

# Sichuan Tianyi Comheart Telecom Co., Ltd



## AERIAL CLOSURES



### Description:

TQB aerial closure, equal to 3M Slic Aerial Closure, is also called self supporting aerial cable closure or aerial free breathing mechanical joint closure. It is free breathing and suitable for straight, butt, and branch splices of non-pressurized communication cables.

TQB aerial closure is a single piece aerial closure easily used in installation and maintenance of aerial telecom cables. The one piece construction permits complete splice access, without removal of the closure or bonding of the cables.

The closure consists of closure body, end seals and other essential components. The closure body is a lightweight, double-walled and molded plastic housing. It is weather and ultraviolet ray resistant. The durable housing will not crack or break in even the harshest environment.

The rubber end seals have life span and have enough elastic force. They are used on either side of the closure to accommodate various sizes of cables and prohibit rain/dew/dust from entering chamber. Other components are attached to the closure.

### Features:

- a) Easy to install, re-use and dismantled by technicians using simple tools.
- b) Free opening/closing with latches, which verily achieve a zero-cost reentry without any special tools.
- c) Ventilation holes at both sides of closure body perform both venting and draining functions.
- d) Up to 3 cable inlets and outlets at each end for easy direct or branch-off connections.
- e) Made from durable, rugged material

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## Application Enviroments:

The closure system can resist the following environmental condition:

Environmental Temperature: -40°C to +65°C

Pressure: 70~106Kpa

Operation Temperature: -30°C~+65°C

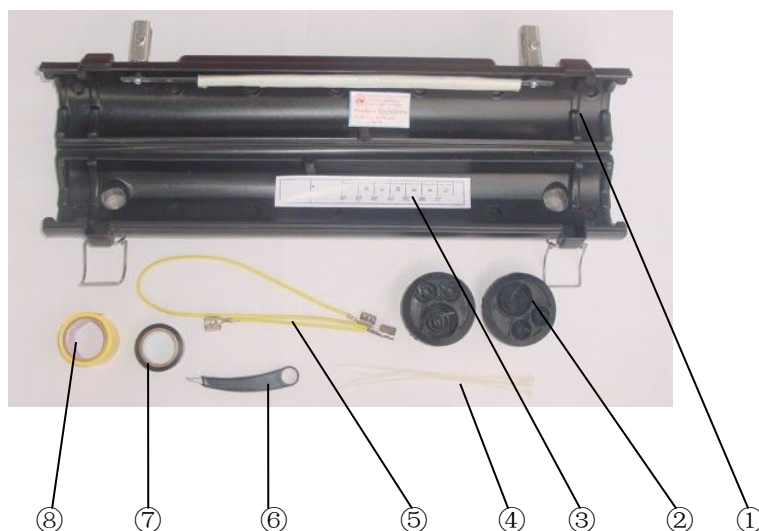
## Product Specifications:

SN	Specification	Closure Outer Dia.×Closure Overall Length (mm)	Max. Opening Length (mm)	Max. Splice Dia. (mm)	Cable Dia.		Applicable Cable Pairs (wire gauge: 0.4mm)	Notes
					Main Cable (mm)	Branch Cable(up to two branches) (mm)		
1	TQB50/20-20 0	77×305	200	50	5-25	-	10-50	Straight Type
2	TQB56/25-35 0	82×480	350	56	5-25	-	50-100	
3	TQB56/25-50 0	82×690	500	56	5-25	-	100-200	
4	TQB92/45-50 0	115×690	500	92	5-45	-	200-400	
5	TQB50/25-20 0	77×305	200	50	5-25	5—15	10-50	Branch Type
6	TQB56/25-35 0	82×480	350	56	5-25	5—15	50-100	
7	TQB56/25-50 0	82×690	500	56	5-25	5—15	100-200	
8	TQB92/45-50 0	115×690	500	92	5-45	5—15	200-400	

Remarks: other sizes are available on customer requirements.

