

Item No.	Qty	Tube Size			Damping Conductor Size			Total Length (m)
		Outer Diameter (mm)	Length (mm)	Wall (mm)	Dia (mm)	Mass (kg/m)	Length (m)	
1	3	250	23200	6	26.46	XXX	XXX	69.1
2	6	250	20000	6	26.46	XXX	XXX	119.5
TOTAL DAMPING CONDUCTOR FOR 200mm DIAMETER TUBES								189

**Notes:**

- a) Item numbers correspond to those in 4 above.
- b) Quantity of ferrules/sleeves (**ECES-A**): 18 (Centipede Conductor)
- c) Rate price/m for installing conductors is to provide for the following:
  - i. The 250x6mm tubes are to be fitted with two damping conductors clamped to an end cap as specified in the drawings. Details of this are specified in the drawings.
  - ii. The fusion or crimping in a sleeve of the conductor strands at the free end to prevent unravelling.
  - iii. Tack welding of the end cap to the tube in three places.

**5. TRIMMING OF TUBES TO EXACT LENGTH ON SITE**

ITEM	TUBE SIZE	NUMBER OF TUBES TO BE CUT
3	250 Ø x 6 W.T.	1

**Notes:**

- a) Item number 4 for the 250 dia x 6 W.T to be cut up into 3 equal 300mm lengths

**6. INSTALLATION OF CLAMPS**

QUANTITY	DESCRIPTION	TYPE
9	250 Ø -250 Ø Full In-Line Expansion Clamp Fixed/Slider	EEC-PI-FS-R
3	250 Ø Bus Support Sliding Clamp 225mm PCD	ECC-PI-S-K
18	Conductor End Sleeve	ECES-A

**7. INSTALLATION OF END CAPS**

QUANTITY	DESCRIPTION	TYPE
18	Tubular Busbar Flat End Cap with Conductor Fixing Clamp – 250 Ø Tube	ETEC-DC-H
6	Corona-free End Cap – 250 Ø Tube	ETEC-CF-G
3	Flat Plain End Cap – 250 Ø Tube	EEC-PL-G

## 8. INSTALLATION OF POST INSULATORS

QUANTITY	DESCRIPTION	TYPE
12	400kV Post Type Insulators	C10 - 1550

## 9. DRAWINGS

Pem13P01-SE-E3	- Station Electric Diagram
Pem13P01-SE-E4	- Key Plan
Pem13P01-SE-E 9 Rev. 0	- 400kV Tubular Busbar Layout

## 10. LOCALITY PLAN

