



JJ-LAPP

JJ-LAPP Solutions For The Mining Industry

**Engineered For
Extremes**

A large open-pit mine with a red dump truck in the foreground. The mine is a deep, terraced excavation with steep, rocky walls. The truck is loaded with dark, jagged rocks. The sky is clear and blue.

In the high-risk, high-demand world of mining, reliability is everything. JJ-LAPP delivers premium cabling and connectivity solutions engineered to withstand extreme conditions—from open-pit mines to underground operations. Backed by German technology and regional expertise, our robust solutions ensure safe power transmission, seamless automation, and long-term performance to keep your mining operations running efficiently and safely.

Challenges In Mining Operations

Mining sites face some of the harshest environments on Earth. From scorching heat and UV rays in surface mines to confined, hazardous conditions underground, both require rugged, high-performance components.

- Extreme weather, UV radiation, mechanical abrasion.
- Heavy vibrations from excavators and transport machinery.
- Long cable runs over open terrain requiring high load capacity.

Surface Mining Challenges

Underground Mining Challenges

- High humidity, confined spaces, and water ingress risks.
- Flammable gases and dust needing fire-retardant cables.
- Constant cable motion on mobile equipment and drag chains.



Cable Requirements for Harsh Mining Applications

JJ-LAPP's mining-ready cables are engineered to thrive in every challenge:



- Abrasion & Impact Resistant – Ideal for mobile machinery.
- Oil, UV & Chemical Resistant – Suitable for exposed environments.
- Flame-Retardant & Halogen-Free – Enhanced safety and fire protection.
- Flexible, Rugged Designs – For cable reeling, conveyors, and drag chains.
- Internationally Certified – IEC, EN, UL, SNI for mining compliance.

