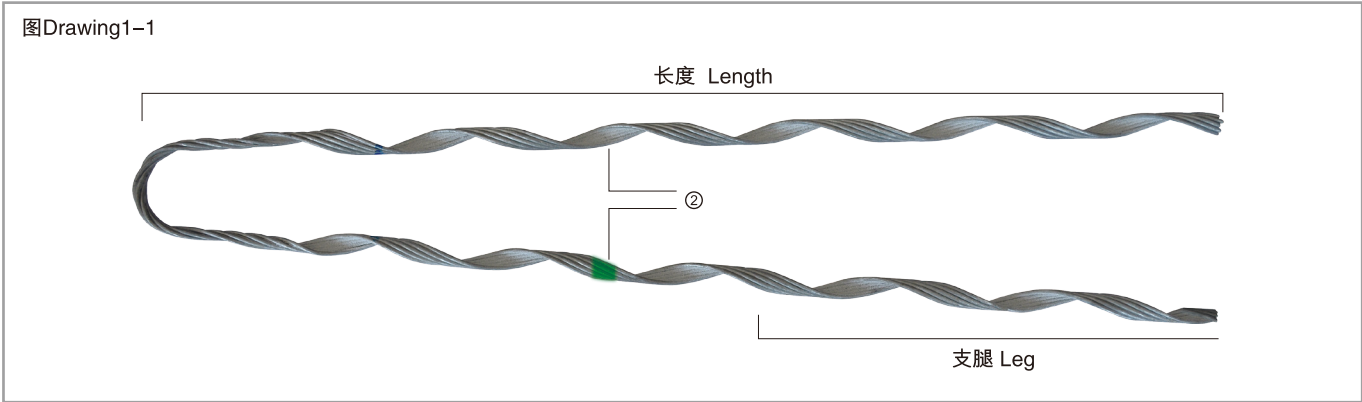


预绞式导线耐张线夹Preformed Conductor Tension Set

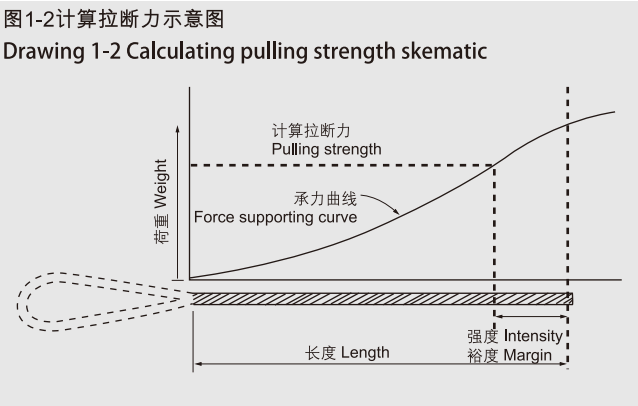
1.部件说明(图1-1) Component Illustration (Drawing 1-1)



- ①非绞合环：作为标准形式，适用于小尺寸的导线 绞合环：对于较大尺寸的导线，采用绞合环来适应不同类型的金具
- ②安装/识别色标：指示安装的起始点，同时可以帮助鉴别线夹的型号
- ①Untwisted ring: As a standard form, be applied to subsize wire. Twisted ring: To large size, use twisted ring to adapt different fitting
- ②Installation/identifying color code: Indicate the start point of installation, meanwhile help to identify clamp.

2.用途与结构(图1-2) Application and structure (Drawing 1-2)

- 1)线夹可以用在主要和分支配电线路的裸导线和架空绝缘导线上替代目前线路上常用的包括螺栓型在内的耐张线夹；
- 2)线夹结构简单，其预绞丝双腿绞合形成空管，后部为预成型的绞环。预绞丝双腿形成的空管缠绕在导线上时就可以产生极强的握紧力，而绞环用以固定在绝缘子上。
- 1) Preformed tension set is used in the installation of the exposed conductor used in main and tap distribution line and overhead insulated conductor. It can substitute for the tension clamps including bolt type widely used in present line;
- 2) The set is simple in structure, two legs of the preformed armor rod intertwist a blank pipe, with a twisted ring as its backside. The blank pipe would produce a great holding strength when it enlce the conductor, and the ring could be used in fixing on the insulator.



3.材料 Material

线夹由镀锌钢丝、铝包钢丝材料制造。The tension set is made of galvanized steel wire and aluminum sheathed steel wire.

