



PRAKAB PRAŽSKÁ KABELOVNA



# PRAGUE METRO PROJECT LINE A EXTENSION





## KEY FACTS

- 4 metro stations – Červený Vrch, Veleslavín, Petřiny and Motol, beyond the Dejvická station
- Total construction length 6134 m
- Completed and opened for public April 6, 2015
- Construction duration 5 years
- Investment approx. 20 billion CZK
- More than 600 km of cables PRAKAB



## PRAGUE METRO – LINE A EXTENSION

Prague metro carries around 600 million passengers a year, or almost 1.6 million passengers a day. The two busiest metro stations are Můstek and Dejvická, serving more than 120 000 people daily. Historically the first section of the metro line A was opened between stations Dejvická and Náměstí Míru. Its completion and opening for public dates back to August 12, 1978. The second section was opened in 1980 including the stations Jiřího z Poděbrad, Flora and Želivského. Construction of Strašnická station followed in July 1987, followed three year later by Skalka, and in May 2006 by Depo Hostivař station. The latest section Dejvická – Motol was opened on April 6, 2015.

## PROJECT

The aim of the extension of metro line A was to significantly improve transportation services to the municipal district Prague 6, and reducing bus transportation. After its opening pollution from buses was greatly reduced. The metro line extension to Motol Hospital helped to improve the health care availability in the Prague 6 district and its surroundings. Motol Hospital is at the same time a big employer, thus the extension of metro line A ensured a better way to work for thousands of employees.

## CONTRACT

The construction project of the four new stations of the metro line A was partially financed from EU funds. Out of the total of 20 billion CZK more than 100 million was invested in the cables from PRAKAB PRAŽSKÁ KABELOVNA, s.r.o..

Electrical energy 230/400V at the new stations of line A is distributed either directly to respective place of consumption, or to sub distribution switchboards located in the separate switch rooms. The important devices are connected directly to the main switchboard in the electrical station. The total length of low-voltage cables of the Prague metro is over several thousand km and for this reason special cable trays, rooms and ducts are built, with 22kV cables conducted simultaneously.

The whole cable distribution are nowadays made using cables whose insulation and sheath do not release any toxic and corrosive halogen gasses in case of fire and prevent the spread of fire. This was also the case of construction of the four new stations. For major devices the cables with functional integrity were used, which are fire resistant for at least 90 minutes remaining fully functional and continuing to transmit electric power. More than 90% of the whole delivery from PRAKAB consisted of energy cables 1-CSKH and 1-CXKH in more than fifty dimensions.

