

# Zacklyns Network Project



The route is **6.3 km** long, so the cost will depend on the equipment you want to use, the necessary infrastructure, and labor.

Here are some factors that influence the price:

- **Network cables:** The type of cable (fiber optic or Ethernet) can significantly impact the cost.
- **Routers and switches:** The quantity and capacity of the required devices.
- **Installation:** Excavation, poles, or conduits for cable passage.
- **Labor:** Technicians for installation and configuration.

# Network Installation Along the 6.3 km Route:

## Estimated Budget

Item	Quantity	Unit Price	Total Cost
Fiber optic cables	6,300 meters	€2.50/m	€15,750
High-capacity routers	12 units	€250/unit	€3,000
Managed switches	12 units	€150/unit	€1,800
Distribution boxes	25 units	€80/unit	€2,000
Labor (installation and setup)	250 hours	€40/h	€10,000
Excavation and underground infrastructure	6,300 meters	€11.55/m	€72,765
Licensing and fees	-	-	€3,500
Additional materials (connectors, supports, etc.)	-	-	€3,000
Total Estimated Cost	-	-	€111,815

## Remarks

- Prices may vary depending on the supplier and location.
- Installation may require adjustments based on terrain and existing infrastructure.
- Specialized companies such as **Progoffice** can assist with network implementation and planning.

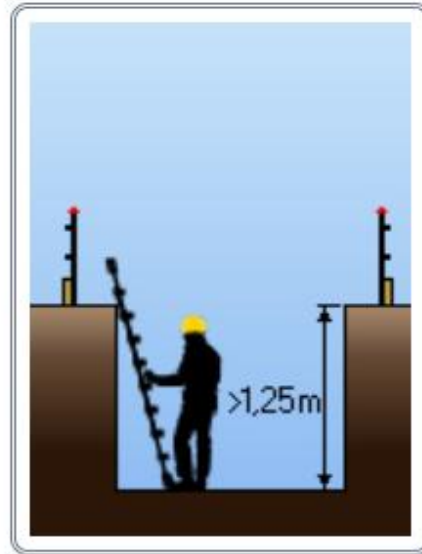
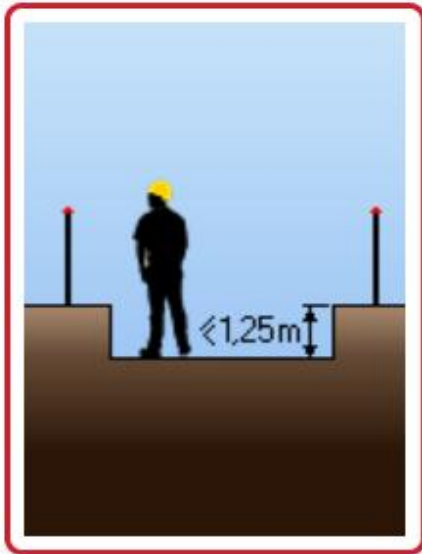
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## Rebaixamento do nível freático

☐ Sim ☒ Não

## Segurança e saúde



**Price in Portugal per cubic meter of Excavation for trenches and foundations**

**Price Generator for Civil Construction – CYPE Ingenieros, S.A.**

**Excavation of trenches and foundations** Excavation of trenches for installations up to **2 m** deep in **dense sand soil**, using **mechanical means**, with storage at the excavation edges.

**Price: €11.55 per cubic meter**

### Options

- **Type of excavation:** Trenches for installations.
- **Soil type:** Incoherent soils, rocks, semi-dense sand.
- **Excavation method:** Manual or mechanical.
- **Loading options:** store excavated materials at excavation edges.
- **Shoring options:** No shoring,
- **Water table lowering:** No.
- **Safety and health considerations** included.

## Price breakdown

Equipment/Labor	Productivity	Unit Price (€)	Cost (€)
Backhoe loader (70 kW, wheeled)	0.197 h	40.90	8.06
Unskilled construction worker	0.140 h	23.29	3.26
Additional direct costs (2%)	-	11.32	0.23
Total price per cubic meter	-	-	€11.55