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## Kit Components:



### **1 Closure Body**

### **2. End seals(2 pieces)**

### **3. Ruler (1 piece, to measure the circumferential length of cables)**

### **4. Nylon cable ties (4 pieces)**

### **5. Shield continuity wire and connector (1 kit)**

### **6. Knife**

### **7. PVC tape (1 roll)**

### **8. Joint wrap tape (1 roll)**

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## INSTALLATION PROCEDURE:

- 1、 Using the ruler which was designed to measure the circumference of the cable is to confirm the starting place of cutting on end cap: using the ruler to wrap around the cable for on circle. Then find out what area the symbol ▲ in. Like the picture 1 showing. The ▲ is in D area. So you should find D mark on end cap. Then using the knife to open a hole in the corresponding place(picture2)

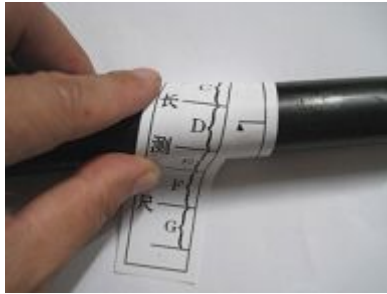


图 1



图 2

- 2、 **Installation of the end cap:** For broken cable, pass it through the hole on end cap(picture 3). For unbroken cable, using the knife to cut the end cap horizontally till the unbroken cable can be insert into it(picture 4). Using the PVC tape to wrap around the end cap 1.5 circle in order to prevent the incision from cracking.(picture 5).



图 3



图 4



图 5

- 3、 **Sheath opening:** Remove the cable sheath as per requirement (About maximum sheath opening length of each enclosure, please check the main parameters of enclosure). Cut the cable sheath and shield layer for about 30mm longitudinally starting from the broken interface enabling to install shield continuity wire.

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- 4、 **Jointing cables:** Joint the cables as per telecom standard and then bind it tightly with PVC tape (Picture 6).

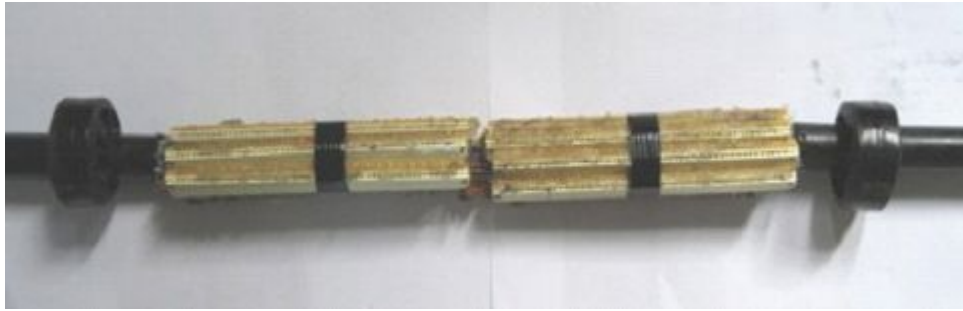


图 6

- 5、 **Wrapping joint:** Starting from the middle part of joint, use joint wrap tape (optional accessory) to bind the joint with overlap length of 1/2 tape width then use PVC tape to wrap the joint sparsely to fix the joint(Picture 7).



图 7

- 6、 **Installing Enclosure Body:** After adjusting the position of Enclosure Body and cable sheath opening point, hang the Closure Body on the Suspension Line (Picture 8).



图 8

- 7、 **Fixing splice bundle and Enclosure Body:** Bind the splice bundle tightly with fixing panel on the Enclosure Body with nylon tie-wrap. Install Shield Continuity Wire (Picture 9).
- 8、 **Shield Continuity Wire Installation:** Put the shield continuity wire connector at the 30mm cable sheath cut point, clamp it tightly with pliers and wrap tightly with PVC tape(Picture 9). Use the clamp on the shorter branch wire to connect branch cable.

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图 9

- 9、 **Closure Assembly** : Reposition the End Seals, splice bundle and shield continuity wires, close latches to seal and make a record on the record card(Picture 9).

### Appendix:

The marks on the circle orbit of End Seals and their corresponding cable outer diameter:

Marks on the circle orbit of End Seals	A	B	C	D	E	F	G	H
O.D of cable(mm)	10-14	15-19	20-24	25-29	30-33	35-38	40-43	45-48

### Important Notice:

Aerial closures should be stored in the well-ventilated shelves with the min. 20cm distance from the ground and the walls. The temperature of the warehouse should be  $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$  and the humidity should be not more than 85% (at  $30^{\circ}\text{C}$ ) .