H07RN-F
EN 50525-2-21



ÖLFLEX®
HEAT 350 SC



NSSHÖU
DIN VDE
STANDARD
0250-812



(N)TSCGEWOU
DIN VDE STANDARD
0250-813



ETHERLINE®
PN Cat.5e



SHD-GC



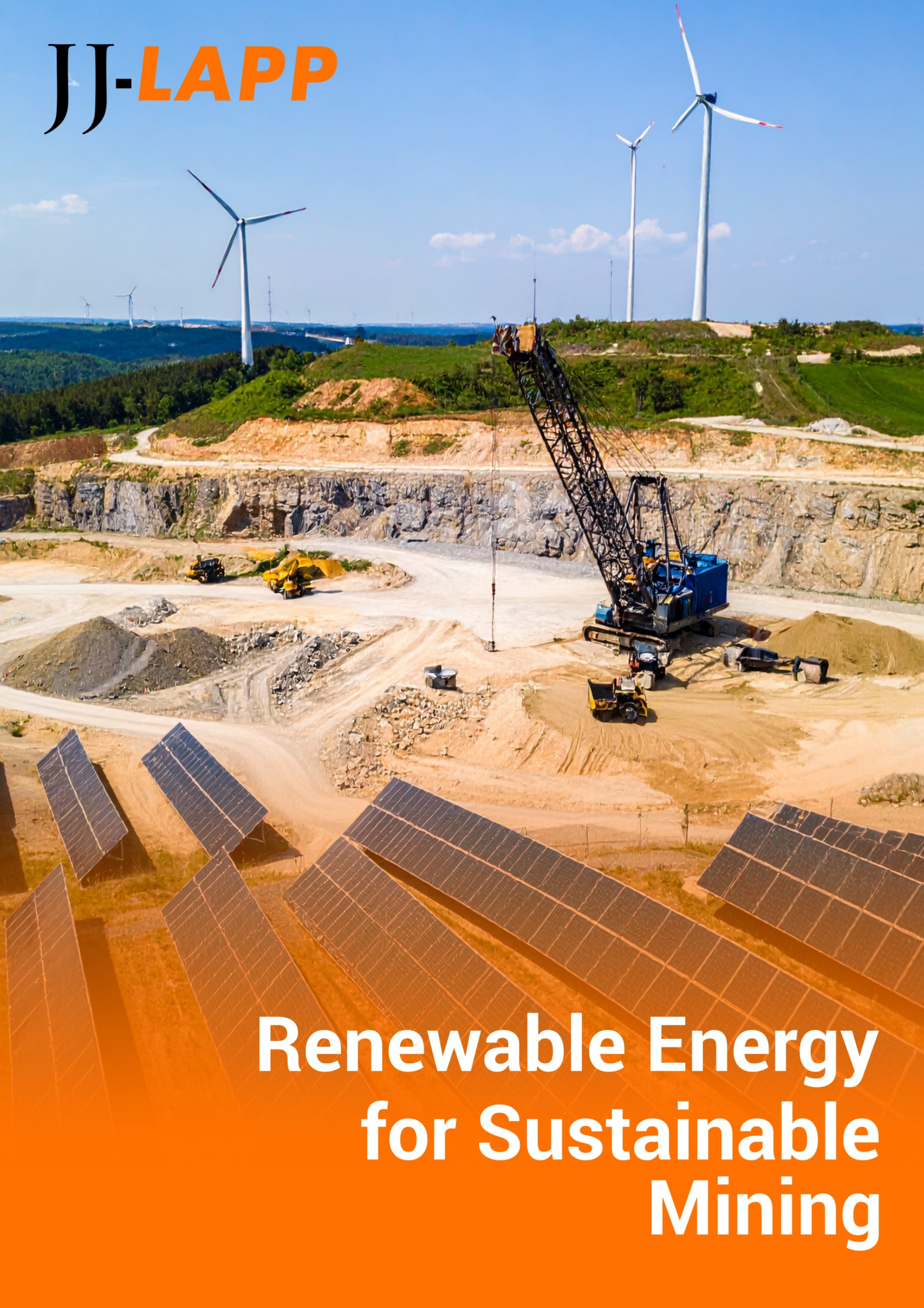
NYN-J



HITRONIC®
HQW3000



JJ-LAPP



**Renewable Energy
for Sustainable
Mining**

Mining is one of the world's most energy-intensive sectors. Most operations in remote areas depend heavily on diesel generators or fossil fuel-based grid electricity, which results in high CO₂ emissions, fuel price volatility, and costly logistics.

- Diesel Emission: ~2.68 kg CO₂ per liter burned.
- Frequent Maintenance & Downtime in off-grid operations.
- Fuel Costs: USD 0.35/kWh vs. solar at only USD 0.08/kWh.

Solar and hybrid energy present a cleaner, more stable power alternative. With CO₂ savings of up to 450g per kWh, renewable energy enhances ESG compliance, lowers OPEX, and boosts energy independence.



BTS



Mine Area



Office Building



Tower Lamp

Key Benefits of Renewable Energy for Mining

Carbon Emission Reduction

Reduce emissions up to 450g/kWh and meet sustainability goals.

O&M and Fuel Cost Savings

Solar PV O&M (50 kW): USD 250/year

Diesel Gen: USD 8,760/year.

Lower Electricity Costs

Solar power is 20–25% cheaper than PLN grid rates.

Solar power is 50% cheaper than diesel.

Zero CAPEX Investment

With Power Purchase Agreements (PPA), you pay only for electricity—0 Rupiah upfront.

LAPP
ÖLFLEX®
SOLAR H1 BUR



Clenergy
SolarTerrace



Trinasolar
TSM-NEG21C.20



HUAWEI
Smart PV Controller
SUN2000-330KTL-H1



HUAWEI
Smart PCS
LUNA2000-200KTL-H1



HUAWEI
DC LV Panel



HUAWEI
Smart Power Sensor
DTSU666-HW/YDS60-80



HUAWEI
Smart String ESS
LUNA2000-2.0MWH



HUAWEI
Smart Transformer Station
JUPITER-9000K/6000K/
3000K-H1

Delivering Performance Where It Matters Most



Local
Manufacturing,
Global
Standards



Engineered for
Harsh
Environments



Complete
System
Solutions



Strategic
Technology
Partnerships



Regional Support
& Service
Excellence

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