

Reliable communication and connectivity worth its weight in gold

Customer

Large gold and copper mine in Indonesia

Background

In order to maximise productivity miners need better control of and insights into their processes. At the same time worker safety requires dedicated and highly reliable systems or, preferably, remote controlled or autonomous operations. All of this requires high volumes of control, monitoring and communications data to be relayed throughout the mining environment.

Ampcontrol together with partner Huber+Suhner are helping the mining industry raise their level of operational efficiency, safety and sustainability through the development and implementation of **H3RO**.

The Requirements

At a large gold and copper mine in Indonesia, expansion and upgrades are being undertaken to accommodate remote controlled machinery, contemporary communications networks, safety and monitoring equipment.

The mine was looking to establish state-of-the-art data infrastructure but without compromising on robustness, installation time, and flexibility. Specifically, they required:

- Telco-grade, high density, low-loss fibre optics
- Connectivity fit for underground mining conditions
- Simplified installation that does not require expert engineers
- Hassle-free, simple repair and expansion based on a narrow, easily stockable component kit

The Solution

H3RO provided a fit for purpose solution. Its compact industrial Break Out Terminals (BOTs), armoured cables and glands, ruggedised push-pull IP86 multi-core connectors and bulkheads can be combined flexibly to provide uncomplicated installation expansion.



H3RO

A modular plug and play fibre optics solution with robust low loss components suitable for mining and industrial applications.

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With standardised cable lengths and BOT configurations stock-keeping is made easy for remote locations as seen at this mine. The customer became convinced that H3RO could deliver fibre optic infrastructure that was not only high-performing but also highly practical.

The Result

Mining and communications specialists from Ampcontrol and Huber+Suhner consulted with the mine to ensure the best implementation of H3RO technology, which was rolled out throughout the expansion.

The nature of fibre optics ensure that they will not become a bottle neck to increased data volumes as the mine and technology expands. This ensures H3RO will be able to accompany the mine as it continues to evolve over its projected lifetime until 2041.

Throughout the project, Ampcontrol worked with Huber+Suhner local channel partner PT Megayasa Teknologi Indonesia, who has been fully committed since the initial introduction and trial, and offers local support, stock planning and tender procurement activities. More opportunities have been identified with the mine on upcoming expansion phases.



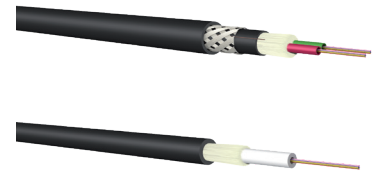
H3RO BOT

- Robust and suitable for harsh environments
- Plug and play - does not require fibre specialists to install
- Standardised parts but a highly customisable system



H3RO 12/24 core push pull connectors

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



H3RO Cable

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