4.特点 Characteristic

- 1)强度高：每个导线耐张线夹均有一段额外的预绞长度，从而保证耐张强度可达导线额定拉断力(R.B.S)100%以上；
- 2)耐腐蚀性好：材质与导线完全一致，从而保证较强的耐腐蚀性；
- 3)安装简单，线夹可快捷、简便地手工在现场安装，无需任何专用工具，由一人即可完成操作；
- 4)安装质量易于保证：线夹的安装质量易于保证，一致性强，不需专门训练，肉眼即可进行检验，外观简洁美观；
- 5)通用性强：可与多种金具配套使用(详见安装说明书)；
- 6)足够的握紧力：线夹具有牢固的绞合环，可以对钢芯铝绞线、铝绞线、铝合金绞线等导线提供足够的握紧力，而且具有更大的适用导线尺寸范围。

- 1) High strength; An additional length is provided to ensure tension strength could be up to 100% R.B.S;
- 2) High erosion resistance: The material is identical to conductor;
- 3) Simple installation, the tension set could be installed manually at the work site by one person without any special tool;
- 4) Good installation quality: The tension set installation could be checked by naked eye without specialized training;
- 5) Strong Universality: It could be widely compatible with many fittings;
- 6) Adequate holding strength: It is possessed of firm twisted ring, and could provide adequate holding strength for conductors. It also possesses a large applicable conductor range.

5. 配套金具 Matched fittings

1)心形环(图1-1)(表1-1)(图1-2)(表1-2) Heart-shape ring (Drawing 1-1)(Table 1-1)(Drawing 1-2)(Table 1-2)

本体：热镀锌球墨铸铁 Main body: Hot galvanized spheroidal graphite iron
螺栓：热镀锌钢制作 Bolt: Hot galvanized steel
开口销：不锈钢 Cotter pin: Stainless steel

表1-1心形环 Cable 1-1 Heart shape ring

产品型号 Catalogue No.	参考标识 Reference Identifier	破坏强度 Broken Strength (kN)	重量 Weight (kg)	尺寸(mm) Dimension				
				A	B	C	D	E
TC-12	TC-12	120	0.9	107	48	24	57	M16
TC-16	TC-16	156	1.7	124	57	25.4	64	M18
TC-16	TC-16	156	1.7	124	57	25.4	64	M16

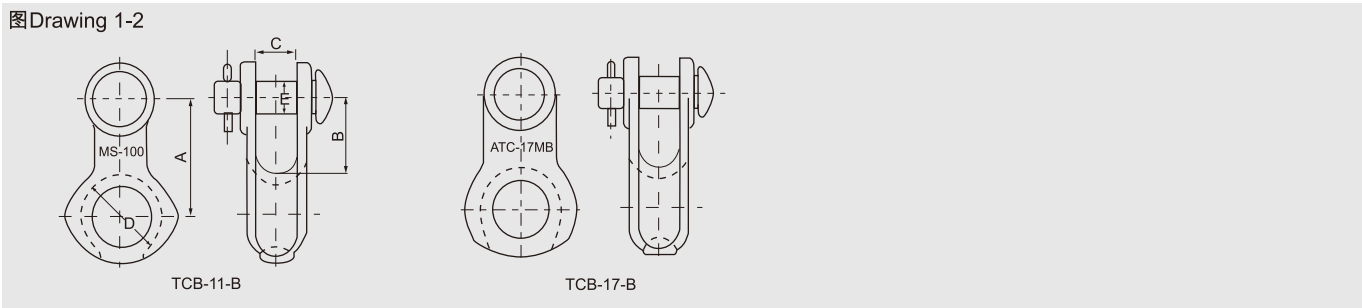
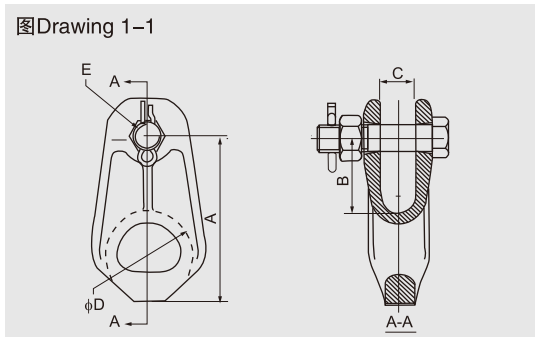


