

Data transmission solutions for mining and tunneling

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Automation solutions for mining and tunneling

In a world of deeper mines, rising energy costs and infrastructure shortages, mining companies remain under exceptional pressure to control costs, heighten efficiency and improve safety performance. It is evident that communication technology is a key for the mining industry of the future.

As the fourth industrial revolution progresses, data connectivity in general is taking a more pivotal role – information from sensors, data-heavy automation solutions and data analytics must be conveyed across large distances and through challenging environments. The mining industry is deploying automation technologies at a rapid rate, meaning the demand for flexible and high-bandwidth communication is soaring.

HUBER+SUHNER supplies components and system solutions that enable optical and radio frequency connectivity in the harsh environments of the mining and tunneling industry.



Ease of installation



Customisation



Robustness

The highlights

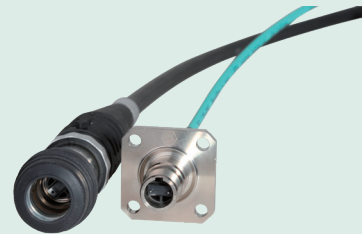
H3RO – the fiber optic distribution unit

- Compatible with ultra harsh environments
- Does not require fiber technicians to install
- Highly customisable



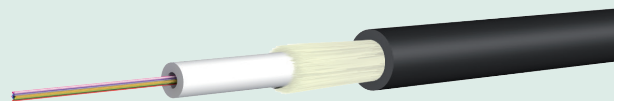
Q-ODC-12 / 24 – push-pull quick connectors

- High fiber counts packaged in robust outdoor housing
- Tool-less quick connect terminations
- High number of mating cycles

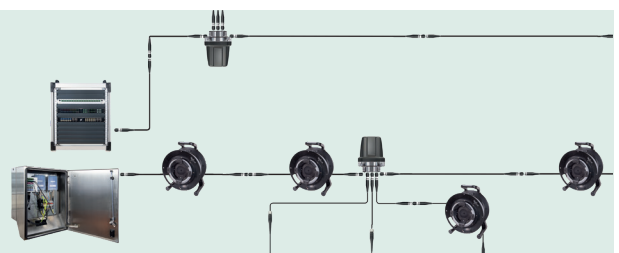


H3RO cable – fiber optic cable for the toughest conditions

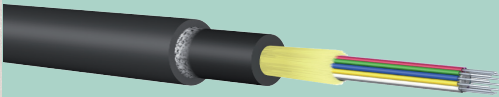
- High water and oil resistance
- High strain and torsion ratings
- Great coiling capability



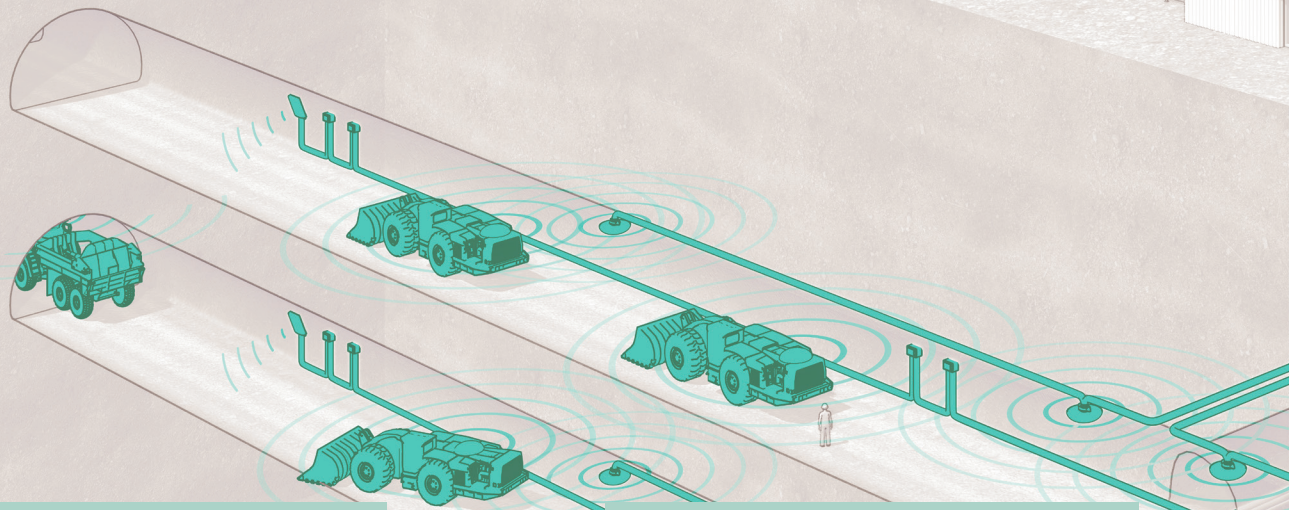
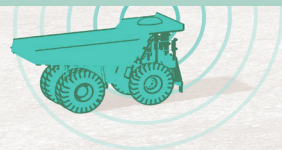
Standardised, modular network



