

**المواصفات الفنية الخاصة بالمناقصة العامة**

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**الإدارة العامة للمشتريات والمخازن**

**إدارة المشتريات - قسم العقود والمناقصات**

# **Technical Specifications for Aerial Joint Closures**

# **Specification**

## **Joint closures for Aerial Telephone Cables**

**June 2009**

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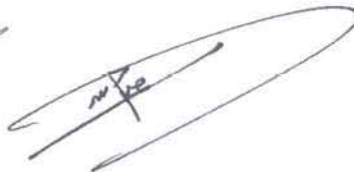
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### **(1) General :**

- This specification details the joint closure designed to provide environmental and mechanical protection used for air core polyethene insulated.
- The joints for aerial cables are vertically mounted joints supported on poles or walls.

### **(2) Temperature:**

The joint closure material, shall without detriment, maintain the physical and electrical properties detailed in this specification throughout a temperature range of  $-20C^0$  to  $+80C^0$

### **(3) Joint closure Requirement:**

- 3.1. The joint closure manufactured from high impact, UV resistant. Thermoplastic material not used for recycle raw materials .
- 3.2. Shall the joint closure "kit" supply with parts which enable the joint closure to be mounted on poles or walls.
- 3.3. The joint closure shall be designed to allow incoming several cables through holes pierced in the base with a conical iron tool.
- 3.4. The joint closure shall have sufficient space for connectors equivalent to the largest incoming cables.
- 3.5. The joint closure shall be opened and reclosed any number of times.
- 3.6. The base liner shall provide adequate structural strength to preclude collapse during installation.
- 3.7. The closure kits shall contain all the necessary components for a complete installation.
- 3.8. Shall consist of corrosion resistant material, resisting water aggression, acids, oil etc.





- 3.9. Have mechanical strength to resist tensile, compressive, bending and torsion stresses incurred during service and jointing of cables.
- 3.10. Have a possibility to take out an earth wire.
- 3.11. Provide a durable sealing agent against moisture penetration.

**(4) Testing :**

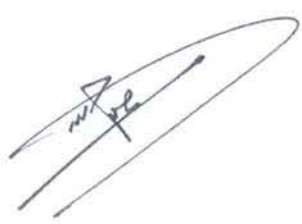
- The jointing closures shall be meet international standards For cable splicing, and have been qualified by independent accredited testing authorities word wide, complete electrical, environmental and mechanical performance tests.
- The Tenderer shall furnish his offer the limit values of the jointing sleeves for the above tests.

**(5) Sizes :**

- The jointing closures shall be supplied in a number of size required to cover straight joints and joint with one incoming and maximum three outgoing cables of different sizes
- The tenderer shall give a number of sizes for the range of cable diameters each size will cover.

**(6) Screen connecting clips with wire:**

The clips shall be designed for application over the adage of the sheath and screen providing an electrical contact across the splice.

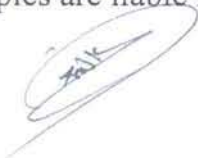


**(7) compliance :**

- The tenderer shall state their compliance with this specification for each type of joint offered by him. Any deviation suggested by the manufacturer shall be fully documented and presented in the form of an alternate offer.
- The offer shall in addition give a list of items contained in each type of the jointing kit. the test values asked for in clauses 4, and a description of the jointing method with the screen connection arrangement.
- Tenderers shall be give details of the construction of joint, electrical, environmental and mechanical characteristics relating to the concerned tender and give the dimensions of the joints.

**(8) Samples:**

- The tenderer shall supply samples of jointing closuer and screen connecting clips a Long with the tenderer. Tenders submitted without samples are liable for rejection.



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# **Technical Specifications for Vertical Joint Closures**



الرقم : \_\_\_\_\_  
التاريخ : \_\_\_\_\_

## Technical specification for Vertical Joint

### **1) General :**

1.1 The Specification gives the details of indoor type joint mechanical closures for the vertical joint between under ground cables and the MDF cable in the Telephone exchange to provide.

The necessary envirimmentated and mechanical protection.

1.2 The under ground cables are generally of ducted type filled and PE sheathed with PE insulated conductors.

1.3 The conductors diameter of under ground cables is 0.4mm.

1.4 The MDF cable is PVC sheathed type indoor cable with 0.4mm cable capacity.

### **2) Size :**

2.1 The following capacities are generally used at the under ground 1800P, 2400P, 1500P, 1200P, 900P, 600P

2.2 The capacities of the M.D.F cables are 100 Pairs.

2.3 The size of the joint to be used depends on number of distribution cables to be led out as well as on the number of pairs and the conductor cross section.

### **3) Temperature :**

The joint closures material, shall be without detriment the physical and electrical properties detailed in the specification throughout a temperature rang of  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

### **4) Joint Sleeve Requirements :**

4.1 The sleeve shall be manufactured from a reinforced plastic Warp around with an integrated metal barrier.

4.2 The sleeve and the flap shall be located with adhesive which seal the closure sear.

4.3 The joint shall be have adequate mechanical support to provide structural to preclude collapse during installation.

4.4 The closure kits shall be contain all the necessary components for a complete installation.

4.5 Be adaptable to cables with sheath consisting of lead, polyethylene or PVC (both single and multisheathed) with am overall diameter from 30mm to 90mm.

4.6 Allow branch joint the require number of cables the rate of one cables per 100 Pairs of the incoming cable.

4.7 Be re-intrable and reclosable with out tolls.

4.8 Have sufficient space for connectors require for the largest capacity incoming cable.

4.9 Be usable both for unfilled and filled cables.

2011



**Schedule to tender No. 27/2011**  
**for the supply of**

***Aerial and Vertical Joint Closures of Various Capacities***

<b><i>No.</i></b>	<b><i>Items</i></b>	<b><i>Qty.</i></b>	<b><i>Unit price</i></b>	<b><i>Total price</i></b>
<b>1.</b>	Aerial Joint Closures of 10-50P Capacity	<b>1,200</b>		
<b>2.</b>	Vertical Joint Closures of 1800P Capacity	<b>50</b>		
<b>Total</b>		<b>1,250</b>		