

DataTuff Mining-Grade Fiber Cables

Resilient fiber for harsh mining environments

Product Bulletin

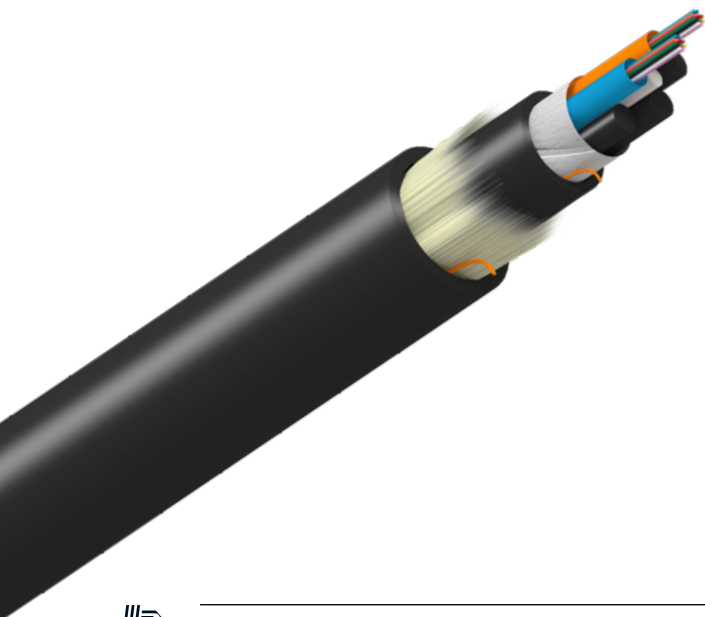


Unlock new connected mining possibilities with Belden's DataTuff Mining-Grade Fiber Cables. These resilient cables meet stringent Mine Safety and Health Administration (MSHA) standards.

- **Increased uptime** with rugged cables that deliver significant bandwidth and low latency to monitor equipment, sensors and air quality in real time.
- **Enhanced safety** with flame-resistant, low-smoke, MSHA-certified fiber cables that prevent the risk of fire or electrical failures.
- **Advanced reliability** and durability for burying or installing with conveyor belts or in mining tunnels without degradation.

Key Features

- Varied gel-free cable types, including dry loose tube, central loose tube, distribution, and breakout with single-mode and multi-mode fiber options.
- Tough outer jackets and reinforcement layers to resist crushing, impact and rodent damage.
- Resistance to high humidity, abrasive materials, mechanical stress, gases and dust.
- Support for voice over IP (VoIP), intercoms and digital communications between surface control centers and underground operations.
- Optimized for critical operations, including conveyor systems to track material transport and ventilation systems to regulate airflow.



Belden's MSHA-rated cables deliver high-speed, interference-free connectivity in the harshest conditions—powering automation, real-time monitoring and safety systems that drive smarter, more efficient mining operations.

Your benefits

Engineered for extreme environments, Belden's DataTuff Mining-Grade Fiber Cables are antifungal and resistant to moisture, abrasion, impact and rodent damage. These cables power high-speed, interference-free data transfer for real-time production, equipment, gas level and structural integrity monitoring.

Supporting AI, IoT and automation, these cables improve the flow of information to drive smarter decision-making and predictive maintenance. Fully MSHA-compliant, they deliver fire-resistant, low-smoke performance and enable real-time safety monitoring, helping prevent toxic exposure while reducing compliance risk.

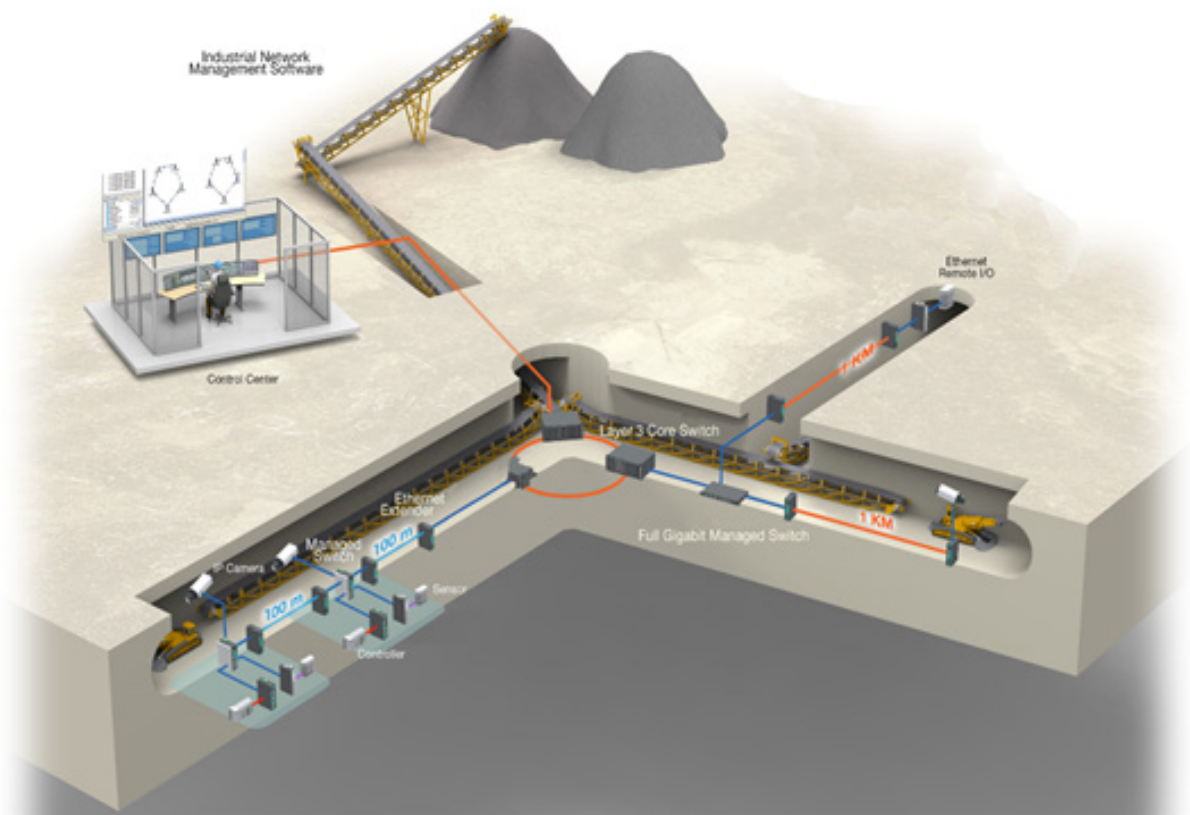
Applications

MSHA-rated fiber cables are the backbone of today's smart mining operations. Built for the harshest conditions, Belden's DataTuff Mining-Grade Fiber Cables power everything from real-time communication and environmental monitoring to autonomous equipment and AI-based analytics.

These rugged cables enable instant data flow across diverse underground networks—supporting equipment maintenance, boosting safety and streamlining operations. Whether controlling remote drills or detecting potential air quality hazards, they unlock new possibilities for high-performance, compliant and connected mining.

Markets

Designed for the harshest conditions in coal mines, hard rock mines, tunnels and more, Belden's MSHA-rated fiber cables meet a wide range of safety and performance standards. With oil-resistant jackets, fire resistance, and Restriction of Hazardous Substances (RoHS) and Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) compliance, these rugged cables deliver reliable, high-speed connectivity for underground and surface operations.



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