 然后开始安装;
- 2) 当接续条的中点和导线上损坏点对齐安装时, 全张力接续条的尾端距离已安装好的预绞式护线条或预绞式短护线条的尾端不能小于 152mm。只有导线上的损坏点在支撑点或在最近损坏点之外, 才可以采用这种接续条, 并发挥接续条的上述维修性能(图6-5)
- 3) 允许在全张力接续条上搭接。在搭接之前, 必须对全张力接续条的表面进行打磨来清除氧化层或胶。然后, 在搭接处涂上导电脂;
- 4) 全张力接续条安装后的外径等于导线的外径加上两倍的预绞丝外径;
- 5) 全张力接续条不能重复使用。

- 1) Polishing the internal surface both of the ACSR and conductor splice, make it clean and bright, wiping one layer high quality and matching electrical contact grease, then start to installation
- 2) Once the midpoint align with the damage point, The distance between the back ends of the full tension conductor splice and the set preformed armor rods or preformed short armor rods should be not less than 152mm. It could be used only when the damaged point is out of the catch point or lately damaged point. (diagram 6-5)
- 3) It could be used on the full tension conductor splice. Polishing the surface and wiping the contact grease before installation;
- 4) After installation, the outer diameter of the full tension conductor splice equal to the conductor's outer diameter plus two times of the preformed armor rods's outer diameter;
- 5) The full tension conductor splice can not be used repeatedly.

图Drawing 6-5



6.选型表 Model table

表6-7全张力接续条选型表 Sheet 6-7 full tension conductor splice model table

DL/T763-2001 标准型号 Standard type	适用导线类型 Suitable conductor type GB1179-83/GB1179-74			参考线夹长度Ref clamp length (mm)			线夹重量Clamp weight (kg)		
				钢芯 Steel core	填充条 Filling strip	外层 Outside splice	钢芯 Steel core	填充条 Filling strip	外层 Outside splice
JL-50/8	LGJ	50/8	6/1	508		1372	0.15		0.31
JL-70/10	LGJ	70/10	6/1	406	406	1499	0.06	0.03	0.6
JL-70/40	LGJ	70/40	12/7	740		2240	0.37		1.45
JL-95/15	LGJ	95/15	26/7	508	508	1905	0.12	0.07	0.85
JL-95/20	LGJ	95/20	7/7	510	508	1727	0.11	0.08	0.77
JL-95/55	LGJ	95/55	12/7	790		2500	1.65		0.9
JL-95/0	LGJ	95	28/7	737	737	1880	0.15	0.12	0.83
JL-120/20	LGJ	120/20	26/7	508	508	2057	0.1	0.1	1.09
JL-120/0	LGJ	120	28/7	610	610	2210	0.19	0.1	1.17
JL-150/0	LGJ	150	28/7	635	635	2387	0.19	0.16	1.59
JL-150/20	LGJ	150/20	24/7	508	508	2261	0.1	0.14	1.51
JL-150/25	LGJ	150/25	26/7	635	635	2413	0.19	0.14	1.61
JL-150/35	LGJ	150/35	30/7	686	686	2465	0.29	0.15	1.65
JL-185/25	LGJ	185/25		635	635	2642	0.19	0.23	2.42
JL-185/30	LGJ	185/30	26/7	660	660	2667	0.22	0.22	2.44
JL-185/0	LGJ	185	18/7	686	686	2692	0.29	0.18	2.46
JL-210/25	LGJ	210/25	24/7	635	635	2743	0.19	0.27	2.75
JL-240/0	LGJ	240	28/7	787	787	3226	0.47	0.29	4.52
JL-240/30	LGJ	240/30	24/7	686	686	3073	0.29	0.32	3.7
JL-240/40	LGJ	240/40		737	737	3073	0.34	0.32	3.36
JL-240/0	LGJQ	240	24/7	658	658	3124	0.29	0.32	3.76
JL-300(1)	LGJQ	300(1)	24/7	711	711	3404	0.30	0.38	5.22
JL-300/25	LGJ	300/25	48/7	635	635	3759	0.19	0.40	5.81
JL-300/40	LGJ	300/40	24/7	737	737	3429	0.34	0.40	5.28
JL-300/0	LGJ	300	28/19	1041	1041	3657	0.69	0.59	5.67
JL-400/25	LGJ	400/25	45/7	635	635	4013	0.19	0.53	7.85
JL-400/35	LGJ	400/35	48/7	686	686	4242	0.29	0.52	8.39
JL-400/50	LGJ	400/50	54/7	787	787	4343	0.40	0.57	8.21
JL-400/0	LGJ	400		1168	1168	4216	0.84	0.77	8.21

注：型号中字母与数字意义：J-接续条；L-螺旋预绞式；数字-产品对应导线型号，/0-指适用与GB1179-74标准的钢芯铝绞线。
Note: J- conductor splice, L- screw preformed, number specifications, /0- suit to the ACSR based on GB1179-74 .