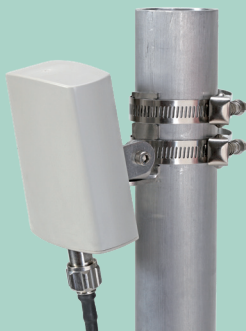
RADOX®
drag chain cable



**Q-ODC-12 / 24 and
ODC-4 harsh environ-
ment connectors**



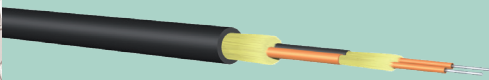
SENCITY®
Spot-S antenna



**SENCITY® Omni-S
vehicle antenna**



**RADOX®
TWINFLEX Industry Link**



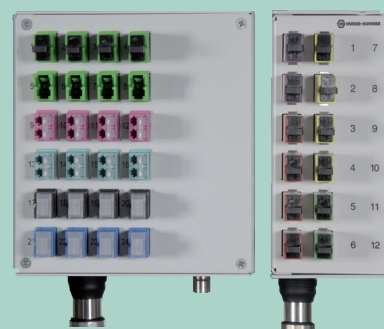
Q-ODC rack modules



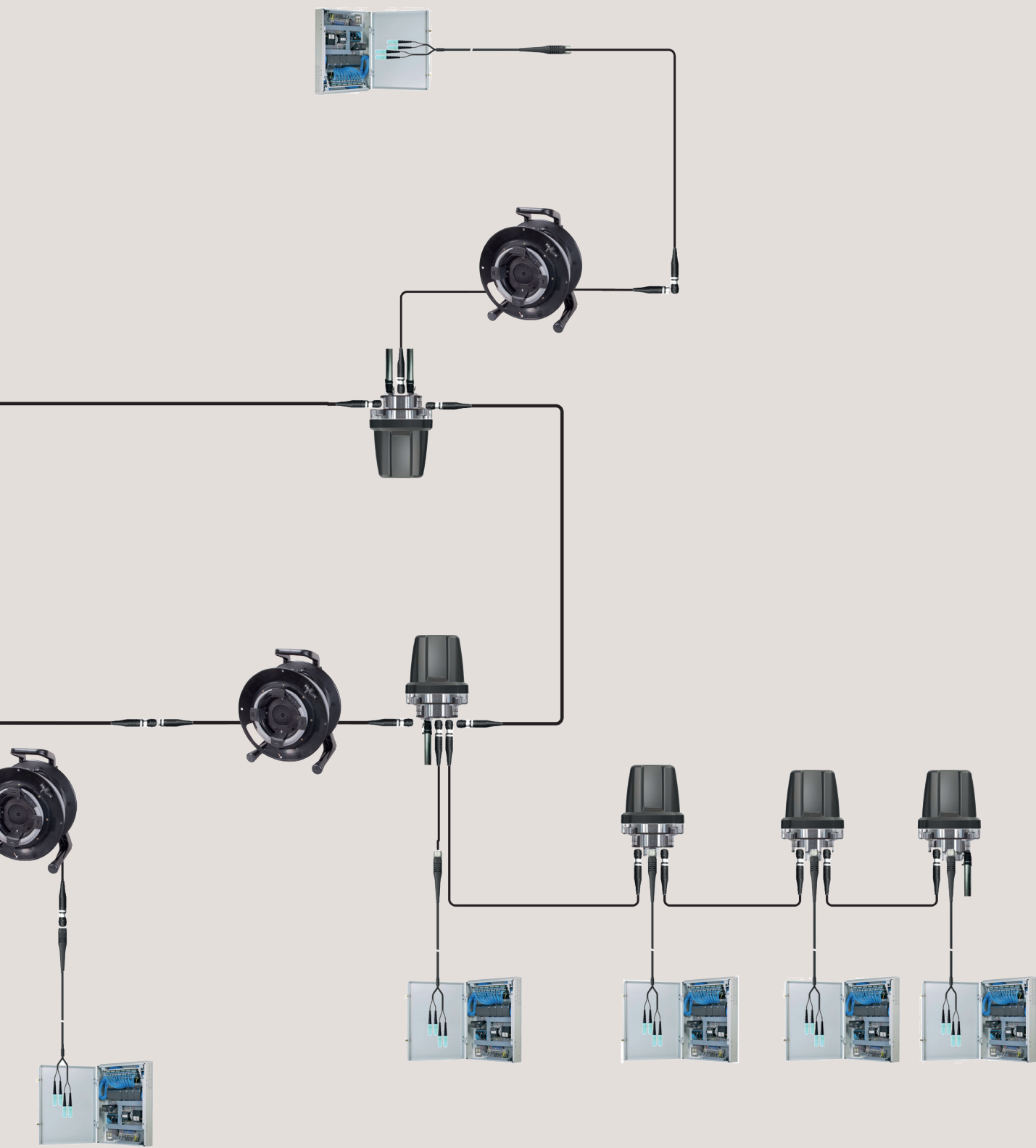
**H3RO fiber distribution
unit with Q-ODC-12 / 24
and ODC-4**



MDR box



The diagram illustrates a hierarchical fiber optic network. At the top, three distribution boxes are connected to a central hub. A single cable runs from this hub to a patch panel on the left. Below the patch panel, the main line passes through two reels and then to a second hub. This second hub is connected to three more distribution boxes at the bottom. The entire system is composed of black fiber optic cables and various connectors, including blue and green fiber optic connectors.



Additional information



Catalogue

H3RO - Harsh environment reticulated optics



Catalogue

Fiber optic solutions for industrial applications

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