表1-2心形环 Table 1-2 heart shape ring

产品型号 Catalogue No.	参考标识 Reference Identifier	破坏强度 Broken Strength (kN)	重量 Weight (kg)	尺寸Dimension (mm)				
				A	B	C	D	E
TC-05	TC-05	50	0.33	60	45	20	40	Φ16
TC-07	TC-07	70	0.44	60	45	20	42	Φ16

6.注意 Attention

- 1)不要在线夹上搭接。在线夹前后的导线上进行搭接是允许的;

2)不要将线夹用于架空地线;

3)在初始安装之后,不要再次使用线夹;

4)线夹和导线的旋向应保持一致。标准的线夹是右旋,如需要左旋产品请向公司咨询。
- 1) Don't lap on the set. Lap on the conductor is allowable;

2) Don't use it on overhead earth wire;

3) After initial installation, don't use it again;

4) The direction of turning between tension set and conductor should be the same. The standard direction is right. Please consult the company if left is required.

7.选型表 Model Table

表1-3预绞式绝缘导线耐张线夹选型表(一) Table 1-3 preformed insulated wire tension set model table (1)

产品型号 Catalogue No.	适用导线直径范围 Cable range (mm)		1kV以下适用导线型号 Applicable conductor below 1KV GB 12527-90	10kV以下适用导线型号 Applicable conductor below 10KV GB 14049-93薄绝缘 Thin insulated	参考长度 Reference length (mm)	色标 Color code	可选配套金具 Optional fitting
	最小 Min	最大 Max					
DN-3510	5.82	6.53	10		460	橙 Orange	TC-05
DN-3511	6.55	7.34	16		530	黄 Yellow	
DN-3513	8.28	9.25	25		690	绿 Green	
DN-3514	9.26	10.39	35		690	黄 Yellow	
DN-3515	10.40	11.68	50		740	蓝 Blue	
DN-3516	11.69	13.11	70	25 35	790	橙 Orange	
DN-3517	13.12	14.66		50	860	紫 Purple	
DN-3100	14.67	16.59	95 120	70	889	蓝 Blue	TC-07
DN-3101	16.60	18.77	150	95	980	红 Red	
DN-3102	18.78	21.26	185	120 150	1016	棕 Brown	TC-12
DN-3103	21.27	24.05	240	185	1016	绿 Green	
DN-3104	24.06	27.20		240 300	1016	黑 Black	

表1-4预绞式绝缘导线耐张线夹选型表(二) Table 1-4 preformed insulated wire tension set model table (2)

DL/T763-2001 标准型号 Standard Type	适用导线直径范围 Cable range (mm)		10kV以下适用导线型号 Applicable conductor below 10KV GB 14049-93普线绝缘 Normal insulated	参考长度 Reference length (mm)	色标 Color code	可选配套金具 Optional fitting
	最小 Min	最大 Max				
NL-35/JY	14.67	16.59	35	889	蓝 Blue	TC-05
NL-50/JY			50			
NL-70/JY		18.77	70	980	红 Red	
NL-95/JY	18.78	21.26	95	1016	棕 Brown	TC-07
NL-120/JY			120			
NL-150/JY	21.27	24.05	150	1016	绿 Green	
NL-185/JY	24.06	27.20	185	1016	黑 Black	TC-12
NL-240/JY			240			
NL-300/JY			300	1016	紫 Purple	

注：型号中字母与数字意义：N-耐张线夹；L-螺栓预绞式；“-”后为适用导线型号Y- 绝缘导线。

可选配套金具TCB型号的选择与导线的额定破断力相关。

耐张线夹的选型以实际导线直径为准。

Note: Meaning of letters: N- tension set; L- bolt preformed; after “-” is conductor type; JY- insulated conductor.

Optional fitting TCB is related to rated broken strength of conductor.

The option of tensionset is according to the actual conductor diameter.

