

Reliable electrical solutions that keep your power on.

Long-lasting 3M electrical products withstand the harsh conditions within a mine—the right protection for less downtime, fewer interruptions.



Electrical maintenance and repair

Insulate, connect, protect and more.

Each letter below represents an electrical maintenance application. Match these letters to the mine illustration to see all the places where 3M electrical products provide long-lasting protection.

Applications



- Insulate Low Voltage (≤ 1kV) Wires and Cables
- Repair or replace cable insulation
- Repair busbar insulation
- Insulate in extreme conditions



- Repair Motors and Electrical Equipment
- Insulate motor lead connections
- Repair bus bar insulation
 Repair metal housing for motors & pumps



Connect Low Voltage (≤ 1kV) Wires and Cables ● Connect indoors

Connect outdoors



Protect Cables from Fire, Water, or Corrosion

- Resist water
- Resist abrasion, puncture and cut-through
- Resist pipe corrosion
- Arc proofing
- Resist fire and explosion



Rejacket and Protect Medium Voltage Cables

- Make minor repairs to jacket
- Replace the full jacket
- Rejacket with abrasion resistance



Be Safe on the Job

Personal protection



Splice and Terminate Medium Voltage Cables

- Terminate in switchgear and other electrical equipment
- Terminate outdoors
- Portable Cable Resin Splice Kits



General Maintenance

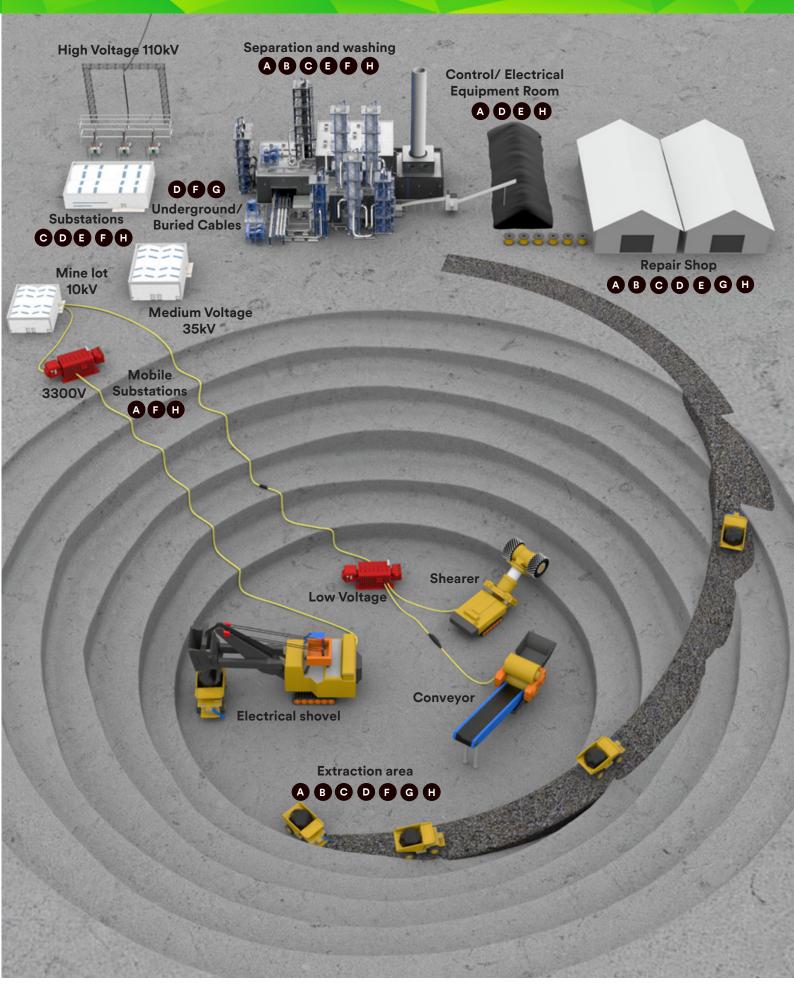
- Metal lubrication and rust resistance
 Cable identification and
- Cable identification and color coding
 Matal ranging
- Metal repair

3M Product Solutions

- Vinyl Electrical Tapes
- Rubber, Mastic and Heavy Duty Mining Tapes
- Corrosion Protection Tapes
- Wire Identification Products
- Wire Connectors
- Lubricants

- Electrical and Cable Jacket Repair Resins
- Heat Shrink Tubing
- Coatings
- Cold Shrink Terminations Kits
- Splice kits Cold Shrink and Portable Cable Resin kits
- Safety products

Mining Guide



3M Electrical Product Selection Guide

Low Voltage Wire and Cable Maintenance

	3M Solution	Faster installation	Outdoor/UV resistance	Low temp. <0°C	High temp. >105°C	Moisture/Humidity	Chemical/Corrosion protection	Applying in small or tight spaces	Irregular shapes or sharp edges	No access to cable end	Mechanical protection	Customer Needs
Connect & Insulate	Spring Connector	•		•				•			•	
	IDC Connector	•	•	•		•		•			•	
	Direct Bury Kits	•	•	•		•					•	
	Butt Connector	•		•		•		•			•	
Insulate & Protect	Vinyl Tape		•	•		•	•		•	•	•	
	Rubber Tape		•		•	•			•	•		
	Mastic Tape/Pads		•	•		•		•	•	•		
	Specialty Tapes*		S, C		S, G, V	C, S	C, S		•	•	G, V	
	Cold Shrink	•	•	•	8400	•	•	•				
	Heat Shrink			•	•	•	•			•	•	
	Resins		•	•		•	•		•	•	•	

NOTE: Products vary within each category. Not all products will be suitable for all the application requirements listed.

* Specialty Tapes coding: S=silicone, C=corrosion protection, G=glass cloth, V=varnished cambric



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