表1-5预绞式导线耐张线夹(钢芯铝绞线用)选型表 Table 1-5 preformed conductor tension set (used on ACSR) model table

DL/T763—2001 标准型号 Standard type	适用导线直径范围 Cable range (mm)		适用导线类型(GB1179—83) Suitable conductor type 钢芯铝绞线(LGJ/LGJF) ACSR	参考线夹长度 Reference length (mm)	线夹重量 weight (kg)	色标 Color code	可选配套金具 Optional fitting
	最小 Min	最大 Max					
NL—16/3	5.17	5.79	16/3	444	0.1	棕 Brown	TC—05
NL—25/4	6.54	7.34	25/4	546	0.1	黄 Yellow	
NL—35/6	7.35	8.26	35/6	622	0.2	红 Red	
NL—50/8	9.26	10.39	50/8	685	0.2	黄 Yellow	
NL—70/10	10.40	11.68	70/10	736	0.3	蓝 Blue	
NL95/15	13.12	14.66	95/15	876	0.6	红 Red	TC—07
NL—95/20			95/20				
NL—120/7			120/7				
NL—120/20	14.67	16.59	120/20	889	0.8	黑 Black	TC—12
NL—120/25			120/25				
NL—150/8			150/8				
NL—150/20	16.60	18.77	150/20	1016	1.1	绿 Green	
NL—150/25			150/25				
NL—150/35			150/35				
NL—185/10			185/10				
NL—185/25	18.78	21.26	185/25	1155	1.7	橙 Orange	
NL—185/30			185/30				
NL—185/45			185/45				
NL—210/10			210/10				
NL—210/25			210/25				
NL—210/35			210/35				
NL—210/50			210/50				
NL—240/30	21.27	24.05	240/30	1270	2.3	蓝 Blue	TC—16
NL—240/40			240/40				
NL—300/15			300/15				
NL—300/20	24.06	27.20	300/20	1442	3.0	棕 Brown	
NL—300/25			300/25				
NL—300/40			300/40				
NL—300/50			300/50				

注：型号中字母与数字意义：N-耐张线夹；L-螺栓预绞式；“-”后为适用导线型号；LGJ-钢芯铝绞线。
本表只列出部分产品，如需其它规格产品，请向公司咨询。
原则上预绞式导线耐张线夹只用于110kV及以下电压等级的架空线路中。
Note: Meaning of letters: N- tension set; L- bolt preformed; after “-” is conductor type; LGJ- ACSR.
This Table is simply listed some products, if you require other selection product, please contact the company (follow newt page).
The preformed conductor tension set is only used for overhead line below 110KV.

表1-6预绞式导线耐张线夹(铝绞线用)选型表 Table 1-6 preformed conductor tension set (used on aluminum stranded conductor) model table

DL/T763-2001 标准型号 Standard type	适用导线直径范围 Cable range (mm)		适用导线类型(GB1179-83) Suitable conductor type 铝绞线(LJ) Aluminum stranded conductor	参考线夹长度 Reference length (mm)	线夹重量 weight (kg)	色标 Color code	可选配套金具 Optional fitting
	最小 Min	最大 Max					
NL-16/LJ	4.62	5.16	16	406	0.1	蓝 Blue	TC-05
NL-25/LJ	5.80	6.53	25	444	0.1	橙 Orange	
NL-35/LJ	7.35	8.26	35	622	0.2	红 Red	TC-07
NL-50/LJ	8.27	9.25	50	685	0.2	绿 Green	TC-12
NL-70/LJ	10.40	11.68	70	736	0.4	蓝 Blue	
NL-95/LJ	11.69	13.22	95	800	0.4	橙 Orange	
NL-120/LJ	13.12	14.66	120	876	0.6	红 Red	
NL150/LJ	14.67	16.59	150	889	0.8	黑 Black	
NL-185/LJ	16.60	18.77	185	1016	1.1	绿 Green	
NL-210/LJ	16.60	18.77	210	1016	1.1	绿 Green	
NL-240/LJ	18.78	21.26	240	1155	1.7	橙 Orange	
NL-300/LJ	21.27	24.05	300	1270	2.3	蓝 Blue	TC-16
NL-400/LJ	24.06	27.20	400	1422	3.0	棕 Brown	
NL-500/LJ	27.21	30.78	500	1651	4.9	橙 Brown	

注：型号中字母与数字意义：N-耐张线夹；L-螺旋预绞式；“-”后为适用导线型号；LJ-铝绞线。
本表只列出部分产品，如需其它规格产品，请向公司咨询。
Note: Meaning of letters: N- tension set; L- bolt preformed; after “-” is conductor type; LJ- aluminum stranded conductor.
This Table is simply listed some products, if you require other selection product, please contact the company (follow newt page).